



LINK

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Installation Systems Catalogue

Technical drawing showing piping systems with various components and labels. The drawing includes several sections of piping with valves and fittings, and is annotated with technical specifications such as pipe diameter, flow rate, and COP values.

Labels in the drawing include:

- $\phi 200$ mm FFL
- COP=8040 mm FFL
- CHWS
- 53.15 L/s
- $\phi 200$ mm
- COP=8350 mm FFL
- CHWS
- 53.15 L/s
- $\phi 200$ mm
- COP=8550 mm FFL
- CHWS
- 53.15 L/s

İndeks/Index

Kiriş Kenetleri
Beam Clamps

I
Sayfa/Page
2-15

Boru Askı Kelepçeleri
Pipe Hangers

II
Sayfa/Page
16-43

Boru Makaraları, Destek Makaraları, Boru
Destekleri, Kılavuzları, Koruyucuları ve Takozları
Pipe Rollers & Roller Supports, Pipe Supports, Guides, Shields & Saddles

III
Sayfa/Page
44-77

Profiller ve Konsollar
Profiles & Brackets

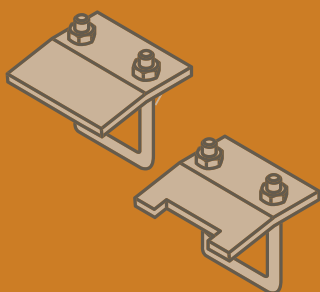
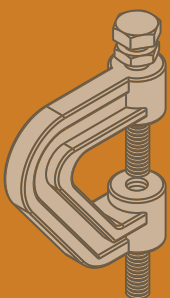
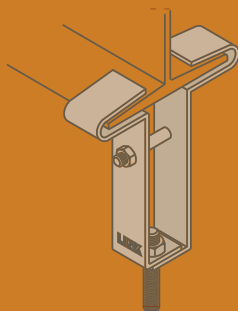
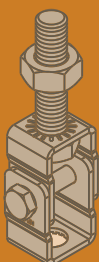
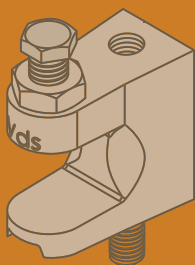
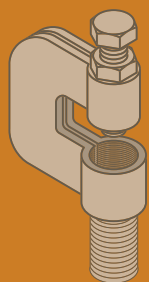
IV
Sayfa/Page
78-141

Çatı Bağlantı Sistemleri
Roof Connections Applications

V
Sayfa/Page
142-177

Bağlantı ve Dişli Aksesuarlar
Connection & Threaded Accessories

VI
Sayfa/Page
178-193



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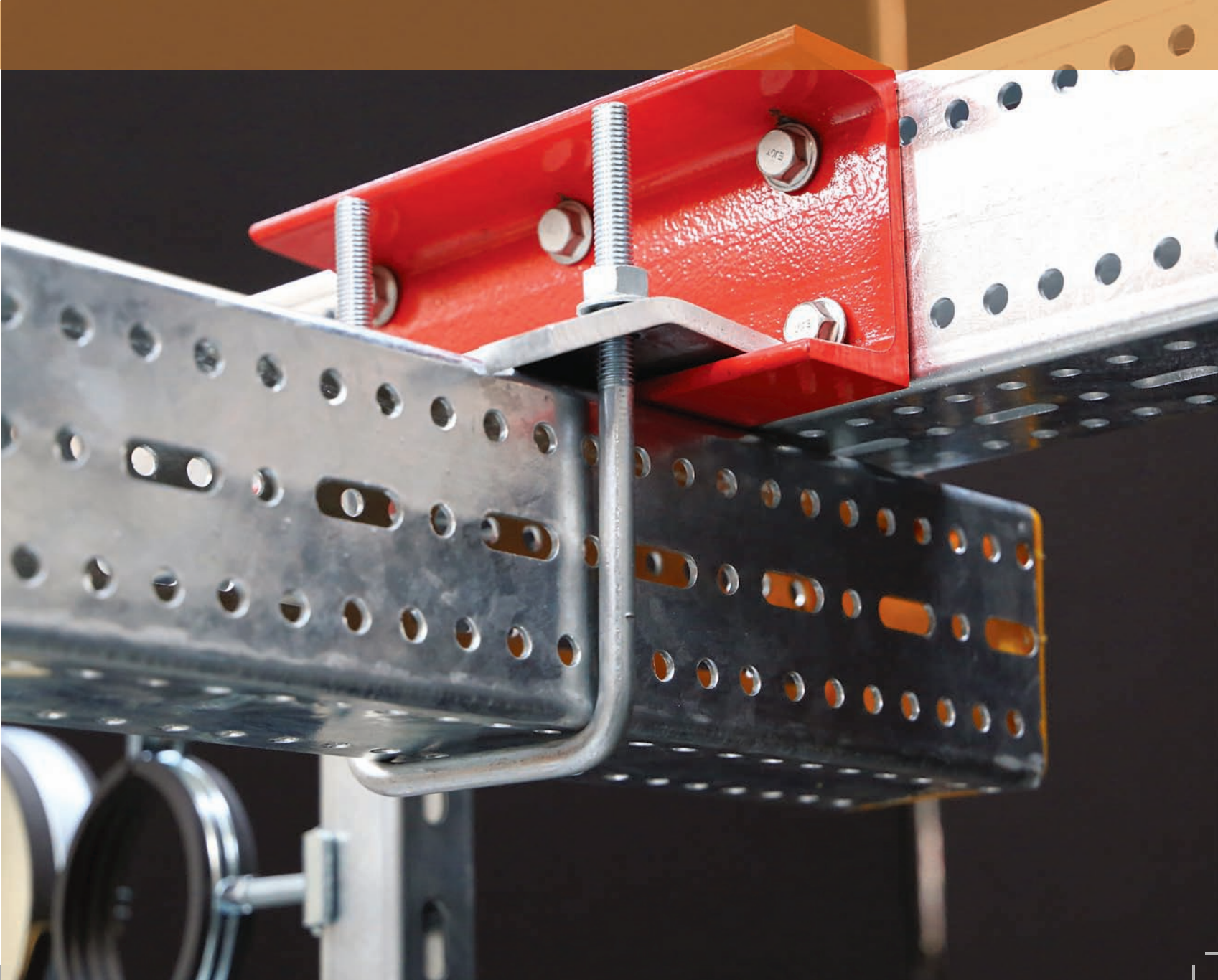


LINK

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I

KİRİŞ KENETLERİ / *Beam Clamps*



KİRİŞ KENETLERİ

Bu bölümde önerilen kiriş kenetleri, askı rotlarının yapısal elemanlara kaynak veya delmeye ihtiyaç olmadan bağlanması için dizayn edilmiştir. Farklı uygulamalar için bir çok kiriş kenetleri çeşidi bulunmaktadır.

Malzemeler:

Kiriş kenetleri üretiminde çelik, dökme demir ve dövme demir kullanılmıştır. Diğer malzemeler ile de üretim yapılabilir.

Kaplamalar:

Mekanik desteklerin standart kaplamaları üretimden sonra Sıcak Daldırma Galvaniz (EN 1461) ve Elektro Galvaniz (EN ISO 2081) kaplamadır. İsteğe bağlı diğer özel kaplamalar uygulanabilir.

Onaylar (Belirtilen) :

Bu bölümdeki ürünler TSEK ve ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 sistemlerinde belirtilen şartlarda üretilmiştir. Modellerimizin FM ve VdS onaylı olanları sayfalarında onay markaları ile belirtilmiş olup, tüm modellerin GOST K, GOST R ve SEPRO Sertifikası mevcuttur.

Önerilen Sıkma Tork Değerleri (Aksi belirtilmediği sürece) :

M.8	M.10	M.12	M.16	M.20
5 Nm	7 Nm	15 Nm	28 Nm	46 Nm

Gereğinden fazla sıkılmış ayar vidaları, bu bölümde yer alan kiriş kenetlerine zarar verecektir. Her durumda tork metrenin kullanılmadığının veya bulunmadığının bilincindeyiz. Bu gibi durumlarda ayar vidaları ile kirişlere sıkıştırılmalı ve ek olarak anahtar ile çeyrek ila yarım tur daha sıkılmalıdır.

BEAM CLAMPS

Beam clamps offered in this section are designed to provide attachment of hanger rods to structural members without drilling or welding. A wide range of types and sizes are available for various applications.

Materials:

Carbon Steel Malleable Iron and Forged Steel are used in the manufacturing of beam clamps. Other materials are available.

Finishes :

The standard finishes for mechanical supports are hot-dip galvanized after fabrication (EN 1461) and Zinc Plated (EN ISO 2081). Other special coatings are available upon request.

Approvals (as noted) :

Manufacturing is controlled by TSEK, ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 System Standards, Our products that have FM and VdS approvals shown with approval marks in their pages and all products have GOST K, GOST R and SEPRO certification.

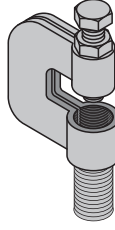
Recommended Setscrew Torque (Unless other use specified) :

M.8	M.10	M.12	M.16	M.20
5 Nm	7 Nm	15 Nm	28 Nm	46 Nm

We are aware that torque wrenches are not used or not available in many instances. In the absences of a torque wrench, the

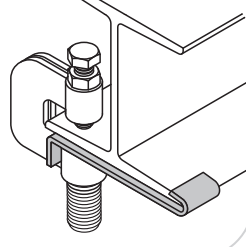
MLB

Sayfa / Page: 6



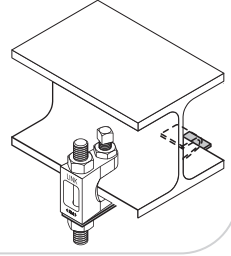
MLBS

Sayfa / Page: 6



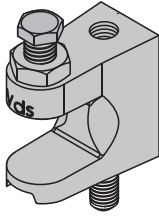
EB

Sayfa / Page: 6



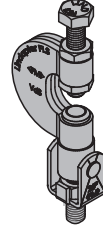
FL

Sayfa / Page: 7



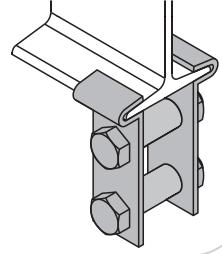
FLS

Sayfa / Page: 8



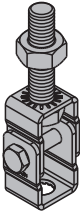
MNUK

Sayfa / Page: 8



MF

Sayfa / Page: 9



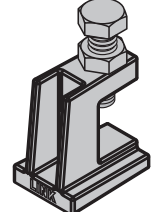
F3

Sayfa / Page: 9



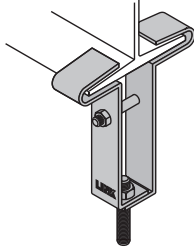
KLNC

Sayfa / Page: 10



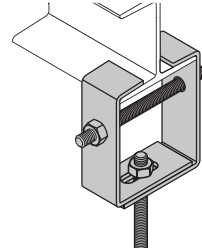
INUK

Sayfa / Page: 11



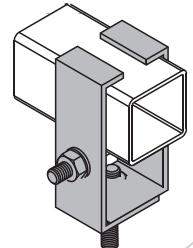
LNUK

Sayfa / Page: 11



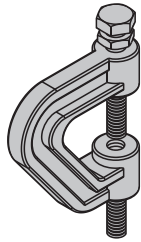
KNUK

Sayfa / Page: 12



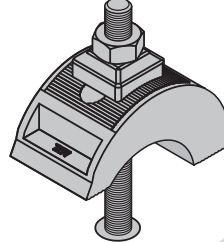
MLZZ

Sayfa / Page: 12



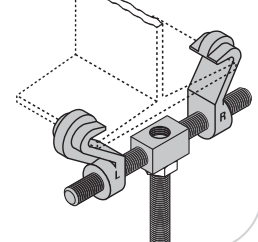
MZL

Sayfa / Page: 13



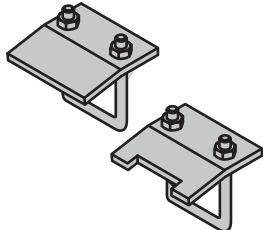
NPCK

Sayfa / Page: 15



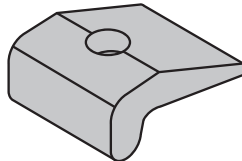
NPI-NPI 2

Sayfa / Page: 14



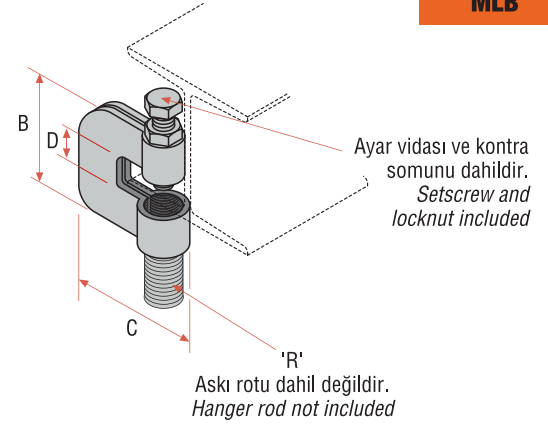
BP

Sayfa / Page: 15

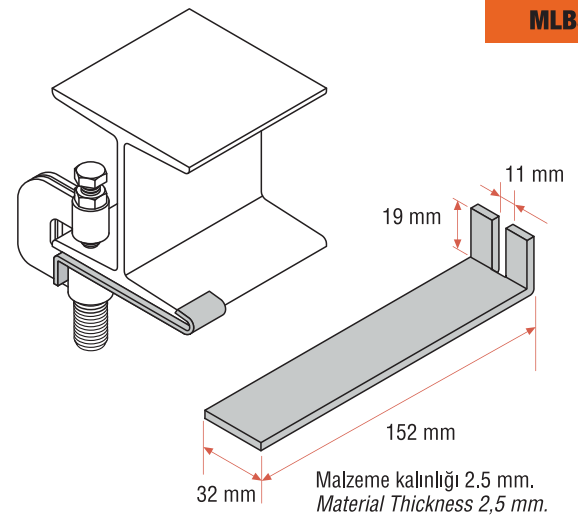


Kontra Somunlu Çelik C-Kenet
Steel C-Clamp With Locknut**Malzeme / Material :**
Çelik / Steel**Standart Kaplama / Standard Finish :**
Elektro galvaniz
Zinc Plated**Hizmet / Service :**
Askı rotlarının kirişlerin kenarlarına bağlanması için dizayn edilmiştir.
Designed for attaching a hanger rod to the flange of a beam**MLB**
Ölçüler / Dimensions

Kod Code	R	B mm	C mm	D mm	Dizayn Yüklü Design Load kN
MLB.6002-001	M.10	60	64	16	0,84

Önerilen sıkma tork değerleri için sayfa 6'ya bakınız
See page 6 for recommended set screw torque

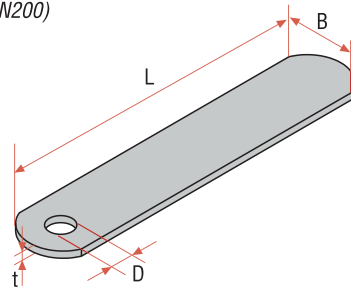
MLB

Muhafaza Bandı
Retaining Strap**Malzeme / Material :**
Çelik / Steel**Standart Kaplama / Standard Finish :**
Elektro galvaniz
Zinc Plated**Hizmet / Service :**
MLB.6002-001 C-kenet ile kullanılmak üzere dizayn edilmiştir.
Designed for use with MLB.6002-001 C-ClampVds onaylarına göre 3"ten daha büyük boruların askılanmasında muhafaza bandı kullanılmalıdır.
For stationary sprinkler plant constructions according to Vds codes.
For pipes bigger than 3" an additional safety lug to the beam clamp has to mounted.**Not / Note :** 3" ve 4" (DN80-DN100) borular için / for pipes 3" & 4" (DN80-DN100)**Kod / Code :** MLBS.6002-026

MLBS

Emniyet Bandı
Safety Lug**Malzeme / Material :**
Çelik / Steel**Standart Kaplama / Standard Finish :**
Elektro galvaniz
Zinc Plated**Hizmet / Service :**
VdS onaylarına göre 3"ten daha büyük boruların askılanmasında emniyet bandı kullanılmalıdır.
For stationary sprinkler plant constructions according to VdS codes.
For pipes bigger than 3" an additional safety lug to the beam clamp has to mounted**(EB.1) TİP1 / TYPE1 :** 3" ve 4" (DN80-DN100) borular için / for pipes 3" & 4" (DN80-DN100)**(EB.2) TİP2 / TYPE2 :** 5" ve 6" (DN125-DN150) borular için / for pipes 5" & 6" (DN125-DN150)**(EB.3) TİP3 / TYPE3 :** 8" (DN200) borular için / for pipes 8" (DN200)**EB**
Ölçüler / Dimensions

Kod / Code	D mm	B mm	L mm	t mm
EB1.300	11,0	25	300	2,5
EB2.350	13,0	30	350	2,5
EB3.400	17,0	40	400	3,0



EB

Kiriş Kenedi Beam Flange Clamp

Malzeme / Material:
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Çelik konstrüksiyonu delmeden ve kaynak yapmadan hızlı ve kolay şekilde boruların, havalandırma kanallarının, kablo tavalalarının ve ekipmanların askılanmasında kullanılır.
Suitable for fast and simple mounting pipes, ducts, cable trays and equipments to steel constructions without welding or drilling.

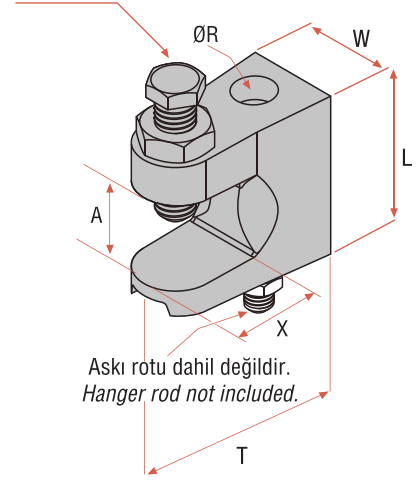
Güvenli bağlantı için ayar vidası 8.8 kalite kullanılmalıdır.
The typewcuses a grade 8.8 cup point setscrew for secure grip.

Eğimli kirişlerde mafsal MF ile beraber kullanılmalıdır.
Can be used with Swivel Unit when connecting to inclined sections.

Onay / Approval:



K
Ayar vidası ve kontra somunu dahildir
Setscrew and locknut included

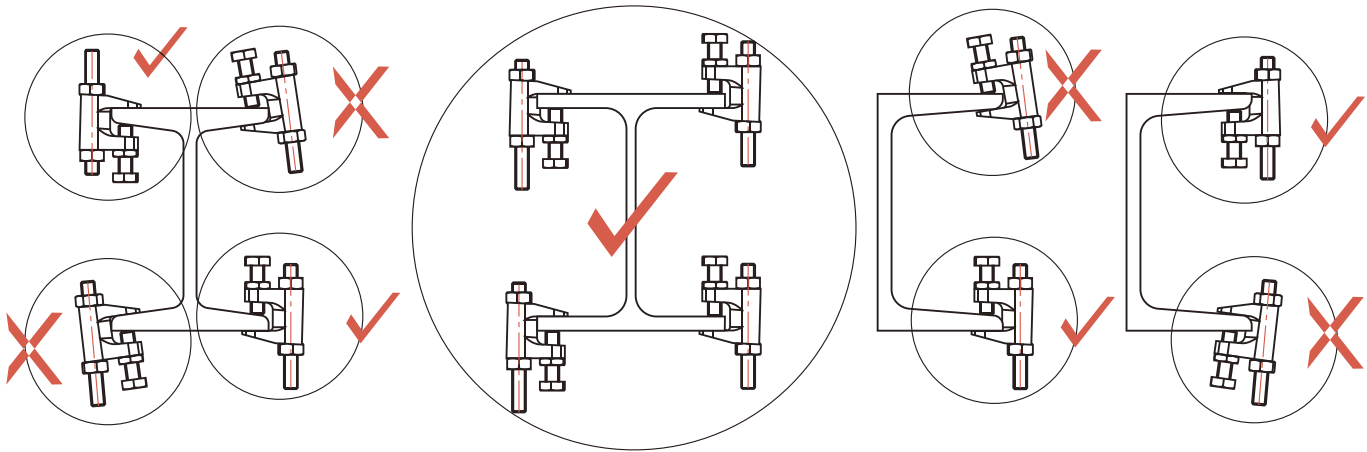


LBC

Ölçüler / Dimensions:

Kod / Code LBC Delik Cleared	ØR mm	Sıkma Aralığı Clamping Thickness A mm	Ayar Vidası Set Screw K	T mm	L mm	X mm	W mm	Dizayn Yüğü Design Load kN	Ayar Vidası Sıkma Tork Değeri Adjusting Screw Tightening Torque Value Nm	Kilit Somun Sıkma Tork Değeri Lock Nut Tightening Torque Value Nm
LBC.1009	9	3-17	M.8	36	35	20	19	1,10	8	11
LBC.1011	11	3-19	M.10	45	40	22	22	2,40	8	22
LBC.1013	13	3-23	M.10	50	46	22	25	3,10	8	22

Uygulama Örnekleri / Application Examples



M10, M12 için UL-FM tarafından onaylanmıştır. / The product approved by UL-FM for M10, M12

Mafsallı C Kiriş Kenedi C Beam Flange Clamp With Swivel Unit

FLS

Malzeme / Material :

Yüksek Alaşımli Çelik / High Grade Alloy Steel

Standart Kaplama / Standard Finish :

Elektro galvaniz / Zinc Plated

Hizmet / Service :

Aski rotlarının açılı kirişlerin kenarlarına bağlanması için dizayn edilmiştir.
Design for attaching hanger rod to the sloping flange of beam

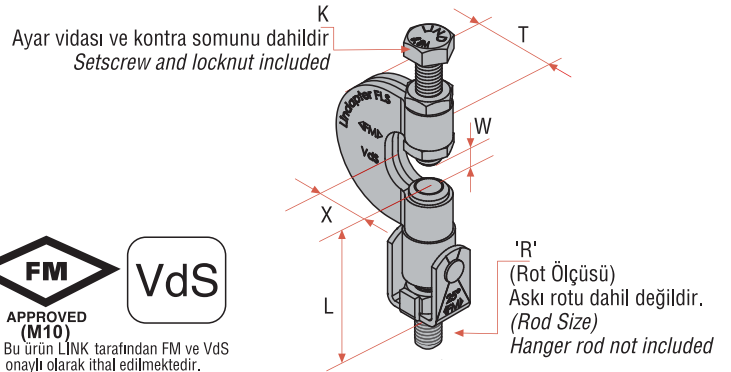
Onay / Approval :

FM (M10, FLS 10D), Vds onaylı
FM approved and Vds approval

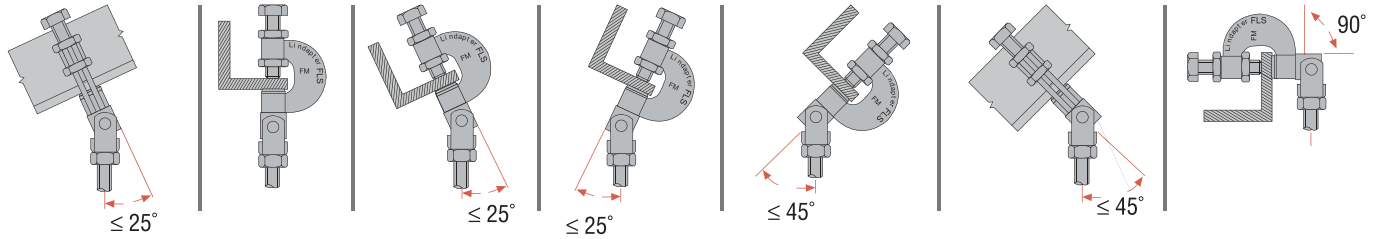
FLS

Ölçüler / Dimensions

Kod Code	Sıkma Aralığı Clamping Thickness W mm	Sıkma Torku Setscrew Torque Nm	Ayar Vidası Set Screw K (8.8)	T mm	X mm	L mm	R	Dizayn Yüğü / Design Load		Ayar Vidası Sıkma Tork Değeri Nm	Kilit Somunu Sıkma Tork Değeri Nm
								<25°	25°<x<45°		
								kN			
FLS.08	3-17	18	M.10	53	27	55	M.8	2,5	1,5	18	18
FLS.10	3-17	18	M.10	53	27	55	M.10	2,5	1,5	18	18



Uygulama Örnekleri / Application Examples



Ağır Yük Kiriş Kenedi Heavy Duty Beam Clamp

MNUK

Malzeme / Material :

Çelik / Steel

Standart Kaplama / Standard Finish :

Elektro galvaniz
Zinc Plated

Hizmet / Service :

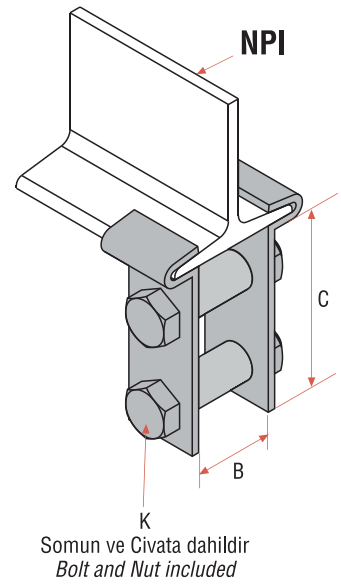
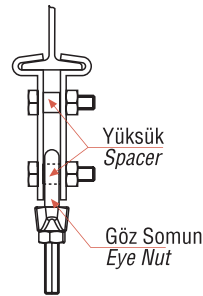
Aski rotlarının kiriş kenarlarının altına merkezlenerek bağlanması için dizayn edilmiştir.
Designed for attaching hanger rods centered under beam flanges.

MNUK

Ölçüler / Dimensions

Kod Code	Civata Ölçüsü Screw Size K mm.	MNUK			Dizayn Yüğü Design Load kN
		NPI mm	C mm	B mm	
MNUK.6002-165	10 x 40	80-100	102	12-20	4,60
MNUK.6002-167	12 x 60	120-140	114	25-30	6,80
MNUK.6002-169	16 x 70	160-180	127	32-40	8,40

Uygulama Örneği Application Example



Mafsal Swivel Unit

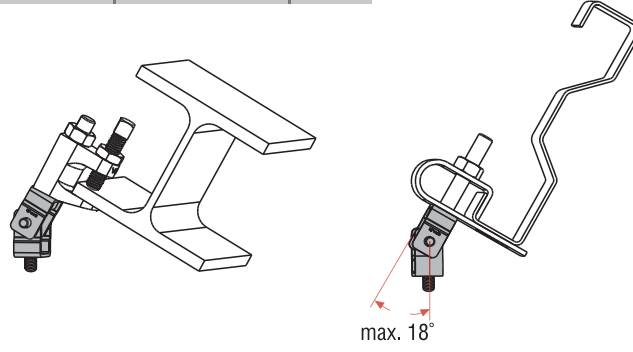
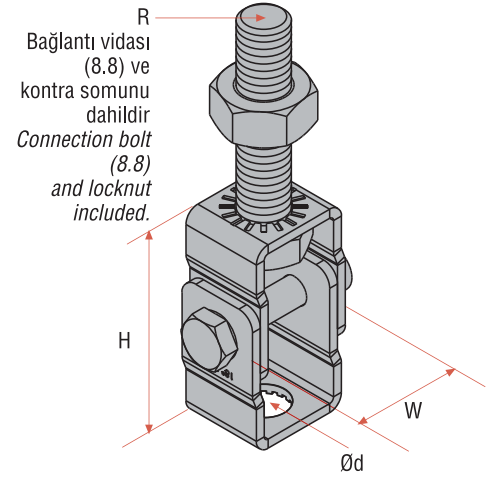
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Çinko kaplama / Yellow Zinc Plated.

Hizmet / Service :
Mafsal, eğilimli kirişler için dizayn edilmiştir. Kiriş kenetleriyle kullanılabilir.
Swivel unit for applications on inclined beams. Can be used with beam clamps.

MF Ölçüler / Dimensions

Kod Code	H mm	W mm	Ød mm	R	Dizayn Yüğü Safe Working Load kN	Mak. Montaj Açısı Max. Inclination	Tork Torque Nm
MF.110	48	24	10,5	M.10	2,4	18°	11
MF.112	53	28	12	M.12	3,2	18°	20



Çelik Mengene Steel Fastener

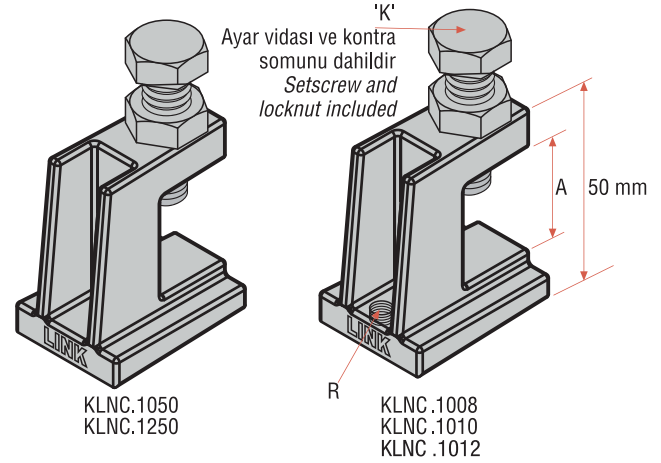
Malzeme / Material :
Pik döküm / Cast Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :

Çelik konstrüksiyona delmeden ve kaynak yapmadan hızlı ve kolay şekilde boruların, havalandırma kanallarının, kablo tavalarının ve ekipmanların askılanmasında kullanılır.
Suitable for fast and simple mounting pipes, ducts, cable trays and equipments to steel constructions without welding or drilling.

Güvenli bağlantı için ayar vidası 8.8 kalite kullanılmalıdır.
The type KLNC uses a grade 8.8 cup point setscrew for secure grip.

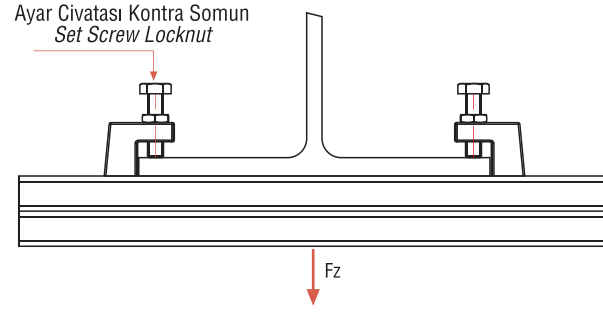


KLNC Ölçüler / Dimensions

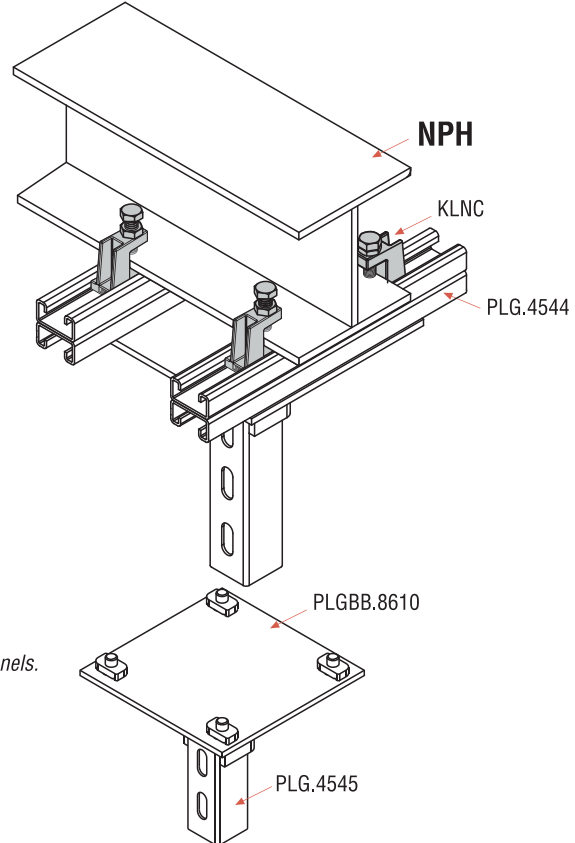
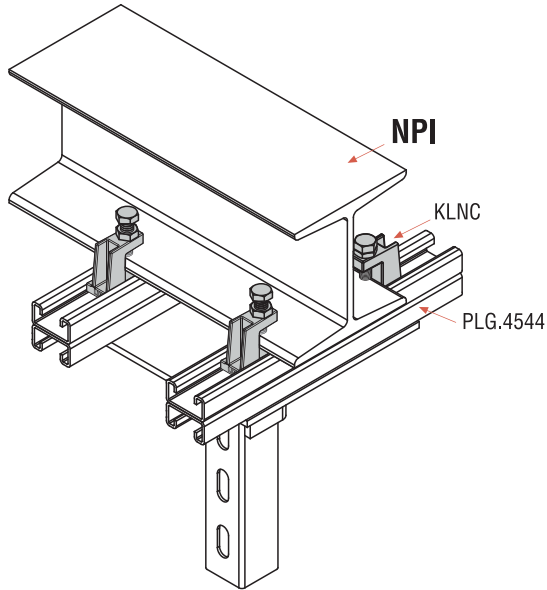
Kod / Code	Diş Thread R	Sıkma Aralığı Clamping Thickness A mm	Ayar Vidası Set Screw K	Dizayn Yüğü Design Load kN
KLNC.1008	M.8	3-23	M.10 X 50	3,5
KLNC.1010	M.10	3-23	M.10 X 50	5,0
KLNC.1012	M.12	3-23	M.10 X 50	6,0
KLNC.1050	-	3-23	M.10 X 50	4,5
KLNC.1250	-	3-23	M.12 X 50	6,0

Belirtilen nominal yükler yeni kiriş kenetlerinin, çelik kirişlerinin hasar görmemiş yüzeylerine uygulanması durumunda geçerlidir.

The nominal loads indicated apply to new beam clamp fixed to undamaged beam flanges.

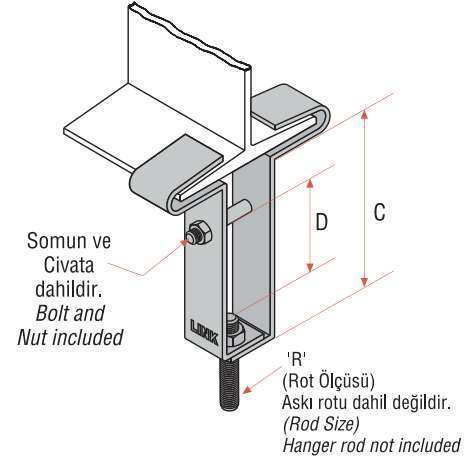


Uygulama Örnekleri / Application Examples

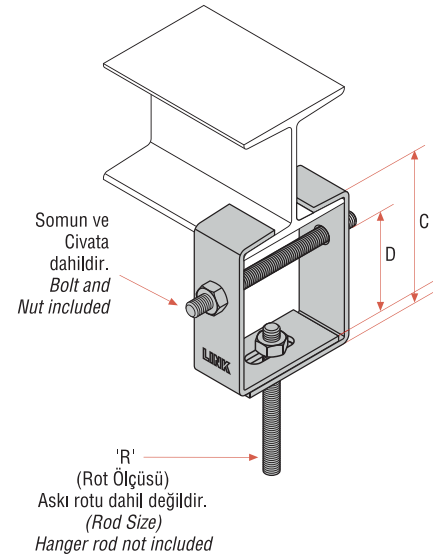


Tüm PLG yapı profillerine uygundur. / Applicable to all PLG framing channels.

INUK

Standart Çelik Kiriş Kenedi
Standard Steel Beam Clamp**Malzeme / Material :**
Çelik / Steel**Standart Kaplama / Standard Finish :**
Elektro galvaniz
Zinc Plated**Hizmet / Service :**
Askı rotlarının kiriş kenarlarının altına merkezlenerek bağlanması için dizayn edilmiştir.
Kenedin içinde dikey ayar sağlanabilir.
Designed for attaching a hanger rod to be centered under beam flanges.
Vertical adjustment is provided in the clamp.Eğimli kirişlerde mafsal (Sayfa 11) ile beraber kullanılmalıdır.
Can be used with Swivel Unit (Page 11) when connecting to inclined sections.**INUK**
Ölçüler / Dimensions

Kod Code	R	NPI mm	b mm	C mm	Maks. Ayar Mesafesi Max. Vertical Adj. D mm	Bağlantı Civatası Bolt (8.8)	Dizayn Yüğü Design Load kN
INUK.3434	M.12	80-100	64	84	51	M.10	0,85
INUK.3435	M.12	120-140	66	80	51	M.10	0,85
INUK.3436	M.12	160-200	90	100	51	M.10	1,35
INUK.3438	M.12	240	106	100	51	M.10	1,35

**Kutu Çelik Kiriş Kenedi**
Box Steel Beam Clamp**Malzeme / Material:**
Çelik / Steel**Standart Kaplama / Standard Finish :**
Elektro galvaniz
Zinc Plated**Hizmet / Service :**
Askı rotlarının kiriş kenarlarının altına merkezlenerek bağlanması için dizayn edilmiştir.
Kenedin içinde 51 mm. dikey ayar sağlanabilir.
Designed for attaching a hanger rod to be centered under beam flanges. 51 mm vertical adjustment is provided in the clamp.**LNUK**
Ölçüler / Dimensions

Kod Code	R	NPI mm	b mm	C mm	Maks. Ayar Mesafesi Max. Vertical Adj. D mm	Dizayn Yüğü Design Load kN
LNUK.4010	M.10	80-100	42-50	100	51	2,44
LNUK.4012	M.12	120-140	58-66	100	51	3,78

LNUK

Kutu Profil Kiriş Kenedi Box Beam Clamp

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

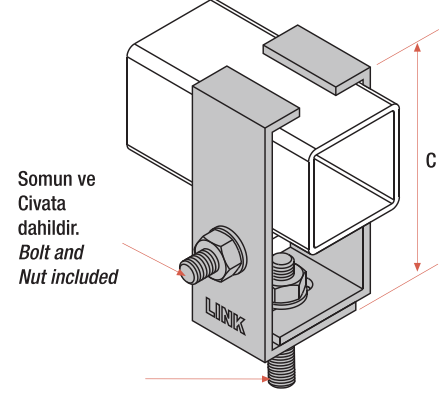
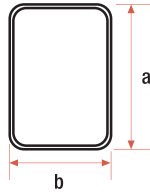
Hizmet / Service :
Askı rotlarının kiriş kenarlarının altına merkezlenerek bağlanması için dizayn edilmiştir.
kenedin içinde 30 mm dikey ayar sağlanabilir.
Designed for attaching a hanger rod to be centered under
beam flanges. 30 mm vertical adjustment is provided in the clamp.

KNUK

Ölçüler / Dimensions:

Kod Code	R	a mm	b mm	C mm	Dizayn Yüğü Design Load kN
KNUK.4060	M.10	40-60	40-60	130	1,60
KNUK.4060.01	M.12	40-60	40-60	130	1,24
KNUK.6080	M.10	60-100	60-80	170	1,45
KNUK.6080.01	M.12	60-100	60-80	170	1,50
KNUK.1000	M.12	100-120	100-120	200	1,03

Kutu Profil
Box Beam



Somun ve
Civata
dahildir.
Bolt and
Nut included

R
(Rot Ölçüsü)
Askı rotu dahil değildir.
(Rod Size)
Hanger rod not included

Z-Kesitli Kiriş Kenedi Purlin Beam Clamp

Malzeme / Material:
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

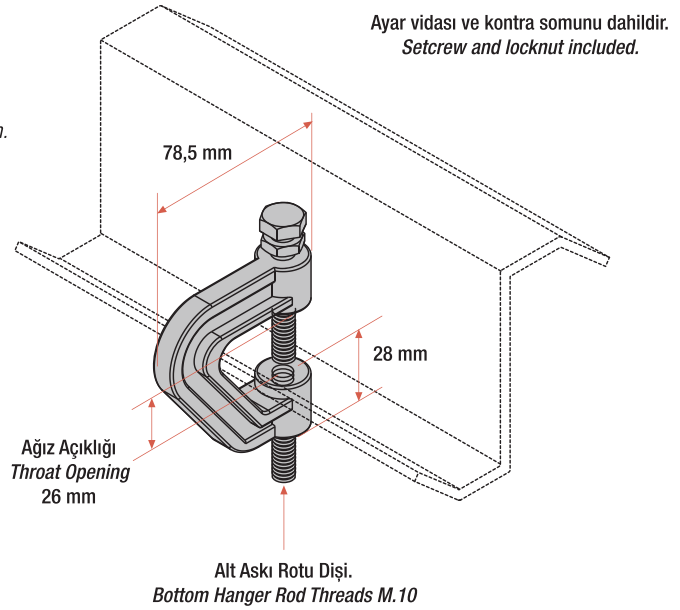
Hizmet / Service :
M.10 askı rotlarının Z-Kesitli kirişlerin alt kenarına bağlanması
için dizayn edilmiştir.
Designed for attaching M.10 hanger rod to the bottom flange of a Z-purlin.

MZLZ

Ölçüler / Dimensions:

Kod Code	Dizayn Yüğü Design Load kN
MZLZ.6002-254	1,78

Önerilen sıkma tork değerleri için sayfa 4'e bakınız.
See page 4 for recommended set screw torque.



Ayar vidası ve kontra somunu dahildir.
Setcrew and locknut included.

Ağız Açıklığı
Throat Opening
26 mm

Alt Askı Rotu Dişi.
Bottom Hanger Rod Threads M.10

MZL

Baskı Plakası Kiriş Kenedi Pressing Plate Beam Clamp

Malzeme / Material :
Dökme Demir / Malleable Iron

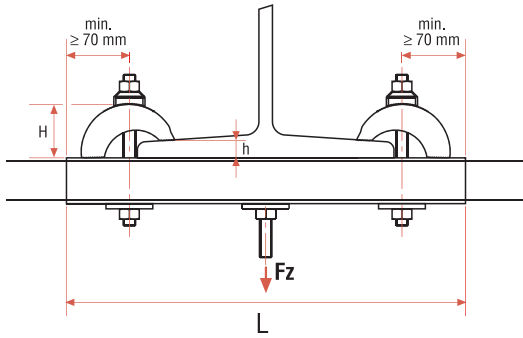
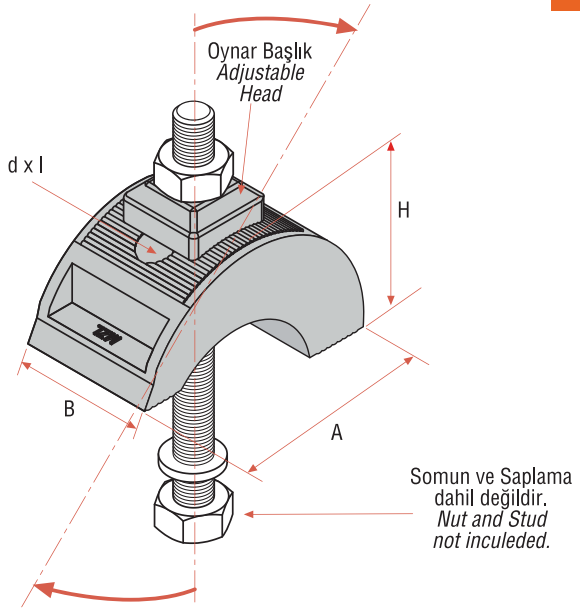
Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Boru kanal ve ekipmanlarının çelik kirişlere (I, T, U, L köşebent) asılması için kullanılan ağır yük bağlantı elemanıdır.
Heavy duty connection element which is suitable for mounting pipes ducts and equipments to steel beams.

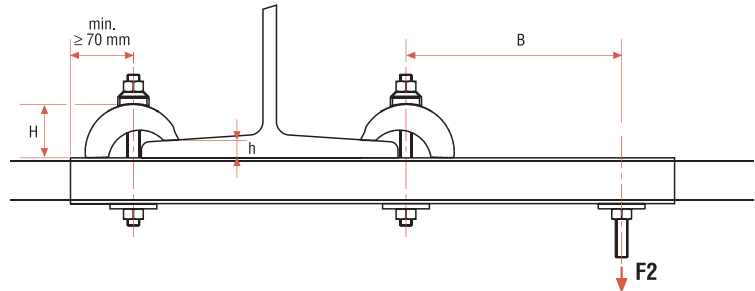
MZL Ölçüler / Dimensions

Kod Code	A mm	B mm	d x l mm	H mm	Fz (kN)
MZL.6000	92	49	Ø13 x 28	54	M.10 6 kN
					M.12 8 kN

Dizayn yükleri kiriş kenet çifti içindir.
Loads per clamp pair.

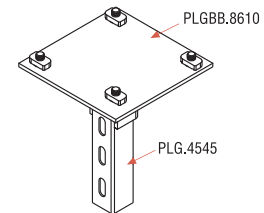
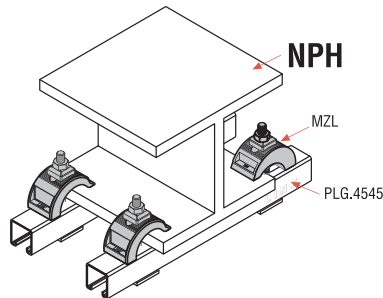
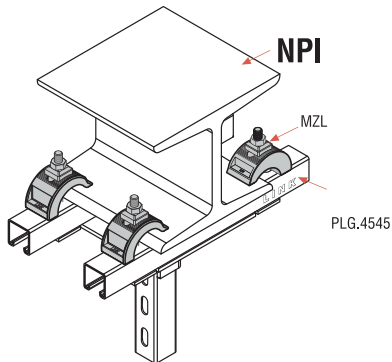


Kiriş et kalınlığı / Flange thickness
 $5 \leq h \leq 40$ mm
 $L \geq NPI + \text{min. } (2 \times 70 \text{ mm})$



B Max. mm	Profil Ölçüleri / Profile Sizes						
	22 x 45 F2 (kN)	44 x 45 F2 (kN)	45 x 45 F2 (kN)	45 x 60 F2 (kN)	60 x 70 F2 (kN)	45 x 90 F2 (kN)	45 x 120 F2 (kN)
100	2,40	7,60	7,50	8,00	8,00	8,00	8,00
200	1,25	3,50	4,10	6,20	8,00	8,00	8,00
300	0,80	2,35	2,60	4,00	6,10	7,80	8,00
400	-	1,20	1,80	2,70	4,50	5,60	7,50
500	-	0,80	1,10	1,90	3,20	4,40	6,40

Tablodaki yükler M.12 Kiriş Kenedi ile kullanımda geçerlidir.
Loads specified in the table can be only used when apply with M.12 clamp.



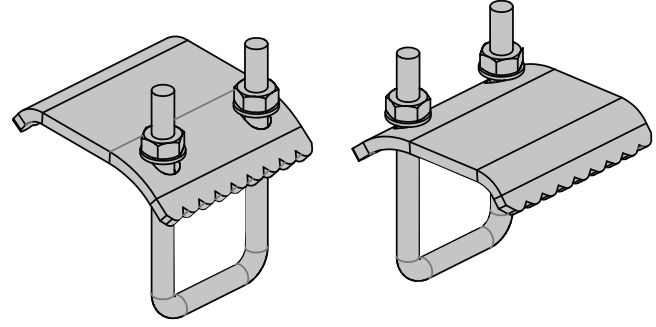
Montaj için önemli not: Maksimum 90 Nm, tork uygulayınız.
Important for Assembly: Max.90 Nm, bolt torque

NPI Kare Bolt Kiriş Kenedi Square Bolt Beam Clamp

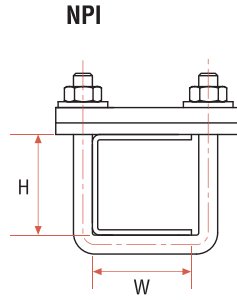
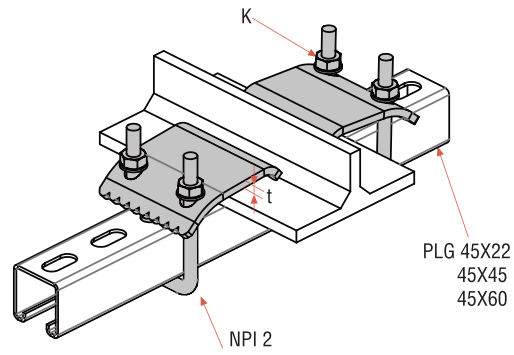
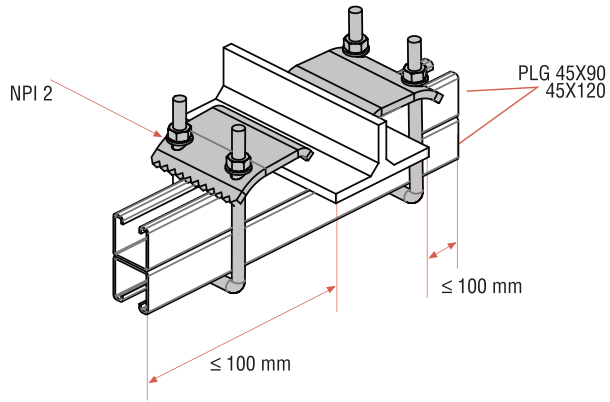
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

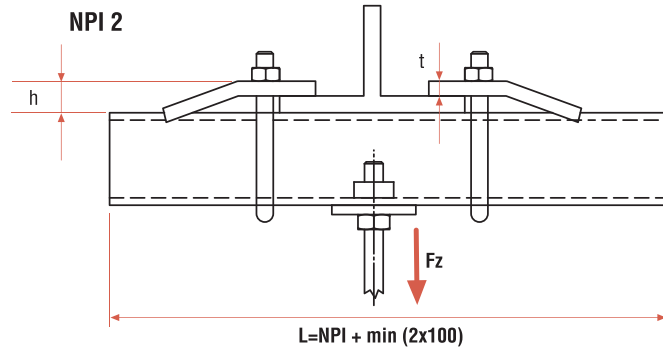
Hizmet / Service :
NPI-NPH profillerine askı sistemlerinin uygulanması için dizayn edilmiştir.
Designed for establishing the suspension systems to the NPI-NPH profiles.



NPI-NPI2



NPI



NPI 2

NPI

Ölçüler / Dimensions:

Kod Code	K mm	h mm	t mm	Fz kN	Uygulanabilir Profiller App. Framing Channels	
					W mm	H mm
NPI.3408	M.8	≤22	6	3,70	max. 30	50
NPI.3410	M.10	≤22	8	4,50	max. 40	70
NPI.3412	M.12	≤22	8	5,60	max. 60	110
NPI.3416	M.16	≤22	10	8,0	max. 76	125

Dizayn Yüklere kiriş kenet çifti içindir.
Loads per clamp pair.

NPI 2

Ölçüler / Dimensions:

Kod Code	K mm	h mm	t mm	Fz kN	Uygulanabilir Profiller App. Framing Channels	
					W mm	H mm
NPI.2.3410	M.10	≤22	8	4,50	PLG	4121
						4141
						4160
						4522
						4545
NPI.2.3412	M.12	≤22	8	5,60	PLG	4182
						41120
						4590
						45120

Dizayn Yüklere kiriş kenet çifti içindir.
Loads per clamp pair.

Baskı Plakası Pressing Plate

Malzeme / Material:
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

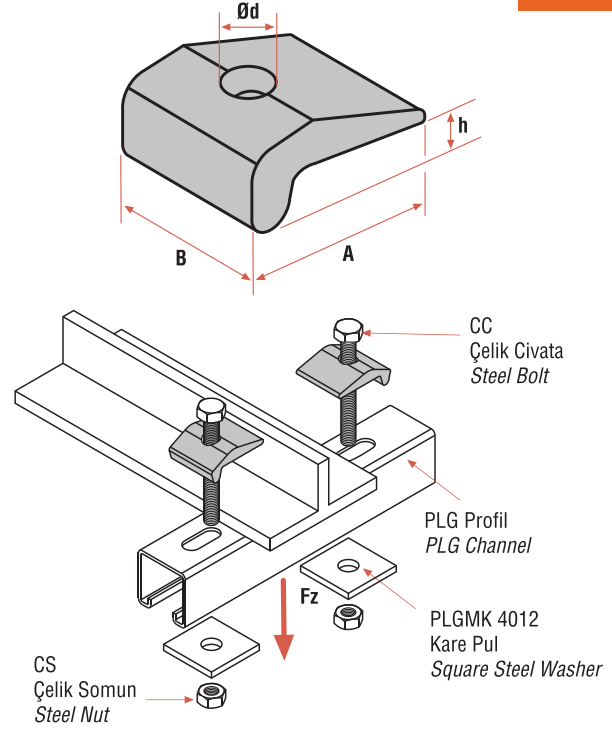
Hizmet / Service :
NPI-NPH profillerine askı sistemlerinin uygulanması için dizayn edilmiştir.
Designed for establishing the suspension systems to the NPI-NPH profiles.

BP

Ölçüler / Dimensions:

Kod Code	A mm	B mm	Ød mm	h mm	Fz kN
BP.6002	44	40	14	≤18	11,33
BP.6003	67	68	18	≤18	16,01

Dizayn yükleri kiriş kenet çifti içindir.
Loads per clamp pair.



Profil, civata, somun, kare pul dahil değildir.
Channel, bolt, nut, square bolt are not included.

NPI Kıskacı Clamp for NPI

Malzeme / Material:
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Çelik yapıların askı elemanı olarak kullanılması için dizayn edilmiştir.
Designed for using steel construction structures as a suspension.

NPCK-Mini NPI 80-160

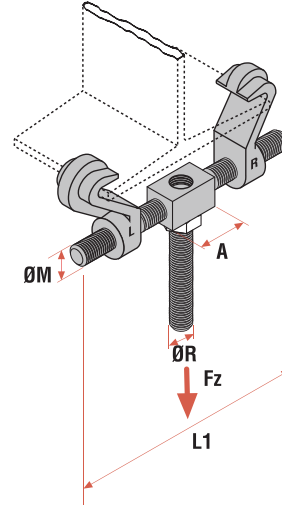
Ölçüler / Dimensions:

Kod Code	b mm	L1 mm	A mm	ØR mm	ØM mm	Fz kN
NPCK.6000-200	40-80	90	15	M.8	M.10	1,78
NPCK.6000-201	42-81	90	17	M.10	M.10	2,44

L*:Sol/Left, R*:Sag/Right



NPCK

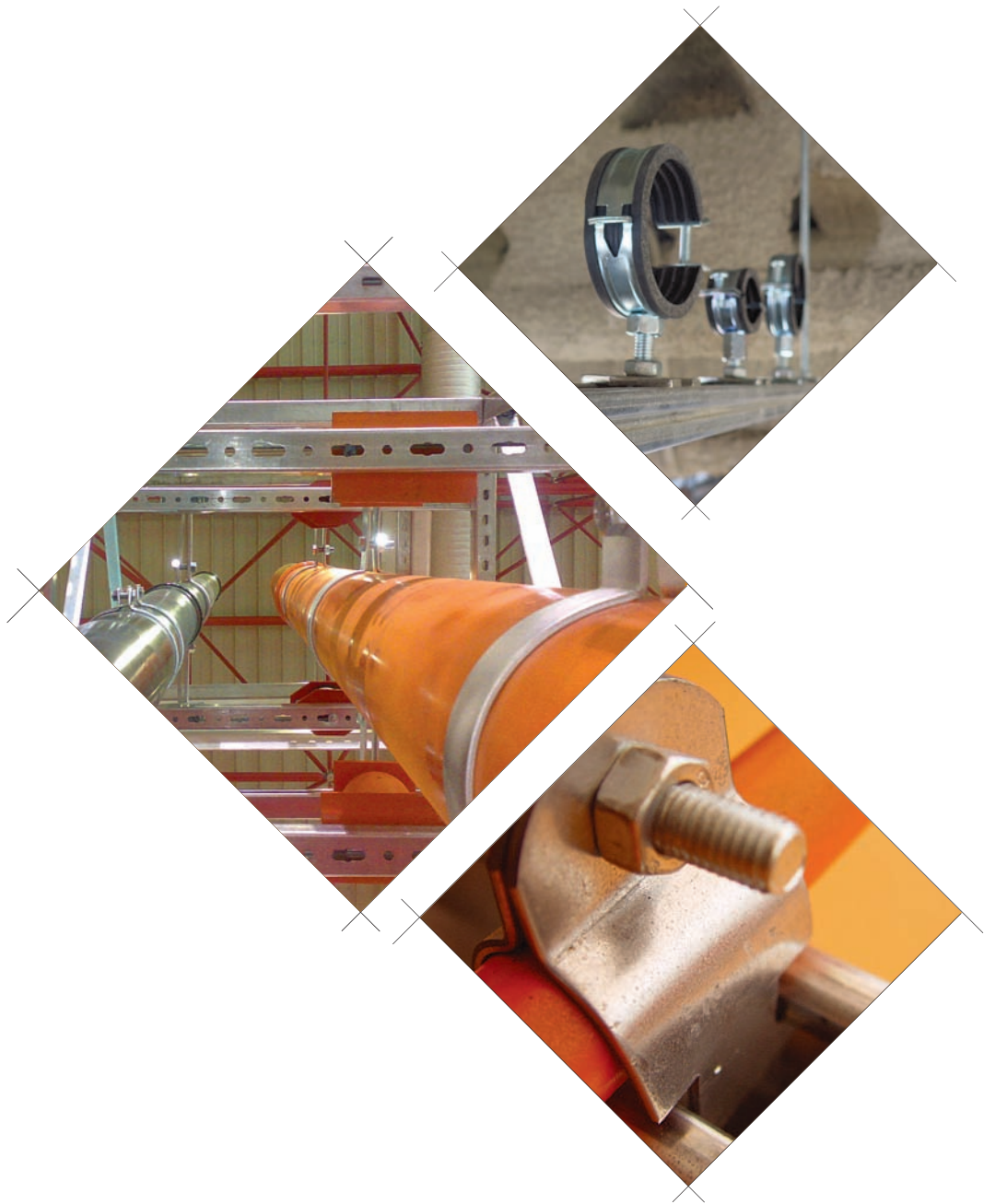
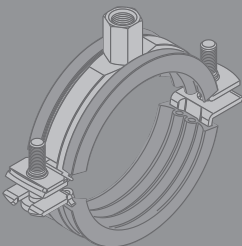
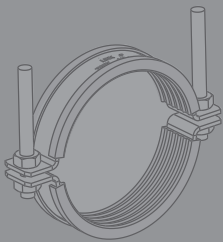
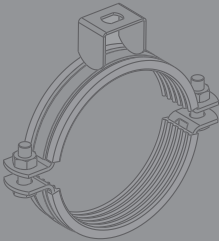
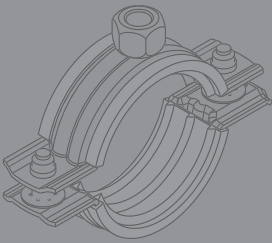
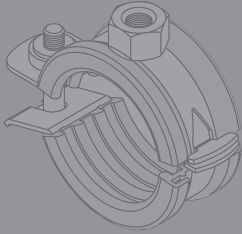
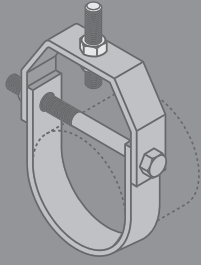


NPCK-Mini NPI 160-360

Ölçüler / Dimensions:

Kod Code	b mm	L1 mm	A mm	ØR mm	ØM mm	Fz kN
NPCK.6000-300	72-140	135	21	M.12	M.16	6,50
NPCK.6000-301	81-165	160	30	M.16	M.16	6,85

L*:Sol/Left, R*:Sag/Right



we link the world



LINK

we link the world

II

BORU ASKI KELEPÇELERİ / *Pipe Hangers*



BORU ASKI KELEPÇELERİ

Bu bölümde önerilen boru askı kelepçeleri izolasyonlu ve izolasyonsuz boruların dikey ayarlamaya ve sınırlı bir hareketine izin vererek desteklenmesi için dizayn edilmiştir.

Malzemeler :

Boru Askı Kelepçelerinin üretiminde çelik kullanılmıştır. Diğer malzemeler ile de üretim yapılabilir.

Kaplamalar :

Mekanik desteklerin standart kaplamaları üretimden sonra Sıcak Daldırma Galvaniz (**EN 1461**) ve Elektro Galvaniz (**EN ISO 2081**) kaplamadır. İsteğe bağlı olarak diğer özel kaplamalar uygulanabilir.

Onaylar (Belirtilen) :

Bu bölümdeki ürünler TSEK ve ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 sistemlerinde belirtilen şartlarda üretilmiştir. Modellerimizin FM onaylı olanları sayfalarında onay markaları ile belirtilmiş olup, tüm modellerin GOST KGOST K, GOST R ve SEPRO Sertifikası mevcuttur.

PIPE HANGERS

Pipe hangers offered in this section are designed to support insulated or non-insulated pipe allowing for vertical adjustment and limited movement in the piping system.

Materials:

Carbon Steel is used in the manufacturing of pipe hangers. Other materials are available.

Finishes :

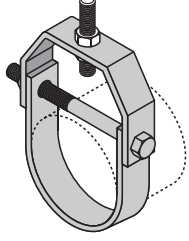
*The standard finishes for mechanical supports are hot-dip galvanized after fabrication (**EN 1461**) and Zinc Plated (**EN ISO 2081**). Other special coatings are available upon request.*

Approvals (as noted) :

Manufacturing is controlled by TSEK, ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 System Standards. Our products that have FM approvals shown with approval marks in their pages and all products have GOST K, GOST R and SEPRO certification.

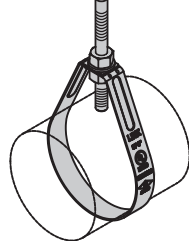
DBS

Sayfa / Page: 21



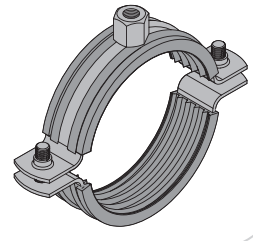
SP

Sayfa / Page: 22



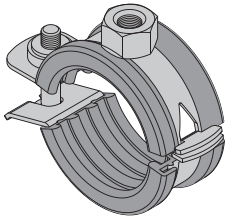
DN1

Sayfa / Page: 23



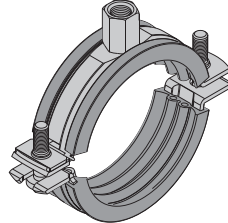
DN2

Sayfa / Page: 24



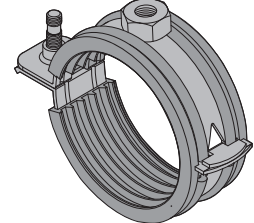
DN3

Sayfa / Page: 25



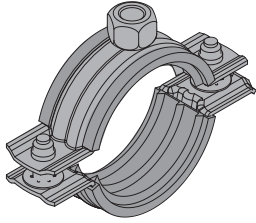
DN4

Sayfa / Page: 26



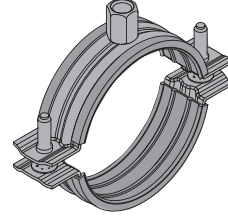
DN5

Sayfa / Page: 27



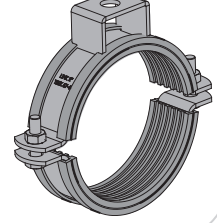
DN6

Sayfa / Page: 28



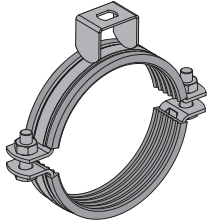
SDNA

Sayfa / Page: 29



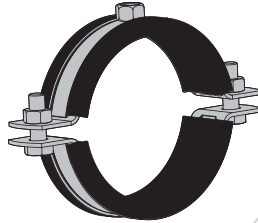
AYK

Sayfa / Page: 30



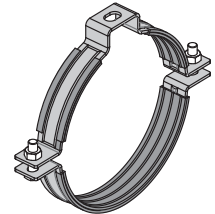
YDN

Sayfa / Page: 31



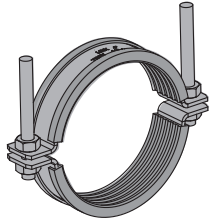
SDN

Sayfa / Page: 32



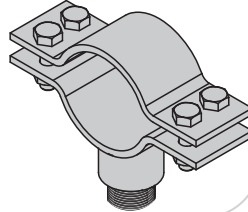
2DDNA

Sayfa / Page: 32



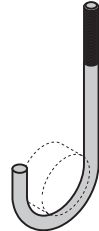
MDN

Sayfa / Page: 33



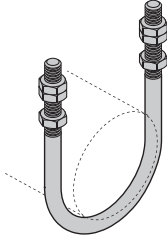
J-BOLT

Sayfa / Page: 33



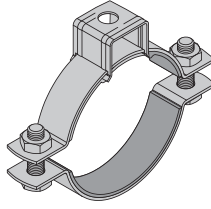
UKP

Sayfa / Page: 34



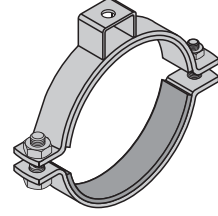
LSK4

Sayfa / Page: 35



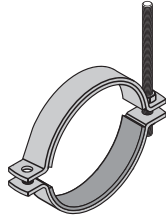
LSK4

Sayfa / Page: 35



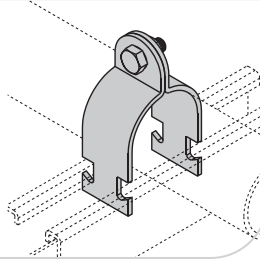
LSK5

Sayfa / Page: 35



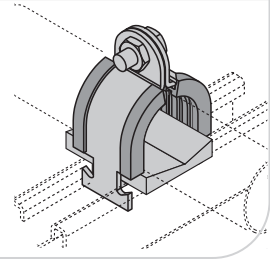
PLGK

Sayfa / Page: 36



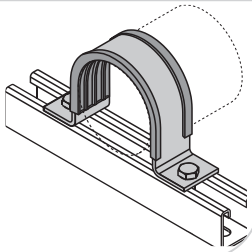
PLPT

Sayfa / Page: 37



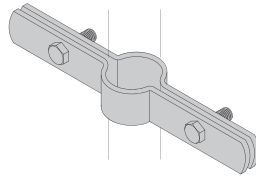
PLGS

Sayfa / Page: 38



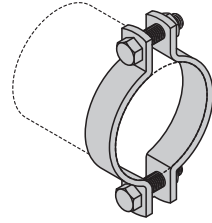
SYK

Sayfa / Page: 39



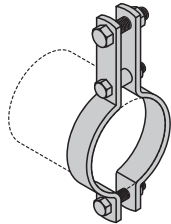
ETA A

Sayfa / Page: 40



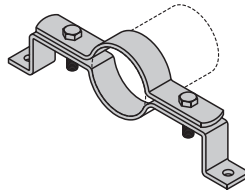
ETA B

Sayfa / Page: 41



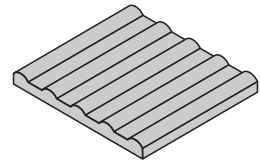
LOPC

Sayfa / Page: 42



LIRB2

Sayfa / Page: 43



Clevis Kelepçe Clevis Hanger

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Alternatif Kaplama / Alternative Finish :
Sıcak Daldırma Galvaniz EN 1461 / Hot Dip Galvanised EN 1461

Hizmet / Service :

Yatay sabit hatların (izolasyonsuz boruların) askılanması için dizayn edilmiştir.
Designed for hanging horizontal pipe lines.

Dikey ayar sağlanabilir.

Vertical adjustment can be done.

Dizaynı ve taşıma yükleri NFPA standartlarına uygun olarak üretilmektedir.

Design and load capacities complied with NFPA standard.

Yangın hatlarında kullanılması uygundur.

So, it can be used for fire pipe lines.

-Düz boru ve kelepçenin farklı malzemelerinin temasını önlemek için kullanılan EPDM astar isteğe bağlıdır.

- EPDM lining which is used for preventing contact between different materials of plain pipe and clamp is optional

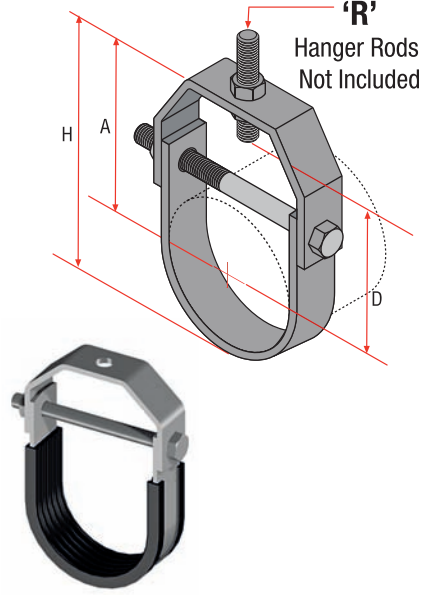
- EPDM neme ve bozulmaya karşı mükemmel bir dirence sahiptir.

-EPDM has excellent resistance to moisture and deterioration

-EPDM Kaplama Sıcaklık Dayanımı : -30°C ~ +110°C

-EPDM Lining Temperature Resistance : -30°C ~ +110°C

Approval:



Kelepçe sadece yatay boru asmak için kullanılmalıdır.
Montaj ve servis aşamasında yanal yüklerle maruz bırakılmamalıdır.
The clamp should only be used for horizontal pipe hanging. It should not be exposed to lateral loads during installation and service phase.

DB

Ölçüler / Dimensions:

Kod / Code		Boru Ölçüsü Pipe Size		Sıkıma Aralığı Clamping Range	EPDM Şeritsiz Without EPDM Strip		EPDM Şeritli With EPDM Strip		R	Çelik Boyu / Steel Size		Dizayn Yükü Design Load kN	Onay Approval
EPDM Şeritsiz Without EPDM Strip	EPDM Şeritli With EPDM Strip	inch.	OD mm		H mm	A mm	H mm	A mm		Üst / Upper mm	Alt / Lower mm		
DB.3145	DB-R.3145	1/2	21,3	12-22	60	43	74	60	M.10	3x25	3x25	2,77	UL
DB.3146	DB-R.3146	3/4	26,9	23-27	70	47	74	60	M.10	3x25	3x25	2,77	UL-FM
DB.3147	DB-R.3147	1	33,7	28-34	78	58	83	66	M.10	3x25	3x25	2,77	UL-FM
DB.3148	DB-R.3148	1 1/4	42,4	34-45	88	63	93	71	M.10	3x25	3x25	2,77	UL-FM
DB.3149	DB-R.3149	1 1/2	48,3	46-54	101	70	105	78	M.10	3x25	3x25	2,77	UL-FM
DB.3150	DB-R.3150	2	60,3	55-61	123	78	118	88	M.10	3x25	3x25	2,77	UL-FM
DB.3151	DB-R.3151	2 1/2	76,1	62-78	155	96	157	118	M.12	3x30	3x30	5,00	UL-FM
DB.3152	DB-R.3152	3	88,9	79-90	170	111	161	116	M.12	4x30	3x30	5,00	UL-FM
DB.3153	DB-R.3153	4	114,3	91-115	210	138	189	132	M.16	4x30	3x30	6,30	UL-FM
DB.3154	DB-R.3154	5	139,7	116-143	246	163	235	164	M.16	5x30	5x30	6,30	UL-FM
DB.3155	DB-R.3155	6	168,3	144-169	283	191	271	187	M.20	5x40	5x40	8,60	UL-FM
DB.3156	DB-R.3156	8	219,1	170-219	372	231	353	244	M.20	6x40	5x40	8,81	UL-FM

*UL, FM yalnızca epdm şeridi olmayan klavis askısı için geçerlidir/ *UL, FM is valid for only clevis hanger without epdm strip

Ayarlanabilir Sprikler Askı Keleççesi Adjustable Sprinkler Hanger

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Dikey ayarlamaya izin vererek boruların askılanması için dizayn edilmiştir. Dizaynı ve taşıma yükleri NFPA standartlarına uygun olarak üretilmektedir. Yangın hatlarında kullanılması uygundur.
Designed for suspending pipes allowing for vertical adjustment. Design and desing loads are complied with NFPA standarts. Suitable for using protection lines.

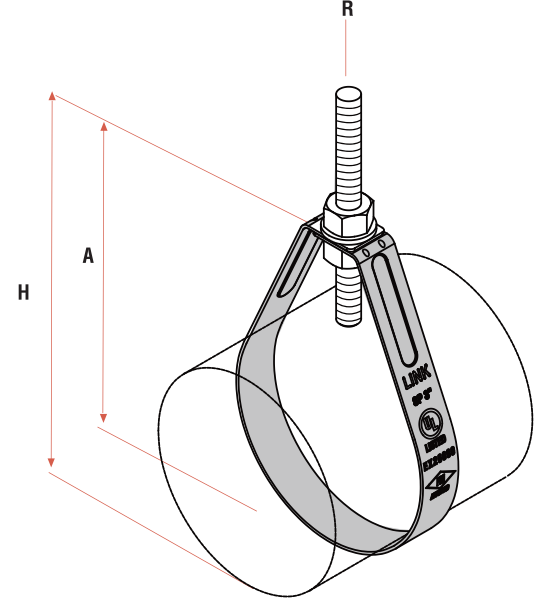
MSS-TYPE 7

SP

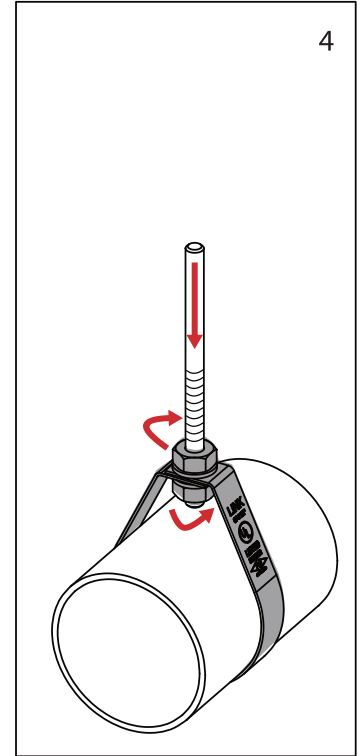
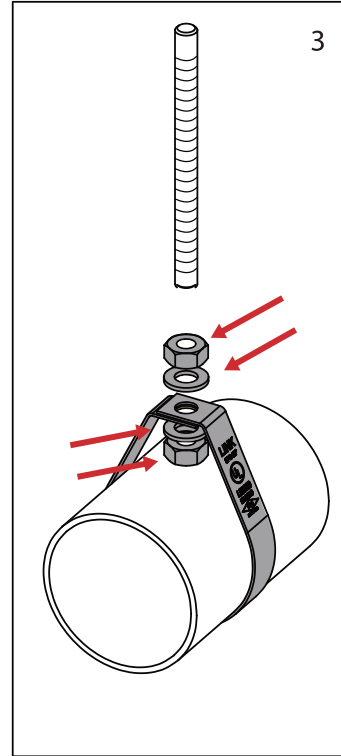
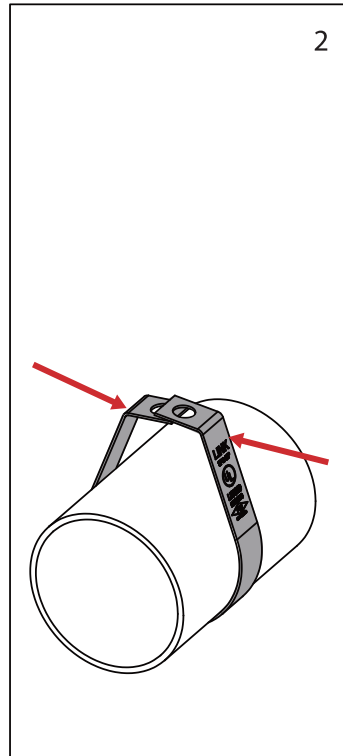
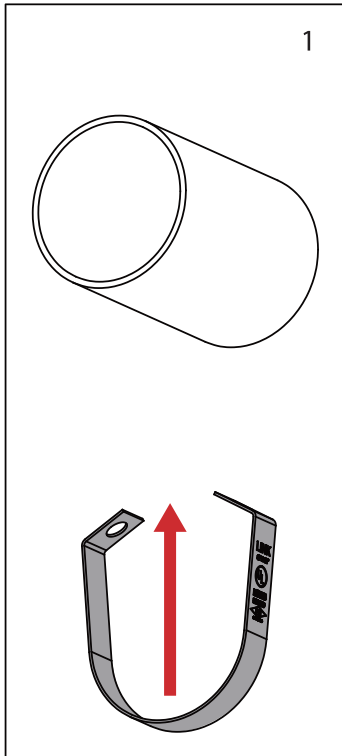
Ölçüler / Dimensions:

Kod Code	Boru Ölçüsü Pipe Size		H mm	A mm	R	UL Test Yüğü Test Load (N)	FM Test Yüğü Test Load (N)
	inch	mm					
SP.0015	1/2	5	49	36	M.10	3336	-
SP.0020	3/4	20	56	40	M.10	3336	1512
SP.0025	1	25	64	45	M.10	3336	1824
SP.0032	1 1/4	32	80	57	M.10	3336	1913
SP.0040	1 1/2	40	84	58	M.10	3336	2313
SP.0050	2	50	96	64	M.10	3336	2825
SP.0065	2 1/2	65	107	66	M.10	3781	4181
SP.0080	3	80	131	84	M.10	4670	4715
SP.0100	4	100	176	115	M.10	6672	6561
SP.0125	5	125	197	122	M.12	8896	8896
SP.0150	6	150	233	145	M.12	11787	11632
SP.0200	8	200	306	188	M.12	18014	16903
SP.0250	10	250	371	235	M.16	26020	-
SP.0300	12	300	466	300	M.16	35139	-

Rot, somun ve pullar dahil değildir.
Rod, nuts and washers not included.



Keleççe yalnızca yatay boru askılama için kullanılmalıdır.
Montaj ve servis aşamasında yanall yüklerle maruz bırakılmamalıdır.
The clamp should only be used for horizontal pipe hanging.
It should not be exposed to lateral loads during installation and service phase.



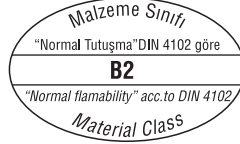
DN5

Çift Kulaklı Kelepçe Two Screws Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik, Pk, Pvc, Pe, Pp ve Bakır borularda kullanılmak üzere dizayn edilmiştir.
Designed for Steel, Cast Iron, Pvc, Pe, Pp and Copper pipes.



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

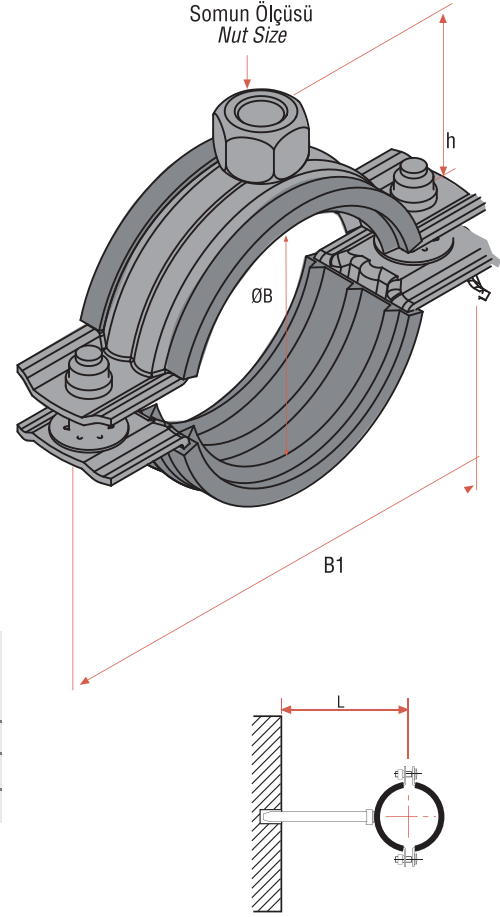
Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılamaz
EPDM rubber can not be used for thermal insulation.

Gerçek Kesme Yüğü / Actual Shear Force (kN)

Somun Başlı Klip. Nut Head Clamp	L Mesafesi / L Distances					
	L50 mm	L100 mm	L150 mm	L200 mm	L250 mm	L300 mm
	(kN)					
M.8	0,69	0,34	0,20	-	-	-
M.10	1,23	0,61	0,41	0,25	0,18	0,12

DN5 M.8 / M.10 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	h mm	Cıvata Ölçüsü Bolt Size K mm	Somun Ölçüsü Nut Size M mm	Dizayn Yüğü Design Load kN
	Inch	mm						
DN5.5012	1/4	13,5	12-16	55	21	M.6	M.8	1,30
DN5.5016	3/8	17,2	16-20	59	23	M.6	M.8	1,30
DN5.5020	1/2	21,3	20-25	63	24	M.6	M.8	1,30
DN5.5025	3/4	26,9	25-30	69	28	M.6	M.8	1,30
DN5.5031	1	33,7	31-38	79	31	M.6	M.8	1,30
DN5.5038	1 1/4	42,4	38-45	85	34	M.6	M.8	1,60
DN5.5045	1 1/2	48,3	45-52	91	36	M.6	M.8	1,60
DN5.5052	-	-	52-59	105	42	M.6	M.8	1,60
DN5.5059	2	60,3	59-66	104	45	M.6	M.8	1,60
DN5.5066	-	-	66-75	126	52	M.6	M.10	2,30
DN5.5075	2 1/2	76,1	75-84	128	56	M.6	M.10	2,30
DN5.5084	3	88,9	84-93	145	61	M.6	M.10	2,30
DN5.5093	-	-	93-101	153	65	M.6	M.10	2,30
DN5.5101	-	-	101-110	161	69	M.6	M.10	2,30
DN5.5110	4	114,3	110-119	170	72	M.6	M.10	2,30
DN5.5119	-	-	119-129	184	79	M.6	M.10	2,60
DN5.5129	-	-	129-137	190	82	M.6	M.10	2,60
DN5.5137	5	139,7	137-145	197	86	M.6	M.10	2,60
DN5.5145	-	-	145-155	207	94	M.6	M.10	2,60
DN5.5155	-	-	155-163	210	95	M.6	M.10	2,60
DN5.5163	6	168,3	163-172	222	97	M.6	M.10	2,60
DN5.5197	-	-	197-207	257	115	M.6	M.12	2,60
DN5.5207	8	219,1	216-226	272	120	M.6	M.12	2,60



Çift Kulaklı Keleççe Two Screws Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik, Pik, Pvc, Pe, Pp ve Bakır borularda kullanılmak üzere dizayn edilmiştir.
Designed for Steel, Cast Iron, Pvc, Pe, Pp and Copper pipes.



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

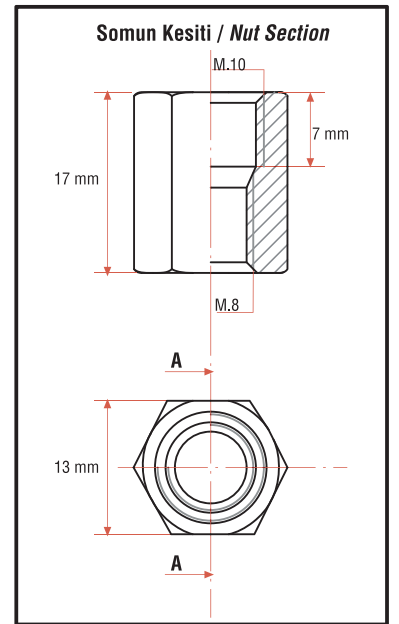
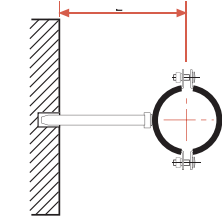
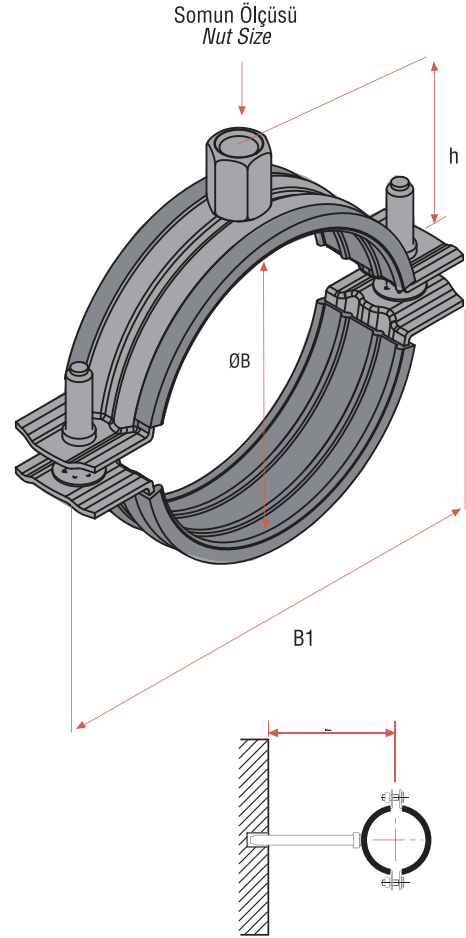
Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılamaz
EPDM rubber can not be used for thermal insulation.

Gerçek Kesme Yüğü / Actual Shear Force (kN)

Somun Başlı Kıp. Nut Head Clamp	L Mesafesi / L Distances					
	L50 mm	L100 mm	L150 mm	L200 mm	L250 mm	L300 mm
	(kN)					
M.8	0,69	0,34	0,20	-	-	-
M.10	1,23	0,61	0,41	0,25	0,18	0,12

DN6 M.8 / M.10 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	h mm	Cıvata Ölçüsü Bolt Size K mm	Somun Ölçüsü Nut Size M mm	Dizayn Yüğü Design Load kN
	Inch	mm						
DN6.3008	1/4	13,5	12-16	55	21	M.6	M.8 / M.10	1,30
DN6.3010	3/8	17,2	16-20	59	23	M.6	M.8 / M.10	1,30
DN6.3015	1/2	21,3	20-25	63	24	M.6	M.8 / M.10	1,30
DN6.3020	3/4	26,9	25-30	69	28	M.6	M.8 / M.10	1,30
DN6.3025	1	33,7	31-38	79	31	M.6	M.8 / M.10	1,30
DN6.3032	1 1/4	42,4	38-45	85	34	M.6	M.8 / M.10	1,60
DN6.3040	1 1/2	48,3	45-52	91	36	M.6	M.8 / M.10	1,60
DN6.3045	-	-	52-59	105	42	M.6	M.8 / M.10	1,60
DN6.3050	2	60,3	59-66	104	45	M.6	M.8 / M.10	1,60
DN6.3055	-	-	66-75	126	52	M.6	M.8 / M.10	2,30
DN6.3065	2 1/2	76,1	75-84	128	56	M.6	M.8 / M.10	2,30
DN6.3080	3	88,9	84-93	145	61	M.6	M.8 / M.10	2,30
DN6.3085	-	-	93-101	153	65	M.6	M.8 / M.10	2,30
DN6.3090	-	-	101-110	161	69	M.6	M.8 / M.10	2,30
DN6.3100	4	114,3	110-119	170	72	M.6	M.8 / M.10	2,30
DN6.3110	-	-	119-129	184	79	M.6	M.8 / M.10	2,60
DN6.3120	-	-	129-137	190	82	M.6	M.8 / M.10	2,60
DN6.3125	5	139,7	137-145	197	86	M.6	M.8 / M.10	2,60
DN6.3135	-	-	145-155	207	94	M.6	M.8 / M.10	2,60
DN6.3145	-	-	155-163	210	95	M.6	M.8 / M.10	2,60
DN6.3150	6	168,3	163-172	222	97	M.6	M.8 / M.10	2,60
DN6.3175	-	-	197-207	257	115	M.6	M.8 / M.10	2,60
DN6.3200	8	219,1	216-226	272	120	M.6	M.8 / M.10	2,602



Ağır Yük Askı Kelepçesi Heavy Duty Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik, Pk, HDPE ve Wavin borularda kullanılmak üzere dizayn edilmiştir.
Designed for Steel, Cast iron, HDPE and Wavin pipes.

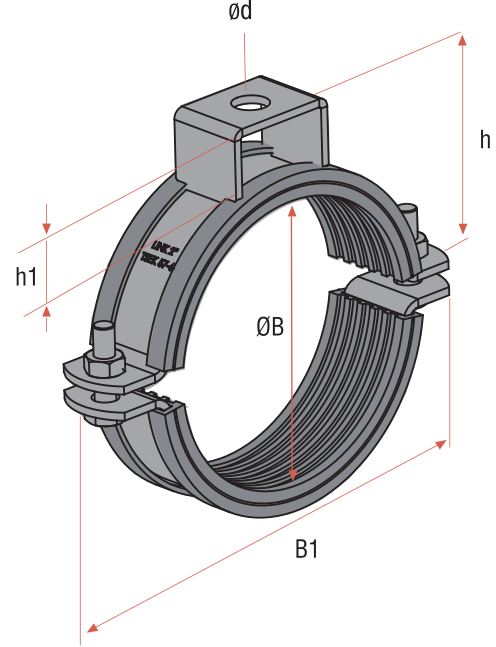


İzolasyon Lastikleri Teknik Özellikleri Isolation Rubber Technical Specification

Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılamaz
EPDM rubber can not be used for thermal insulation.

SDNA Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	h mm	h1 mm	Ød mm	Dizayn Yüğü Design Load kN
	inch.	mm						
SDNA.2079	1/2	15	20-26	91	37	19	13	3,21
SDNA.2080	3/4	20	25-32	92	37	19	13	3,21
SDNA.2081	1	25	32-39	92	42	22	13	3,21
SDNA.2082	1 1/4	32	40-47	103	50	23	13	3,21
SDNA.2083	1 1/2	40	48-54	107	55	25	13	3,21
SDNA.2084	2	50	57-64	118	62	26	13	3,21
SDNA.2085	2 1/2	65	72-80	137	72	27	13	3,21
SDNA.2086	3	80	88-92	156	78	28	13	3,21
SDNA.2087	4	100	112-118	178	92	28	13	3,21
SDNA.2088	5	125	137-147	222	108	30	18	4,52
SDNA.2089	6	150	164-168	257	120	30	18	4,52
SDNA.2090	8	200	215-230	316	154	36	18	6,63
SDNA.2091	10	250	265-280	366	180	31	18	6,63
SDNA.2092	12	300	310-325	465	217	46	18	12,15
SDNA.2093	14	350	350-365	502	228	40	22	14,37
SDNA.2094	16	400	400-415	556	249	46	22	14,37
SDNA.2095	18	450	445-460	615	289	40	27	27,18

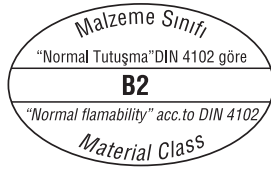


Kafalı Tip Askı Keleççesi Pipe Clamp With Head

Malzeme / Material :
Çelik / Steel

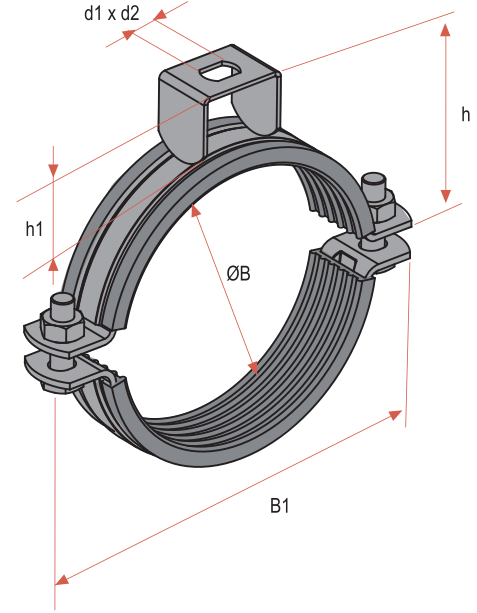
Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik, Pik, HDPE ve Wavin borularda kullanılmak üzere dizayn edilmiştir.
Designed for Steel, Cast iron, HDPE and Wavin pipes.



İzolasyon Lastikleri Teknik Özellikleri Isolation Rubber Technical Specification

Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyon amacı ile kullanılamaz
EPDM rubber can not be used for thermal insulation.



AYK Ölçüler / Dimensions

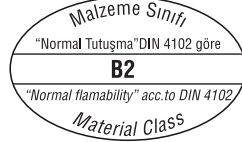
Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	h mm	h1 mm	d ₁ x d ₂ mm	Dizayn Yüğü Design Load kN
	Inch	mm						
AYK.8020	1/2	15	20-24	82	51	34	12,5 x 17,5	2,80
AYK.8023	3/4	20	23-28	89	53	34	12,5 x 17,5	2,80
AYK.8031	1	25	31-36	92	49	34	12,5 x 17,5	2,80
AYK.8038	1 1/4	32	38-44	102	55	34	12,5 x 17,5	2,80
AYK.8048	1 1/2	40	48-53	110	58	34	12,5 x 17,5	2,80
AYK.8053	-	-	53-59	114	63	34	12,5 x 17,5	2,80
AYK.8059	2	50	59-66	125	65	34	12,5 x 17,5	2,80
AYK.8074	2 1/2	65	74-80	142	72	34	12,5 x 17,5	2,80
AYK.8080	-	-	80-88	143	78	34	12,5 x 17,5	2,80
AYK.8087	3	80	87-94	153	81	34	12,5 x 17,5	2,80
AYK.8108	4	100	108-116	189	93	34	12,5 x 17,5	3,90
AYK.8125	-	-	125-133	196	104	34	12,5 x 17,5	6,20
AYK.8135	5	125	135-143	219	109	34	12,5 x 17,5	6,20
AYK.8156	-	-	156-161	228	119	34	12,5 x 17,5	6,20
AYK.8165	6	150	165-170	247	123	34	12,5 x 17,5	6,20
AYK.8200	-	-	200-210	275	142	34	12,5 x 17,5	6,20
AYK.8212	8	200	212-222	291	143	34	12,5 x 17,5	6,20
AYK.8270	10	250	270-280	350	177	34	12,5 x 17,5	6,20
AYK.8315	12	300	315-326	421	211	34	12,5 x 17,5	12,00

Somunlu Ağır Yük Kelepçesi Heavy Duty Pipe Clamp With Nut

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik, Pk, Pvc, Pe, Pp ve Bakır borularda kullanılmak üzere dizayn edilmiştir.
Designed for Steel, Cast Iron, Pvc, Pe, Pp and Copper pipes.



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılmaz.
EPDM rubber can not be used for thermal insulation.

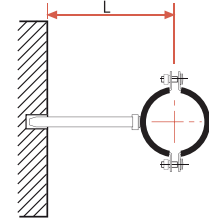
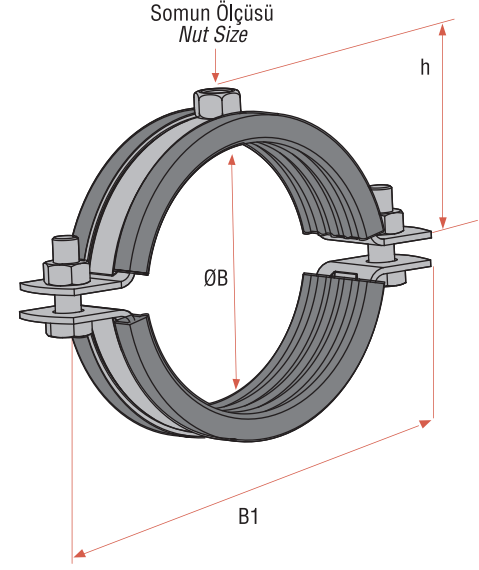
Gerçek Kesme Yüğü / Actual Shear Force (kN)

Somun Başlı Klip. Nut Head Clamp	L Mesafesi / L Distances					
	L50 mm	L100 mm	L150 mm	L200 mm	L250 mm	L300 mm
	(kN)					
M.12	1,23	0,61	0,41	0,25	0,18	0,12
M.16	2,21	1,10	0,74	0,45	0,32	0,22

YDN M12 / M16

Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	h mm	Civata Ölçüsü Bolt Size K mm	Somun Ölçüsü Nut Size mm	Dizayn Yüğü Design Load kN
	inch.	mm						
YDN.8020	1/2	15	20-24	82	27	M8	M.12	2,80
YDN.8023	3/4	20	23-28	89	29	M8	M.12	2,80
YDN.8031	1	25	31-36	92	25	M8	M.12	2,80
YDN.8038	1 1/4	32	38-44	102	31	M8	M.12	2,80
YDN.8048	1 1/2	40	48-53	110	34	M8	M.12	2,80
YDN.8053	-	-	53-59	114	39	M8	M.12	2,80
YDN.8059	2	50	59-66	125	41	M8	M.12	2,80
YDN.8074	2 1/2	65	74-80	142	48	M8	M.12	2,80
YDN.8080	-	-	80-88	143	54	M8	M.12	2,80
YDN.8087	3	80	87-94	153	57	M8	M.12	2,80
YDN.8108	4	100	108-116	189	69	M8	M.12	3,90
YDN.8125	-	-	125-133	196	80	M10	M.16	6,20
YDN.8135	5	125	135-143	219	88	M10	M.16	6,20
YDN.8156	-	-	156-161	228	98	M10	M.16	6,20
YDN.8165	6	150	165-170	247	102	M10	M.16	6,20
YDN.8200	-	-	200-210	275	121	M10	M.16	6,20
YDN.8212	8	200	212-222	291	122	M10	M.16	6,20
YDN.8270	10	250	270-280	350	156	M10	M.16	6,20
YDN.8315	12	300	315-326	421	190	M12	M.16	12,00



PVC Boru Askı Kelepçesi PVC Pipe Clamp

SDN

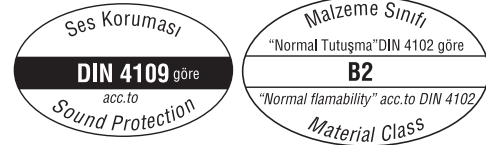
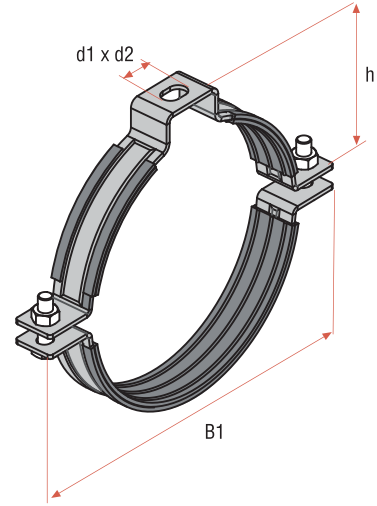
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Pvc, Pe, HDPE borularda kullanılmak üzere dizayn edilmiştir.
Designed for Pvc, Pe, HDPE pipes.

SDN
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size			Cıvata Ölçüsü Bolt Size K mm	Slot Ölçüsü Slot Hole Size d1xd2 mm	Dizayn Yüğü Design Load kN	
	ØB mm	B1 mm	h mm				
SDN.2071	Ø 50	50-58	97	41	M.6	9x14	0,40
SDN.2072	Ø 75	74-85	125	57	M.6	9x14	0,40
SDN.2073	Ø 100	108-116	166	72	M.6	11x17	0,70
SDN.2074	Ø 125	120-130	180	81	M.6	11x17	0,70
SDN.2075	Ø 150	150-160	228	96	M.8	11x17	0,70
SDN.2076	Ø 200	200-215	276	119	M.8	11x17	0,70



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

Malzeme / Material : EPDM

Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılmaz.
EPDM rubber can not be used for thermal insulation.

Ağır Yük Askı Kelepçesi Heavy Duty Pipe Clamp

2DDNA

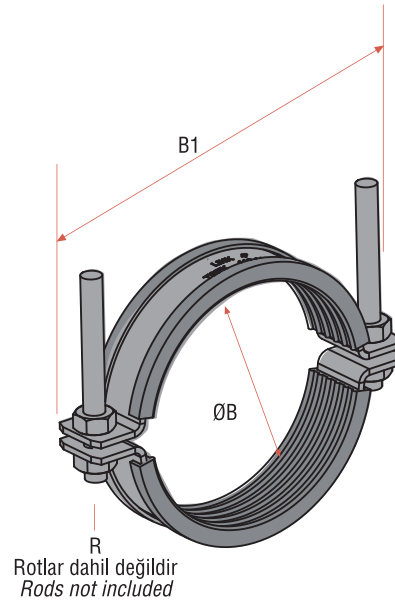
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz,
Zinc Plated

Hizmet / Service :
Yatay / dikey hatlarda aksel kaymayı önlemek için dizayn edilmiştir.
Designed for to prevent the slides on the axis of the vertical/horizontal pipes.

2DDNA
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	R
	inch.	mm			
2DDNA.3003	2	50	57-64	120	M.8
2DDNA.3004	2 1/2	65	72-80	137	M.8
2DDNA.3005	3	80	88-92	151	M.8
2DDNA.3006	4	100	112-115	178	M.8
2DDNA.3007	5	125	136-143	219	M.10
2DDNA.3008	6	150	162-174	257	M.10
2DDNA.3009	8	200	217-227	317	M.12
2DDNA.3010	10	250	265-275	356	M.12
2DDNA.3011	12	300	310-325	452	M.16
2DDNA.3012	14	350	353-362	485	M.16
2DDNA.3013	16	400	404-415	540	M.20
2DDNA.3014	18	450	445-460	621	M.20
2DDNA.3015	20	500	500-515	672	M.20



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

Malzeme / Material : EPDM

Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılmaz.
EPDM rubber can not be used for thermal insulation.

Manşonlu Tip Kelepçe Pipe Clamp with Sleeve

MDN

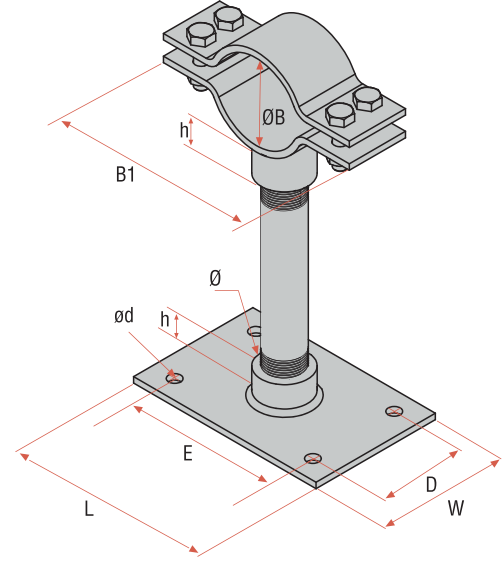
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Dikey ve büyük çaplı boruların askılamasında ve montajında kullanılmak üzere dizayn edilmiştir.
Bükülme direnci sayesinde bina yapısına uzak mesafelerde yapılan askılamalarda kullanılır.
Designed for suspending and fixing of vertical and expanded pipes. For bending-resistance fastening at greater distances from the building structure.

MDN Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØB mm	B1 mm	Ø inch.	L mm	W mm	h mm	d mm	D mm	E mm	Dizayn Yüğü Design Load kN
	inch.	mm										
MDN.3013	1/2	15	20-26	82	1/2	120	75	34	8,5	55	100	4,50
MDN.3014	3/4	20	26-32	104	1/2	120	75	34	8,5	55	100	4,50
MDN.3015	1	25	32-39	99	1/2	120	75	34	9,0	55	100	4,50
MDN.3016	1 1/4	32	41-48	115	3/4	130	85	36	9,0	58	98	6,80
MDN.3017	1 1/2	40	46-55	135	3/4	130	85	36	9,0	58	98	6,80
MDN.3018	2	50	56-66	148	1	150	100	42	11,0	64	113	6,80
MDN.3019	2 1/2	65	72-84	155	1	150	100	42	11,0	64	113	6,80
MDN.3020	3	80	85-94	185	1	150	100	42	11,0	64	113	7,40
MDN.3021	4	100	110-118	214	1 1/4	175	125	46	11,0	88	138	8,50
MDN.3022	5	125	137-148	230	1 1/4	175	125	46	11,0	88	138	9,20
MDN.3023	6	150	158-172	262	1 1/2	200	150	47	14,0	110	160	10,40
MDN.3024	8	200	208-230	335	1 1/2	200	150	47	14,0	110	160	10,40
MDN.3025	10	250	265-280	405	1 1/2	200	150	47	14,0	110	160	16,00



Boru dahil değildir.
Pipe not included.
Taban plakası dahildir.
Mounting plate included.

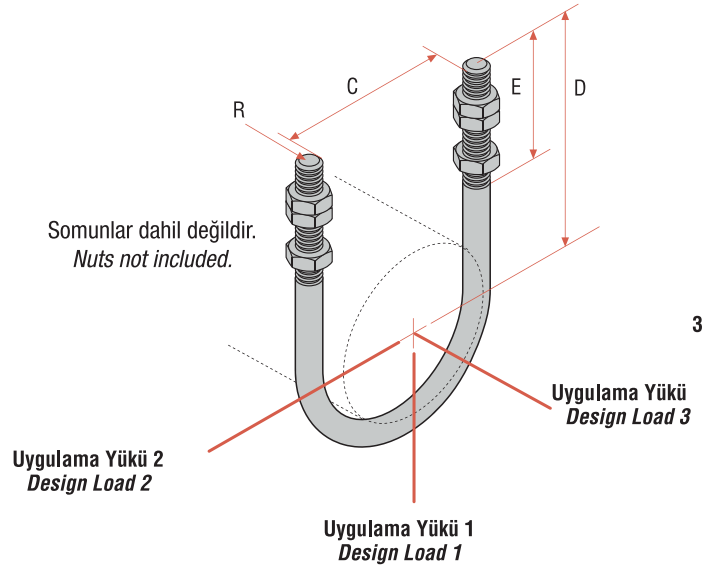
U-Bolt Askı Kelepçesi U-Bolt Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Boruların kılavuz, destek veya bağlantısı için dizayn edilmiştir.
Designed as a support, guide or anchor of pipe.

MSS-TYPE 24



UKP Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		R	C mm	D mm	E mm	Uygulama Yüğü 1 Design Load 1 kN		Uygulama Yüğü 2 Design Load 2 kN	Uygulama Yüğü 3 Design Load 3 kN
	inch.	mm					343°C	400°C	343°C	343°C
UKP.3090	1/2	15	M.6	24	32	30	2,58	2,02	0,64	1,33
UKP.3091	3/4	20	M.6	30	39	30	2,58	2,02	0,64	1,33
UKP.3092	1	25	M.8	36	44	30	2,58	2,02	0,64	2,67
UKP.3093	1 1/4	32	M.8	46	48	40	2,58	2,02	0,64	2,67
UKP.3094	1 1/2	40	M.8	52	56	50	2,58	2,02	0,64	2,67
UKP.3095	2	50	M.10	64	68	50	6,49	5,09	1,62	3,20
UKP.3096	2 1/2	65	M.10	78	71	50	6,49	5,09	1,62	3,20
UKP.3097	3	80	M.12	94	81	60	12,01	9,40	3,00	4,00
UKP.3098	4	100	M.12	118	89	65	12,01	9,40	3,00	4,00
UKP.3099	5	125	M.12	146	115	65	12,01	9,40	3,00	4,00
UKP.3100	6	150	M.16	172	118	90	18,10	12,25	3,65	4,80
UKP.3101	8	200	M.16	224	142	90	18,10	12,25	3,65	4,80
UKP.3102	10	250	M.16	278	169	100	18,10	12,25	3,65	-
UKP.3103	12	300	M.16	328	200	100	18,10	12,25	3,65	-
UKP.3104	14	350	M.18	360	215	100	18,10	15,04	4,00	-
UKP.3105	16	400	M.20	415	242	120	19,21	20,12	4,80	-
UKP.3106	18	450	M.20	464	268	120	19,21	20,12	4,80	-
UKP.3107	20	500	M.24	515	300	120	44,30	31,21	-	-
UKP.3108	24	600	M.24	615	348	120	44,30	31,21	-	-

Yuvarlak Hava Kanalı Kelepçeleri Round Air Channel Clamps

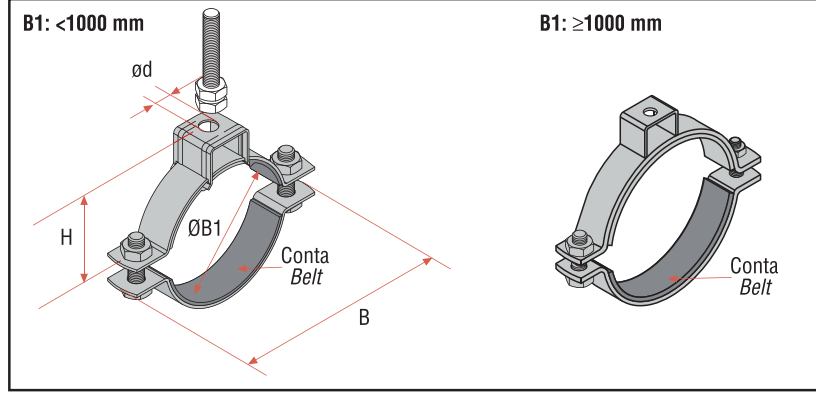
Malzeme / Material : Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

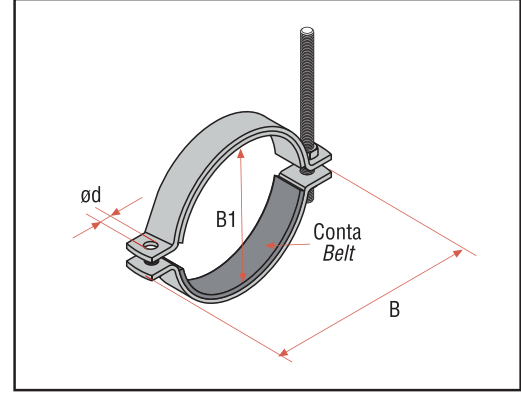
Hizmet / Service :

Yuvarlak hava kanallarını asmak için dizayn edilmişlerdir. Ø910 mm.'nin üzerindeki yuvarlak hava kanallarında LSK5 modellerinin kullanılması önerilir.
Designed for hanging round air channels. It is recommended to use LSK5 for over 910 mm diameter air channels.

LSK4



LSK5



LSK4 Ölçüler / Dimensions

Kod Code	ØB1 mm	H mm	B mm	Ød mm
LSK4.3228	80	70	134	13
LSK4.3229	100	82	154	13
LSK4.3230	125	95	179	13
LSK4.3231	150	110	204	13
LSK4.3232	160	113	215	13
LSK4.3233	180	123	235	13
LSK4.3234	200	134	259	13
LSK4.3235	224	146	283	13
LSK4.3236	250	159	311	13
LSK4.3237	280	175	351	13
LSK4.3238	295	182	356	13
LSK4.3239	300	385	361	13
LSK4.3240	315	191	384	13
LSK4.3241	355	211	424	13
LSK4.3242	400	234	469	13
LSK4.3243	450	259	520	13
LSK4.3244	500	284	570	13
LSK4.3245	560	314	630	13
LSK4.3246	600	334	670	13
LSK4.3247	630	350	700	13
LSK4.3248	710	390	780	13
LSK4.3249	800	435	870	13
LSK4.3250	900	485	970	13
LSK4.3251	1000	543	1088	18
LSK4.3253	1120	602	1208	18
LSK4.3254	1250	668	1388	18

B1:
<1000 mm

B1:
≥1000 mm

LSK5 Ölçüler / Dimensions

Kod Code	B1 mm	B mm	Ød mm
LSK5.3252-001	80	134	9
LSK5.3252-002	100	154	9
LSK5.3252-003	125	179	9
LSK5.3252-004	150	204	9
LSK5.3252-005	160	215	9
LSK5.3252-006	180	235	9
LSK5.3252-007	200	259	9
LSK5.3252-008	224	283	9
LSK5.3252-009	250	311	9
LSK5.3252-010	280	351	9
LSK5.3252-011	295	356	9
LSK5.3252-012	300	361	9
LSK5.3252-013	315	384	9
LSK5.3252-014	355	424	9
LSK5.3252-015	400	469	9
LSK5.3252-016	450	520	9
LSK5.3252-017	500	570	9

Kod Code	B1 mm	B mm	Ød mm
LSK5.3252-018	560	630	13
LSK5.3252-019	600	670	13
LSK5.3252-020	630	700	13
LSK5.3252-021	710	780	13
LSK5.3252-022	800	870	13
LSK5.3252-023	900	970	13
LSK5.3252-024	1000	1088	13
LSK5.3252-025	1120	1208	13
LSK5.3252-026	1250	1388	18
LSK5.3252-027	1300	1420	18
LSK5.3252-028	1350	1468	18
LSK5.3252-029	1400	1524	18
LSK5.3252-030	1500	1610	18
LSK5.3252-031	2000	2120	18

Çaplara göre seçim tablosu / Selection table according to diameters.

Tablo SMACNA standartlarına uygun olarak hazırlanmıştır.

Table is prepared based on SMACNA HVAC Duct Construction Standards.

Kanal Çapı Duct Dia.	Mak.Askı Mesafesi Max. Spacing	Rot Rod	Kelepçe Tipi Clamp Type
R<475	3,7 m.	M.8	LSK4, LSK5
R<610	3,7 m.	M.8	LSK4, LSK5
R<910	3,7 m.	M.10	LSK4, LSK5
R<2150	3,7 m.	M.10X2	LSK5
R<2500	3,7 m.	M.12X2	LSK5

PROLINK G Boru Kelepçesi PROLINK G Strut Pipe Clamps

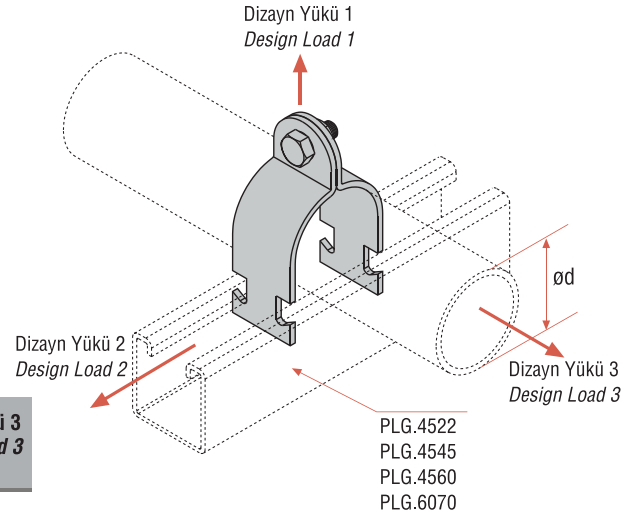
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service : İzolasyonsuz boruların ve elektrik kablo borularının PROLINK G yapı profilleri ile askılanması ve desteklenmesi için dizayn edilmiştir.
Designed for hanger and support of uninsulated pipes and cable conduit with PROLINK G framing channels.

PLGK Ölçüler / Dimensions

Kod Code	Ød mm	Birim Ağırlık Unit Weight kg	Dizayn Yüğü 1 Design Load 1 kN	Dizayn Yüğü 2 Design Load 2 kN	Dizayn Yüğü 3 Design Load 3 kN
PLGK.2008	8-11	0,05	1,78	0,22	0,22
PLGK.2011	11-12	0,05	1,78	0,22	0,22
PLGK.2015	15-17	0,06	1,78	0,22	0,22
PLGK.2018	18-20	0,06	1,78	0,22	0,22
PLGK.2020	20-24	0,06	1,78	0,22	0,22
PLGK.2021	21-23	0,06	2,67	0,33	0,33
PLGK.2023	23-26	0,06	2,67	0,33	0,33
PLGK.2026	26-29	0,06	2,67	0,33	0,33
PLGK.2029	29-32	0,06	2,67	0,33	0,33
PLGK.2032	32-36	0,07	3,56	0,56	0,56
PLGK.2036	36-39	0,07	3,56	0,56	0,56
PLGK.2039	39-42	0,07	3,56	0,56	0,56
PLGK.2042	42-45	0,07	3,56	0,56	0,56
PLGK.2046	46-50	0,08	3,56	0,56	0,56
PLGK.2048	48-54	0,08	3,56	0,56	0,56
PLGK.2050	50-54	0,08	3,56	0,56	0,56
PLGK.2052	52-56	0,11	3,56	0,56	0,56
PLGK.2056	56-60	0,12	3,56	0,56	0,56
PLGK.2060	60-63	0,13	3,56	0,56	0,56
PLGK.2062	62-64	0,13	3,56	0,56	0,56
PLGK.2064	64-67	0,13	3,56	0,56	0,56
PLGK.2067	67-71	0,14	3,56	0,56	0,56
PLGK.2070	71-74	0,16	3,56	0,56	0,56
PLGK.2074	74-77	0,17	3,56	0,56	0,56
PLGK.2077	77-80	0,20	3,56	0,56	0,56
PLGK.2083	83-86	0,21	3,56	0,56	0,56
PLGK.2086	86-90	0,23	4,45	0,89	0,67
PLGK.2096	96-100	0,24	4,45	0,89	0,67
PLGK.2100	100-103	0,24	4,45	0,89	0,67
PLGK.2109	109-112	0,26	4,45	0,89	0,67
PLGK.2112	112-115	0,28	4,45	0,89	0,67
PLGK.2115	115-118	0,32	4,45	0,89	0,67
PLGK.2125	125-128	0,38	4,45	0,89	0,67
PLGK.2132	132-135	0,40	4,45	0,89	0,67
PLGK.2135	135-138	0,42	4,45	0,89	0,67
PLGK.2138	138-141	0,45	4,45	0,89	0,67
PLGK.2148	148-151	0,45	4,45	0,89	0,67
PLGK.2157	157-160	0,46	4,45	0,89	0,67
PLGK.2160	160-164	0,62	4,45	0,89	0,67
PLGK.2164	164-167	0,65	4,45	0,89	0,67
PLGK.2167	167-170	0,69	4,45	0,89	0,67
PLGK.2176	176-179	0,72	4,45	1,11	0,89
PLGK.2179	179-182	0,76	4,45	1,11	0,89
PLGK.2189	189-192	0,89	4,45	1,11	0,89
PLGK.2196	196-200	0,92	4,45	1,11	0,89
PLGK.2218	218-221	0,99	4,45	1,11	0,89



PLGK Standart Kelepçeler Ölçüler / Dimensions

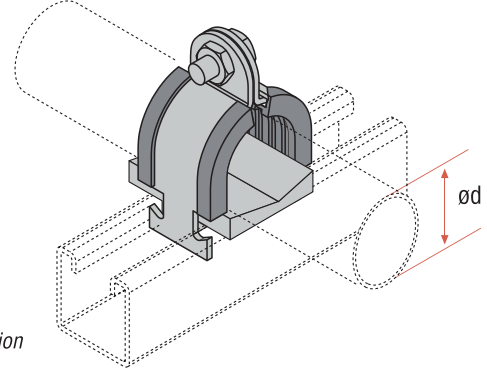
Kod Code	Ød mm	Boru Çapı Pipe Dia. inch.	Boru Çapı Pipe Dia. DN.
PLGK.2015	15-17	3/8	10
PLGK.2021	21-23	1/2	15
PLGK.2026	26-29	3/4	20
PLGK.2032	32-36	1	25
PLGK.2042	42-45	1 1/4	32
PLGK.2046	46-50	1 1/2	40
PLGK.2060	60-63	2	50
PLGK.2074	74-77	2 1/2	65
PLGK.2086	86-90	3	80
PLGK.2112	112-115	4	100
PLGK.2138	138-141	5	125
PLGK.2164	164-167	6	150
PLGK.2218	218-221	8	200

PROLINK İzolasyonlu Kelepçe Takımı PROLINK Insulation Pipe Clamp

Malzeme / Material :
Çelik, Polipropilen, EPDM
Steel, Polypropylene

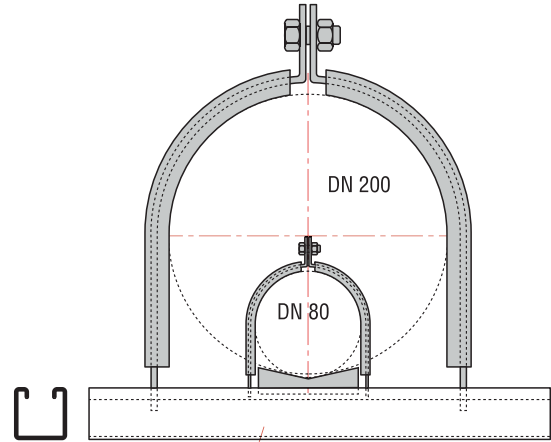
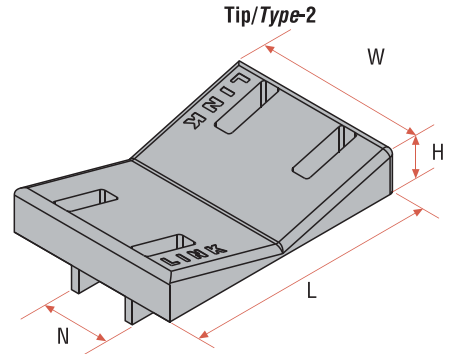
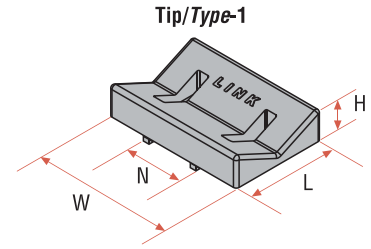
Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Havalandırma, soğutma, hidrolik hatlarda ve elektrik kablo borularında kullanılmak üzere dizayn edilmiştir. Farklı metaller arasındaki etkileşimi engeller ve boru ile bağlantı noktası arasındaki ses, titreşim izolasyonunu sağlar.
Designed for use with HVAC, refrigeration, hydraulic lines and cable conduits. This provides protection from galvanic action between dissimilar metals as well as absorbs sound and vibration between pipe and mounting materials.



PLPT Ölçüler / Dimensions

Kod Code	Ød mm	Boru Ölçüsü Pipe Size		L mm	W mm	N mm	H mm	Tip Type
		inch	mm					
PLPT.2010	16-20	3/8	10	30	45	21	10	1
PLPT.2015	20-24	1/2	15	30	45	21	10	
PLPT.2020	25-32	3/4	20	30	45	21	10	
PLPT.2025	32-39	1	25	30	45	21	10	
PLPT.2032	39-46	1 1/4	32	30	45	21	10	
PLPT.2040	48-54	1 1/2	40	30	45	21	10	
PLPT.2050	59-66	2	50	30	45	21	10	
PLPT.2065	74-80	2 1/2	65	30	45	21	10	2
PLPT.2080	87-94	3	80	80	55	21	15	
PLPT.2100	108-116	4	100	80	55	21	15	
PLPT.2125	135-143	5	125	80	55	21	15	
PLPT.2150	160-170	6	150	80	55	21	15	
PLPT.2200	216-222	8	200	80	55	21	15	



PLG.4522
PLG.4545
PLG.4560
PLG.6070

Teknik Özellikleri Technical Specification

Boru Destek Yatağı / Pipe Rest
Malzeme / Material : Polipropilen / Polypropylene
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +90°C



İzolasyon Lastikleri Teknik Özellikleri / Isolation Rubber Technical Specification

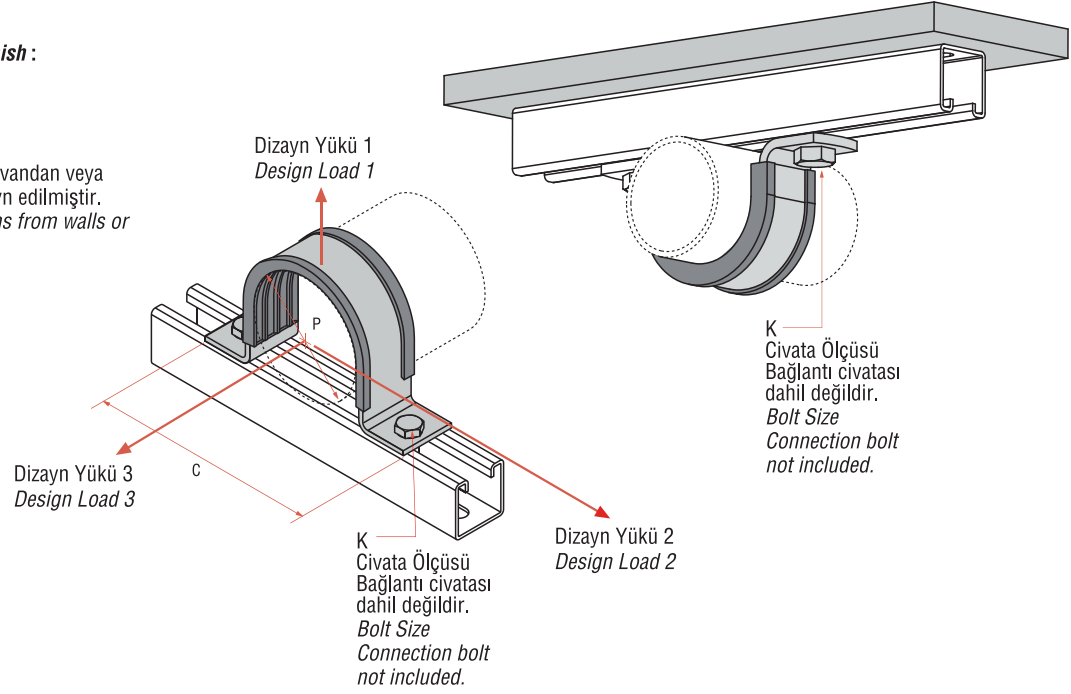
Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılamaz
EPDM rubber can not be used for thermal insulation.

Kısa Boru Atkısı Short Pipe Strap

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Boru hatlarının yapı profilleri ile tavandan veya duvardan desteklenmesi için dizayn edilmiştir.
Designed for supporting pipe runs from walls or ceilings with framing channels.



PLGS Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size P		C mm	Cıvata Ölçüsü Bolt Size K mm	Dizayn Yüğü 1 Design Load 1 kN	Dizayn Yüğü 2 Design Load 2 kN	Dizayn Yüğü 3 Design Load 3 kN
	inch.	mm					
PLGS.4015	1/2	15	81	M.8	2,67	0,67	0,47
PLGS.4020	3/4	20	96	M.8	2,67	0,67	0,47
PLGS.4025	1	25	100	M.8	2,67	0,67	0,53
PLGS.4032	1 1/4	32	109	M.8	2,67	0,67	0,53
PLGS.4040	1 1/2	40	121	M.8	2,67	0,67	0,53
PLGS.4050	2	50	162	M.12	5,34	2,14	0,80
PLGS.4065	2 1/2	65	178	M.12	5,34	2,14	0,80
PLGS.4080	3	80	195	M.12	5,34	2,14	1,33
PLGS.4100	4	100	227	M.16	6,67	2,67	2,00
PLGS.4125	5	125	254	M.16	6,67	2,67	2,00
PLGS.4150	6	150	277	M.16	6,67	2,67	2,00
PLGS.4200	8	200	342	M.16	6,67	3,56	2,67
PLGS.4250	10	250	395	M.16	8,90	3,56	2,67
PLGS.4300	12	300	445	M.16	8,90	3,56	2,67
PLGS.4350	14	350	517	M.20	8,90	3,56	2,67
PLGS.4400	16	400	568	M.20	8,90	3,56	2,67
PLGS.4450	18	450	664	M.20	8,90	3,56	2,67
PLGS.4500	20	500	714	M.20	8,90	3,56	2,67
PLGS.4600	24	600	816	M.20	8,90	3,56	2,67

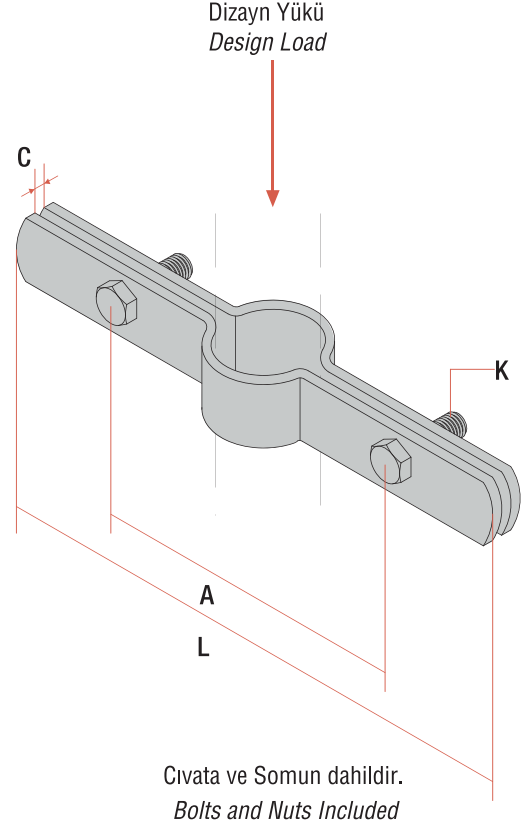
Dikey Hat Kelepçesi Heavy Duty Riser Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Dikey Hat Kelepçesi dikey boru hatlarını desteklemek ve sabitlemek için dizayn edilmiştir. Dikey hat kelepçeleri demir borularda kullanıma uygundur ve kolaylıkla bir manşonun veya kesme kulağının altına monte edilebilir.
*Designed for supporting and stabilizing vertical pipe runs.
Clamp is fitted for steel pipe and preferably installed below a coupling or shear lugs.*

MSS-TYPE 8



SYK

Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		L mm	A mm	C mm	Cıvata Ölçüsü Bolt Size K	Dizayn Yüğü Design Load kN
	inch.	mm					
SYK.08015	1/2	15	210	80	10	M.10	1,70
SYK.08020	3/4	20	220	80	10	M.10	1,70
SYK.08025	1	25	240	80	10	M.10	1,70
SYK.08032	1 1/4	32	270	90	10	M.10	1,70
SYK.08040	1 1/2	40	270	100	10	M.10	1,70
SYK.08050	2	50	270	110	13	M.10	1,70
SYK.08065	2 1/2	65	300	120	13	M.12	4,00
SYK.08080	3	80	300	140	13	M.12	4,00
SYK.08100	4	100	340	180	13	M.12	4,00
SYK.08125	5	125	340	210	13	M.16	6,00
SYK.08150	6	150	390	230	13	M.16	6,00
SYK.08200	8	200	480	310	16	M.16	11,00
SYK.08250	10	250	530	350	16	M.16	12,00
SYK.08300	12	300	590	400	16	M.20	15,00
SYK.08350	14	350	620	440	16	M.20	15,00
SYK.08400	16	400	670	500	20	M.20	22,00
SYK.08450	18	450	720	550	20	M.20	22,00
SYK.08500	20	500	770	600	20	M.20	22,00
SYK.08600	24	600	920	770	25	M.20	22,00
SYK.08750	30	750	1040	880	25	M.20	22,00

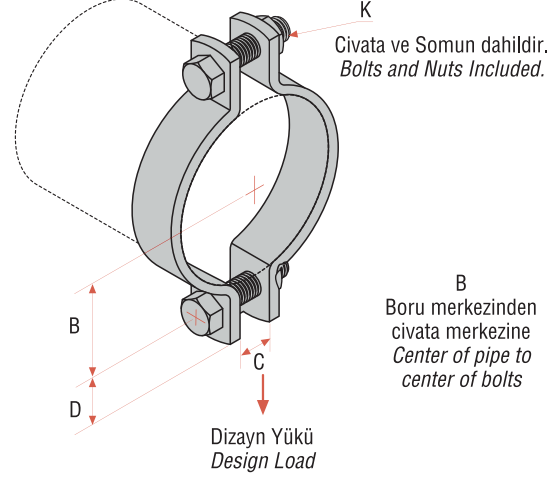
Standart Boru Keleççesi Standard Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz
Hot-Dip Galvanized

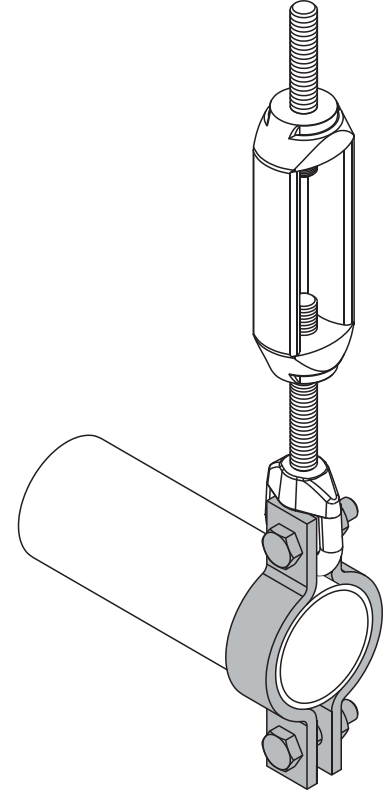
Hizmet / Service :
İzolasyonsuz boru hatlarının askılanması için dizayn edilmiştir.
Designed for suspending non-insulated pipe runs.

MSS-TYPE 4



ETA A Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		C mm	B mm	D mm	Civata Ölçüsü Bolt Size K	Dizayn Yüğü Design Load kN
	inch.	mm					
ETA A.3253	1/2	15	9	27	15	M.8	1,73
ETA A.3254	3/4	20	9	28	15	M.8	1,73
ETA A.3255	1	25	9	33	15	M.8	1,73
ETA A.3256	1 1/4	32	15	36	15	M.8	1,73
ETA A.3257	1 1/2	40	15	37	15	M.8	1,73
ETA A.3258	2	50	15	55	17	M.10	3,60
ETA A.3259	2 1/2	65	15	66	17	M.10	3,60
ETA A.3260	3	80	15	71	20	M.12	3,60
ETA A.3261	4	100	18	87	22	M.16	3,60
ETA A.3262	5	125	20	103	23	M.16	3,60
ETA A.3263	6	150	22	125	25	M.20	5,60
ETA A.3264	8	200	25	148	25	M.20	5,60
ETA A.3265	10	250	25	183	32	M.20	7,62

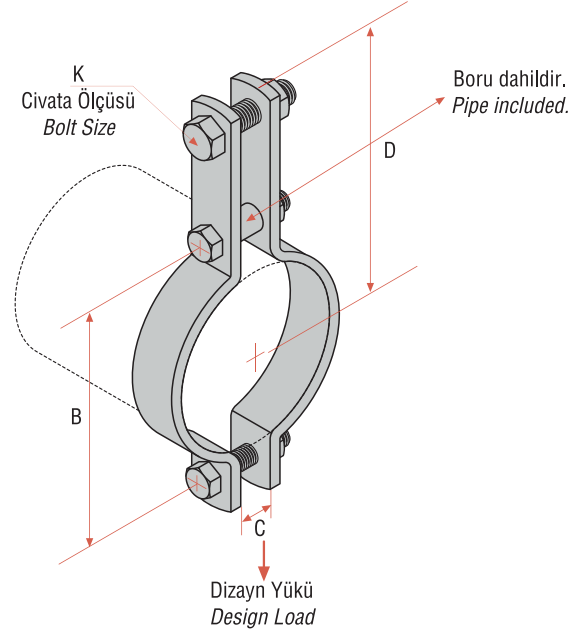


Çift Cıvatalı Boru Keleççesi Double Bolt Pipe Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz
Hot-Dip Galvanized

Hizmet / Service :
DIN 3567 FORM:B uygun üretilmekte olup, endüstriyel tesis yapılarında yüksek statik yüklemeler için dizayn edilmiştir.
Designed for high static loading requirements in plant construction.
Pipe clamps manufactured according to DIN 3567 FORM:B.



Civata, Somun, Boşluk Ayar Parçası dahildir.
Bolts, Nuts and Spacer Included.

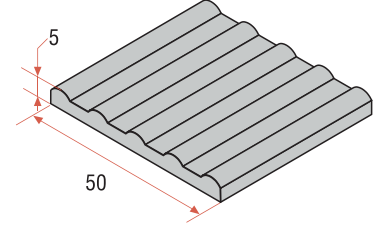
ETA B Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		B mm	C mm	D mm	Civata Ölçüsü Bolt Size K mm	Dizayn Yükü Design Load kN
	inch.	mm					
ETA B.3253	1/2	15	58	7	96	M.10	3,29
ETA B.3254	3/4	20	66	7	104	M.10	3,29
ETA B.3255	1	25	72	7	110	M.10	3,29
ETA B.3256	1 1/4	32	76	7	120	M.12	3,29
ETA B.3257	1 1/2	40	88	7	126	M.12	5,34
ETA B.3258	2	50	108	9	153	M.12	5,34
ETA B.3259	2 1/2	65	122	9	167	M.12	5,34
ETA B.3260	3"	80	136	9	181	M.16	5,34
ETA B.3261	4"	100	178	11	237	M.16	8,67
ETA B.3262	5	125	196	11	255	M.20	8,67
ETA B.3263	6	150	222	11	281	M.20	9,96
ETA B.3264	8	200	284	11	343	M.20	9,96
ETA B.3265	10	250	348	14	421	M.20	11,25
ETA B.3266	12	300	392	14	465	M.24	11,25
ETA B.3267	14	350	444	14	517	M.24	14,94
ETA B.3268	16	400	498	18	586	M.24	14,94
ETA B.3269	18	450	580	18	668	M.24	14,94
ETA B.3270	20	500	614	18	702	M.27	15,65

İzolasyon Lastikleri Isolation Rubber

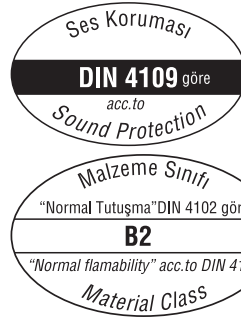
Malzeme / Material :
EPDM

Hizmet / Service : Keleççelerde, profillerde; ses yalıtımı için kullanılır.
Designed for sound isolation at clamps and framing channels.



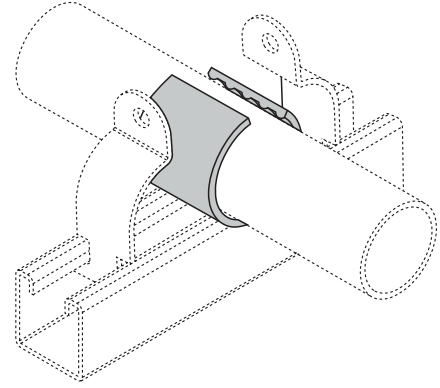
LIRB2 Ölçüler / Dimensions

Boru Ölçüsü Pipe Size P		Lastik Uzunluğu Rubber Length mm	Kullanılacak Keleççe Kodu Use Clamp Code
inch.	mm		
3/8	10	54,0	PLGK.2026
1/2	15	66,7	PLGK.2029
3/4	20	82,5	PLGK.2036
1	25	104,8	PLGK.2042
1 1/4	32	131,8	PLGK.2050
1 1/2	40	150,8	PLGK.2056
2	50	190,5	PLGK.2067
2 1/2	65	228,6	PLGK.2083
3	80	279,4	PLGK.2096
4	100	368,3	PLGK.2125
5	125	442,9	PLGK.2148
6	150	527,0	PLGK.2176

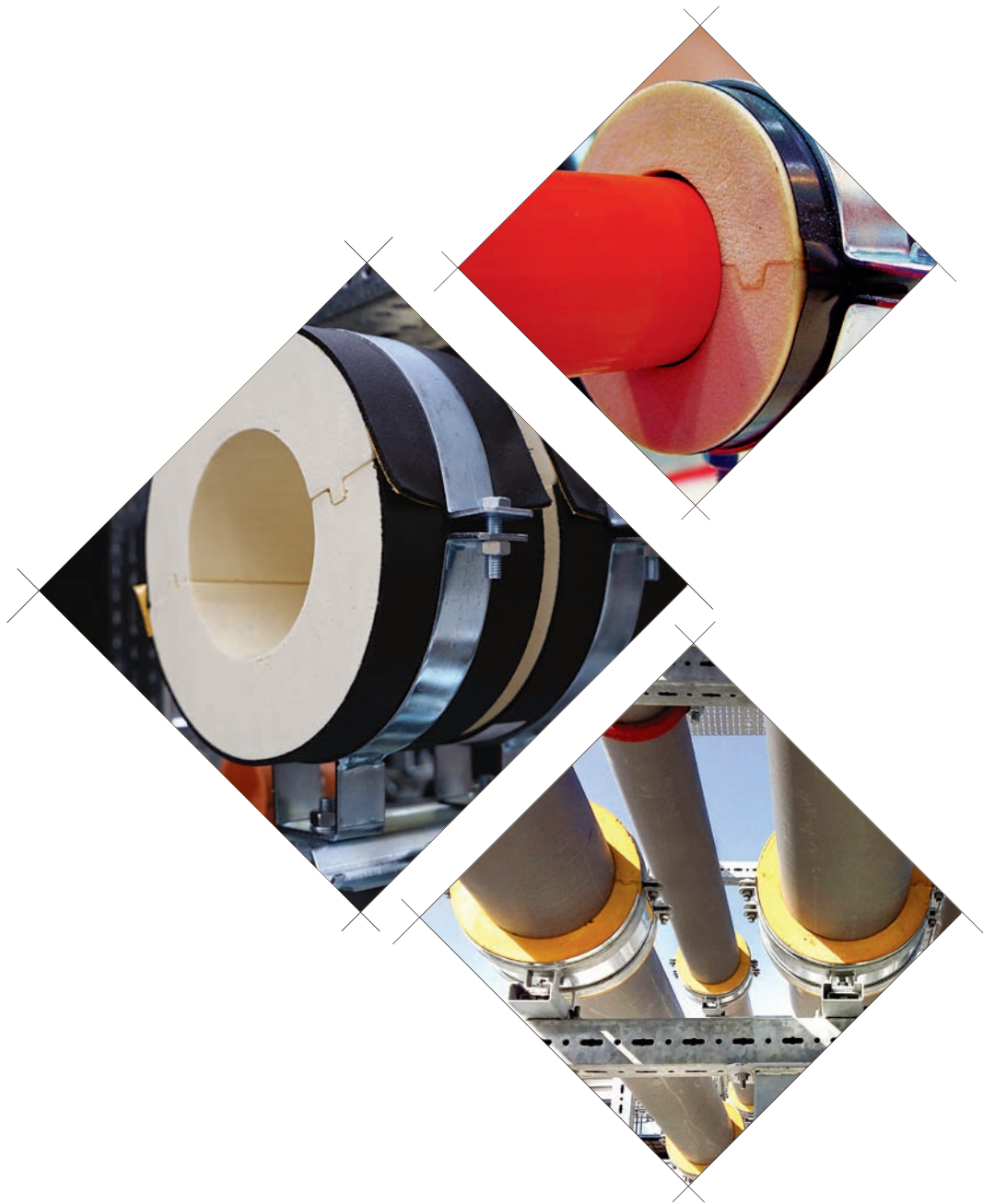
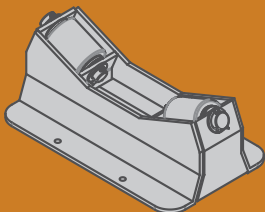
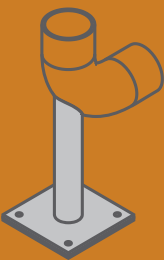
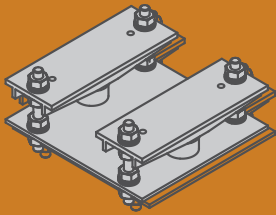
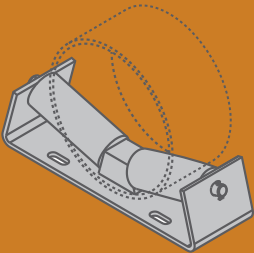
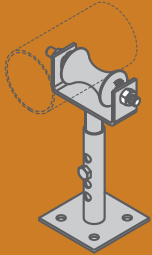
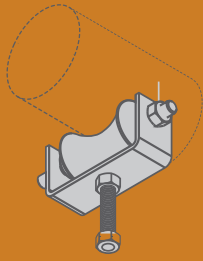


İzolasyon Lastikleri Teknik Özellikleri Isolation Rubber Technical Specification

Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30°C ~ +110°C
EPDM lastik ısı izolasyonu amacıyla kullanılmaz
EPDM rubber can not be used for thermal insulation.

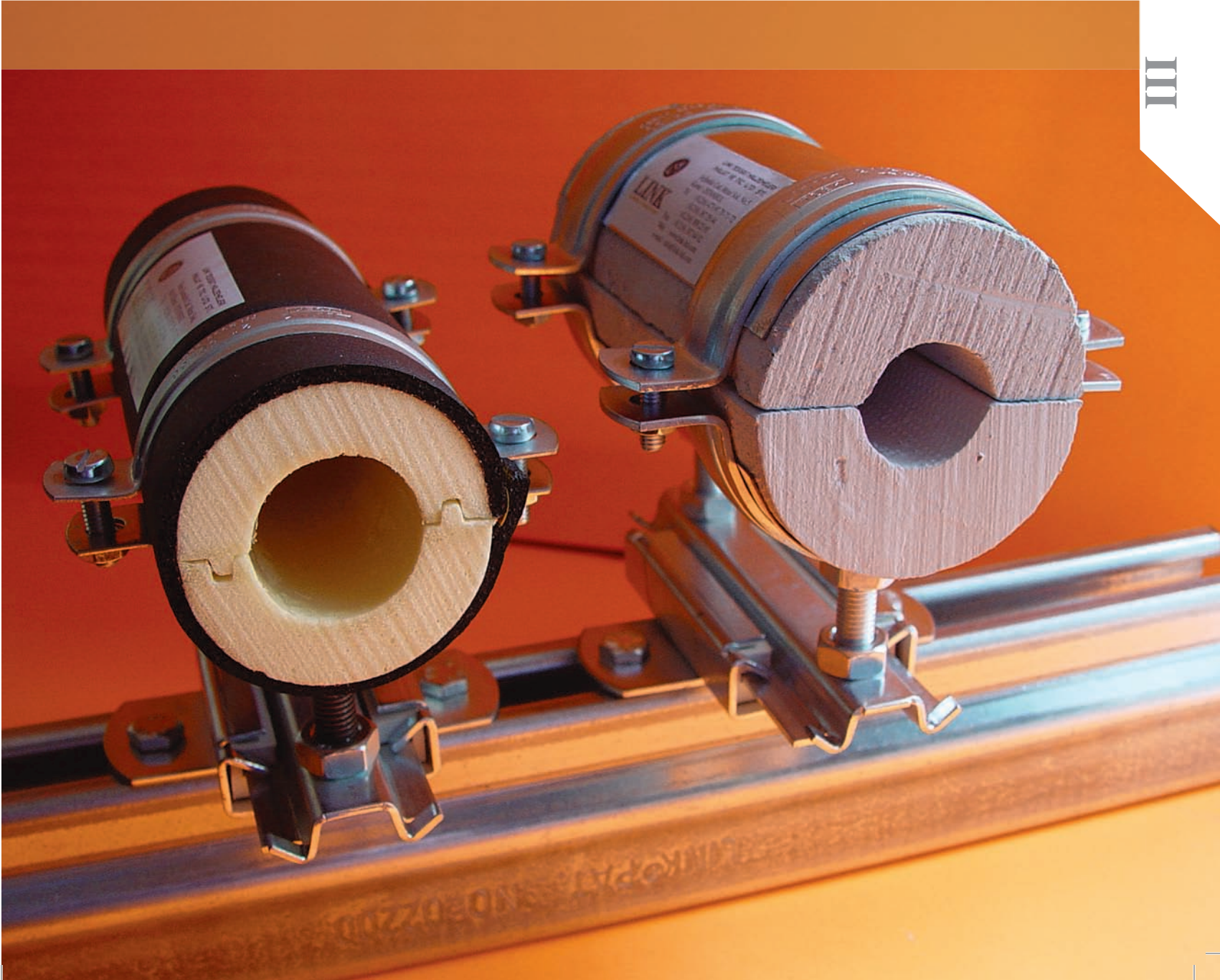


Kullanılacak keleççe kodları demir borulara göre düzenlenmiştir. / Use clamp codes are given for steel pipes.



we link the world

**BORU MAKARALARI, DESTEK MAKARALARI, BORU DESTEKLERİ,
KILAVUZLARI, KORUYUCULARI ve TAKOZLARI**
*Pipe Rollers & Roller Supports, Pipe Supports,
Guides, Shields & Saddles*



BORU MAKARALARI ve DESTEK MAKARALARI BORU DESTEKLERİ, KILAVUZLARI, KORUYUCULARI ve TAKOZLARI

Bu bölümde önerilen;

Boru makaraları ve destek makaraları, hem izolasyonlu hem de izolasyonsuz boruların genleşme ve büzüşmesine bağlı olarak gerçekleşen yatay hareketlerini karşılamak amacı ile, Boru destekleri dikey ayarlama gerektirebilecek yerlerde boruların taban yapılarından desteklemek için, Boru kılavuzları ve kayar mesnetler boruların termal genleşmelerden ve büzülmelemlerden dolayı oluşabilecek yatay hareketlerine izin vererek desteklenmesi için, Boru Koruyucuları ve takozları boruların izolasyonunda oluşabilecek hasarları önlemek için, dizayn edilmişlerdir.

Malzemeler:

Boru Makarası ve Destek Makarası üretiminde çelik ve dökme demir makaralar kullanılmıştır. Boru Destekleri, Kılavuzları, Koruyucuları ve Takozları üretiminde çelik, poliüretan ve kalsiyum silikat kullanılmıştır. Diğer malzemeler ile de üretim yapılabilir.

Kaplamalar:

Mekanik desteklerin standart kaplamaları üretimden sonra Sıcak Daldırma Galvaniz (**EN 1461**) ve Elektro Galvaniz (**EN ISO 2081**) kaplamadır. İsteğe bağlı diğer özel kaplamalar uygulanabilir.

Onaylar (Belirtilen):

Bu bölümdeki ürünler TSEK ve ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 sistemlerinde belirtilen şartlarda üretilmiştir. Modellerimizin FM ve VdS onaylı olanları sayfalarında onay markaları ile belirtilmiş olup, tüm modellerin GOST K, GOST R ve SEPRO Sertifikası mevcuttur. Bu bölümde yer alan bütün boru ve askı destek sistemleri aksi belirtilmediği sürece TS -301/1-2-3-4, TS 1997, TS 416, DIN 2440 - 2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 uluslararası standart borular için boyutlandırılmıştır. Bazı çelik ürünler diğer boru çaplarını karşılamak için özel olarak üretilebilirler, örnek olarak çelik ve dökme demir vb.t

PIPE ROLLERS & ROLLER SUPPORTS PIPE SUPPORTS, GUIDES, SHIELDS & SADDLES

Pipe rollers and roller supports offered in this section are designed to compensate for longitudinal movement due to the expansion or contraction of either insulated or non-insulated pipe.

Pipe supports offered in this section are designed to support pipe from a base structure where vertical adjustment may be required.

Pipe guides and slides offered in this section are designed to allow longitudinal movement due to thermal expansion and contraction of pipe.

Protection shields and saddles offered in this section are designed to prevent damage to pipe insulation.

Materials:

Carbon Steel with cast iron rollers are used in the manufacturing of Pipe Roller and Roller Supports. Other materials are available.

Carbon Steel, calcium silicate and polyurethane are used in the manufacturing of pipe supports, guides, shields and saddles.

Other materials are available.

Finishes :

*The standard finishes for mechanical supports are hot-dip galvanized after fabrication (**EN 1461**) and Zinc Plated (**EN ISO 2081**). Other special coatings are available upon request.*

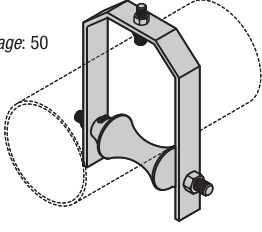
Approvals (as noted) :

Manufacturing is controlled by TSEK, ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 System Standards, Our products that have FM and VdS approvals shown with approval marks in their pages and all products have GOST K, GOST R and SEPRO certification.

All pipe hangers and support in this section are sized to feet schedule 40/80, TS 301/1-2-3-4, TS 1997, TS 416, DIN2440-2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 pipe standards unless otherwise noted. Some steel items may be specially fabricated to fit other pipe diameters i e ductile iron cast iron etc.

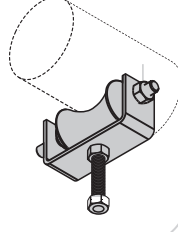
CRH

Sayfa / Page: 50



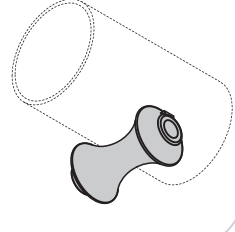
RYAM

Sayfa / Page: 51



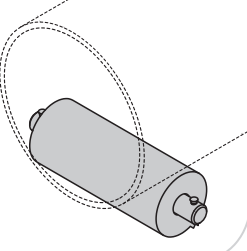
YBR

Sayfa / Page: 52



YBR2

Sayfa / Page: 52



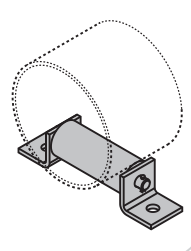
TBM

Sayfa / Page: 53



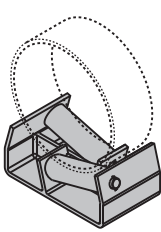
SRS

Sayfa / Page: 53



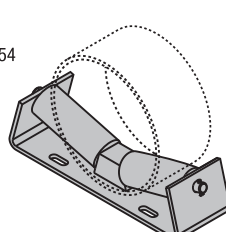
DRSA

Sayfa / Page: 54



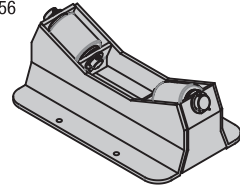
DRSB

Sayfa / Page: 54



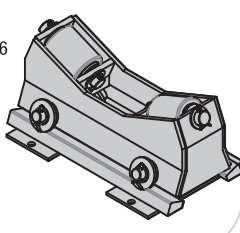
LSR1A

Sayfa / Page: 56



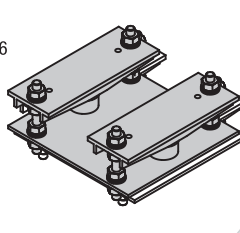
LSR2A

Sayfa / Page: 56



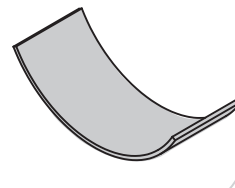
LSRT

Sayfa / Page: 56



LSRS

Sayfa / Page: 56



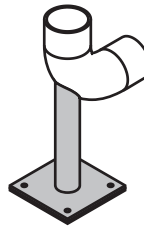
ADY

Sayfa / Page: 57



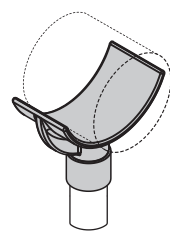
PS1

Sayfa / Page: 58



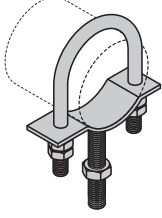
MATS

Sayfa / Page: 57



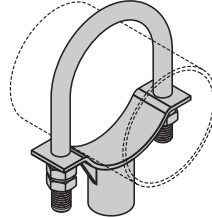
MUPS

Sayfa / Page: 59



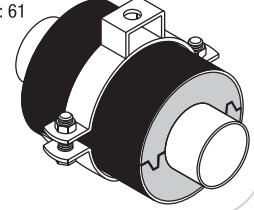
MAPS

Sayfa / Page: 59



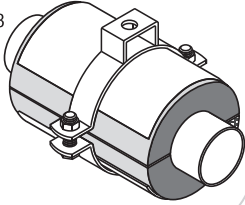
PAT A

Sayfa / Page: 61



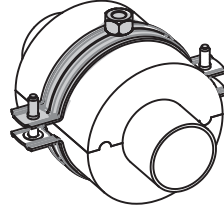
PATC

Sayfa / Page: 63



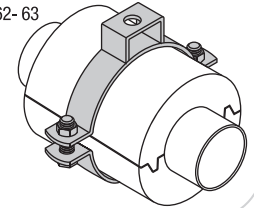
DN5L

Sayfa / Page: 62



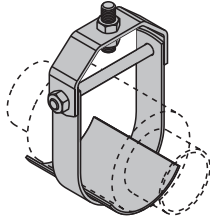
PSDA

Sayfa / Page: 62-63



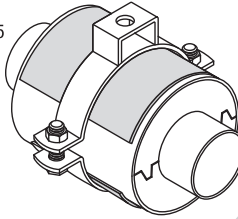
PSDB

Sayfa / Page: 64



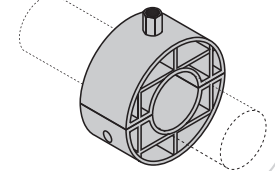
SPAT

Sayfa / Page: 65



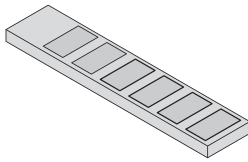
HKK

Sayfa / Page: 65



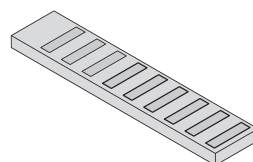
LADS

Sayfa / Page: 66



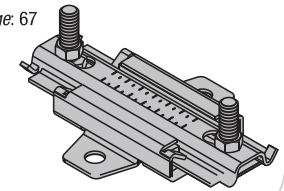
LCCS

Sayfa / Page: 66



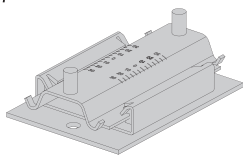
MKYM

Sayfa / Page: 67



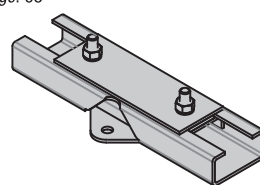
MKYMD

Sayfa / Page: 67



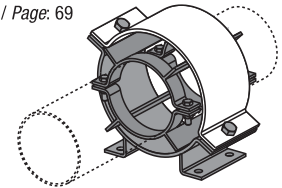
KYM4

Sayfa / Page: 68



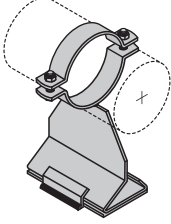
SPD

Sayfa / Page: 69



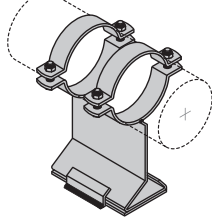
EKY1

Sayfa / Page: 70



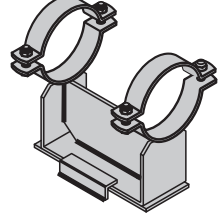
EKY2

Sayfa / Page: 70



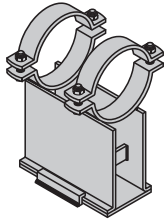
EKYA

Sayfa / Page: 71



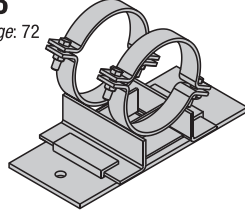
EKYA2

Sayfa / Page: 71



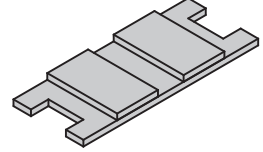
EKYA3

Sayfa / Page: 72



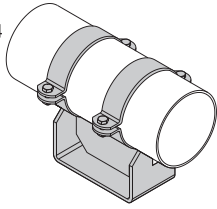
TH&GFH

Sayfa / Page: 73



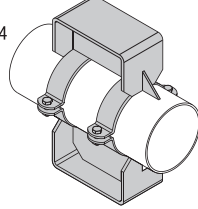
EFPA

Sayfa / Page: 74



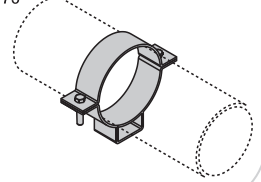
EFPB

Sayfa / Page: 74



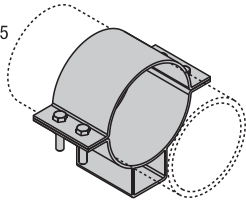
SDFP

Sayfa / Page: 75



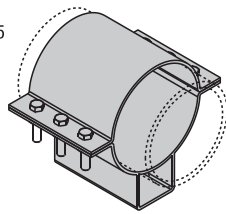
SDFP

Sayfa / Page: 75



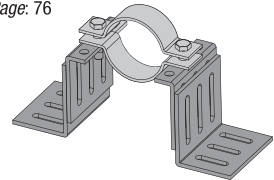
SDFP

Sayfa / Page: 75



DDNL

Sayfa / Page: 76

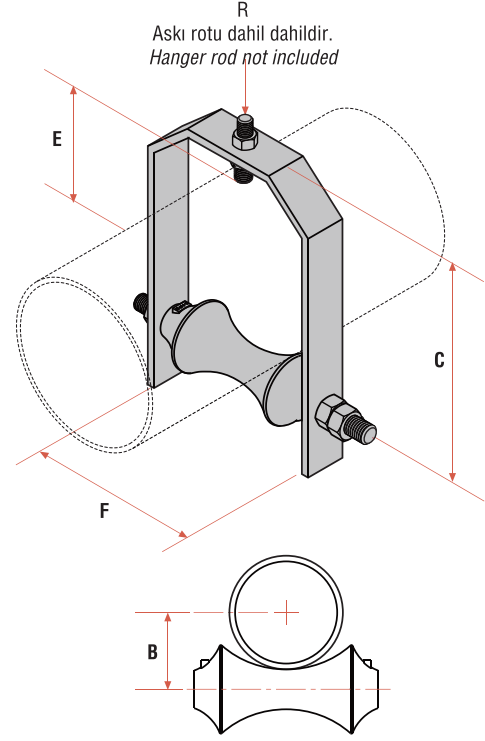


Ayarlanabilir Çelik Makaralı Boru Askı Kelepçesi Adjustable Steel Yoke Pipe Roll

Malzeme / Material:
Döküm ve çelik Makara
Cast iron and steel roller

Hizmet / Service :
Yatay hareket ve dikey ayarlama gerektiren boruları asmak için dizayn edilmiştir.
Designed for supporting pipe where longitudinal movement and vertical adjustment are required.

MSS-SP58 TYPE-43



CRH

Ölçüler / Dimensions:

Kod Code	Boru Ölçüsü Pipe Size		R	B mm	C mm	E mm	F mm	Dizayn Yüklü Design Load kN
	inch.	mm						
CRH.3382	2	50	M.10	46	121	36,5	88	0,67
CRH.3382	2 1/2	65	M.12	56	172	51,0	103	1,00
CRH.3382	3	80	M.12	63	172	51,0	103	1,38
CRH.3382	4	100	M.16	82	194	51,0	131	2,11
CRH.3382	5	125	M.16	92	228	51,0	162	3,04
CRH.3382	6	150	M.20	109	267	51,0	190	3,47
CRH.3382	8	200	M.20	146	326	51,0	246	3,47
CRH.3382	10	250	M.22	178	389	52,0	300	4,29
CRH.3382	12	300	M.22	188	418	57,0	336	5,34
CRH.3382	14	350	M.24	210	456	57,0	367	5,34
CRH.3382	16	400	M.24	235	506	51,0	418	5,34
CRH.3382	18	450	M.24	264	534	69,0	469	6,23
CRH.3382	20	500	M.32	292	604	63,5	532	7,11
CRH.3382	24	600	M.38	351	712	89,0	611	8,00

B
Aks merkezinden boru merkezine
Center of axle to center of pipe

C
Aks merkezinden askı çeliğinin üstüne
Center of axle to top of hanger steel

E
Ayar-Borunun üstünden askı rotunun altına
Adjustment-Top of pipe to bottom of hanger rod nut

Destek Makarası Roller Support

Malzeme / Material:

Çelik ve dökme demir makara
Steel and cast iron roller

Standart Kaplama / Standard Finish :

Elektro galvaniz / Zinc Plated

Hizmet / Service :

Yatay hareket ve dikey ayarlama gerektiren boruları desteklemek için dizayn edilmiştir.
Designed for supporting pipe where longitudinal movement and vertical adjustment are required.

MSS-SP58 TYPE -44

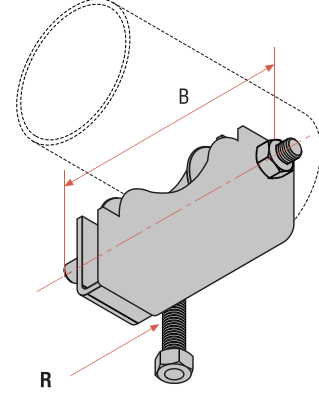
RYAM

Ölçüler / Dimensions:

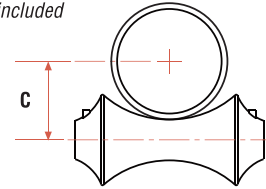
Kod Code	Boru Ölçüsü Pipe Size		R	B mm	C mm	Dizayn Yüğü Design Load kN
	inch.	mm				
RYAM.3375	2	50	M.12	140	46	2,70
RYAM.3376	2 1/2	65	M.12	140	56	2,90
RYAM.3377	3	80	M.12	180	63	3,10
RYAM.3378	4	100	M.16	200	82	3,30
RYAM.3379	5	125	M.16	250	92	3,30
RYAM.3380	6	150	M.12x2	300	109	4,70
RYAM.3381	8	200	M.12x2	360	146	5,90
RYAM.3382	10	250	M.12x2	440	178	7,70
RYAM.3383	12	300	M.12x2	475	188	10,70
RYAM.3384	14	350	M.16x2	480	210	13,70
RYAM.3385	16	400	M.16x2	580	235	17,60
RYAM.3386	18	450	M.16x2	620	264	18,60
RYAM.3387	20	500	M.16x2	680	292	19,60

Not: 4" ve sonrası iki rotludur.

Note: Two connection rods for 4" and bigger.



Rot dahil dahildir.
Rod not included



B

Tüm Civata Boyu
Overall Bolt Length

C

Aks merkezinden boru merkezine
Center of axle to center of pipe

D

Tüm saplama boyu
Overall Stud Height

Boru Makarası Pipe Roller

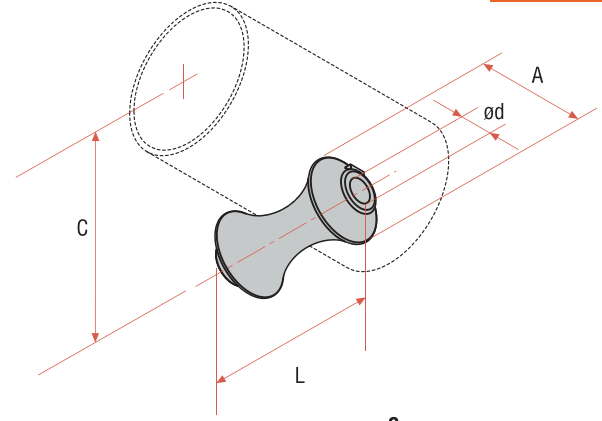
Malzeme / Material :
Dökme Demir / Cast iron

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Yatay hareketle boruları desteklemek için dizayn edilmiştir. Çelik rot aksla kullanınız
Designed for supporting pipe runs with longitudinal movement. Use with steel rod axle.

YBR Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		A mm	C mm	ød mm	L mm
	inch.	mm				
YBR.3360-140	2	50	44	46	15	84
YBR.3360-141	2 1/2	65	48	56	15	90
YBR.3360-142	3	80	50	63	15	96
YBR.3360-143	4	100	61	82	15	127
YBR.3360-144	5	125	71	92	18	154
YBR.3360-145	6	150	82	109	22	185
YBR.3360-146	8	200	91	146	26	238
YBR.3360-147	10	250	102	178	26	290
YBR.3360-148	12	300	111	188	26	330
YBR.3360-149	14	350	118	210	29	362
YBR.3360-150	16	400	128	235	32	413
YBR.3360-151	18	450	142	264	32	464
YBR.3360-152	20	500	170	292	38	514
YBR.3360-153	24	600	216	351	38	616
YBR.3360-154	30	750	230	438	44	768



C
Aks merkezinden boru merkezine
Center of axle to center of pipe.

Boru Makarası Pipe Roller

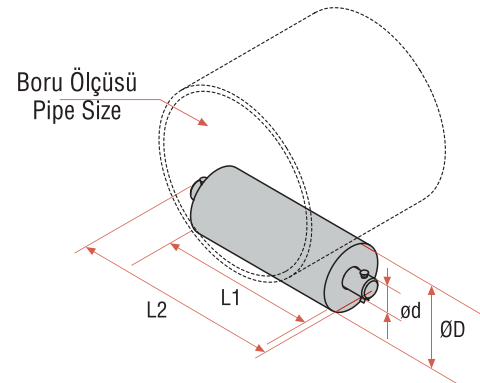
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Poliüretan

Hizmet / Service :
Yatay hareketle boruları desteklemek için dizayn edilmiştir.
Designed for supporting pipe runs with longitudinal movement.

YBR 2 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ød mm	ØD mm	L1 mm	L2 mm
	inch.	mm				
YBR2.3360-174	2 - 5	50 - 125	12	40	100	130
YBR2.3360-175	6 - 12	150 - 300	20	50	150	186
YBR2.3360-176	14 - 20	350 - 500	24	70	200	240



YBR 2

Makaralı Boru Desteği Pipe Stanchion Roller Support

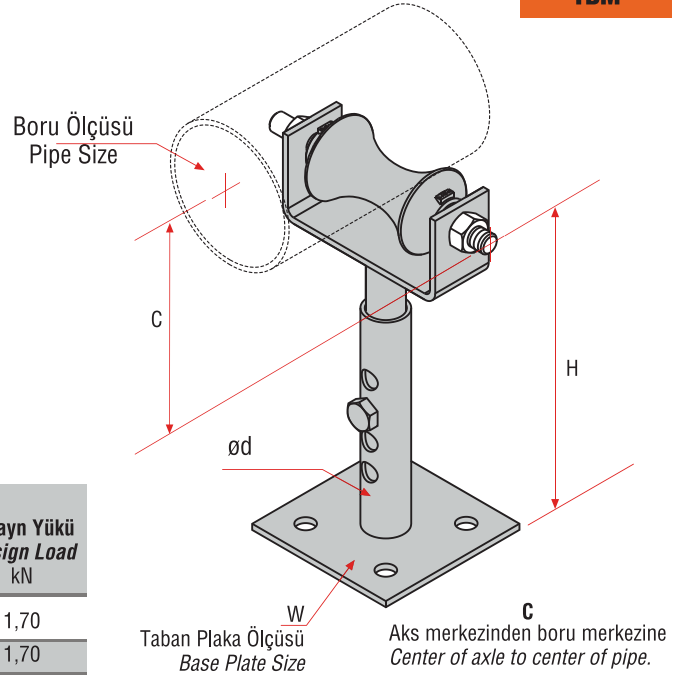
Malzeme / Material :
Çelik ve Dökme Demir Makara
Steel with cast iron roller

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Yatay hareket gerektiren ve taban seviyesinde ilerleyen boruların desteklenmesi için dizayn edilmiştir.
Designed for supporting the general pipes just above the base where longitudinal movement is required.

TBM Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ød		C mm	H mm	Taban Plaka Ölçüsü Base Plate Size W mm	Dizayn Yüklü Design Load kN
	inch.	mm	inch.	mm				
TBM.3389	2	50	3/4	20	46	200	150x150	1,70
TBM.3390	2 1/2	65	3/4	20	56	200	150x150	1,70
TBM.3391	3	75	1	25	63	200	150x150	2,80
TBM.3392	4	100	1	25	82	200	150x150	2,80
TBM.3393	5	125	1 1/4	32	92	200	200x200	3,60
TBM.3394	6	150	1 1/2	40	109	200	200x200	5,10
TBM.3395	8	200	2	50	146	200	200x200	6,90



Makaralı Boru Desteği Single Roller Pipe Support

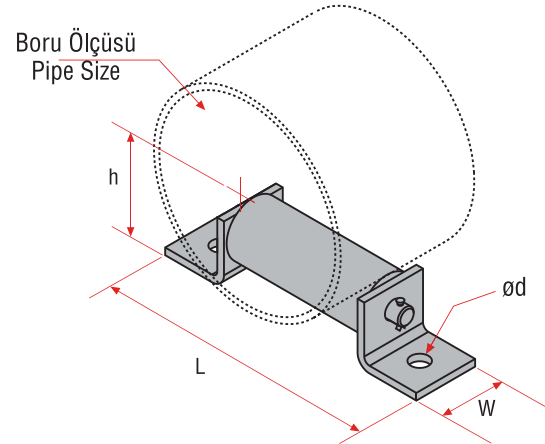
Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Poliüretan

Hizmet / Service :
Borularda ısıl genişmeden dolayı oluşan harekete izin vermek için tasarlanmıştır.
Designed for support pipe by allowing longitudinal movement due to thermal expansion.

SRS Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		L mm	h mm	W mm	ød mm
	inch.	mm				
SRS.050	2	50	188	79	45	13
SRS.065	2 1/2	65	188	87	45	13
SRS.075	3	75	188	93	45	13
SRS.100	4	100	188	106	45	13
SRS.125	5	125	188	115	45	13
SRS.150	6	150	290	150	60	13
SRS.200	8	200	290	175	60	13
SRS.250	10	250	290	201	60	13
SRS.300	12	300	290	227	60	13
SRS.350	14	350	400	277	100	17
SRS.400	16	400	400	302	100	17
SRS.450	18	450	400	328	100	17
SRS.500	20	500	400	353	100	17



Çift Makaralı Boru Desteği Double Roller Pipe Support Type A

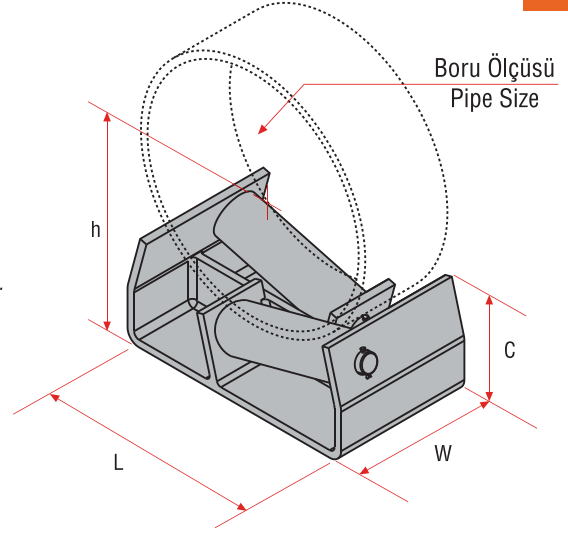
Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Borularda ısı genleşmeden dolayı oluşan harekete izin vermek için tasarlanmıştır.
Designed for support pipe by allowing longitudinal movement due to thermal expansion.

DRSA
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		L mm	h mm	W mm	C mm
	inch.	mm				
DRSA.050	2	50	150	93	45	78
DRSA.065	2 1/2	65	150	101	45	78
DRSA.075	3	75	150	108	45	78
DRSA.100	4	100	150	121	45	78
DRSA.125	5	125	150	134	45	78
DRSA.150	6	150	260	167	60	115
DRSA.200	8	200	260	193	60	115
DRSA.250	10	250	260	221	60	115
DRSA.300	12	300	260	247	60	115
DRSA.350	14	350	350	286	100	145
DRSA.400	16	400	350	312	100	145
DRSA.450	18	450	350	339	100	145
DRSA.500	20	500	350	365	100	145



DRSA

Çift Makaralı Boru Desteği Double Roller Pipe Support Type B

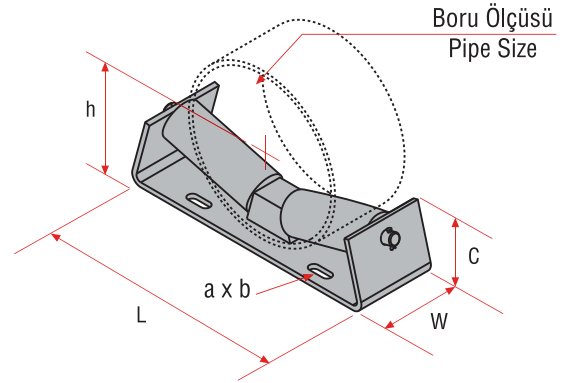
Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Borularda ısı genleşmeden dolayı oluşan harekete izin vermek için tasarlanmıştır.
Designed for support pipe by allowing longitudinal movement due to thermal expansion.

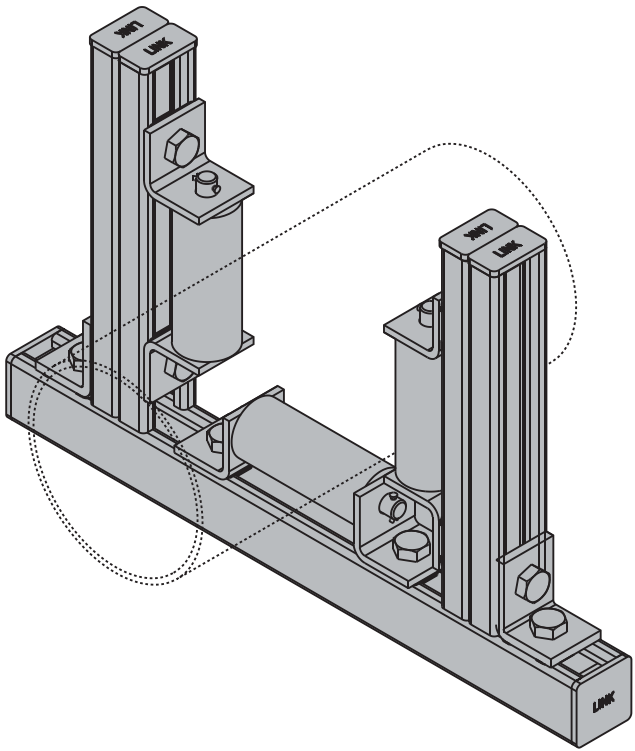
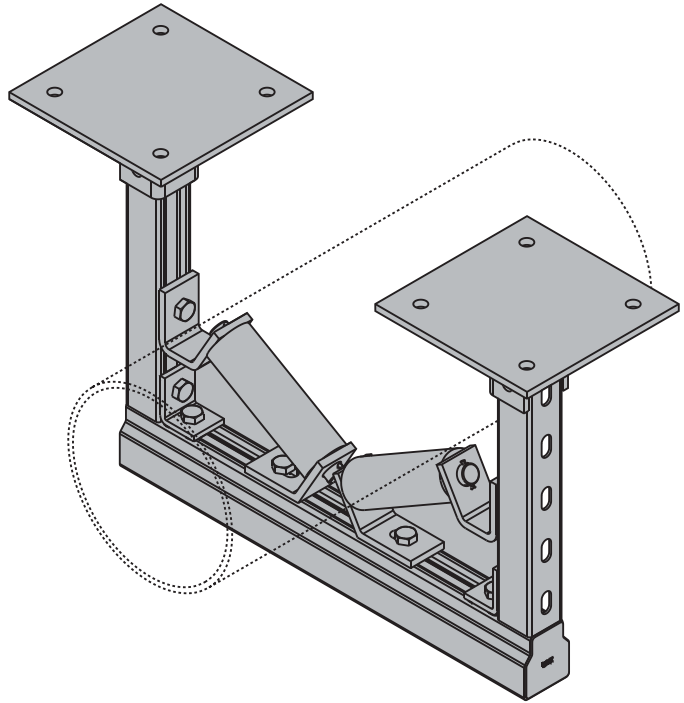
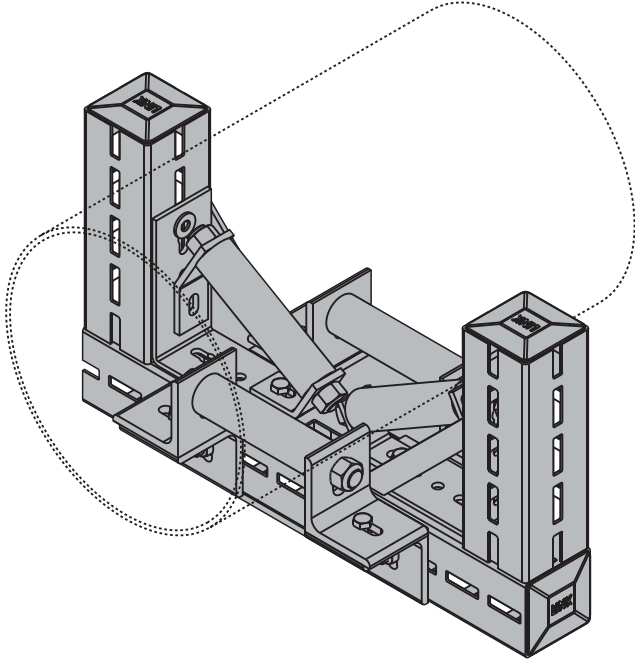
DRSB
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		L mm	h mm	W mm	C mm	a x b mm
	inch.	mm					
DRSB.050	2	50	230	65	80	70	13 x 25
DRSB.065	2 1/2	65	230	73	80	70	13 x 25
DRSB.075	3	75	230	80	80	70	13 x 25
DRSB.100	4	100	230	92	80	70	13 x 25
DRSB.125	5	125	230	102	80	70	13 x 25
DRSB.150	6	150	340	132	100	90	13 x 25
DRSB.200	8	200	340	158	100	90	13 x 25
DRSB.250	10	250	340	185	100	90	13 x 25
DRSB.300	12	300	340	210	100	90	13 x 25
DRSB.350	14	350	450	248	130	120	17 x 40
DRSB.400	16	400	450	273	130	120	17 x 40
DRSB.450	18	450	450	299	130	120	17 x 40
DRSB.500	20	500	450	324	130	120	17 x 40



DRSB

Uygulama örnekleri / Application examples



III

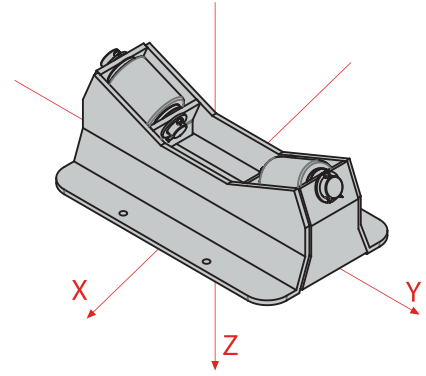
TEK EKSENLİ BORU MAKARASI ROLLER PIPE SUPPORT - SINGLE AXIS

LSR1A

Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz/Hot-Dip Galvanized

Kod Code	Boru Ölçüsü Pipe Size		E mm	W mm	H mm	D mm	D ₁ mm	D ₂ mm	Dizayn Yüğü Design Load		
	inch.	mm							F _x kN	F _y kN	F _z kN
LSR1A.1012	10 - 14	250-350	475	500	272	4 x 18	410	1 x 250	-	5,60	16,00
LSR1A.1018	16 - 20	400-500	475	550	272	4 x 18	410	1 x 250	-	14,08	40,00
LSR1A.1028	24 - 30	600-750	475	630	272	6 x 18	410	2 x 175	-	16,80	48,00
LSR1A.1036	32 - 38	800-950	475	670	272	6 x 18	410	2 x 175	-	28,00	80,00
LSR1A.1042	40 - 44	1000-1100	475	815	272	6 x 22	410	2 x 250	-	56,00	160,00
LSR1A.1048	46 - 50	1150-1250	475	815	272	6 x 22	410	2x 250	-	84,00	240,00



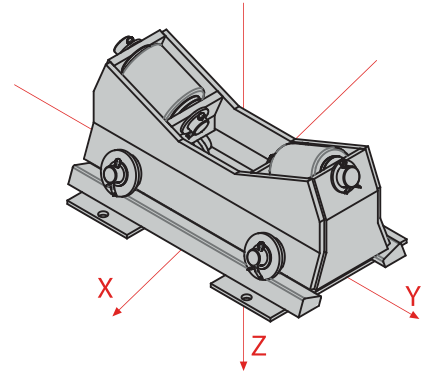
ÇİFT EKSENLİ BORU MAKARASI ROLLER PIPE SUPPORT - DOUBLE AXIS

LSR2A

Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz/Hot-Dip Galvanized

Kod Code	Boru Ölçüsü Pipe Size		E mm	W mm	H mm	D mm	D ₁ mm	D ₂ mm	Dizayn Yüğü Design Load		
	inch.	mm							F _x kN	F _y kN	F _z kN
LSR2A.1012	10 - 14	250-350	475	500	272	4 x 18	410	1 x 250	-	-	116,00
LSR2A.1018	16 - 20	400-500	475	550	272	4 x 18	410	1 x 250	-	-	40,00
LSR2A.1028	24 - 30	600-750	475	630	272	6 x 18	410	2 x 175	-	-	48,00
LSR2A.1036	32 - 38	800-950	475	670	272	6 x 18	410	2 x 175	-	-	80,00
LSR2A.1042	40 - 44	1000-1100	475	815	272	6 x 22	410	2 x 250	-	-	160,00
LSR2A.1048	46 - 50	1150-1250	475	815	272	6 x 22	410	2x 250	-	-	240,00



LSRT - LSRS

AYARLANABİLİR MAKARALI BORU DESTEĞİ PLATFORMU ADJUSTABLE PIPE SUPPORT PLATFORM

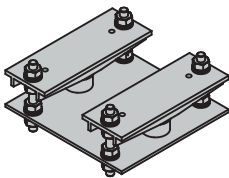
Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz/Hot-Dip Galvanized

Hizmet / Service:

Yükseklik (0-100 mm) ayarı için tüm ölçülerde (10-50 inch) kullanılması tavsiye edilir.
It is recommended to use all measurements (10-50 inch) for height (0-100 mm) setting.

LSRT



MAKARALI BORU DESTEĞİ KORUMA SACI ROLLER PIPE SUPPORT PROTECTION SHEET

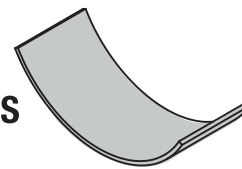
Malzeme / Material :
Çelik/Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz/Hot-Dip Galvanized

Hizmet / Service:

Yük dağılımı için tüm ölçülerde (10"-50") kullanılması tavsiye edilir.
It is recommended to use all dimensions (10"-50") for load distribution.

LSRS



"Yükseklik ve yük dağılımının sağlanabilmesi için kullanılmaları tavsiye edilir. It is recommended to use them to provide height and load distribution."

MATS

Boru Desteği Pipe Stanchion Support

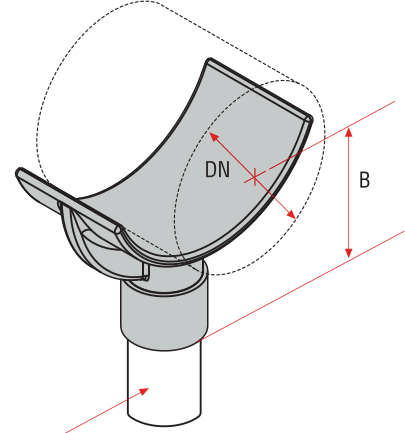
Malzeme / Material :
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Dikey ayarlama gerektiren boru hatlarının tabandan desteklenmesi için dizayne dılmıştır.
Stanchion type support where vertical adjustment is required.

MATS Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		B mm	ød inch	Dizayn Yüğü Design Load kN
	inch.	mm			
MATS.3468-001	2 1/2	65	113	1 1/2	4,20
MATS.3468-002	3	80	121	1 1/2	4,20
MATS.3468-003	4	100	175	2 1/2	10,20
MATS.3468-004	5	125	183	2 1/2	10,20
MATS.3468-005	6	150	192	2 1/2	10,20
MATS.3468-006	8	200	232	2 1/2	10,20
MATS.3468-007	10	250	263	2 1/2	10,20
MATS.3468-008	12	300	337	2 1/2	10,20



ød
Taşıyıcı boru dahil değildir.
Supporting Pipe not included

Ayarlanabilir Kayar Boru Desteği Adjustable Slide Pipe Stanchion

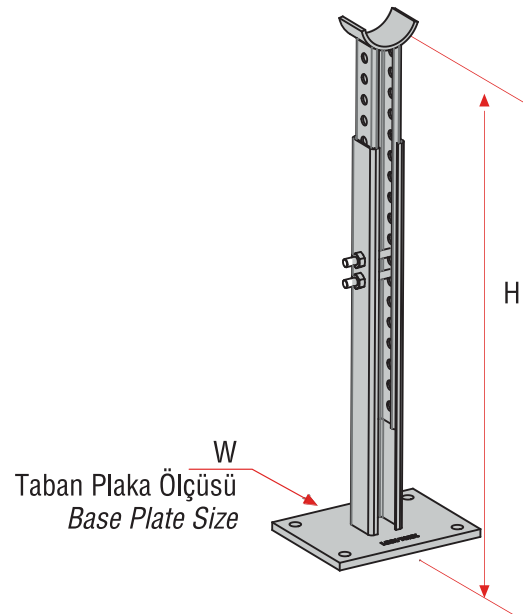
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Dikey ayarlama gerektiren boru hatlarının tabandan desteklenmesi için dizayn edilmiştir.
Stanchion type support where vertical adjustment is required.

ADY Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		H mm	W mm	Dizayn Yüğü Design Load kN
	inch.	mm			
ADY.3396-001	2 1/2	65	500	200 x 150	13,60
ADY.3396-002	3	80		200 x 150	13,60
ADY.3396-003	4	100		200 x 150	13,60
ADY.3396-004	5	125		200 x 150	13,60
ADY.3396-005	6	150	1000	200 x 150	13,60
ADY.3396-006	8	200		250 x 200	13,60
ADY.3396-007	10	250		250 x 200	13,60
ADY.3396-008	12	300		250 x 200	13,60
ADY.3396-009	14	350	350	300 x 300	27,27
ADY.3396-010	16	400		300 x 300	27,27
ADY.3396-011	18	450		300 x 300	27,27
ADY.3396-012	20	500		350 x 350	27,27
ADY.3396-013	24	600	700	350 x 350	27,27



W
Taban Plaka Ölçüsü
Base Plate Size

Boru Dirsek Desteği Pipe Stanchion Type A

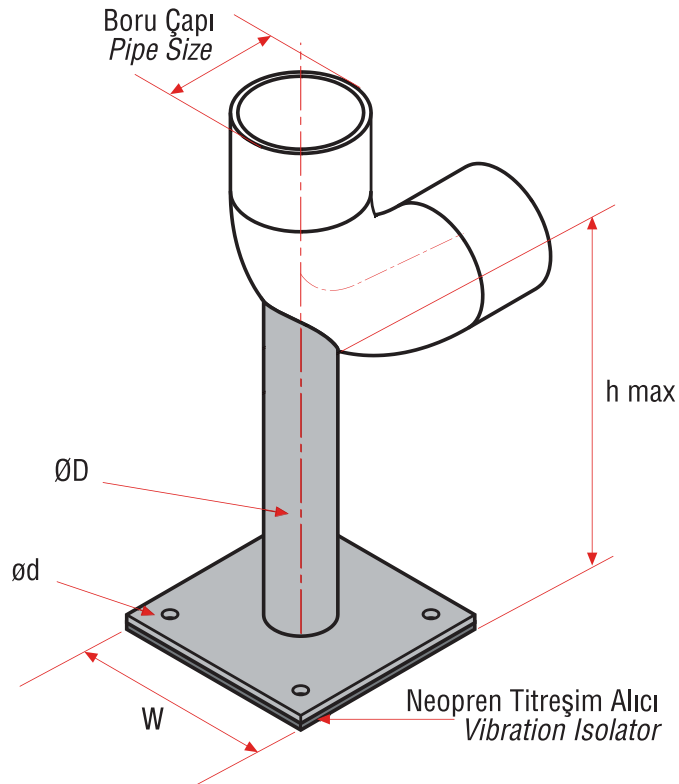
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Kaplama yoktur. Montaj sonrası kaplama (yaş boya vb.) yapılması tavsiye edilir.
No coating. Coating after welding (wet paint etc.) is recommended.

Hizmet / Service :
Dirseklerdeki koç darbesinden doğabilecek deformasyonu önlemek için dizayn edilmiştir.
Designed for preventing elbows againts water hammer.

PS1 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		ØD inch	W mm	ød mm	h max mm	Dizayn Yüğü Design Load kN
	inch.	mm					
PS1.050	2	50	1 1/2	150	14	500	3,30
PS1.065	2 1/2	65	1 1/2	150	14	500	3,30
PS1.080	3	80	1 1/2	150	14	500	3,30
PS1.100	4	100	2	150	14	500	4,50
PS1.125	5	125	2	150	14	500	4,50
PS1.150	6	150	2 1/2	200	14	500	8,40
PS1.200	8	200	3	200	14	500	9,90
PS1.250	10	250	4	200	18	1000	12,30
PS1.300	12	300	5	250	18	1000	17,00
PS1.350	14	350	5	250	18	1250	17,00
PS1.400	16	400	6	250	22	1250	24,00
PS1.450	18	450	8	350	26	1500	32,00
PS1.500	20	500	8	350	26	1500	32,00



U Bolt'lu Ayarlanabilir Boru Desteği Adjustable Pipe Stanchion Saddle W/U Bolt

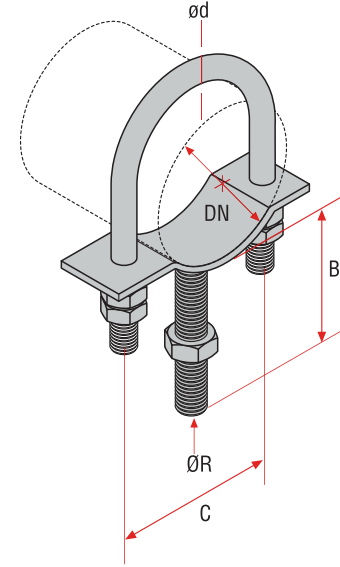
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Dikey ayarlama gerektiren boru hatlarının tabandan desteklenmesi için dizayn edilmiştir.
Buna ilaveten boruya U-Bolt montajı ile ek bir denge sağlanmış olur.
Stanchion type support where vertical adjustment is required, plus the additional stability provided by u-bolt attachment to pipe.

MUPS Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		Ø R mm	B mm	C mm	ød mm	Dizayn Yüğü Design Load kN
	inch.	mm					
MUPS.3468-036	2	50	M.12	150	74	M.10	2,70
MUPS.3468-037	2 1/2	65	M.12	150	88	M.10	2,90
MUPS.3468-038	3	80	M.12	150	106	M.12	3,10
MUPS.3468-039	4	100	M.16	150	130	M.12	3,30
MUPS.3468-040	5	125	M.16	150	158	M.12	3,30
MUPS.3468-041	6	150	M.20	150	188	M.16	4,70



MUPS

U Bolt'lu Boru Desteği Pipe Stanchion Saddle W/U Bolt

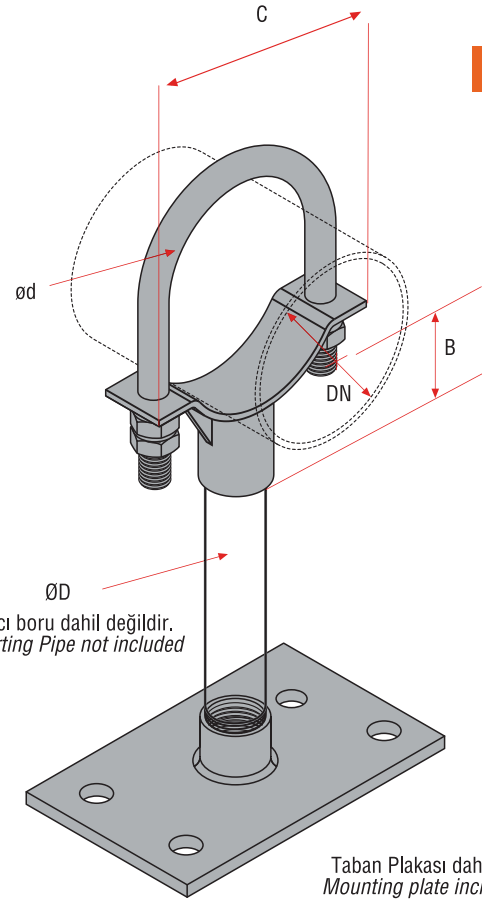
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Dikey ayarlama gerektiren boru hatlarının tabandan desteklenmesi için dizayn edilmiştir.
Buna ilaveten boruya U-Bolt montajı ile ek bir denge sağlanmış olur.
Stanchion type support where vertical adjustment is required, plus the additional stability provided by u-bolt attachment to pipe.

MAPS Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		Ø D inch	B mm	C mm	ød mm	Dizayn Yüğü Design Load kN
	inch.	mm					
MAPS.3468-036	2	50	1	86	74	M.10	4,20
MAPS.3468-037	2 1/2	65	1	94	88	M.10	4,20
MAPS.3468-038	3	80	1	100	106	M.12	4,20
MAPS.3468-039	4	100	1 1/2	115	130	M.12	5,80
MAPS.3468-040	5	125	1 1/2	125	158	M.12	5,80
MAPS.3468-041	6	150	1 1/2	144	188	M.16	10,20
MAPS.3468-042	8	200	2	170	240	M.16	10,20
MAPS.3468-043	10	250	2	199	294	M.16	16,00
MAPS.3468-044	12	300	2	224	344	M.16	16,00



MAPS

PU

İzolasyon Takozları Insulation Support

PU Poliüretan İzolasyon Takozu / Polyurethane Insulation Support

Yoğunluk / Min. Density	80 kg/m ³ *	100 kg/m ³	145 kg/m ³
Sıcaklık Dayanımı / Temperature Range	-45°C / +105°C		
Isıl İletkenlik / Thermal Conductivity	0,038 W/mK	0,042 W/mK	0,048 W/mK
Sıkma Dayanımı / Compressive Strength	600 kPa	1000 kPa	1500 kPa
Yangın Sınıfı / Fire Properties	DIN 4102 Class B2		
Su Buharı Difüzyon Dayanım Katsayısı Water Vapour Diffusion Resistance Coefficient	$\mu > 7.000$ ** / $\mu > 18.750$ ***		
*Standart üretim. Talebe göre farklı yoğunluklarda üretilebilir. / Standard production. If demanded, it can be produced at different densities.			
Kauçuk koruyucu bant için / For rubber protective tape	*Al-folyo koruyucu bant için / For al-foil protective tape		

CS

CS Kalsiyum Silikat İzolasyon Takozu / Calcium Silicate Insulation Support

Yoğunluk / Min. Density	220 kg/m ³
Sıcaklık Dayanımı / Temperature Range	+150°C / +650°C
Isıl İletkenlik / Thermal Conductivity	38°C - 0,058 W/mK 90°C - 0,059 W/mK 149°C - 0,065 W/mK 204°C - 0,072 W/mK 260°C - 0,079 W/mK 316°C - 0,086 W/mK 371°C - 0,094 W/mK
Sıkma Dayanımı / Compressive Strength	1.800 kPa
Yangın Sınıfı / Fire Properties	BS476 Part 7 Class1
Su Buharı Difüzyon Dayanım Katsayısı Water Vapour Diffusion Resistance Coefficient	$\mu > 18.750$ ***

Poliüretan İzolasyon Takoza Polyurethane Insulation Support

Malzeme / Material : Poliüretan / Polyurethane

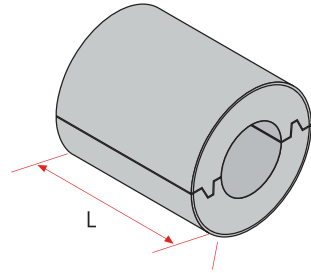
Standart Kaplama / Standard Finish : Kauçuk koruyucu bant / Rubber protection belt

Hizmet / Service: Soğuk hatlarda kullanılan boruları ses ve ısı izolatörü olarak desteklemesi için dizayn edilmiştir.

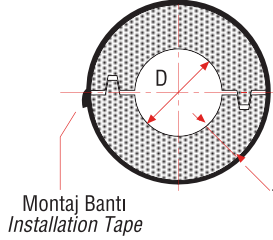
Designed for supporting cold pipes as a sound and heat isolator.

Koruma sacı (SPAT) bkz. Sf: 67 ve İzolasyon askı Takoza Kelepçesi (DN5L / PSDA) bkz.Sf: 64 ile kullanımı tavsiye edilir.

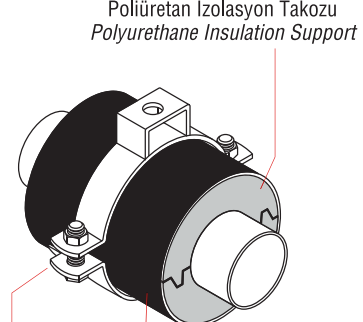
Recommended to use with protection sheet (SPAT) Sf: 67 and Insulation Insulation support clamp (DN5L / PSDA) see page 64.



3/8" - 8" Kauçuk / 10" ≤ AL-Folyo Koruyucu Bant
Rubber Protection Cover



Montaj Bantı
Installation Tape



3/8" - 8" Kauçuk / 10" ≤ AL-Folyo Koruyucu Bant
Rubber Protection Cover

Kelepçe dahil değildir
Hanger not included

PAT A (PU) Ölçüler / Dimensions

Boru Ölçüsü Pipe Size		t: 13mm		t: 20mm		t: 30mm		t: 40mm		t: 50mm	
İnch/mm	D (mm)	Kode/Code	L (mm)	Kode/Code	L (mm)	Kode/Code	L (mm)	Kode/Cod	L (mm)	Kode/Code	L (mm)
3/8	15	01005013	50	01005020	50	01005030	50	01005040	50	-	-
1/2	22	01505013	50	01505020	50	01505030	50	01505040	50	-	-
3/4	27	02005013	50	02005020	50	02005030	50	02005040	50	-	-
1	34	02505013	50	02505020	50	02505030	50	02505040	50	-	-
1 1/4	43	03205013	50	03205020	50	03205030	50	03205040	50	-	-
1 1/2	49	04005013	50	04005020	50	04005030	50	04005040	50	-	-
2	61	05005013	50	05005020	50	05005030	50	05005040	50	-	-
2 1/2	77	06505013	50	06505020	50	06505030	50	06505040	50	-	-
3	90	-	-	08005020	50	08005030	50	08005040	50	-	-
4	115	-	-	10010020	100	10010030	100	10010040	100	10010050	100
5	145	-	-	-	-	12510030	100	12510040	100	12510050	100
6	170	-	-	-	-	15010030	100	15010040	100	15010050	100
8	222	-	-	-	-	20010030	100	20010040	100	20010050	100
10	275	-	-	-	-	-	-	-	-	25010050	100
12	326	-	-	-	-	-	-	-	-	30010050	100
14	370	-	-	-	-	-	-	-	-	35010050	100
16	410	-	-	-	-	-	-	-	-	40010050	100
18	450	-	-	-	-	-	-	-	-	45010050	100

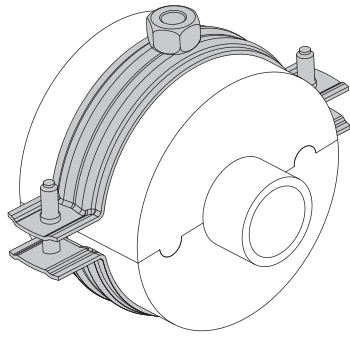
İzolasyon Takozu Askı Keleççeleri Insulation Support Clamp

Malzeme / Material :
Çelik / Steel

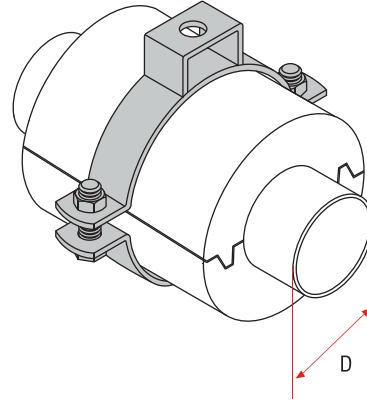
Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
izolasyon takozları veya şeritleri ile beraber kullanılmak üzere tasarlanmıştır.
Designed to used insulation supports or strips.

DN5L



PSDA



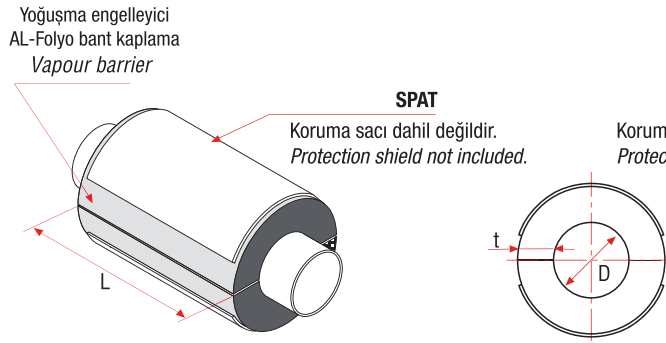
Boru Ölçüsü Pipe Size		t: 13mm		t: 20mm		t: 30mm		t: 40mm		t: 50mm	
İnch/mm	D (mm)	Kod/Code	Tip / Type	Kod/Code	Tip / Type	Kod/Code	Tip / Type	Kod/Cod	Tip / Type	Kod/Code	Tip / Type
3/8	15	5031	DN5L	5059	DN5L	5066	DN5L	5084	DN5L	-	-
1/2	22	5045	DN5L	5059	DN5L	5075	DN5L	5093	DN5L	-	-
3/4	27	5045	DN5L	5059	DN5L	5084	DN5L	5093	DN5L	-	-
1	34	5059	DN5L	5075	DN5L	5084	DN5L	5110	DN5L	-	-
1 1/4	43	5059	DN5L	5075	DN5L	5093	DN5L	5110	DN5L	-	-
1 1/2	49	5075	DN5L	5084	DN5L	5093	DN5L	5119	DN5L	-	-
2	61	5075	DN5L	5093	DN5L	5110	DN5L	5137	DN5L	-	-
2 1/2	77	5093	DN5L	5110	DN5L	5119	DN5L	5155	DN5L	-	-
3	90	-	-	5119	DN5L	5137	DN5L	5163	DN5L	-	-
4	115	-	-	5155	DN5L	5163	DN5L	5185	DN5L	5197	DN5L
5	145	-	-	-	-	5197	DN5L	5207	DN5L	5207	DN5L
6	170	-	-	-	-	5207	DN5L	5246	DN5L	5255	DN5L
8	222	-	-	-	-	20030	PSDA	20040	PSDA	20050	PSDA
10	275	-	-	-	-	-	-	-	-	25050	PSDA
12	326	-	-	-	-	-	-	-	-	30050	PSDA
14	370	-	-	-	-	-	-	-	-	35050	PSDA
16	410	-	-	-	-	-	-	-	-	40050	PSDA
18	450	-	-	-	-	-	-	-	-	45050	PSDA

Kalsiyum Silikat İzolasyon Takozu Calcium Silicate Insulation Support

Malzeme / Material
Kalsiyum Silikat / Calcium Silicate

Standart Kaplama / Standard Finish :
Yoğuşma engelleyici AL-Folyo bant kaplama
Vapour barrier

Hizmet / Service:
Sıcak hatlarda kullanılan boruların ses ve ısı izolatörü olarak desteklemesi için dizayn edilmiştir.
Designed for supporting hot pipes as a sound and heat isolator.
Koruma sacı (SPAT) bkz. Sf:67 ile kullanımı tavsiye edilir.
Recommended to use with protection sheet (SPAT) Sf: 67.



PAT C (CS) Ölçüler / Dimensions

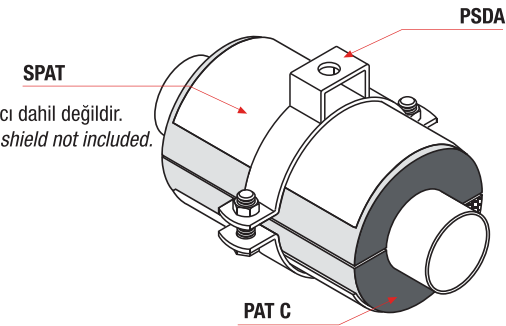
Boru Ölçüsü Pipe Size		t: 25mm		t: 50mm	
inch/mm	D (mm)	Kod/Code	L (mm)	Kod/Code	L (mm)
1/2	22	015025060	50	015050060	50
3/4	27	020025060	50	020050060	50
1	34	025025060	50	025050060	50
1 1/4	43	032025060	50	032050060	50
1 1/2	49	040025060	50	040050060	50
2	61	050025060	50	050050060	50
2 1/2	77	065025060	50	065050060	50
3	90	080025060	50	080050060	50
4	115	100025060	100	100050060	100
5	145	125025060	100	125050060	100
6	170	150025060	100	150050060	100
8	222	200025060	100	200050060	100
10	275	250025060	100	250050060	100
12	326	300025060	100	300050060	100
14	370	350025060	100	350050060	100
16	410	400025060	100	400050060	100
18	450	450025060	100	450050060	100

İzolasyon Takozu Askı Kelepçeleri Insulation Support Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Kalsiyum Silikat izolasyon takozları
veya şeritleri ile beraber kullanılmak üzere tasarlanmıştır.
Designed to used with calcium silicate insulation supports or strips.



PSDA Ölçüler / Dimensions

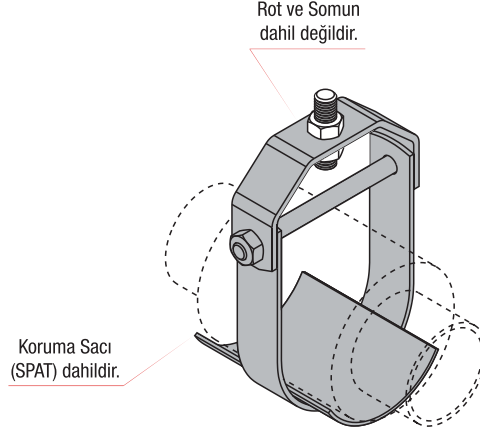
Boru Ölçüsü Pipe Size		t: 25mm		t: 50mm	
inch/mm	D (mm)	Kod/Code	Tip / Type	Kod/Code	Tip / Type
1/2	22	01525	PSDA	01550	PSDA
3/4	27	02025	PSDA	02050	PSDA
1	34	02525	PSDA	02550	PSDA
1 1/4	43	03225	PSDA	03250	PSDA
1 1/2	49	04025	PSDA	04050	PSDA
2	61	05025	PSDA	05050	PSDA
2 1/2	77	06525	PSDA	06550	PSDA
3	90	08025	PSDA	08050	PSDA
4	115	10025	PSDA	10050	PSDA
5	145	12525	PSDA	12550	PSDA
6	170	15025	PSDA	15050	PSDA
8	222	20025	PSDA	20050	PSDA
10	275	25025	PSDA	25050	PSDA
12	326	30025	PSDA	30050	PSDA
14	370	35025	PSDA	35050	PSDA
16	410	40025	PSDA	40050	PSDA
18	450	45025	PSDA	45050	PSDA

İzolasyon Takozu Askı Kelepçeleri Insulation Support Clamp

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Poliüretan ve Kalsiyum Silikat izolasyon takozları veya şeritleri ile beraber kullanılmak üzere tasarlanmıştır.
Designed to used with polyurethane and calcium silicate insulation supports or strips.



Ölçüler / Dimensions

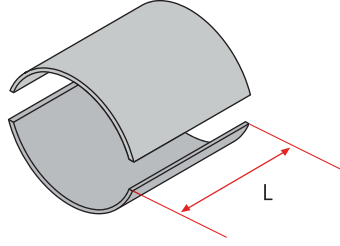
Boru Ölçüsü Pipe Size			İzolasyon Malzemesi / Insulation Materials																			
			Poliüretan Polyurethane						Kalsiyum Silikat Calcium Silicate						Poliüretan Polyurethane						Poliüretan Polyurethane veya / or Kalsiyum Silikat Calcium Silicate	
			İzolasyon Kalınlığı / Insulation Thickness																			
			13 mm			20 mm			25 mm			30 mm			40 mm			50 mm				
inch.	mm	D	Kod Code	Tip Type	Dizayn Yükü Design Load kN	Kod Code	Tip Type	Dizayn Yükü Design Load kN	Kod Code	Tip Type	Dizayn Yükü Design Load kN	Kod Code	Tip Type	Dizayn Yükü Design Load kN	Kod Code	Tip Type	Dizayn Yükü Design Load kN	Kod Code	Tip Type	Dizayn Yükü Design Load kN		
3/8	10	15	01013	PSDB	2,27	01020	PSDB	2,27	01025	PSDB	2,27	01030	PSDB	2,27	01040	PSDB	2,27	01050	PSDB	2,27		
1/2	15	22	01513	PSDB	2,27	01520	PSDB	2,27	01525	PSDB	2,27	01530	PSDB	2,27	01540	PSDB	2,27	01550	PSDB	2,27		
3/4	20	27	02013	PSDB	2,27	02020	PSDB	2,27	02025	PSDB	2,27	02030	PSDB	2,27	02040	PSDB	2,27	02050	PSDB	2,27		
1	25	34	02513	PSDB	2,27	02520	PSDB	2,27	02525	PSDB	2,27	02530	PSDB	2,27	02540	PSDB	2,27	02550	PSDB	2,27		
1 1/4	32	43	03213	PSDB	2,27	03220	PSDB	2,27	03225	PSDB	2,27	03230	PSDB	2,27	03240	PSDB	2,27	03250	PSDB	2,27		
1 1/2	40	49	04013	PSDB	2,27	04020	PSDB	2,27	04025	PSDB	2,27	04030	PSDB	2,27	04040	PSDB	2,27	04050	PSDB	3,30		
2	50	61	05013	PSDB	2,27	05020	PSDB	2,27	05025	PSDB	3,30	05030	PSDB	3,30	05040	PSDB	3,30	05050	PSDB	3,30		
2 1/2	65	77	06513	PSDB	3,30	06520	PSDB	3,30	06525	PSDB	3,30	06530	PSDB	3,30	06540	PSDB	3,30	06550	PSDB	4,80		
3	80	90	-	-	-	08020	PSDB	3,30	08025	PSDB	3,30	08030	PSDB	3,30	08040	PSDB	3,30	08050	PSDB	4,80		
4	100	115	-	-	-	10020	PSDB	3,30	10025	PSDB	4,80	10030	PSDB	4,80	10040	PSDB	4,80	10050	PSDB	4,80		
5	125	145	-	-	-	-	-	-	12525	PSDB	4,80	12530	PSDB	4,80	12540	PSDB	4,80	12550	PSDB	4,80		
6	150	170	-	-	-	-	-	-	15025	PSDB	4,80	15030	PSDB	4,80	15040	PSDB	4,80	15050	PSDB	4,80		
8	200	222	-	-	-	-	-	-	20025	PSDB	7,65	20030	PSDB	7,65	20040	PSDB	7,65	20050	PSDB	7,65		
10	250	275	-	-	-	-	-	-	25025	PSDB	7,65	-	-	-	-	-	-	25050	PSDB	7,65		
12	300	326	-	-	-	-	-	-	30025	PSDB	7,65	-	-	-	-	-	-	30050	PSDB	7,65		
14	350	370	-	-	-	-	-	-	35025	PSDB	10,20	-	-	-	-	-	-	35050	PSDB	10,20		
16	400	410	-	-	-	-	-	-	40025	PSDB	10,20	-	-	-	-	-	-	40050	PSDB	10,20		
18	450	450	-	-	-	-	-	-	45025	PSDB	12,40	-	-	-	-	-	-	45050	PSDB	12,40		

SPAT

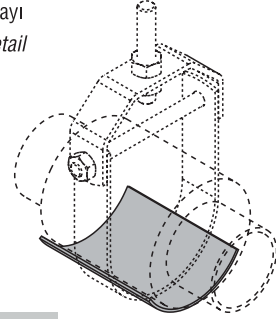
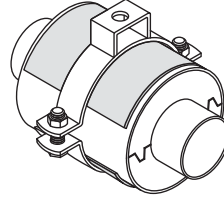
Koruyucu Plaka Protection Shield

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Senzimir



Uygulama detayı
Application detail



SPAT Ölçüler / Dimensions

Boru Ölçüsü Pipe Size		İzolasyon Kalınlığı / Insulation Thickness							
		t: 25mm		t: 30mm		t: 40mm		t: 50mm	
İnch/mm	D (mm)	Kode/Code	L (mm)	Kode/Code	L (mm)	Kode/Code	L (mm)	Kode/Cod	L (mm)
4	115	2504080	80	3004080	80	4004080	80	5004080	80
5	145	2505080	80	3005080	80	4005080	80	5005080	80
6	170	2506080	80	3006080	80	4006080	80	5006080	80
8	222	2508080	80	3008080	80	4008080	80	5008080	80
10	275	2510080	80	-	-	-	-	5010080	80
12	326	2512080	80	-	-	-	-	5012080	80
14	370	2514080	80	-	-	-	-	5014080	80
16	410	2516080	80	-	-	-	-	5016080	80
18	450	2518080	80	-	-	-	-	5018080	80

III

HKK

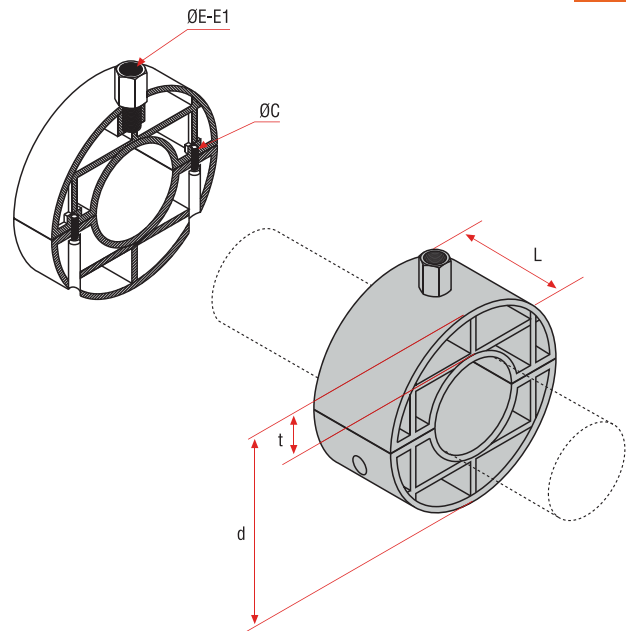
Hava Hücreli İzolasyon Askısı Air Cell Type Isolation hanger

Malzeme / Material :
Fiber Plastik / Fibresed Plastic

Hizmet / Service:
Soğuk boru hatlarında izolasyon takozu olarak dizayn edilmiştir.
Designed as isolation hanger for cold pipe lines.

HKK Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		L mm	t mm	dØ mm	E-E1 mm	ØC mm
	inch.	mm					
HKK.3078	1/2	15	40	25	72	M.8-10	M.5x20
HKK.3079	3/4	20	40	25	77	M.8-10	M.5x20
HKK.3080	1	25	40	25	84	M.8-10	M.5x20
HKK.3081	1 1/4	32	50	30	103	M.8-10-12	M.6x20
HKK.3082	1 1/2	40	50	30	109	M.8-10-12	M.6x20
HKK.3083	2	50	50	40	121	M.10-12-16	M.6x20
HKK.3084	2 1/2	65	50	40	137	M.10-12-16	M.6x20
HKK.3085	3	80	50	40	169	M.10-12-16	M.6x20
HKK.3086	4	100	60	40	195	M.12-16-18	M.6x20



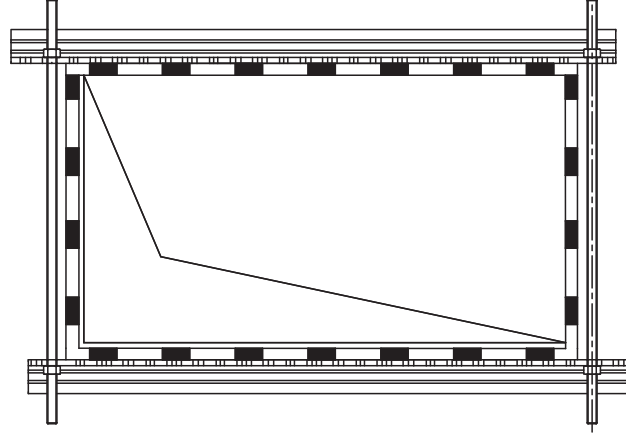
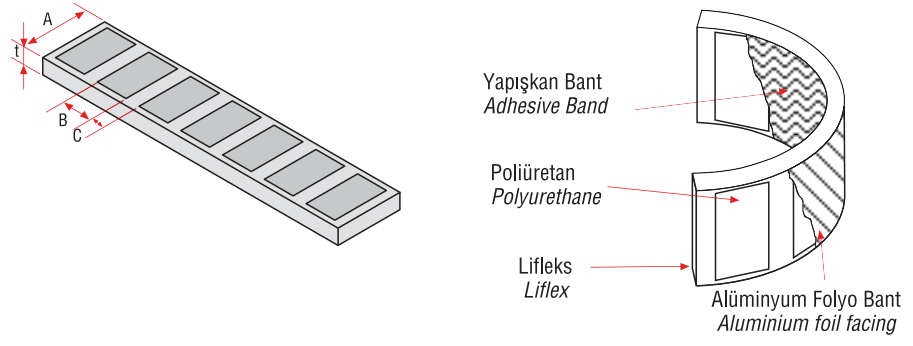
Hava Kanalı Desteği Air Ducts Support

Malzeme / Material
Lifleks ve Poliüretan
Liflex and Polyurethane

Hizmet / Service:
Yuvarlak ve prizmatik kanallarda izolasyon desteği olarak kullanılırlar.
They are used as insulation support for round and prismatic air ducts.

LADS Ölçüler / Dimensions

Kod Code	A mm	B mm	C mm	t mm	Mak. Dizayn Yüğü Max. Design Load kN
LADS.15013	50	35	30	13	1,25
LADS.15019	50	35	30	19	1,25
LADS.17513	75	55	35	13	2,40
LADS.17519	75	55	35	19	2,40



LADS

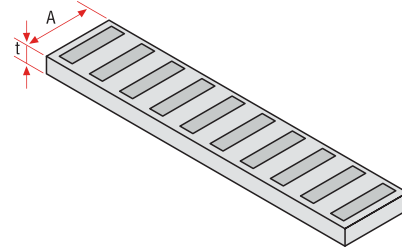
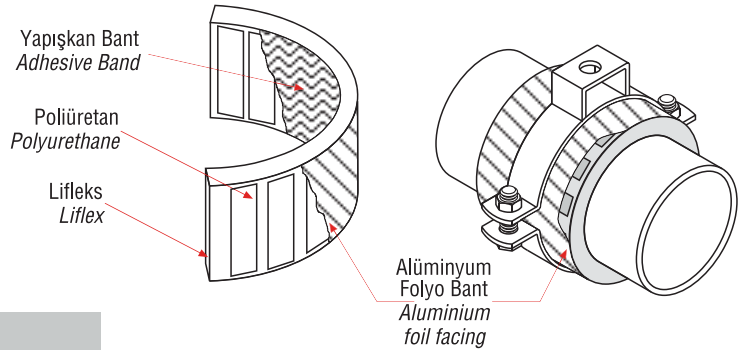
Kelepçe Desteği Clamps Support

Malzeme / Material :
Lifleks ve Poliüretan
Liflex and Polyurethane

Hizmet / Service:
Boru askı ve desteklerinde izolasyon desteği olarak kullanılırlar.
They are used as insulation support for pipe hangers or clamps.

LCCS Ölçüler / Dimensions

Kod Code	A mm	t mm	Mak. Dizayn Yüğü Max. Design Load kN	Min. Uygulanabilir Boru Çapı Min. Applicable Pipe Size
LCCS.25013	50	13	0,82	1/2"
LCCS.25019	50	19	0,82	1"
LCCS.75013	75	13	1,50	1"
LCCS.75019	75	19	1,50	1 1/2"



LCCS

İzolasyon Desteği Seçim Tablosu / Insulation Support Selection Table

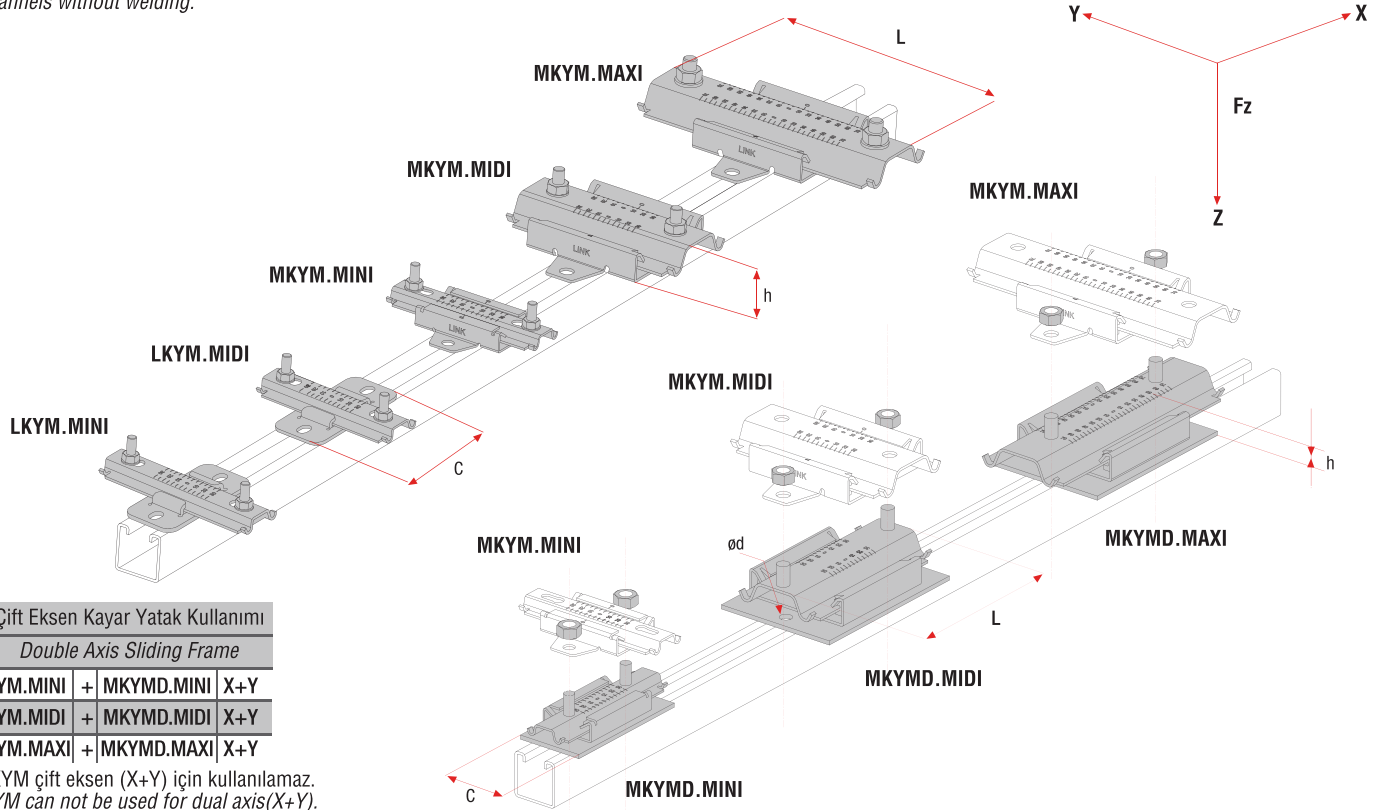
Prizmatik Kanallar Rectangular Ducts		Yuvarlak Kanallar Round Ducts		Boru Hatları Pipe Lines	
Kanal Ölçüsü Duct Sizes	LADS Genişliği Width of LADS	Kanal Ölçüsü Duct Sizes	LADS Genişliği Width of LADS	Boru Ölçüsü Pipe Sizes	LADS Genişliği Width of LADS
En Uzun Kenar Longest Side	<1000 mm	Çap Diameter	<450 mm	Çap Diameter	<4"
	50 mm		50 mm		50 mm
En Uzun Kenar Longest Side	>1000 mm	Çap Diameter	>450 mm	Çap Diameter	>4"
	75 mm		75 mm		75 mm

Kayar Yatak Sliding Frame

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Boruların 2 sabit nokta arasındaki ısı genleşmeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmıştır. Sistem bir yapı profiline kaynak yapmadan uygulanabilir.
Designed to support pipe between two fixed points by allowing longitudinal movement due to thermal expansion. Products can be applied to framing channels without welding.



Çift Eksen Kayar Yatak Kullanımı
Double Axis Sliding Frame

MKYM.MINI	+	MKYMD.MINI	X+Y
MKYM.MIDI	+	MKYMD.MIDI	X+Y
MKYM.MAXI	+	MKYMD.MAXI	X+Y

*LKYM çift eksen (X+Y) için kullanılamaz.
LKYM can not be used for dual axis(X+Y).

LKYM-MKYM-MKYMD

Ölçüler / Dimensions:

Kod Code	Boru Ölçüsü Pipe Size		C mm	h mm	ød mm	L mm	Max Dizayn Yüğü Max Design Load Fz - (N)	Çalışma Aralığı Travel Range mm
	Inch	mm						
LKYM MINI.3469	1/2 - 3	15-80	105	15	11	150	670	-52,5/0/+52,5
LKYM MIDI.3470	4 - 6	50-200	105	18	13	170	2600	-40/0/+40
MKYM MINI.3469	1/2 - 3	15-80	105	19	11	150	670	-27/0/+27
MKYM MIDI.3470	4 - 6	50-150	178	29	13	170	2600	-24/0/+24
MKYM MAXI.3471	8 - 10	65-200	178	29	13	240	7780	-59/0/+59
MKYMD MINI.3469	1/2 - 3	15-80	65	19	11	150	670	-27/0/+27
MKYMD MIDI.3470	4 - 6	50-150	120	29	13	170	2600	-24/0/+24
MKYMD MAXI.3471	8 - 10	65-200	120	29	13	240	7780	-59/0/+59

Sürtünme Katsayısı (μ)
Static Frictional Coefficient (μ)
LKYM : 0,30
MKYM : 0,20
MKYMD 0,30

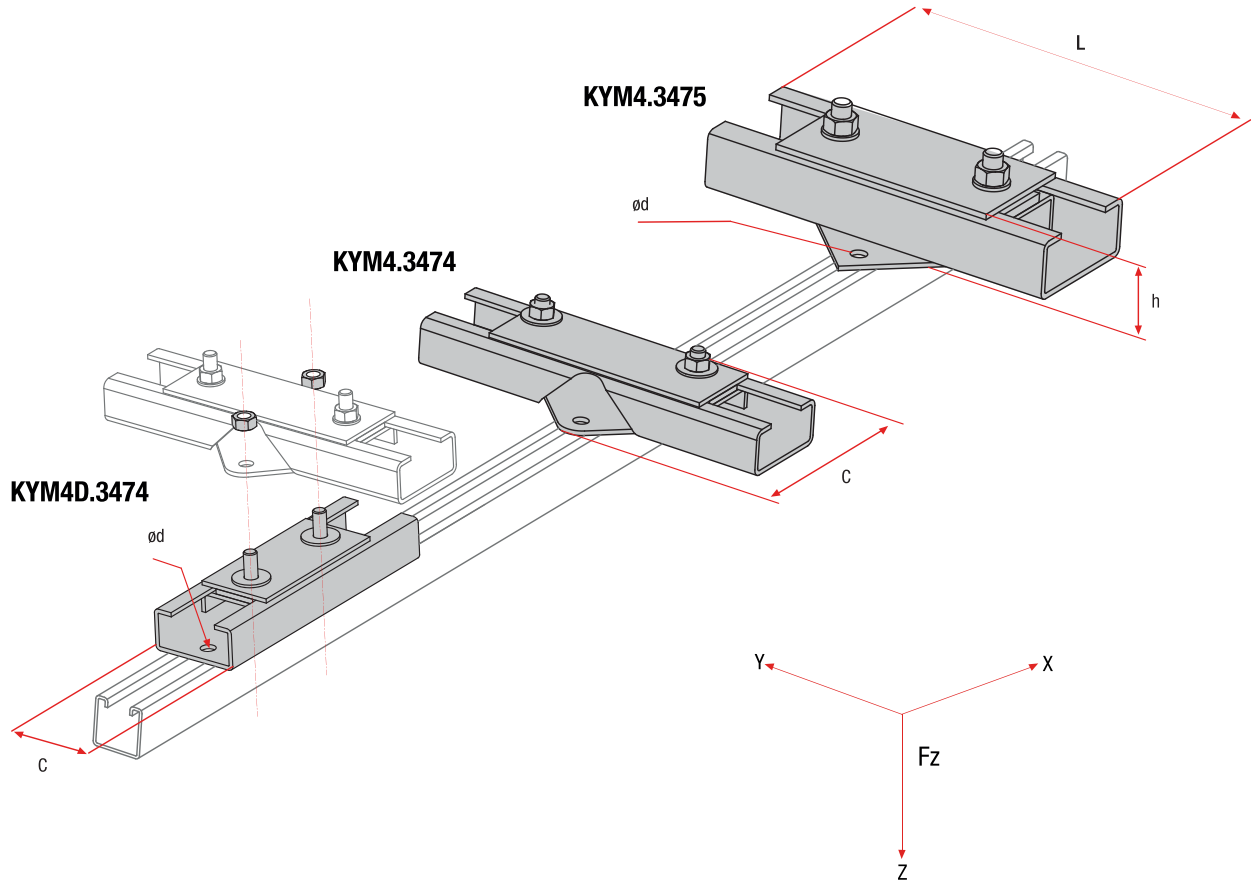
Kayar Yatak Sliding Frame

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Boruların 2 sabit nokta arasındaki ısı genleşmeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmıştır. Sistem bir yapı profiline kaynak yapmadan uygulanabilir.

Designed to support pipe between two fixed points by allowing longitudinal movement due to thermal expansion. Products can be applied to framing channels without welding.



KYM4 - KYM4D

Ölçüler / Dimensions

Kod/Code	Boru Ölçüsü Pipe Size		C	h	ød	L	Max Dizayn Yüğü Max Design Load Fz - (N)	Çalışma Aralığı Travel Range mm
	Inch	mm						
KYM4.3474	10 - 14	250-350	139	45	13	270	11332	0 - 120
KYM4.3475	16 - 18	400-450	212	60	18	320	17196	0 - 120
KYM4D.3474	10 - 14	250-350	84	45	14	270	11332	0 - 120

Sürtünme Katsayısı (μ)
Static Frictional Coefficient (μ)
KYM4 : 0,30
KYM4D : 0,30

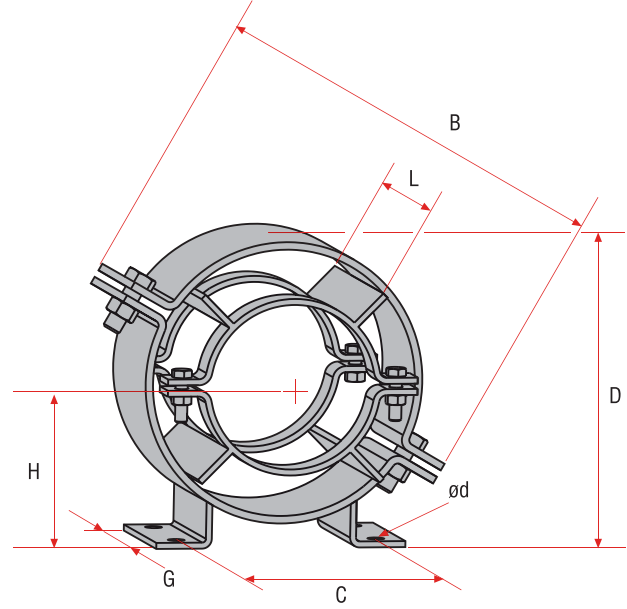
*Çift eksen (X+Y) için KYM4.3474 ve KYMD.3474 birlikte kullanılmalıdır. KYM4.3475 çift eksen için kullanılmaz.
For double axis (X+Y) KYM4.3474 and KYMD.3474 must be used together. KYM4.3475 is not used for double axis.

Boru Hizalama Kılavuzu Pipe Alignment Guide

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
İzolasyonlu veya izolasyonsuz ısı genleşmeli borularda, kompensatörün veya Omegaların izin verdiği yönde borunun ekseninde kayması için dizayn edilmiştir.
Designed for use in directing thermal expansion of insulated or non-insulated in the direction permitted by expansion joint or loops.

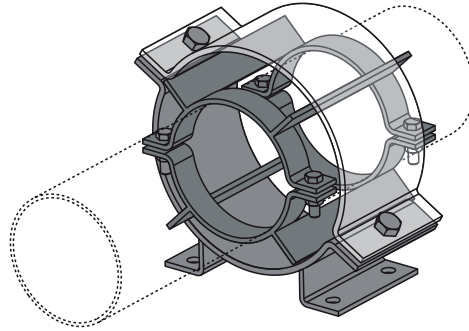


SPD Ölçüler / Dimensions

Kod Code	Kılavuz Ölçüsü Size No	ød mm	G mm	H mm	B mm	L mm	D mm	C mm
SPD.001	1	15	100	80	175	200	135	177
SPD.002	2	15	100	90	225	230	160	210
SPD.003	3	15	100	100	250	250	185	220
SPD.004	4	15	100	125	315	250	236	240
SPD.005	5	18	150	160	370	300	300	240
SPD.006	6	18	150	185	425	300	346	255
SPD.007	7	21	200	220	480	300	400	300
SPD.008	8	21	200	240	550	300	455	310
SPD.009	9	21	200	270	600	300	510	335
SPD.010	10	23	200	295	650	300	560	410
SPD.011	11	23	200	320	700	300	610	425
SPD.012	12	25	200	350	770	300	675	455
SPD.013	13	25	200	400	870	300	775	465

Kılavuz Seçim Tablosu Spider Selection Chart

Boru Ölçüsü Pip Size	İzolasyon Kalınlığı Insulation Thickness				
	25 mm	40 mm	50 mm	80 mm	100 mm
3/4	1	2	3	4	5
1	1	2	3	4	5
1 1/2	2	3	4	5	6
1 1/2	2	3	4	5	6
2	2	3	4	5	6
2 1/2	3	4	4	5	6
3	4	4	5	6	7
4	4	5	5	6	7
5	5	5	6	7	8
6	5	6	6	7	8
8	-	7	7	8	9
10	-	8	8	9	10
12	-	9	9	10	11
14	-	-	10	11	12
16	-	-	11	12	12
18	-	-	-	12	13
20	-	-	-	13	13



EKY1

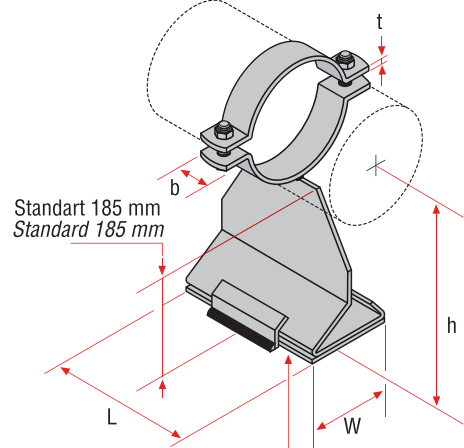
Endüstriyel Tip Kayar Yatak – DN15-40 Industrial Type Sliding Frame DN15-40

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
Endüstriyel tesislerdeki boruların desteklenmesi için dizayn edilmiştir
Designed for supporting of pipe work in industry.

Teflon Havuzu ile kullanılması tavsiye edilir. Bkz. Sf: 75
It is recommended to use with Sliding Frame Pool. See. Sf: 75



EKY1 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		W mm	h mm	L mm	t mm	Kelepçe Çelik Ölçüsü Clamp Steel Size b x t mm	Takım Ağırlığı Unit Weight kg
	inch.	mm						
EKY1.3326	1/2	15	120	191	200	4	30 x 4	3,1
EKY1.3327	3/4	20	120	194	200	4	30 x 4	3,1
EKY1.3328	1	25	120	197	200	4	30 x 4	3,1
EKY1.3329	1 1/4	32	120	201	200	4	30 x 4	3,2
EKY1.3330	1 1/2	40	120	204	200	4	30 x 4	3,2

EKY2

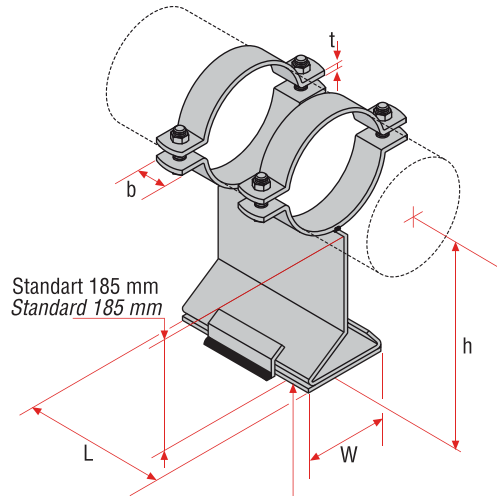
Endüstriyel Tip Kayar Yatak – DN50-80 Industrial Type Sliding Frame DN50-80

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
Endüstriyel tesislerdeki boruların desteklenmesi için dizayn edilmiştir
Designed for supporting of pipe work in industry.

Teflon Havuzu ile kullanılması tavsiye edilir. Bkz. Sf: 75
It is recommended to use with Sliding Frame Pool. See. Sf: 75



EKY2 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		W mm	h mm	L mm	t mm	Kelepçe Çelik Ölçüsü Clamp Steel Size b x t mm	Takım Ağırlığı Unit Weight kg
	inch.	mm						
EKY2.3331	2	50	120	210	200	5	40 x 5	3,8
EKY2.3332	2 1/2	65	120	218	200	5	40 x 5	3,9
EKY2.3333	3	80	120	225	200	5	40 x 5	4,0

Ağır Yük Endüstriyel Tip Kayar Yatak DN 100-500 Heavy duty Industrial Type Sliding Frame DN100-500

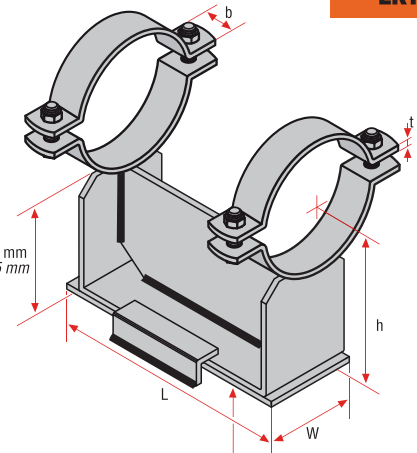
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
Endüstriyel tesislerdeki boruların desteklenmesi için dizayn edilmiştir
Designed for supporting of pipe work in industry.
Teflon Havuzu ile kullanılması tavsiye edilir. Bkz. Sf: 75
It is recommended to use with Sliding Frame Pool. See. Sf: 75

EKYA
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		Kelepçe Çelik Ölçüsü Clamp Steel Size				Takım Ağırlığı Unit Weight kg	
	inch.	mm	W mm	h mm	L mm	t mm		
EKYA.3334	4	100	120	237	200	8	50 x 5	9,2
EKYA.3335	5	125	120	250	200	8	50 x 5	9,4
EKYA.3336	6	150	120	264	200	8	50 x 5	9,8
EKYA.3337	8	200	120	290	200	8	50 x 5	11,6
EKYA.3338	10	250	140	317	250	8	60 x 8	15,0
EKYA.3339	12	300	140	342	250	8	60 x 8	17,8
EKYA.3340	14	350	140	358	250	8	60 x 8	19,8
EKYA.3341	16	400	200	383	300	10	70 x 10	33,0
EKYA.3342	18	450	200	409	300	10	70 x 10	35,5
EKYA.3343	20	500	200	434	300	10	70 x 10	38,0



Teflon Plaka Dahil Değildir.
Teflon Plate Not Included

Ağır Yük Endüstriyel Tip Kayar Yatak DN 600-1400 Heavy duty Industrial Type Sliding Frame DN 600-1400

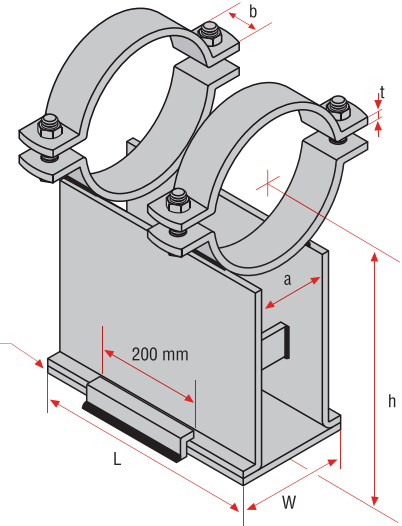
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
Endüstriyel tesislerdeki boruların desteklenmesi için dizayn edilmiştir
Designed for supporting of pipe work in industry.
Teflon Havuzu ile kullanılması tavsiye edilir. Bkz. Sf: 75
It is recommended to use with Sliding Frame Pool. See. Sf: 75

EKYA 2
Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		Kelepçe Çelik Ölçüsü Clamp Steel Size				Takım Ağırlığı Unit Weight kg	
	inch.	mm	a mm	W mm	h mm	L mm		
EKYA2.3250-001	24	600	300	500	485	500	70 x 10	58,1
EKYA2.3250-002	28	700	300	500	536	500	70 x 10	64,1
EKYA2.3250-003	32	800	300	500	586	500	80 x 12	81,1
EKYA2.3250-004	36	900	340	540	637	500	80 x 12	103,1
EKYA2.3250-005	40	1000	360	560	688	500	120 x 12	134,6
EKYA2.3250-006	48	1200	400	600	790	500	120 x 12	151,3
EKYA2.3250-007	56	1400	400	640	890	500	150 x 12	197,9



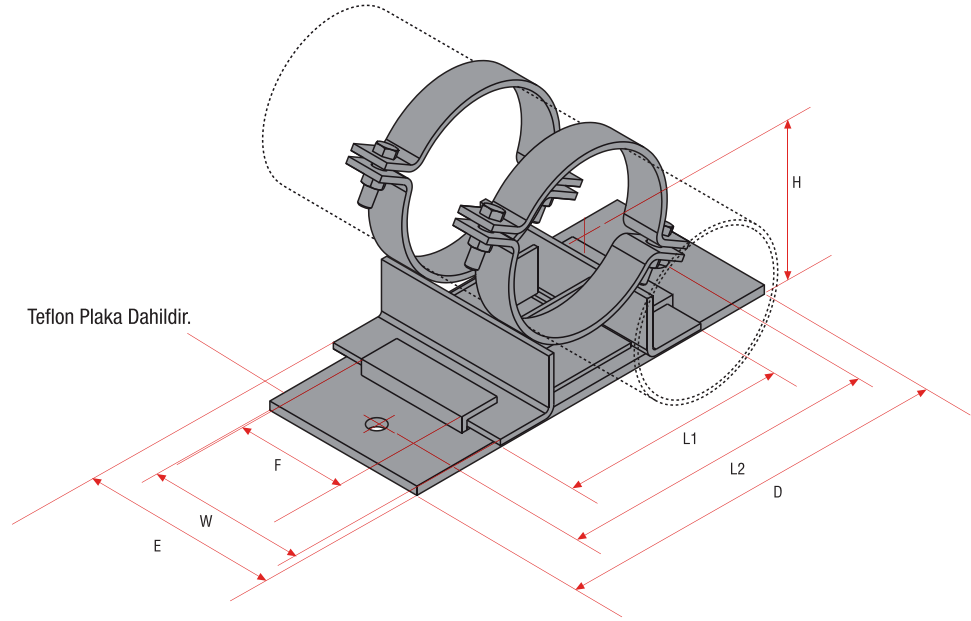
Teflon Plaka Dahil Değildir.
Teflon Plate Not Included

Ağır Yük Endüstriyel Tip Kayar Yatak DN 200-600 Heavy duty Industrial Type Sliding Frame DN200-600

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak daldırma galvaniz
Hot-Dip Galvanized

Hizmet / Service :
Endüstriyel tesislerdeki boruların desteklenmesi için dizayn edilmiştir
Designed for supporting of pipe work in industry.



EKYA3 Ölçüler / Dimensions

Kod Code	Boru Ölçüsü Pipe Size		W mm	E mm	F mm	L1 mm	L2 mm	D mm	H mm
	inch.	mm							
EKYA3.0200	8	200	160	250	100	300	420	520	220
EKYA3.0250	10	250	160	250	100	300	420	520	247
EKYA3.0300	12	300	160	250	100	300	420	520	272
EKYA3.0350	14	350	160	250	100	300	420	520	288
EKYA3.0400	16	400	200	350	140	400	520	620	318
EKYA3.0450	18	450	200	350	140	400	520	620	338
EKYA3.0500	20	500	200	350	140	400	520	620	364
EKYA3.0550	22	550	200	350	140	400	520	620	390
EKYA3.0600	24	600	240	500	160	500	620	720	415

Kayar Yatak Havuzu Sliding Frame Pool

Malzeme / Material:

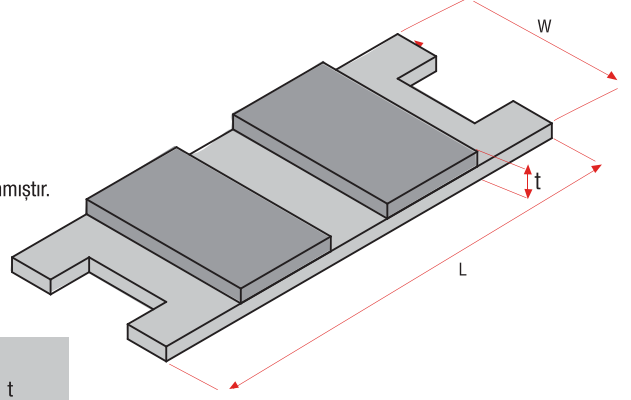
Teflon (PTFE) veya Grafit ve Çelik/Teflon (PTFE) or Graphite and Steel

Standart Kaplama / Standard Finish:

Sıcak Daldırma Galvaniz/Hot-Dip Galvanized

Hizmet / Service:

LINK Kayar yatak ve support arasındaki sürtünmeyi minimize etmek amacıyla kullanılmak üzere tasarlanmıştır.
It is designed to be used to minimize the friction between the LINK Sliding Frame and the support.



TH & GFH

Ölçüler / Dimensions

Boru Ölçüsü Pipe Size		Kayar Yatak Sliding Frame	Teflon	Grafit	W	L	t
Inch/mm	D (mm)	Kod/Code	Kod/Code	Kod/Code	(mm)	(mm)	(mm)
1/2	22	EKY1.3326	TH.121605	GFH.121605	120	160	10
3/4	27	EKY1.3327					10
1	34	EKY1.3328					10
1 1/4	43	EKY1.3329					10
1 1/2	49	EKY1.3330					10
2	61	EKY2.3331					10
2 1/2	77	EKY2.3332					10
3	90	EKY2.3333					10
4	115	EKYA.3334					10
5	145	EKYA.3335					10
6	170	EKYA.3336	10				
8	222	EKYA.3337	10				
10	275	EKYA.3338	TH.121805	GFH.121805	120	180	10
12	326	EKYA.3339					10
14	370	EKYA.3340					10
16	410	EKYA.3341	TH.122505	GFH.122505	120	250	10
18	450	EKYA.3342					10
20	500	EKYA.3343					10
24	600	EKYA2.3250-001	TH.125505	GFH.125505	120	550	10
28	700	EKYA2.3250-002					10
30	750	EKYA2.3250-003					10
32	800	EKYA2.3250-004					10
36	900	EKYA2.3250-005	TH.125905	GFH.125905	120	590	10
40	1000	EKYA2.3250-006	TH.126105	GFH.126105	120	610	10
48	1200	EKYA2.3250-007	TH.126505	GFH.126505	120	650	10
56	1400	EKYA2.3250-008	TH.126905	GFH.126905	120	690	10

Sürtünme Katsayısı
Static Frictional Coefficient (μ s)
Teflon (PTFE) - Çelik / Teflon - Steel : 0,10
Grafit-Çelik / Graphite-Steel : 0,15

Sabit Nokta Kelepçesi Anchor Clamp

Malzeme / Material :
Çelik / Steel

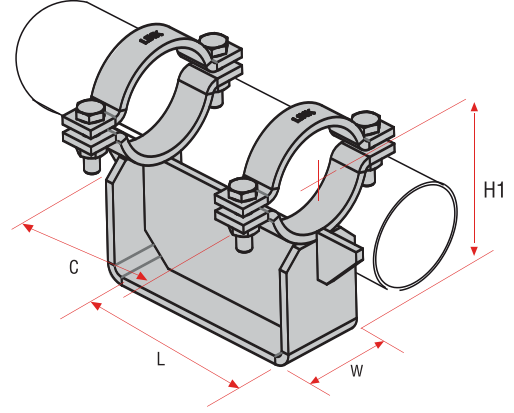
Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz/Hot-Dip Galvanized

Hizmet / Service :
Boru hatlarında; uzamalarda istenmeyen malzeme gerilmesini ve koç darbesinden kaynaklanan beklenmedik yer değiştirmeleri önlemek için dizayn edilmiştir.
Designed for protect piping at "changes-in-direction" from excessive bending stress and undesirable movement caused by water hammer.

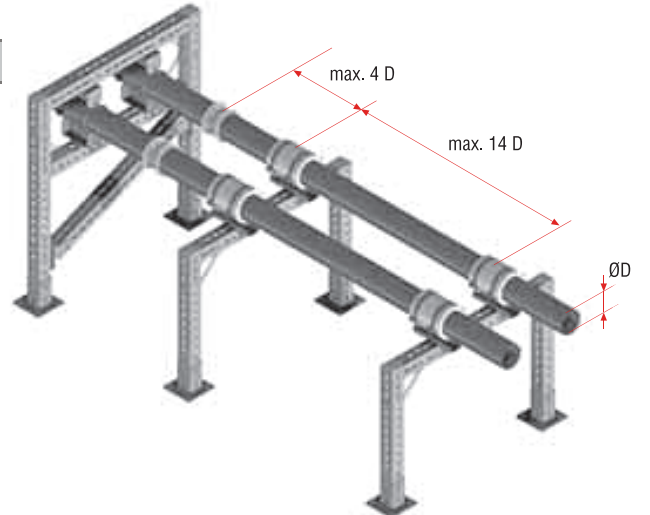
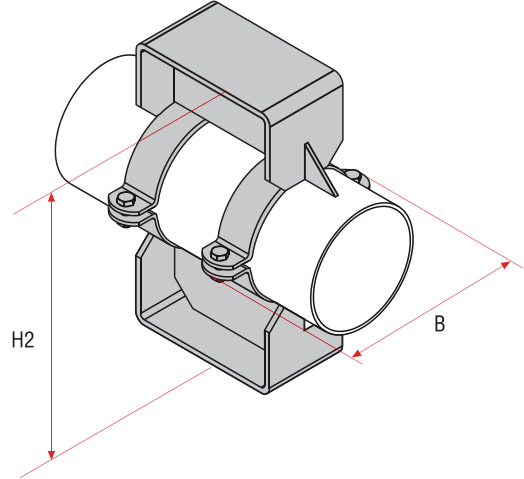
EFPA-EFPB
Ölçüler / Dimensions

Kod/Code	Boru Ölçüsü Pipe Size		L mm	B mm	C mm	W mm	H1 mm	H2 mm	Dizayn Yüğü Design Load kN
	Inch	mm							
EFPA.015	1/2	15	160	81	110	50	80	-	5,2
EFPA.020	3/4	20	160	87	110	50	80	-	5,2
EFPA.025	1	25	160	94	110	50	80	-	5,2
EFPA.032	1 1/4	32	160	102	110	50	80	-	5,2
EFPA.040	1 1/2	40	160	108	110	60	90	-	5,2
EFPA.050	2	50	160	120	110	60	90	-	7,1
EFPA.065	2 1/2	65	160	133	110	60	90	-	7,1
EFPA.080	3	80	160	149	110	60	90	-	7,1
EFPA.100	4	100	210	184	150	100	110	-	10,6
EFPA.125	5	125	210	211	130	100	110	-	10,6
EFPA.150	6	150	210	238,3	130	100	110	-	14,8
EFPB.200	8	200	270	319	170	150	110	439	30,8
EFPB.250	10	250	270	403	150	150	110	493	30,8
EFPB.300	12	300	320	463	180	250	150	623	57,4
EFPB.350	14	350	320	496	180	250	150	656	57,4
EFPB.400	16	400	320	567	180	250	150	623	73,0
EFPB.450	18	450	320	637	160	250	150	757	73,0
EFPB.500	20	500	320	708	160	250	150	808	73,0

EFPA



EFPB



Not:
Boru hatlarında kompensatörün aksenal çalışmasını sağlamak ve hattın burulmasını önlemek için kompensatörden sonraki ilk ve ikinci desteklerin 4D ve 14D kuralına uygun şekilde yerleştirilmesi gerekir.

Note :
For the first and second support keep "4D and 14D" rules to prevent buckling of the line and to insure proper application of movement to the expansion joint.

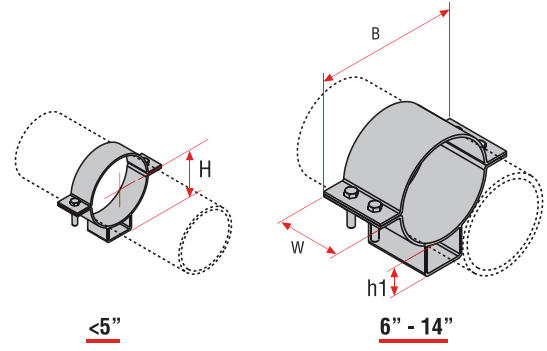
Sabit Nokta Kelepçesi Anchor Clamp

SDFP

Malzeme / Material :
Çelik / Steel

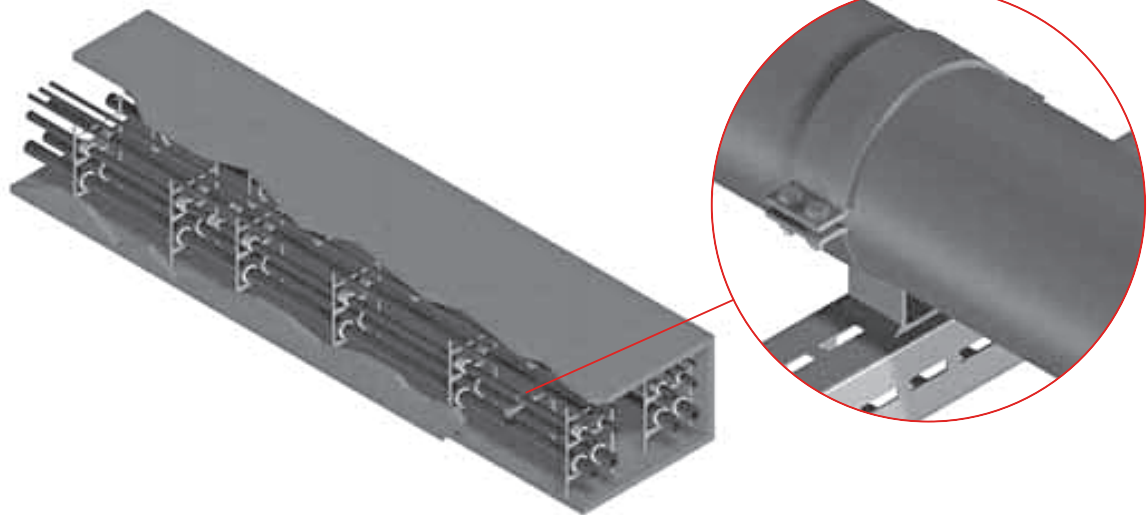
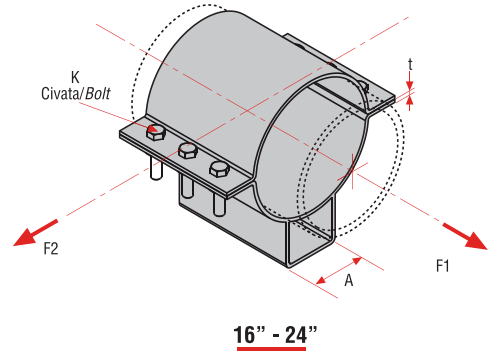
Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz/Hot-Dip Galvanized

Hizmet / Service :
Boru hatlarında; uzamalarda istenmeyen malzeme gerilmesini ve koç darbesinden kaynaklanan beklenmedik yer değiştirmeleri önlemek için dizayn edilmiştir.
Designed for protect piping at "changes-in-direction" from excessive bending stress and undesirable movement caused by water hammer.



SDFP Ölçüler / Dimensions

Kod/Code	Boru Ölçüsü Pipe Size		A mm	B mm	W mm	H mm	H1 mm	t mm	Dizayn Yüğü Design Load kN		
	Inch	mm							k mm	F1 kN	F2 kN
SDFP.0050	2	50	55	120	40	64	38	5	M.10	3,8	2,5
SDFP.0065	2 1/2	65	55	147	40	72	38	5	M.10	3,8	2,5
SDFP.0080	3	80	55	167	40	81	38	5	M.10	3,8	2,5
SDFP.0100	4	100	58	209	50	110	52	6	M.12	5,6	3,1
SDFP.0125	5	125	58	235	50	123	52	6	M.12	5,6	3,1
SDFP.0150	6	150	80	263	70	141	60	6	M.12	6,4	3,6
SDFP.0200	8	200	80	328	70	168	60	6	M.12	6,4	3,6
SDFP.0250	10	250	100	393	100	216	80	8	M.16	8,8	4,2
SDFP.0300	12	300	100	444	100	243	80	8	M.16	8,8	4,2
SDFP.0350	14	350	100	476	100	259	80	8	M.16	8,8	4,2
SDFP.0400	16	400	120	546	160	305	100	10	M.16	16,1	8,3
SDFP.0450	18	450	120	597	160	330	100	10	M.16	16,1	8,3
SDFP.0500	20	500	140	688	160	367	110	12	M.20	20,8	16,4
SDFP.0550	22	450	140	739	200	393	110	12	M.20	20,8	16,4
SDFP.0600	24	500	140	790	200	419	110	1208	M.20	20,8	16,4

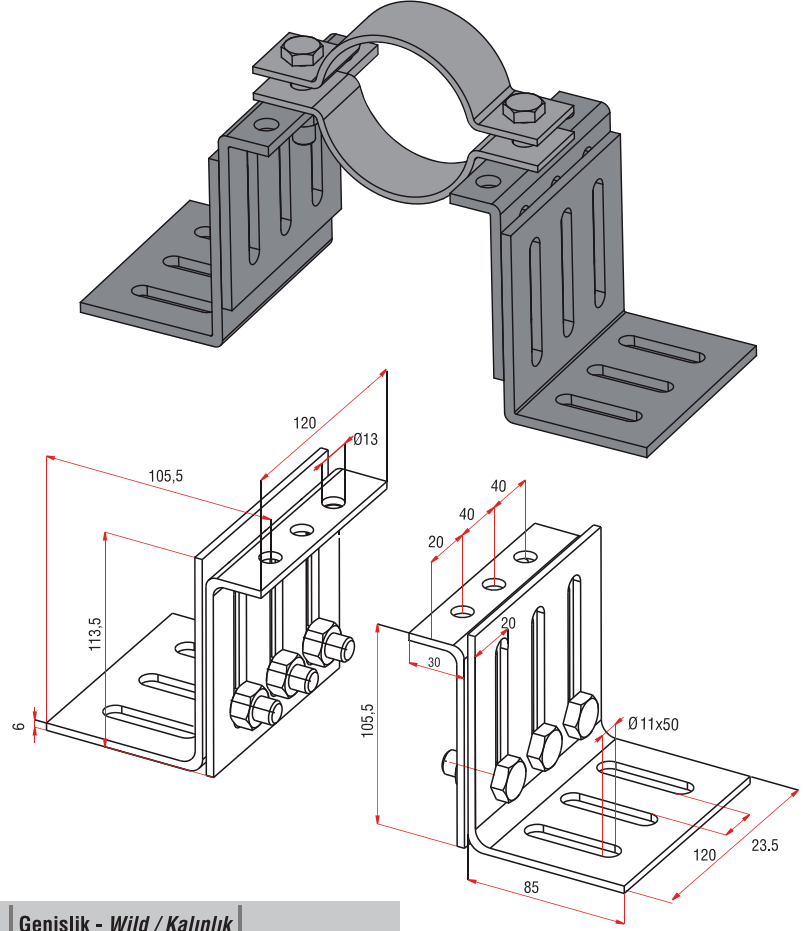


Ayarlanabilir Askı Kelepçesi Adjustable Support Clamp

Malzeme / Material :
Çelik / Steel

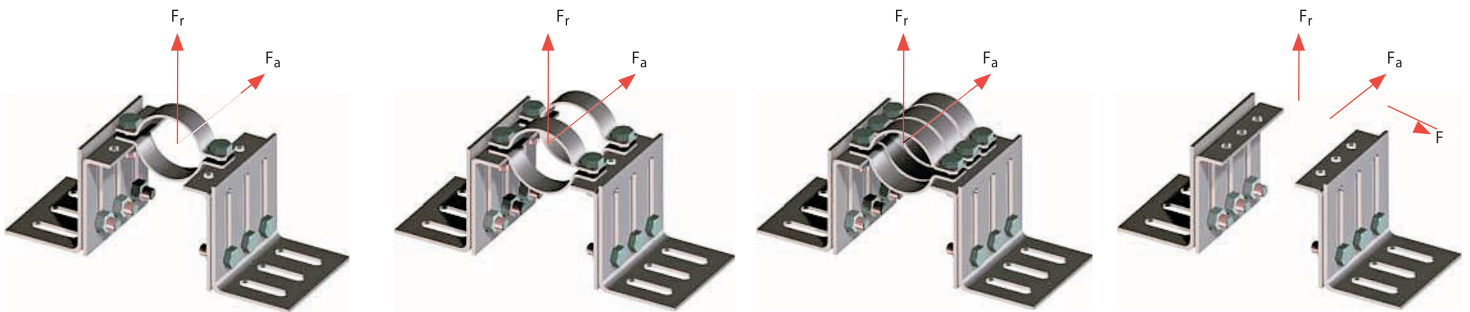
Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz/Hot-Dip Galvanized

Hizmet / Service :
Boru hatlarında; uzamalarda istenmeyen malzeme gerilmesini ve koç darbesinden kaynaklanan beklenmedik yer değiştirmeleri önlemek için dizayn edilmiştir.
Designer for prospect piping at "changes-in-director" from excessive bending stress and undesirable movement caused by hammer.



DDNL Ölçüler / Dimensions

Kod Code	inch.	mm	Ölçü / Metric Size	Genişlik - Wild / Kalınlık - Thickness Bant Genişliği - Clamp Band (bxS)	Sıkma Aralığı Clamp Range
0111.1.DDNL.3003	2"	137	M.10	40 x 4	56 - 61
0111.1.DDNL.3004	2 1/2"	156	M.10	40 x 4	75 - 80
0111.1.DDNL.3005	3"	170	M.10	40 x 4	88 - 93
0111.1.DDNL.3006	4"	191	M.10	40 x 4	108 - 115
0111.1.DDNL.3007	5"	217	M.10	40 x 4	133 - 140
0111.1.DDNL.3008	6"	250	M.12	40 x 4	167 - 172
0111.1.DDNL.3009	8"	303	M.12	40 x 4	219 - 225
0111.1.DDNL.3010	10"	351	M.12	40 x 4	267 - 274
0111.1.ADK.1001	----	----	----	----	----

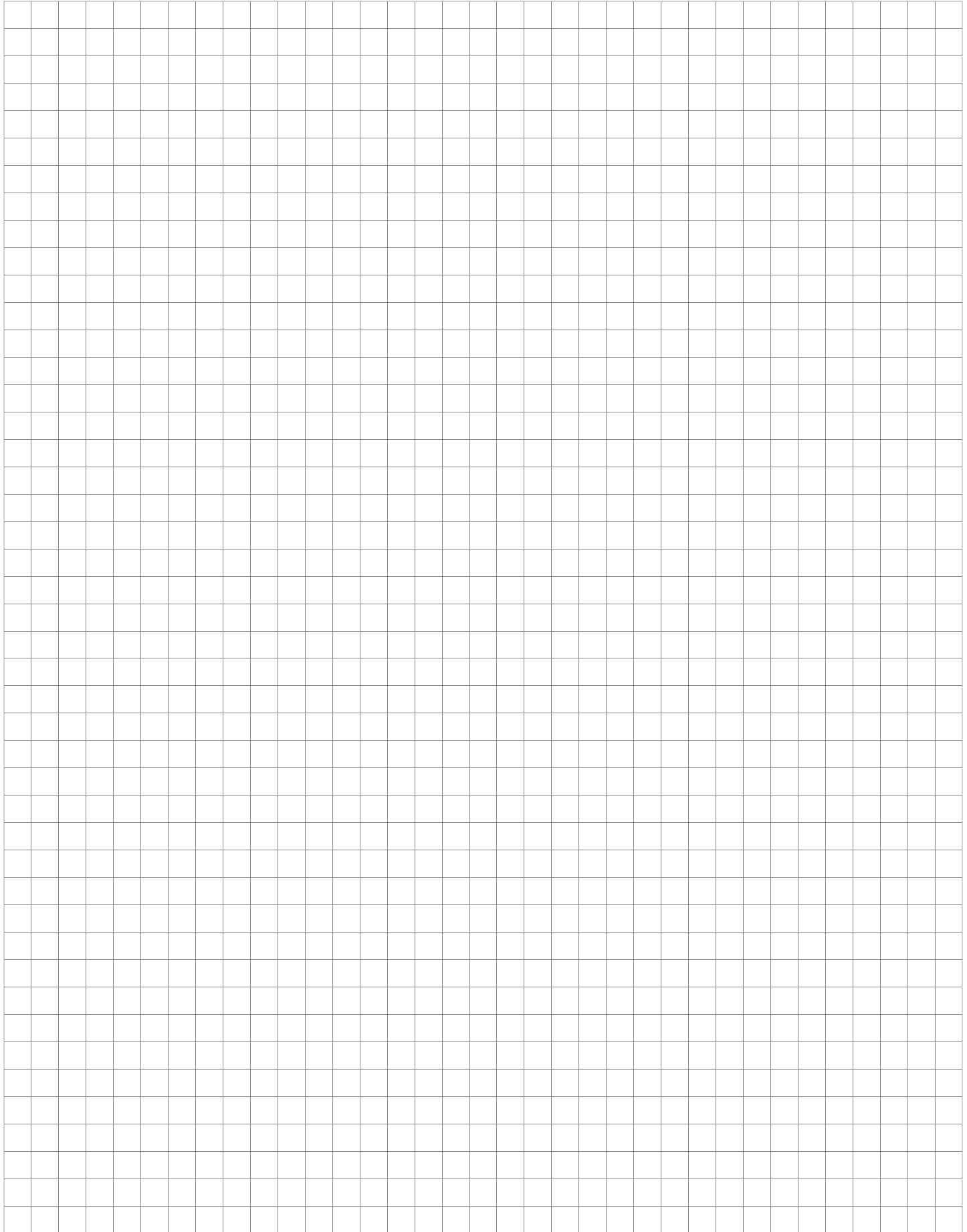


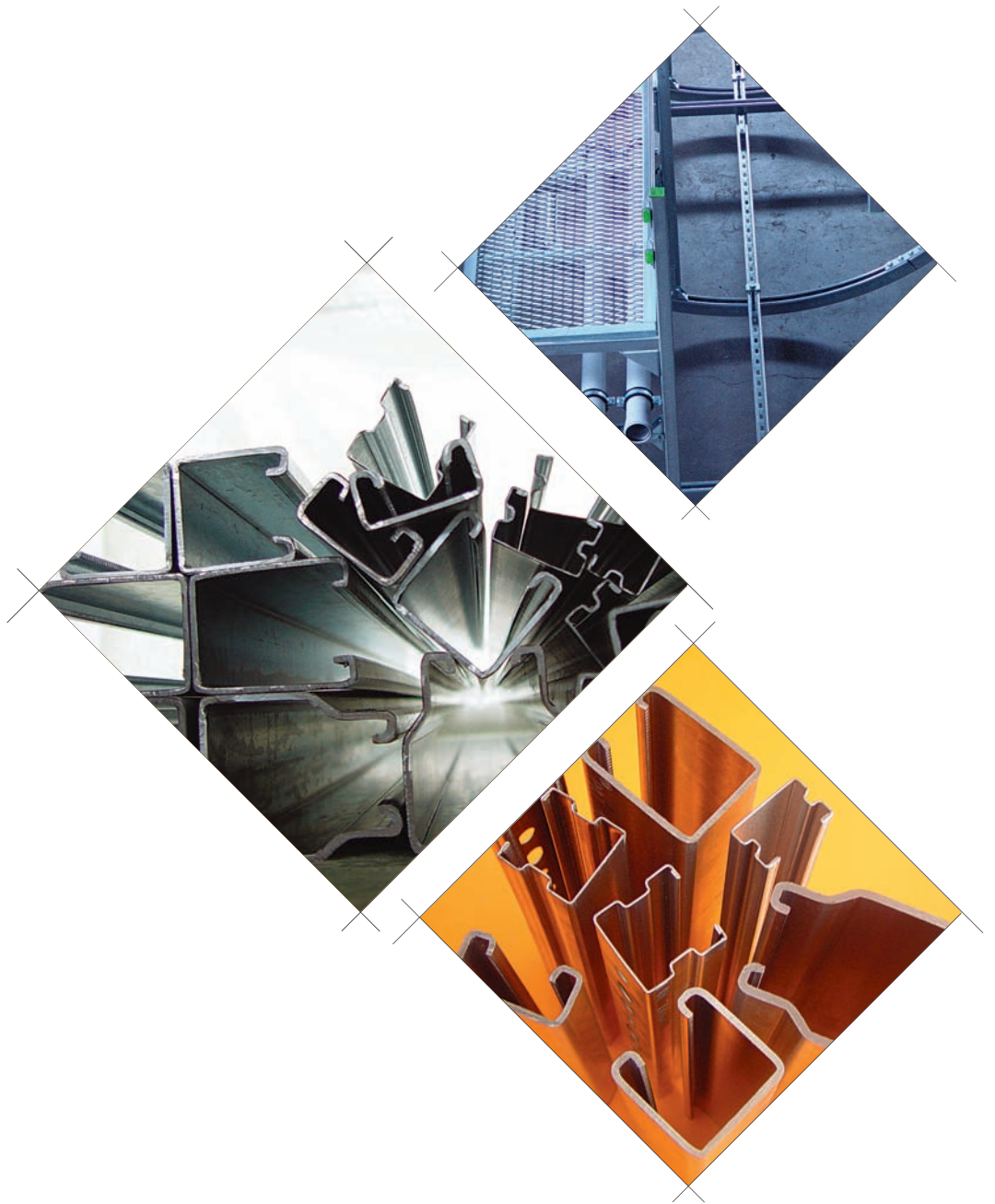
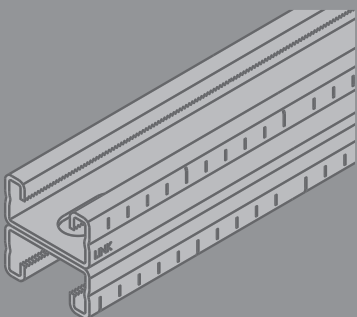
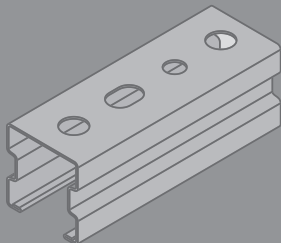
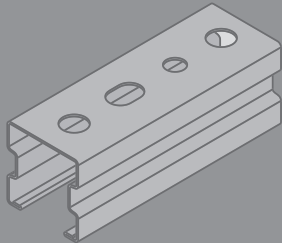
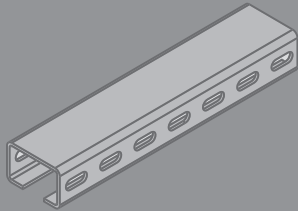
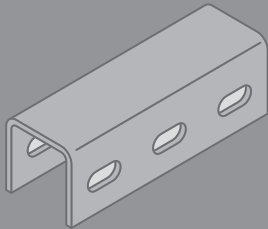
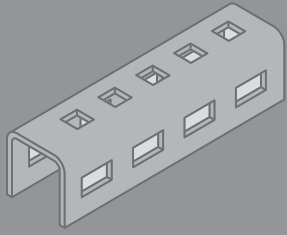
Sabit Nokta-1 Kelepçe / Fixpoint-1 Clamps
Maksimum Önerilen Yük / Max. Recom. Load
Eksenel / Axial - F_a : 8.000 N
Radyal / Radial - F_r : 4.660 N

Sabit Nokta-1 Kelepçe / Fixpoint-1 Clamps
Maksimum Önerilen Yük / Max. Recom. Load
Eksenel / Axial - F_a : 16.000 N
Radyal / Radial - F_r : 9.320 N

Sabit Nokta-3 Kelepçe / Fixpoint-3 Clamps
Maksimum Önerilen Yük / Max. Recom. Load
Eksenel / Axial - F_a : 24.000 N
Radyal / Radial - F_r : 13.980 N

ADK Sabit Nokta Ayağı / Fixpoint Saddle
Maksimum Önerilen Yük / Max. Recom. Load
Eksenel / Axial - F_a : 42.000 N
Radyal / Radial - F_r : 17.500 N





we link the world

PROFİLLER VE KONSOLLAR / *Profiles & Brackets*



PROFİLLER VE KONSOLLAR

Bu bölümde önerilen profiller ve konsollar boruların veya askı rotu bağlantılarının desteklenmesi için dizayn edilmiştir. Konsollar boruların dikey yüzeylerden desteklenmesi için kullanışlı çözümler önermektedir.

Malzemeler:

Profiller & Konsollar üretiminde çelik kullanılmıştır. Diğer malzemeler ile de üretim yapılabilir.

Kaplamalar:

Mekanik desteklerin standart kaplamaları üretimden sonra Sıcak Daldırma Galvaniz (EN 1461) ve Elektro Galvaniz (EN ISO 2081) kaplamalardır. İsteğe bağlı diğer özel kaplamalar uygulanabilir.

Onaylar (Belirtilen) :

TSEK ve ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 Sistemlerinde belirtilen şartlarda üretilmiştir. Tüm modellerin GOST K, GOST R ve SEPRO Sertifikası mevcuttur.

Bu bölümde yer alan bütün boru ve askı destek sistemleri aksi belirtilmediği sürece TS 301/1-2-3-4, TS 1997, TS 416, DIN 2440-2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 uluslararası standart borular için boyutlandırılmıştır. Bazı çelik ürünler diğer boru çaplarını karşılamak için özel olarak üretilebilirler, örnek olarak pik boru, pvc boru vb.

PROFILES & BRACKETS

Brackets offered in this section are designed for support of pipe hanger rod attachments. Brackets offer a convenient means of supporting pipe from a vertical surface.

Materials:

Carbon Steel is used in the manufacturing of profiles and brackets. Other materials are available.

Finishes:

The standard finishes for mechanical supports are hot-dip galvanized after fabrication (EN 1461) and Zinc Plated (EN ISO 2081). Other special coatings are available upon request.

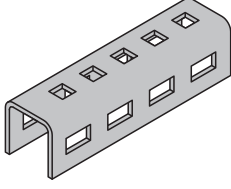
Approvals (as noted) :

Manufacturing is controlled by TSEK, ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 System Standards. All products have GOST K, GOST R and SEPRO certification.

All pipe hangers and support in this section are sized to feet schedule 40/80, TS 301/1-2-3-4, TS 1997, TS 416, DIN 2440-2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 pipe standards unless otherwise noted. Some steel items may be specially fabricated to fit other pipe diameters i.e. ductile iron, cast iron, etc.t

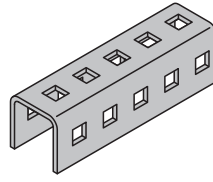
UDD

Sayfa / Page: 86



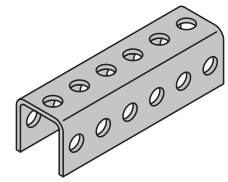
UKD

Sayfa / Page: 86



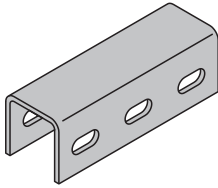
UYD

Sayfa / Page: 86



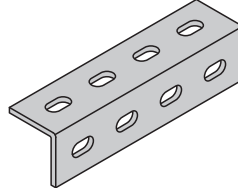
P2U

Sayfa / Page: 86



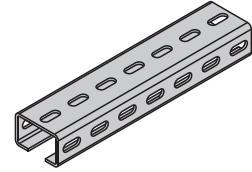
P1L

Sayfa / Page: 86



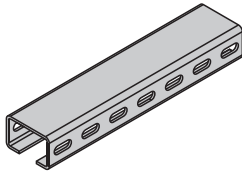
P3C

Sayfa / Page: 87



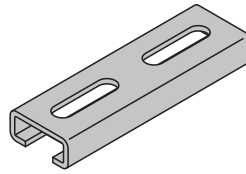
P2C1

Sayfa / Page: 87



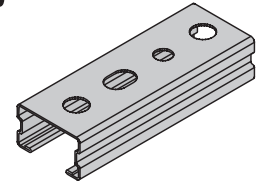
CSD

Sayfa / Page: 87



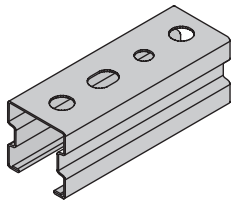
PROLINK C

35x21x0,9 mm
Sayfa / Page: 90



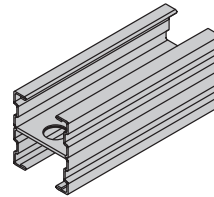
PROLINK C

35x35x0,9 mm
Sayfa / Page: 90



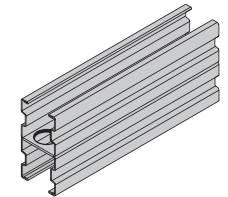
PROLINK C

35x42x0,9 mm
Sayfa / Page: 90



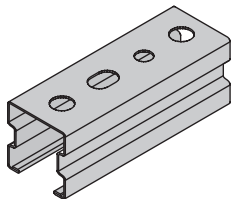
PROLINK C

35x70x0,9 mm
Sayfa / Page: 90



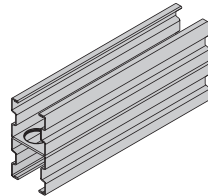
PROLINK C

35x35x1,2 mm
Sayfa / Page: 91



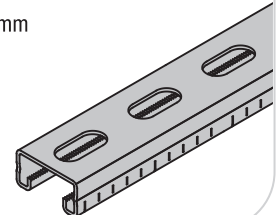
PROLINK C

35x70x1,2mm
Sayfa / Page: 91



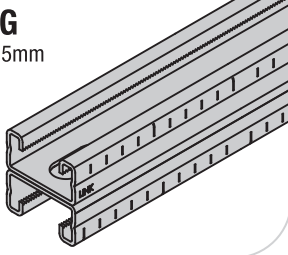
PROLINK G

41x21x1,5-2-2,5mm
Sayfa / Page: 97



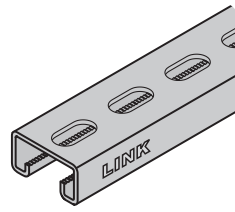
PROLINK G

41x42x1,5-2-2,5mm
Sayfa / Page: 97



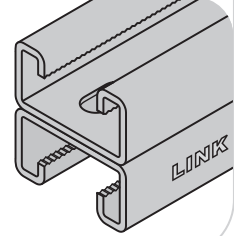
PROLINK G

45x22x2-2,5mm
Sayfa / Page: 97



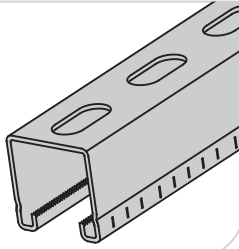
PROLINK G

45x44x2-2,5mm
Sayfa / Page: 97



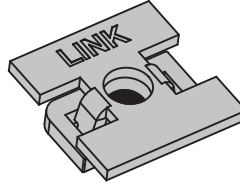
PROLINK G

41x41x1,5-2-2,5mm
Sayfa / Page: 98



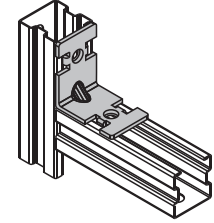
PLCMK

Sayfa / Page: 94



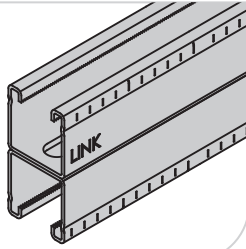
**PROLINK C
Fittings**

Sayfa / Page: 95



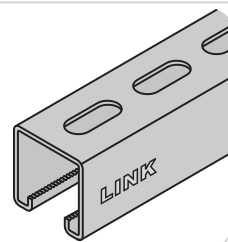
PROLINK G

41x82x1,5-2-2,5mm
Sayfa / Page: 98



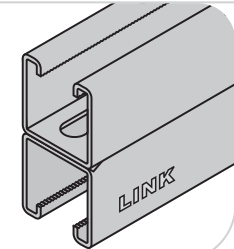
PROLINK G

45x45x2-2,5mm
Sayfa / Page: 98



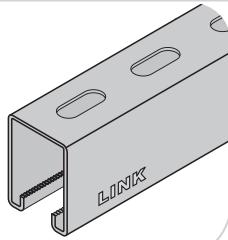
PROLINK G

45x90x2-2,5mm
Sayfa / Page: 98



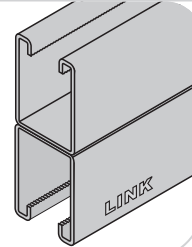
PROLINK G

45x60x2,5mm
Sayfa / Page: 99



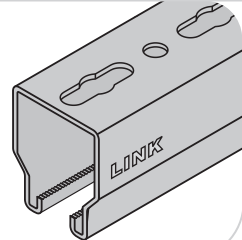
PROLINK G

45x120x2,5mm
Sayfa / Page: 99



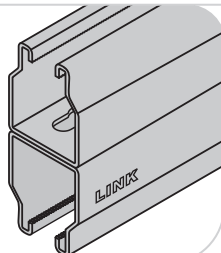
PROLINK G

60x70x3mm
Sayfa / Page: 99



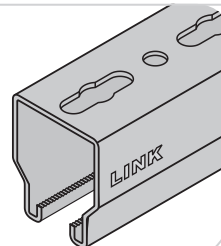
PROLINK G

60x140x3mm
Sayfa / Page: 99



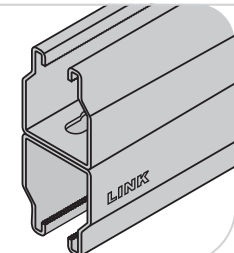
PROLINK G

60x85x3mm
Sayfa / Page: 100



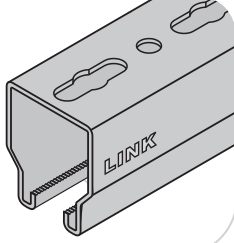
PROLINK G

60x170x3mm
Sayfa / Page: 100



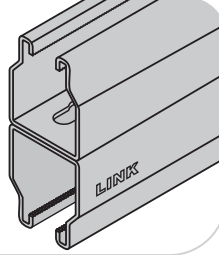
PROLINK G

60x100x3mm
Sayfa / Page: 99



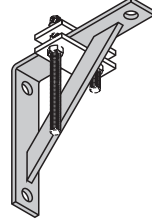
PROLINK G

60x200x3mm
Sayfa / Page: 100



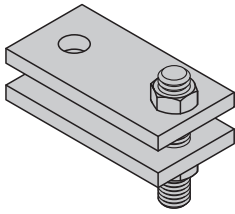
MHLD

Sayfa / Page: 121



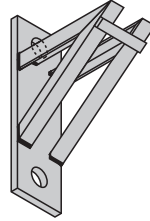
MHBC

Sayfa / Page: 121



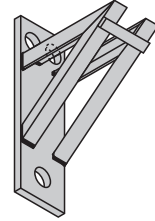
MAMB

Sayfa / Page: 122



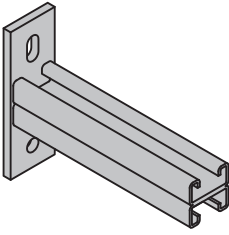
MAHB

Sayfa / Page: 122



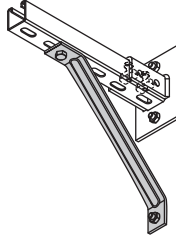
PLGA

Sayfa / Page: 123



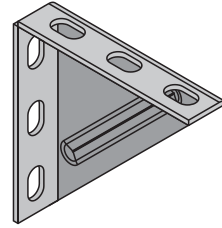
PDD

Sayfa / Page: 125



MES2

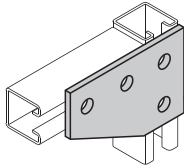
Sayfa / Page: 125



PROLINK G

Fittings

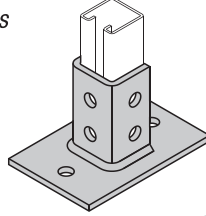
Sayfa / Page: 108



PROLINK G

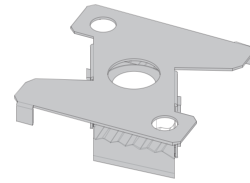
Bağlantı Bazası/Bases

Sayfa / Page: 115



PLGMK

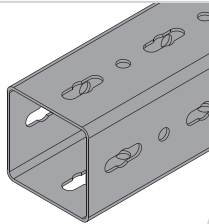
Sayfa / Page: 117



EYP100

Tip / Type: 127

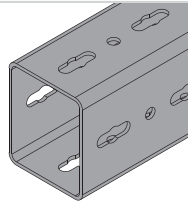
Sayfa / Page: 127



EYP120

Tip / Type: 127

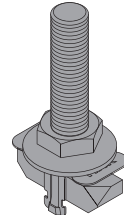
Sayfa / Page: 127



EPKS

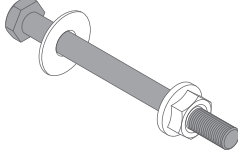
Tip / Type: 128

Sayfa / Page: 128



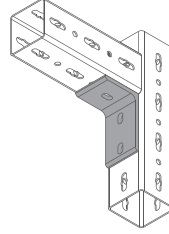
EPSS

Tip / Type: 129
Sayfa / Page: 129



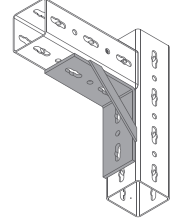
EPKA

Tip / Type: 130
Sayfa / Page: 130



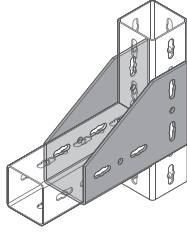
EPKH

Tip / Type: 130
Sayfa / Page: 130



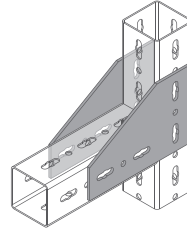
EPAF

Tip / Type: 130
Sayfa / Page: 130



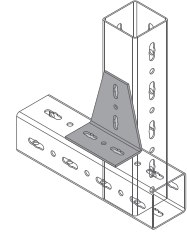
EPPF

Tip / Type: 130
Sayfa / Page: 130



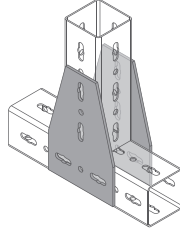
EPDF

Tip / Type: 131
Sayfa / Page: 131



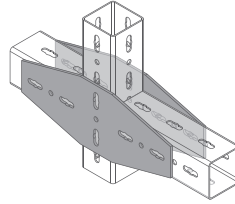
EPIF

Tip / Type: 131
Sayfa / Page: 131



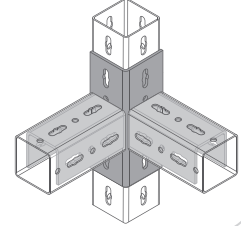
EPHF

Tip / Type: 131
Sayfa / Page: 131



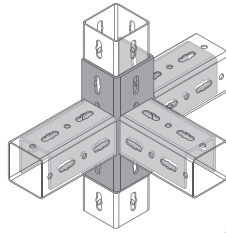
EPAC.90

Tip / Type: 133
Sayfa / Page: 133



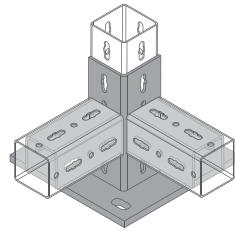
EPAC.180

Tip / Type: 133
Sayfa / Page: 133



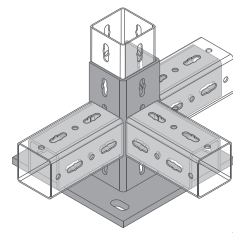
EPACT.90

Tip / Type: 133
Sayfa / Page: 133



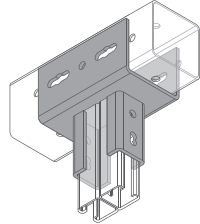
EPACT.180

Tip / Type: 133
Sayfa / Page: 133



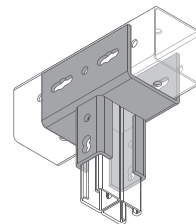
EPGH

Tip / Type: 136
Sayfa / Page: 136



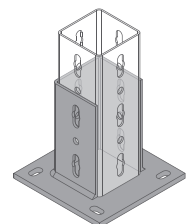
EPGV

Tip / Type: 136
Sayfa / Page: 136



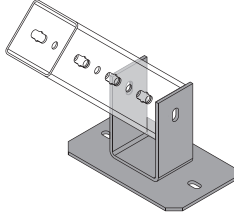
EPTH

Tip / Type: 136
Sayfa / Page: 136



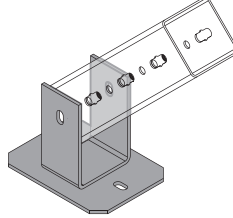
EPMH

Tip / Type: 137
Sayfa / Page: 137



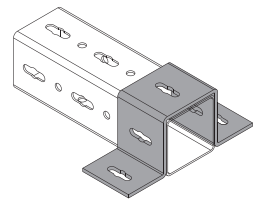
EPMV

Tip / Type: 137
Sayfa / Page: 137



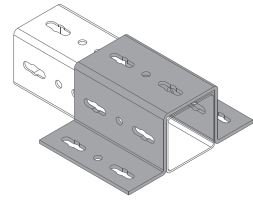
EPAT

Tip / Type: 137
Sayfa / Page: 137



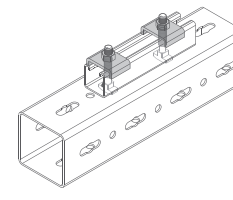
EPAT

Tip / Type: 137
Sayfa / Page: 137



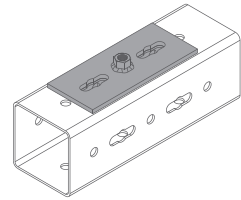
PLGMK

Tip / Type: 138
Sayfa / Page: 138



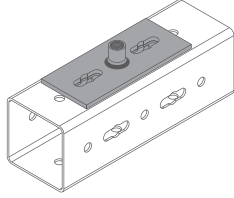
EPDD

Tip / Type: 138
Sayfa / Page: 138



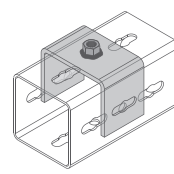
EPMD

Tip / Type: 138
Sayfa / Page: 138



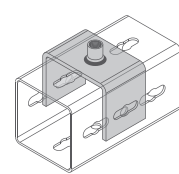
EPDT

Tip / Type: 139
Sayfa / Page: 139



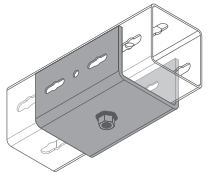
EPMT

Tip / Type: 139
Sayfa / Page: 139



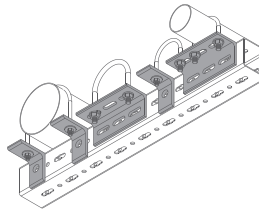
EPDI

Tip / Type: 139
Sayfa / Page: 139



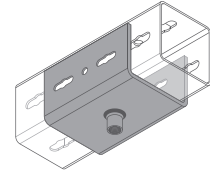
EPKL-EPKU

Tip / Type: 141
Sayfa / Page: 141



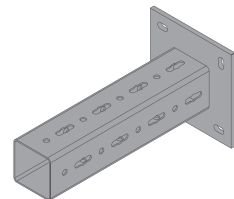
EPMI

Tip / Type: 139
Sayfa / Page: 139



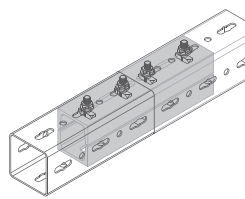
EPKN

Tip / Type: 140
Sayfa / Page: 140



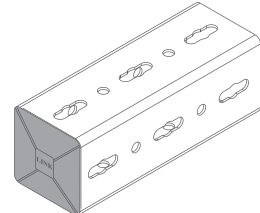
EPCE

Tip / Type: 141
Sayfa / Page: 141



EYPK

Tip / Type: 141
Sayfa / Page: 141



Perfore Profiller Metal Framings

P2U / UDD / UKD / UYD / P1L

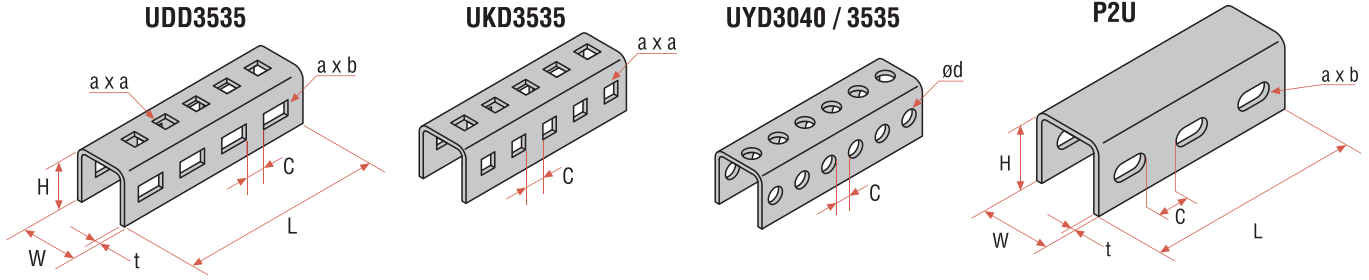
Malzeme / Material :

3mm ≥ EN 10346 - DX51DZ100
3mm < DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standart Finish:

3mm ≥ Sendzimir - (EN 10346)
3mm < Elektro Galvaniz / Zinc Plated (EN ISO 2081)

U Kesitli Perfore Profil / Metal Framing U Cross Section



UDD/UKD/UYD

Ölçüler / Dimensions

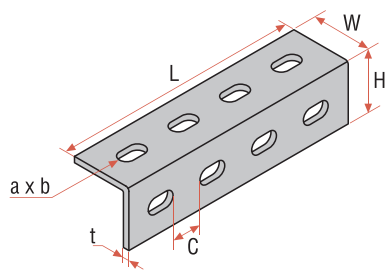
Kod Code	W x H mm	t mm	ød mm	a x a mm	a x b mm	C mm	L mm	Kg/mt
UDD.3535	35 x 35	3,0	-	10 x 10	18 x 10	13,0	2000	1,84
UDD.3535.4	35 x 35	3,0	-	10 x 10	18 x 10	13,0	4000	1,84
UKD.3535	35 x 35	3,0	-	10 x 10	-	13,0	2000	1,88
UKD.3535.4	35 x 35	3,0	-	10 x 10	-	13,0	4000	1,88
UYD.3040	40 x 30	3,0	10,5	-	-	9,5	2000	2,03
UYD.3040.4	40 x 30	3,0	10,5	-	-	9,5	4000	2,03
UYD.3535	35 x 35	3,0	10,5	-	-	9,5	2000	1,92
UYD.3535.4	35 x 35	3,0	10,5	-	-	9,5	4000	1,92

P2U

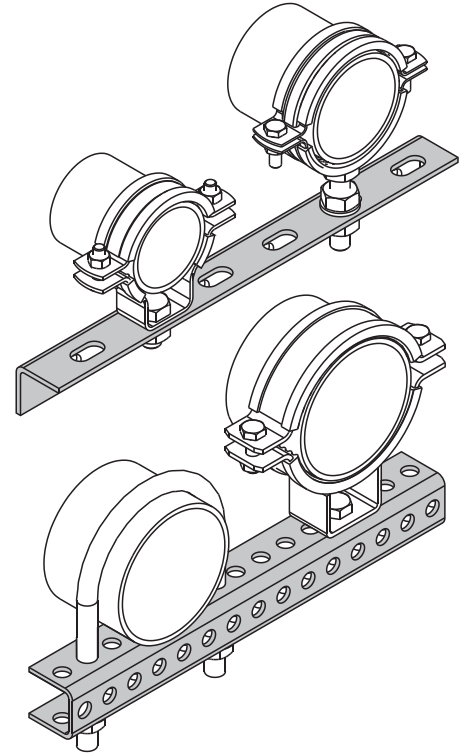
Ölçüler / Dimensions

Kod Code	W x H mm	t mm	a x b mm	C mm	L mm	Kg/mt
P2U.5038	30 x 30	3	11 x 20	25	2000	1,80
P2U.5038.4	30 x 30	3	11 x 20	25	4000	1,80
P2U.5039	40 x 40	3	12,5 x 25	25	2000	2,05
P2U.5039.4	40 x 40	3	12,5 x 25	25	4000	2,05
P2U.5040	40 x 40	4	12,5 x 25	25	2000	2,90
P2U.5041	50 x 50	4	12,5 x 25	25	2000	3,72
P2U.5042	50 x 50	5	12,5 x 25	25	2000	5,00
P2U.5043	60 x 50	5	12,5 x 25	25	2000	5,63
P2U.5044	80 x 60	5	12,5 x 25	25	2000	6,47
P2U.5045	100 x 60	5	17,0 x 50	25	2000	7,40

L Kesitli Perfore Profil / Metal Framing L Cross Section



P1L



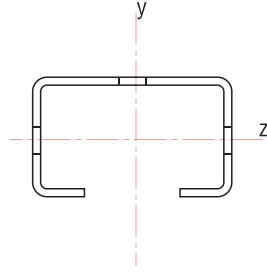
P1L

Ölçüler / Dimensions

Kod Code	W x H mm	t mm	a x b mm	C mm	L mm	Kg/mt
P1L.5012	30 x 30	3	10,5 x 20	25	2000	1,17
P1L.5012.4	30 x 30	3	10,5 x 20	25	4000	1,17
P1L.5016	40 x 40	3	12,5 x 25	25	2000	1,40
P1L.5016.4	40 x 40	3	12,5 x 25	25	4000	1,40
P1L.5017	40 x 40	4	12,5 x 25	25	2000	1,95
P1L.5020	50 x 50	4	12,5 x 25	25	2000	2,42
P1L.5021	50 x 50	5	12,5 x 25	25	2000	3,00

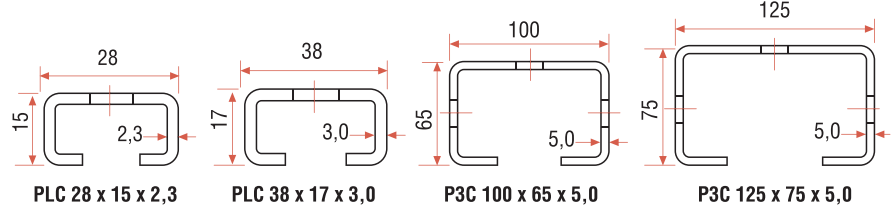
Perfore C Profil Yük Dağılımı Şeması / Perforated C Profiles Selection Outline

2,3 - 3,0 - 5,0 MM



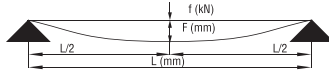
Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

"F" forces in the table are calculated for loading direction in "y" axis.

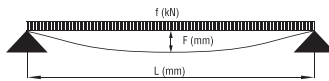


Malzeme / Material
DD11 - (DIN EN 10111:2008)
Profil Kesit Alanı / Profile Section Area A (cm²)
Mukavemet momenti / Section Modulus W_z (cm³)
Mukavemet momenti / Section Modulus W_y (cm³)
Atalet momenti / Moment of Inertia I_z (cm⁴)
Atalet momenti / Moment of Inertia I_y (cm⁴)
Jirasyon Çapı / Radius of gyration r_z (cm)
Jirasyon Çapı / Radius of gyration r_y (cm)

PROLINK								
DX51 D + Z								
Profil Kesit Alanı / Profile Section Area A (cm ²)	1,41	2,27	13,20	15,70				
Mukavemet momenti / Section Modulus W _z (cm ³)	0,44	0,77	21,62	29,00				
Mukavemet momenti / Section Modulus W _y (cm ³)	1,03	2,19	39,45	60,16				
Atalet momenti / Moment of Inertia I _z (cm ⁴)	0,39	0,78	80,08	128,15				
Atalet momenti / Moment of Inertia I _y (cm ⁴)	1,45	4,16	197,26	376,00				
Jirasyon Çapı / Radius of gyration r _z (cm)	0,53	0,59	2,46	2,86				
Jirasyon Çapı / Radius of gyration r _y (cm)	1,01	1,35	3,87	4,89				



Profil Boyu / Profile Length (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)
6.000					0,58	24,98	1,10	24,92
5.000					1,05	20,82	1,81	20,66
4.000					1,86	16,62	3,10	16,65
3.500					2,53	14,53	4,15	14,53
3.000					3,56	12,50	5,78	12,49
2.500					5,23	10,41	7,40	9,15
2.000					6,92	6,98	9,30	5,84
1.500			0,13	6,23	9,28	3,92	12,46	3,28
1.250			0,19	5,03	11,16	2,72	14,99	2,28
1.000	0,15	3,97	0,31	4,07	13,98	1,74	18,77	1,46
750	0,28	3,06	0,57	3,10	18,66	0,98	25,00	0,82
500	0,56	1,79	0,99	1,58	28,00	0,43	37,60	0,36
300	0,95	0,65	1,66	0,57	46,70	0,16	62,70	0,13
250	1,14	0,45	1,99	0,40	56,10	0,11	75,20	0,09
200	1,42	0,29	2,49	0,25	70,10	0,07	94,10	0,06
100	2,85	0,07	4,99	0,06	140,30	0,02	188,20	0,01



Profil Boyu / Profile Length (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)
6.000					0,92	24,85	1,76	24,92
5.000					1,68	20,82	2,92	20,81
4.000					2,98	16,64	4,96	16,65
3.500					4,06	14,57	6,66	14,57
3.000					5,68	12,47	9,26	12,50
2.500					8,38	10,42	13,50	10,40
2.000					13,25	8,32	18,60	7,28
1.500	0,10	6,17	0,20	6,01	18,55	4,88	24,92	4,09
1.250	0,15	5,05	0,31	5,13	22,32	3,39	29,99	2,85
1.000	0,25	4,13	0,50	4,10	27,95	2,17	37,50	1,82
750	0,45	3,07	0,92	3,13	37,32	1,22	50,10	1,02
500	1,04	2,08	1,99	1,99	56,00	0,54	75,20	0,46
300	1,90	0,82	3,32	0,71	93,50	0,20	125,40	0,16
250	2,28	0,57	3,99	0,50	112,20	0,14	150,50	0,11
200	2,85	0,36	4,99	0,32	140,30	0,09	188,20	0,07
100	5,71	0,09	9,99	0,08	280,50	0,02	376,50	0,02

Belirtilen L(cm) boyunda izin verilen $\delta_{adm} = 144 \text{ N / mm}^2$ ve maksimum seçim $f_{adm} = L / 240$ değeri aşılmamıştır.

Incase of the indicated max. spans L (cm), the admissible $\delta_{adm} = 144 \text{ N / mm}^2$ as well as a maximum deflection of $f_{adm} = L / 240$ is not exceeded.

Örnek / Example -1

F= 8,32 kN (832 kg)

L= 1000 mm (1,0 m) Yük profilin orta noktasından uygulanmaktadır.

Load shall be compensated in the middle of the profile.

Seçim Prosedürü / Selection Procedure

1- L=1000 mm (1,0 m) olan satırı seçin./ *Select line with L=1000 mm (1,0 m)*

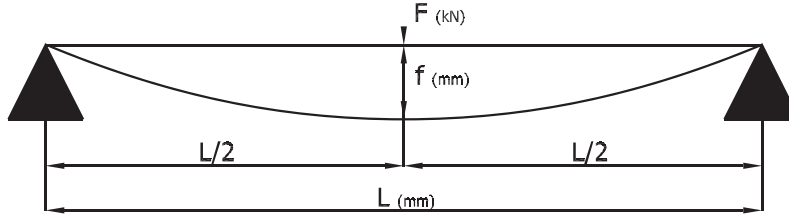
2- Yüke eşit veya daha büyük olan ilk ve sıradaki sütunu belirleyin. $F \geq 8,32$ kN (832 kg)

Uygun profil tipleri P3C 100 x 65 x 5,0 ve P3C 125 x 75 x 5,0 kesitleridir.

Assign column with equal load or next bigger load $F \geq 8,32$ kN (832 kg)

Suitable profile rails are type P3C 100 x 65 x 5,0 and P3C 125 x 75 x 5,0

Profil Boyu Profil Length mm	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)
6000					0,58	24,98	1,10	24,92
5000					1,05	20,82	1,81	20,66
4000					1,86	16,62	3,10	16,65
3500					2,53	14,53	4,15	14,53
3000					3,56	12,50	5,78	12,49
2500					5,23	10,41	7,40	9,15
2000					6,92	6,98	9,30	5,84
1500			0,13	6,23	9,28	3,92	12,46	3,28
1250			0,19	5,03	11,16	2,72	14,99	2,28
1000	0,15	3,97	0,31	4,07	13,98	1,74	18,77	1,46
750	0,28	3,06	0,57	3,10	18,66	0,98	25,00	0,82
500	0,56	1,79	0,99	1,58	28,00	0,43	37,60	0,36



Örnek / Example -2

F= 0,95 kN (95 kg)

L= 750 mm (0,75 m) Yük profile yayılı olarak uygulanmaktadır.

Load shall be compensated uniformly over profile.

Seçim Prosedürü / Selection Procedure

1- L=750 mm (0,75 m) olan satırı seçin. *Select line with L=750 mm (0,75 m)*

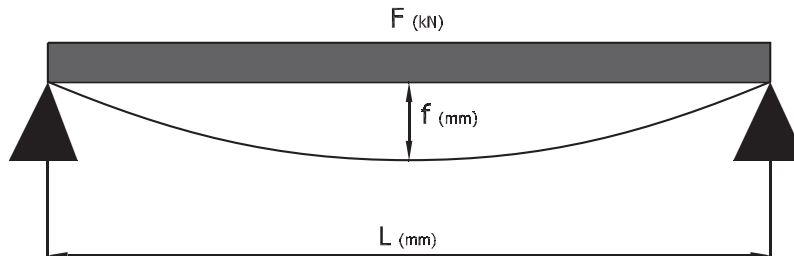
2- Yüke eşit veya daha büyük olan ilk ve sıradaki sütunu belirleyin. $F \geq 0,95$ kN (95 kg)

Assign column with equal load or next bigger load $F \geq 0,95$ kN (95 kg)

Uygun profil tipleri PLC 38 x 17 x 3,0'dan P3C 125 x 75 x 5,0'a kadar olan kesitlerdir.

Suitable profile rails are type PLC 38 x 17 x 3,0 up to type P3C 125 x 75 x 5,0

Profil Boyu Profil Length mm	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)
6000					0,92	24,85	1,76	24,92
5000					1,68	20,82	2,92	20,81
4000					2,98	16,64	4,96	16,65
3500					4,06	14,57	6,66	14,57
3000					5,68	12,47	9,26	12,50
2500					8,38	10,42	13,50	10,40
2000					13,25	8,32	18,60	7,28
1500	0,10	6,17	0,20	6,01	18,55	4,88	24,92	4,09
1250	0,15	5,05	0,31	5,13	22,32	3,39	29,99	2,85
1000	0,25	4,13	0,50	4,10	27,95	2,17	37,50	1,82
750	0,45	3,07	0,92	3,13	37,32	1,22	50,10	1,02
500	1,04	2,08	1,99	1,99	56,00	0,54	75,20	0,46



PROLINK C Kesitli Profiller / PROLINK C Cross Section Profiles

PROLINK C

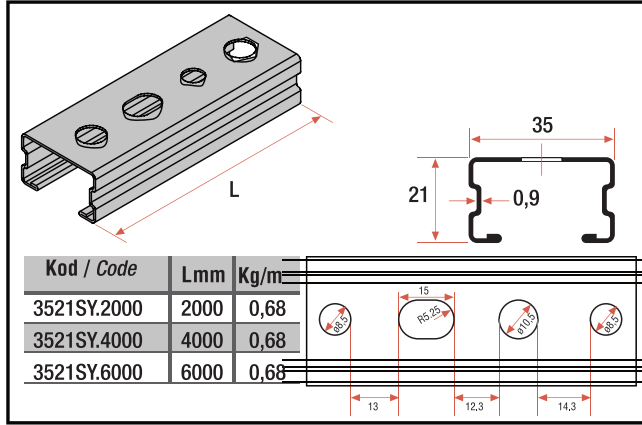
Malzeme / Material:

Malzeme EN 10346 - DX51 DZ 100 Korozyona karşı sıcak daldırma galvaniz kaplanan malzemeye şekil vererek üretilmiştir. Yükleme bilgileri için profil yük dağılım şemasını inceleyiniz. / Material EN 10346 - DX51DZ 100 Continuously Hot-dip galvanized material formed for corrosion protection. Please examine load data table for design loads.

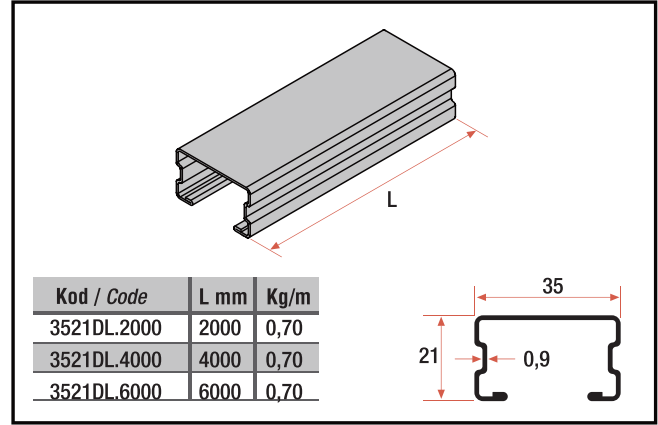
Hizmet / Service :

Mükemmel tasarımı sayesinde yüksek statik yük taşıma kapasitesine sahiptir. Orta ve hafif yük sınıfına uygundur. Bağlantı elemanları sürtünme yüzeyi kaymayı önleyici çentikli yüzeye sahiptir. Görsellik gerektiren montajlara uygundur. İstenilen bağlantı noktasında uygulama için aralık ve boyutta montaj deliklerine sahiptir. TAKS bağlantı elemanları veya LINK montaj aksesuarları ile çeşitli yapılara uygulanır. *Sustain remarkable static loads due to its excellent design. Suitable for light up to medium load range. Anti-slip knurled profile surface. Suitable for demonstrative demanding installations. Multiple punched for any installation task imaginable. Suitable for various constructions with TAKS connecting parts or conventional LINK installation accessories.*

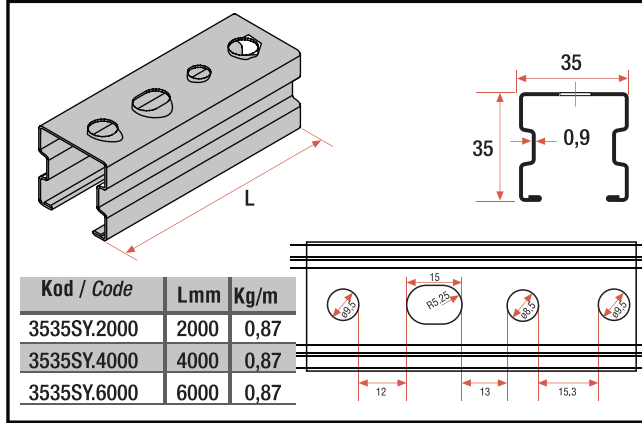
PROLINK C Perfore / Perforated 35x21x0,9 mm



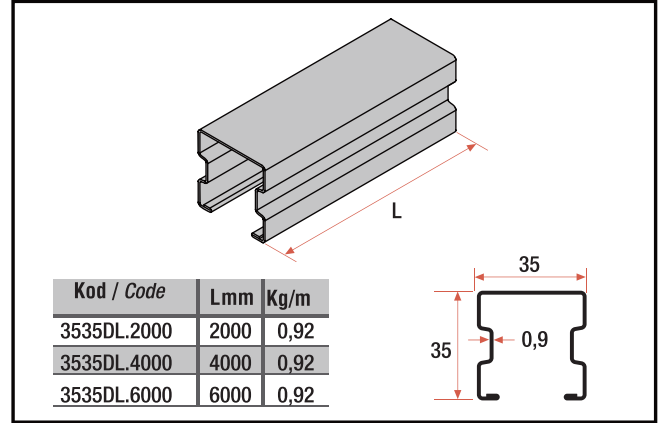
PROLINK C 35x21x0,9



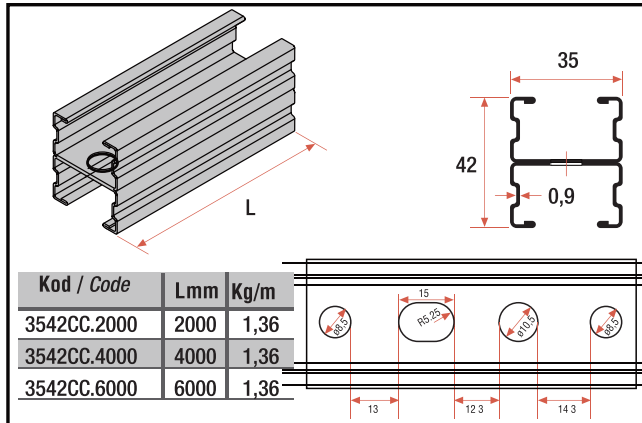
PROLINK C Perfore / Perforated 35x35x0,9 mm



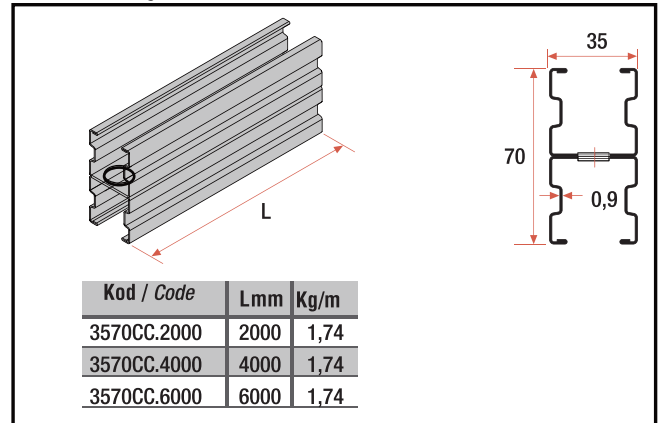
PROLINK C 35x35x0,9 mm



PROLINK C Çiftli / Double 35x42x0,9 mm



PROLINK C Çiftli / Double 35x70x0,9 mm



PROLINK C Kesitli Profiller / PROLINK C Cross Section Profiles

Malzeme / Material:

Malzeme EN 10346 - DX51 DZ 100 Korozyona karşı sıcak daldırma galvaniz kaplanan malzemeye şekil vererek üretilmiştir. Yükleme bilgileri için profil yük dağılım şemasını inceleyiniz.

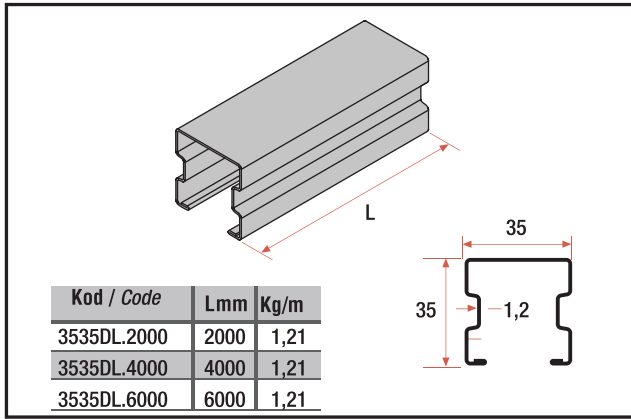
Material EN 10346 - DX51DZ 100 Continuously Hot-dip galvanized material formed for corrosion protection. Please examine load data table for design load.

Hizmet / Service:

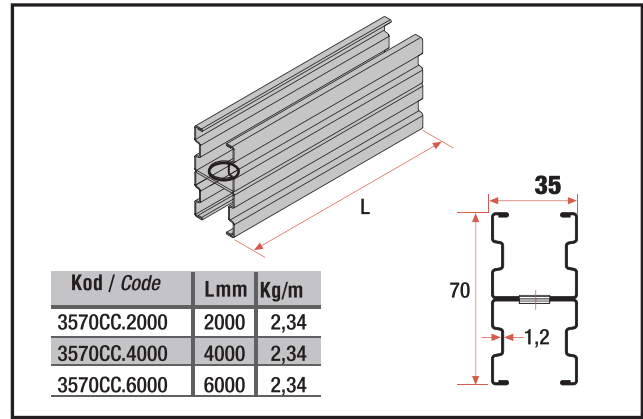
Mükemmel tasarımı sayesinde yüksek statik yük taşıma kapasitesine sahiptir. Orta ve Hafif yük sınıfına uygundur. Bağlantı elemanları sürtünme yüzeyi kaymayı önleyici çentikli yüzeye sahiptir. Görsellik gerektiren montajlara uygundur. İstenilen bağlantı noktasında uygulama için çeşitli aralık ve boyutta montaj deliklerine sahiptir. TAKS bağlantı elemanları veya LINK montaj aksesuarları ile çeşitli yapılara uygulanır. *Sustain remarkable static loads due to its excellent design. Suitable for light up to medium load range. Anti-slip knurled profile surface. Suitable for demonstrative demanding installations. Multiple punched for any installation task imaginable. Suitable for various constructions with TAKS connecting parts or conventional LINK installation accessories.*

PROLINK C

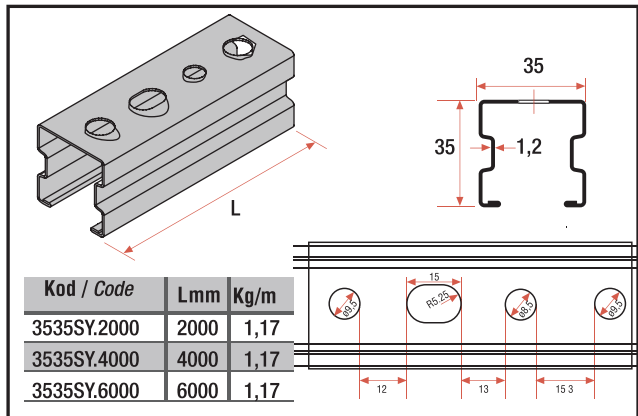
PROLINK C 35x35x1,2 mm



PROLINK C Çiftli / Double 35x70x1,2 mm

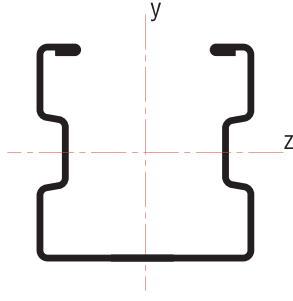


PROLINK C Perfore / Perforated 35x35x1,2 mm



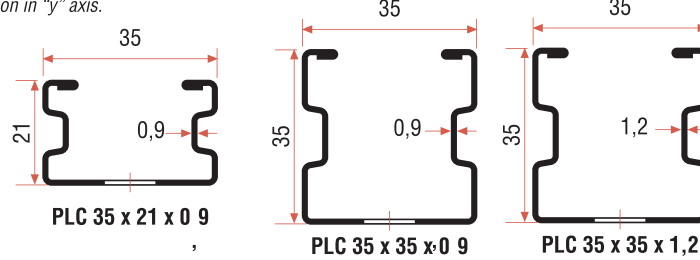
PROLINK C Profil Yük Dağılımı Şeması / PROLINK C Profiles Selection Outline

0,9 - 1,2 MM



Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

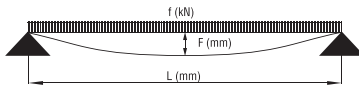
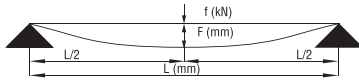
"F" forces in the table are calculated for loading direction in "y" axis.



Malzeme / Material
EN 10346

Profil Kesit Alanı / Profile Section Area A (cm ²)	Mukavemet momenti / Section Modulus W _z (cm ³)	Mukavemet momenti / Section Modulus W _y (cm ³)	Atalet momenti / Moment of Inertia I _z (cm ⁴)	Atalet momenti / Moment of Inertia I _y (cm ⁴)	Jirasyon Çapı / Radius of gyration r _z (cm)	Jirasyon Çapı / Radius of gyration r _y (cm)
0,98	0,55	1,01	0,63	1,76	0,80	1,34
1,18	1,00	1,34	1,93	2,34	1,28	1,41
1,55	1,27	1,71	2,47	3,01	1,26	1,39

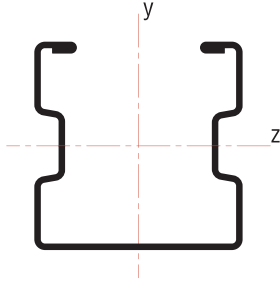
PROLINK						
DX51 D + Z						
Profil Boyu / Profile Length (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)
6.000						
5.000						
4.000						
3.500						
3.000			0,11	10,30	0,14	9,97
2.500						
2.000			0,18	8,00	0,24	8,20
1.500	0,11	6,18	0,34	6,09	0,45	6,25
1.250	0,16	5,08	0,51	5,21	0,65	5,17
1.000	0,26	4,16	0,64	3,33	0,81	3,28
750	0,46	3,08	0,86	1,88	1,09	1,86
500	0,71	1,40	1,29	0,83	1,64	0,83
300	1,18	0,50	2,16	0,30	2,74	0,30
250	1,42	0,35	2,59	0,21	3,29	0,21
200	1,78	0,22	3,24	0,13	4,12	0,13
100	3,57	0,06	6,49	0,03	8,24	0,03



Profil Boyu / Profile Length (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)	Mak.Dizayn Yüğü / Max. Design Load (kN)	Sehim Deflection (mm)
6.000						
5.000						
4.000						
3.500				11,72		
3.000			0,10	10,00	0,14	11,95
2.500			0,17	8,31	0,23	10,21
2.000			0,30	6,15	0,39	8,32
1.500	0,17	5,99	0,55	5,17	0,72	6,25
1.250	0,26	5,16	0,81	4,15	1,04	5,17
1.000	0,41	4,10	1,28	2,34	1,63	4,12
750	0,74	3,09	1,72	1,04	2,18	2,32
500	1,42	1,75	2,59	0,38	3,29	1,03
300	2,37	0,63	4,32	0,26	5,48	0,37
250	2,85	0,44	5,19	0,17	6,59	0,26
200	3,56	0,28	6,48	0,04	8,24	0,17

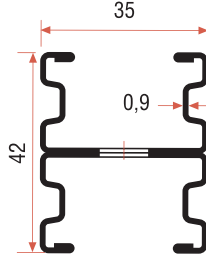
PROLINK C Profil Yük Dağılımı Şeması / PROLINK C Profiles Selection Outline

0,9 - 1,2 MM

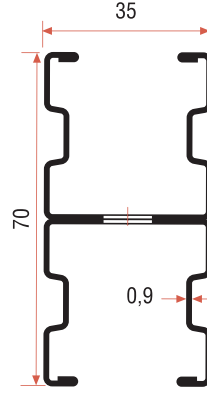


Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

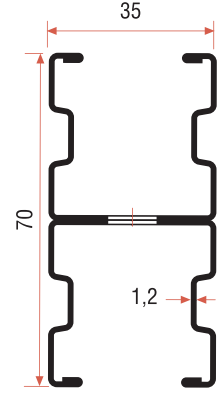
"F" forces in the table are calculated for loading direction in "y" axis.



PLC 35 x 42 x 0,9



PLC 35 x 70 x 0,9



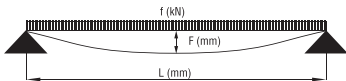
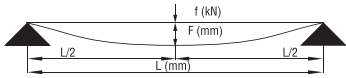
PLC 35 x 70 x 1,2

Malzeme / Material
EN 10346

- Profil Kesit Alanı / Profile Section Area A (cm²)
- Mukavemet momenti / Section Modulus W_z (cm³)
- Mukavemet momenti / Section Modulus W_y (cm³)
- Atalet momenti / Moment of Inertia I_z (cm⁴)
- Atalet momenti / Moment of Inertia I_y (cm⁴)
- Jirasyon Çapı / Radius of gyration r_z (cm)
- Jirasyon Çapı / Radius of gyration r_y (cm)

PROLINK						
DX51 D + Z						
	2,00		2,48		3,10	
	1,64		3,13		3,57	
	2,06		2,78		3,44	
	3,22		10,94		12,49	
	3,60		4,87		6,01	
	1,27		2,10		2,01	
	1,34		1,40		1,39	

Profil Boyu Profile Length (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6.000						
5.000			0,11	20,76	0,13	20,42
4.000			0,22	16,16	0,26	16,29
3.500			0,32	14,43	0,37	14,40
3.000	0,12	12,10	0,46	12,34	0,53	12,34
2.500	0,19	10,17	0,69	10,29	0,80	10,40
2.000	0,32	8,31	0,99	7,39	1,13	7,37
1.500	0,58	6,16	1,33	4,14	1,52	4,14
1.250	0,84	5,12	1,61	2,88	1,83	2,87
1.000	1,05	3,26	2,02	1,85	2,30	1,84
750	1,41	1,84	2,70	1,04	3,08	1,04
500	2,12	0,82	4,05	0,46	4,62	0,46
300	3,54	0,29	6,76	0,17	7,72	0,17
250	4,25	0,20	8,12	0,12	9,26	0,11
200	5,32	0,13	10,15	0,07	11,58	0,07
100	10,64	0,03	20,31	0,02	23,16	0,02

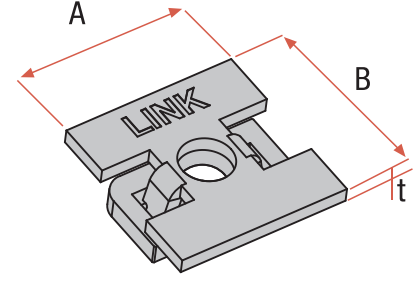


Profil Boyu Profile Length (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6.000						
5.000			0,17	20,33	0,21	20,54
4.000			0,36	16,45	0,42	16,42
3.500	0,12	13,84	0,51	14,38	0,60	14,57
3.000	0,19	12,00	0,74	12,40	0,86	12,50
2.500	0,31	10,35	1,11	10,35	1,28	10,40
2.000	0,51	8,28	1,78	8,28	2,05	8,33
1.500	0,94	6,24	2,67	5,17	3,04	5,15
1.250	1,36	5,18	3,22	3,60	3,67	3,59
1.000	2,11	4,09	4,04	2,30	4,61	2,30
750	2,82	2,30	5,40	1,30	6,16	1,29
500	4,25	1,02	8,11	0,58	9,25	0,57
300	7,09	0,37	13,53	0,21	15,44	0,21
250	8,51	0,26	16,25	0,14	18,53	0,14
200	10,64	0,16	20,00	0,09	23,16	0,09
100	21,28	0,04	40,60	0,02	46,30	0,02

1) PROLINK C Serisi Kolay Kilit / Easy Lock Nut

Ölçüler / Dimensions

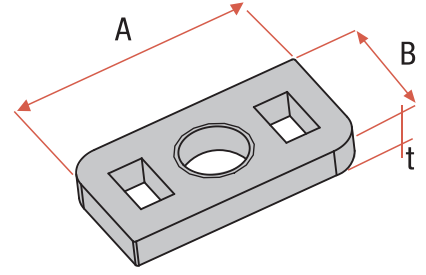
Kod Code	R	A x B x t	Adet / Kutu Psc / Box	Kg / Kutu Kg / Box
KK.100	M.8	36 x 36 x 3	500	18.5
KK.110	M.10	36 x 36 x 3	500	18.5



2) PROLINK C Serisi Düz Somun / Channel Nut

Ölçüler / Dimensions

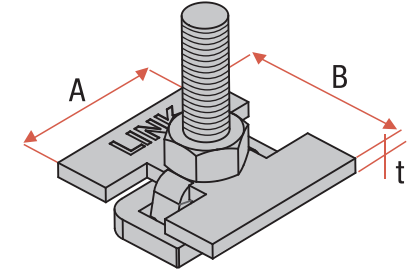
Kod Code	R	A x B x t	Adet / Kutu Psc / Box	Kg / Kutu Kg / Box
DOP.100	M.8	33 x 18 x 4	500	7.0
DOP.110	M.10	33 x 18 x 4	500	7.0



3) PROLINK C Serisi Rotlu Kolay Kilit / Easy Lock Nut With Stud

Ölçüler / Dimensions

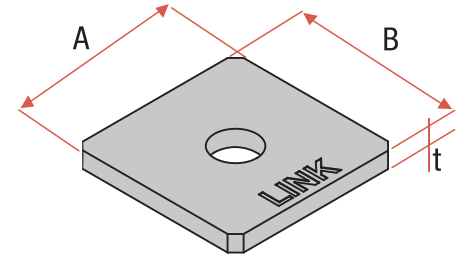
Kod Code	R	A x B x t	Adet / Kutu Psc / Box	Kg / Kutu Kg / Box
RKK.090	M.8	36 x 36 x 3	500	18.5
RKK.100	M.8	36 x 36 x 3	250	14.5
RKK.110	M.8	36 x 36 x 3	200	15.0
RKK.125	M.10	36 x 36 x 3	250	15.0
RKK.140	M.10	36 x 36 x 3	200	16.0



4) PROLINK C Serisi Kare Pul / Rectangular Washers

Ölçüler / Dimensions

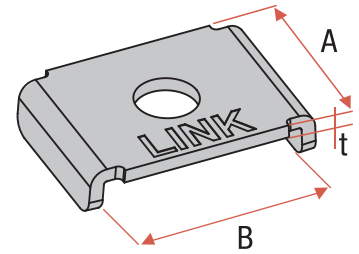
Kod Code	R	A x B x t	Adet / Kutu Psc / Box	Kg / Kutu Kg / Box
PLCBKP.100	11.0	32 x 32 x 4	500	15.0



5) PROLINK C Serisi Destek Pulu / Support Washer

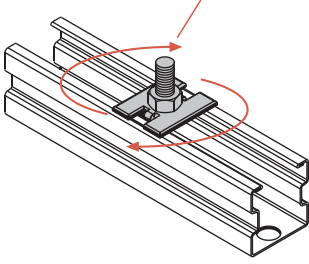
Ölçüler / Dimensions

Kod Code	R	A x B x t	Adet / Kutu Psc / Box	Kg / Kutu Kg / Box
UKA.100	11.0	30 x 35 x 2.5	500	15.0

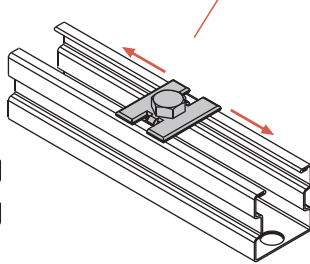


PROLINK C Profil Yük Bağlantı Şekilleri / PROLINK C Profiles Fittings

RKK.100

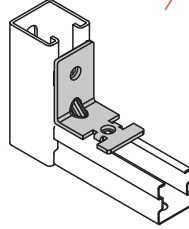


KK.100



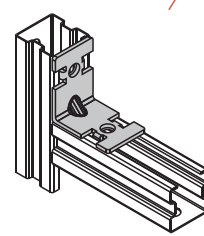
TK.100

3mm Ø11



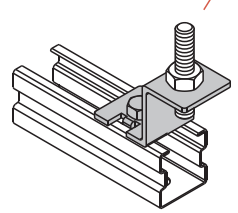
TK.200

3mm Ø11



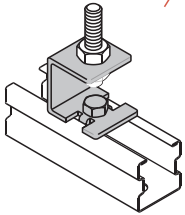
ZAK.100

3mm Ø11



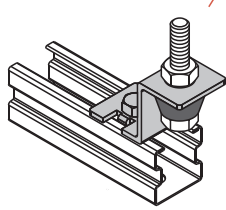
UAK.100

3mm Ø11



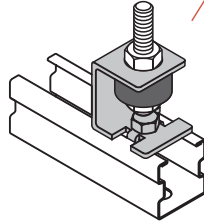
UZAK.100

3mm Ø11



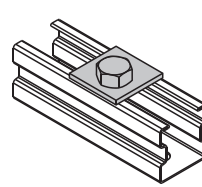
PLCVUZ.110

3mm Ø11



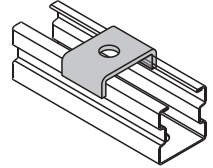
PLCBKP.100

3mm Ø11



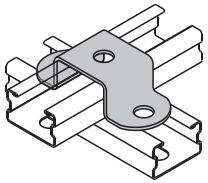
UKA.100

2,5mm Ø11



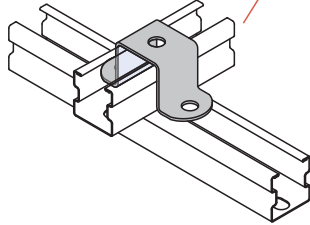
UBK.100

2mm Ø11



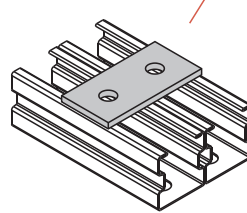
UBK.110

2mm Ø11



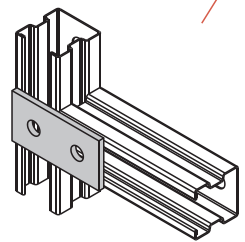
DUE.200

4mm Ø11



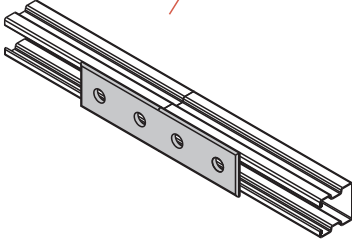
DUE.200

4mm Ø11



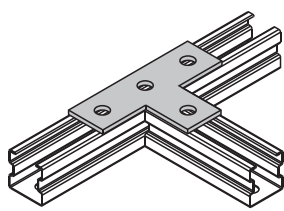
DUE.400

4mm Ø11



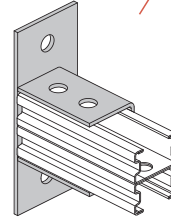
TBE.100

4mm Ø11



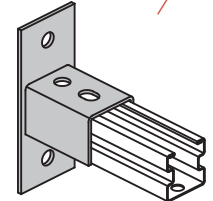
PLCBB.3542

2,5mm Ø11



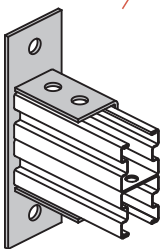
PLCBB.3535

2,5mm Ø11



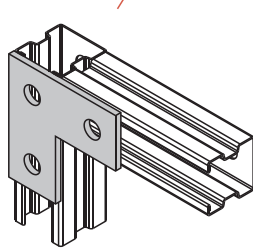
PLCBB.3570

2,5mm Ø11

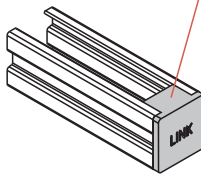


PLCLBE.100

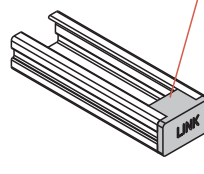
4mm Ø11



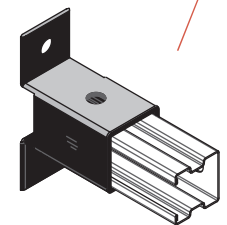
PLCPK.115



PLCPK.105



PLCBB.3535.01



PROLINK G Kesitli Profiller / PROLINK G Cross Section Profiles

Malzeme / Material:

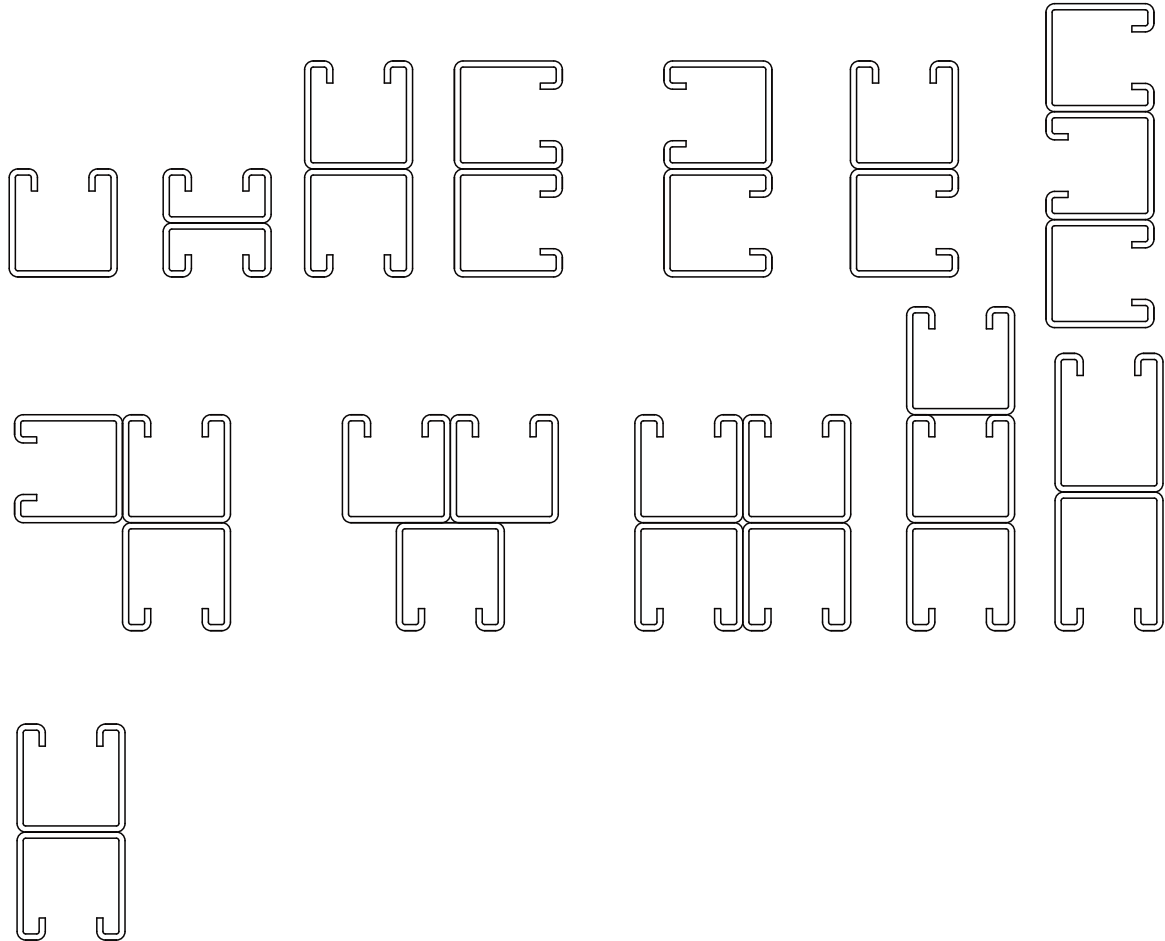
Malzeme EN 10346 - DX51DZ100

Korozyona karşı sıcak daldırma galvaniz kaplanan malzemeye şekil vererek üretilmiştir. Yükleme bilgileri için profil yük dağılım şemasını inceleyiniz.
Material EN 10346 - DX51DZ100 continuously Hot-dip galvanized for corrosion protection. Please examine load data table for design loads.

Hizmet / Service: Mukemmel tasarımı sayesinde yüksek statik yük taşıma kapasitesine sahiptir. Orta ve Ağır yük sınıfına uygundur. Bağlantı elemanları sürtünme yüzeyi kaymayı önleyici çentikli yüzeye sahiptir. Görsellik gerektiren montajlara uygundur. İstenilen bağlantı noktasında uygulama için çeşitli aralık ve boyutta montaj deliklerine sahiptir. TAKS bağlantı elemanları veya LINK montaj aksesuarları ile çeşitli yapılara uygulanır.

Sustain remarkable static loads due to its excellent design. Suitable for minor up to middle load range. Anti-slip knurled profile surface. Suitable for demonstrative demanding installations. Multiple punched for any installation task imaginable. Suitable for various constructions with TAKS connecting parts or conventional LINK installation accessories.

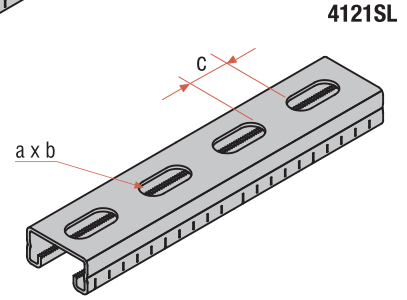
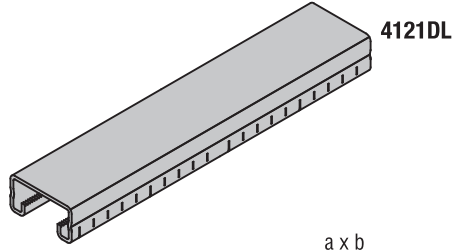
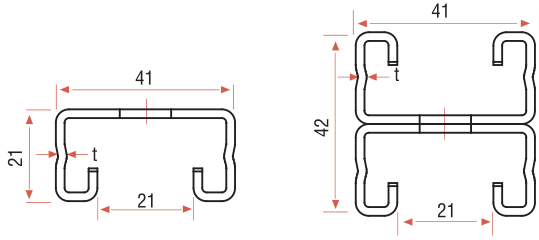
Birleştirme Metodları / Combinations Methods



Profil birleştirme kaynak ile yapılmaktadır.
Profile joining is done with welding

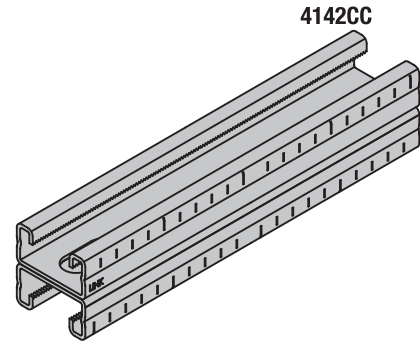
PROLINK G

PROLINK G 41 x 21 x 1,5 - 2,0 - 2,5 mm

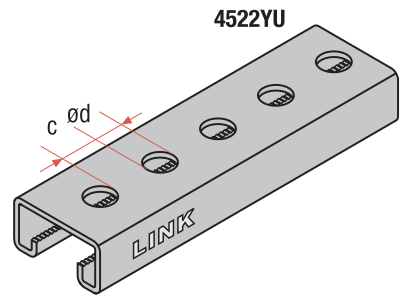
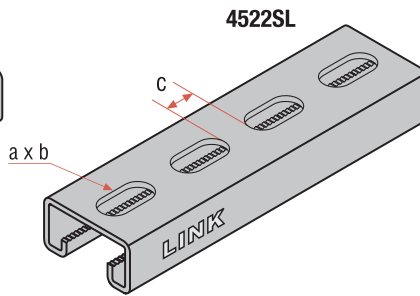
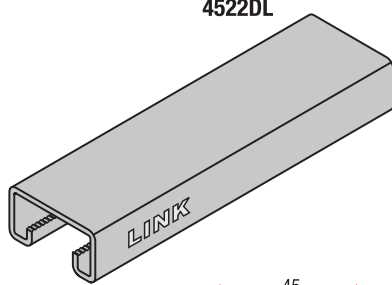
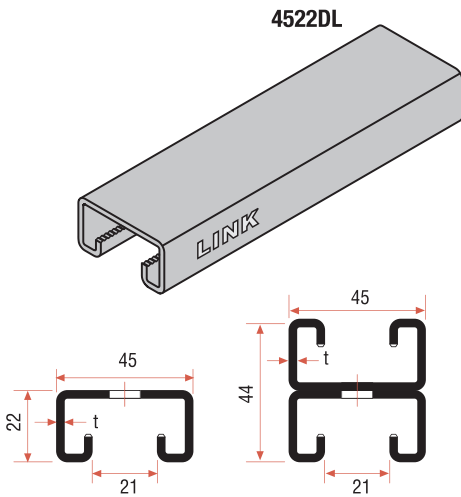


Kod Code	t mm	a x b mm	c mm	Birim Ağırlık Unit Weight Kg/m
4121DL	2,5	-	-	1,89
4121DL.01	2,0	-	-	1,52
4121DL.02	1,5	-	-	1,15
4121SL	2,5	13 x 30	30	1,80
4121SL.01	2,0	13 x 30	30	1,44
4121SL.02	1,5	13 x 30	30	1,12
4142CC	2,5	13 x 30	30	3,60
4142CC.01	2,0	13 x 30	30	2,88
4142CC.02	1,5	13 x 30	30	2,24

Standart boy / Standard Length : 4.000, 6.000 mm

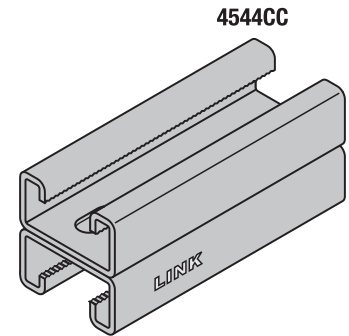


PROLINK G 45 x 22 x 2 - 2,5 mm

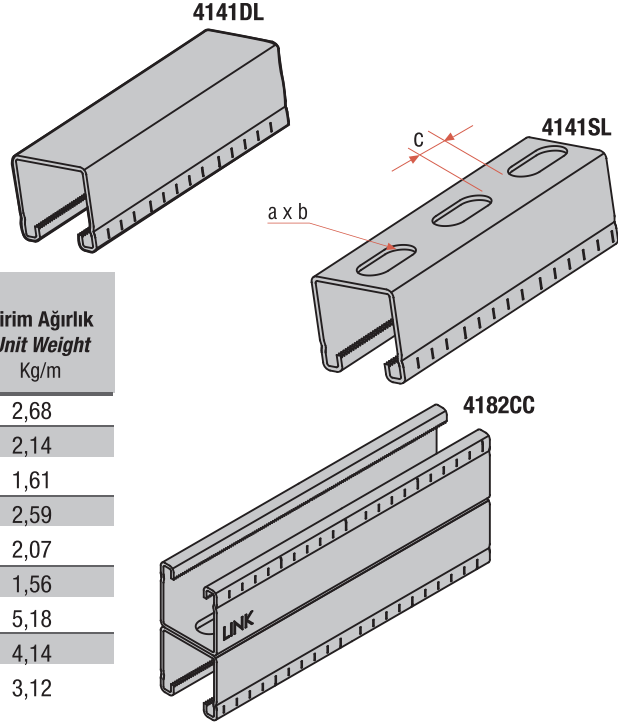
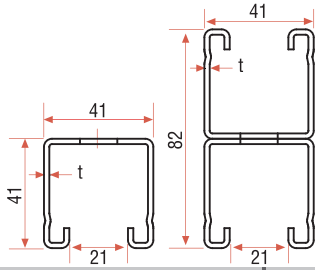


Kod Code	t mm	a x b mm	c mm	Ø d mm	Birim Ağırlık Unit Weight Kg/m
4522DL	2,5	-	-	-	2,05
4522DL.01	2,0	-	-	-	1,64
4522SL	2,5	13 x 30	30	-	1,96
4522SL.01	2,0	13 x 30	30	-	1,57
4522YU	2,5	-	15	12,5	1,95
4522YU.01	2,0	-	15	12,5	1,56
4544CC	2,5	13 x 30	30	-	3,92
4544CC.01	2,0	13 x 30	30	-	3,14

Standart boy / Standard Length : 4.000, 6.000 mm



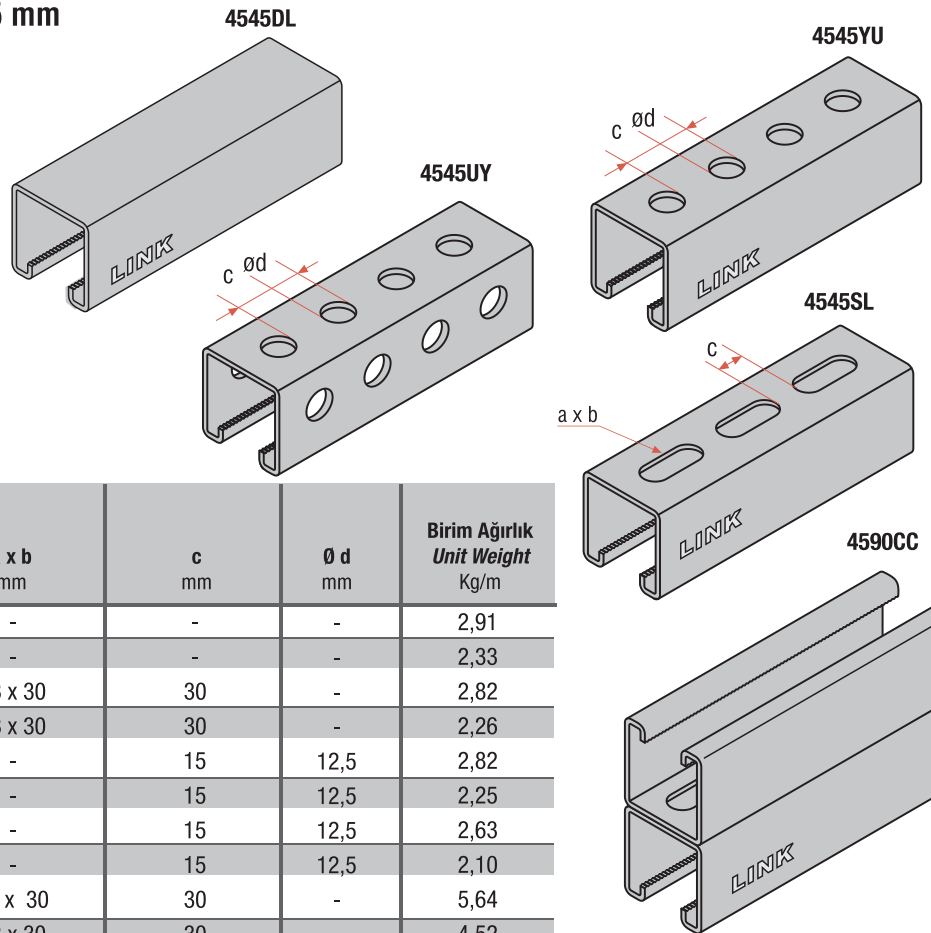
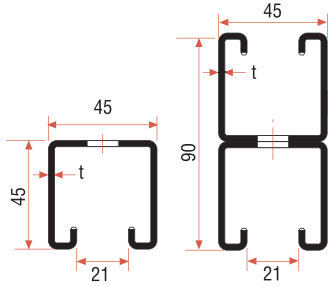
PROLINK G 41 x 41 x 1,5 - 2,0 - 2,5 mm



Kod Code	t mm	a x b mm	c mm	Birim Ağırlık Unit Weight Kg/m
4141 DL	2,5	30	30	2,68
4141 DL.01	2,0	30	30	2,14
4141 DL.02	1,5	30	30	1,61
4141 SL	2,5	13 x 30	30	2,59
4141 SL.01	2,0	13 x 30	30	2,07
4141 SL.02	1,5	13 x 30	30	1,56
4182CC	2,5	13 x 30	30	5,18
4182CC.01	2,0	13 x 30	30	4,14
4182CC.02	1,5	13 x 30	30	3,12

Standart boy / Standard Length : 4.000, 6.000 mm

PROLINK G 45 x 45 x 2 - 2,5 mm



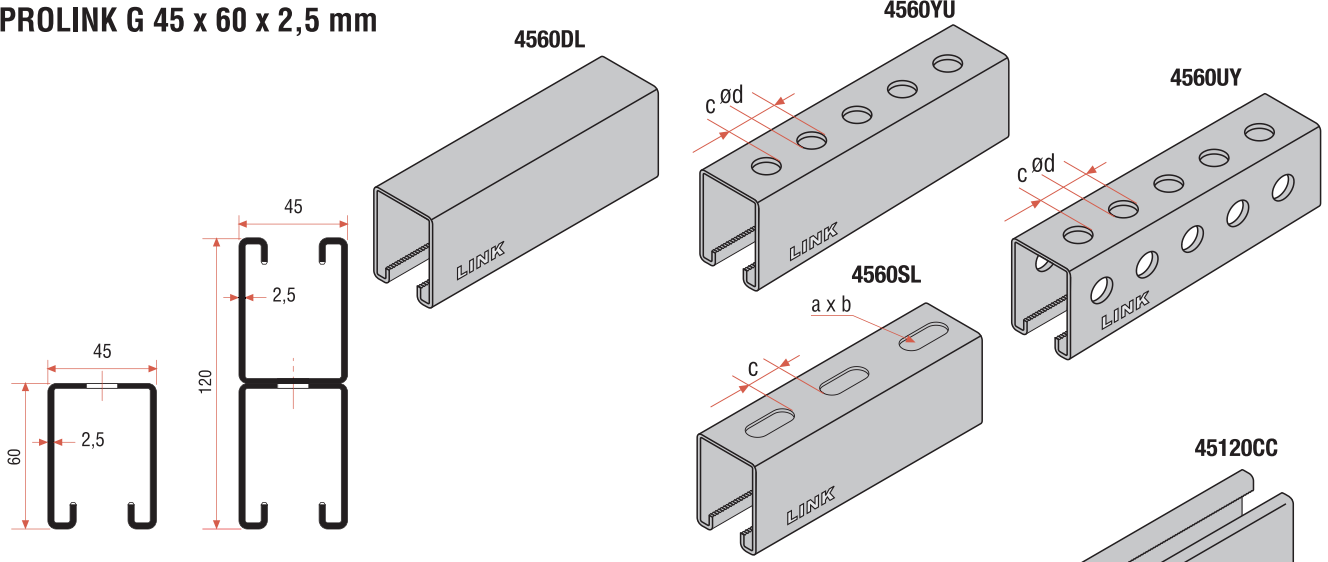
Kod Code	t mm	a x b mm	c mm	Ø d mm	Birim Ağırlık Unit Weight Kg/m
4545DL	2,5	-	-	-	2,91
4545DL.01	2,0	-	-	-	2,33
4545SL	2,5	13 x 30	30	-	2,82
4545SL.01	2,0	13 x 30	30	-	2,26
4545YU	2,5	-	15	12,5	2,82
4545YU.01	2,0	-	15	12,5	2,25
4545UY	2,5	-	15	12,5	2,63
4545UY.01	2,0	-	15	12,5	2,10
4590CC	2,5	13 x 30	30	-	5,64
4590CC.01	2,0	13 x 30	30	-	4,52

Standart boy / Standard Length : 4.000, 6.000 mm

TR 2006/02200 Y
TASARIM TESCİL NO 2006/01981

PROLINK G

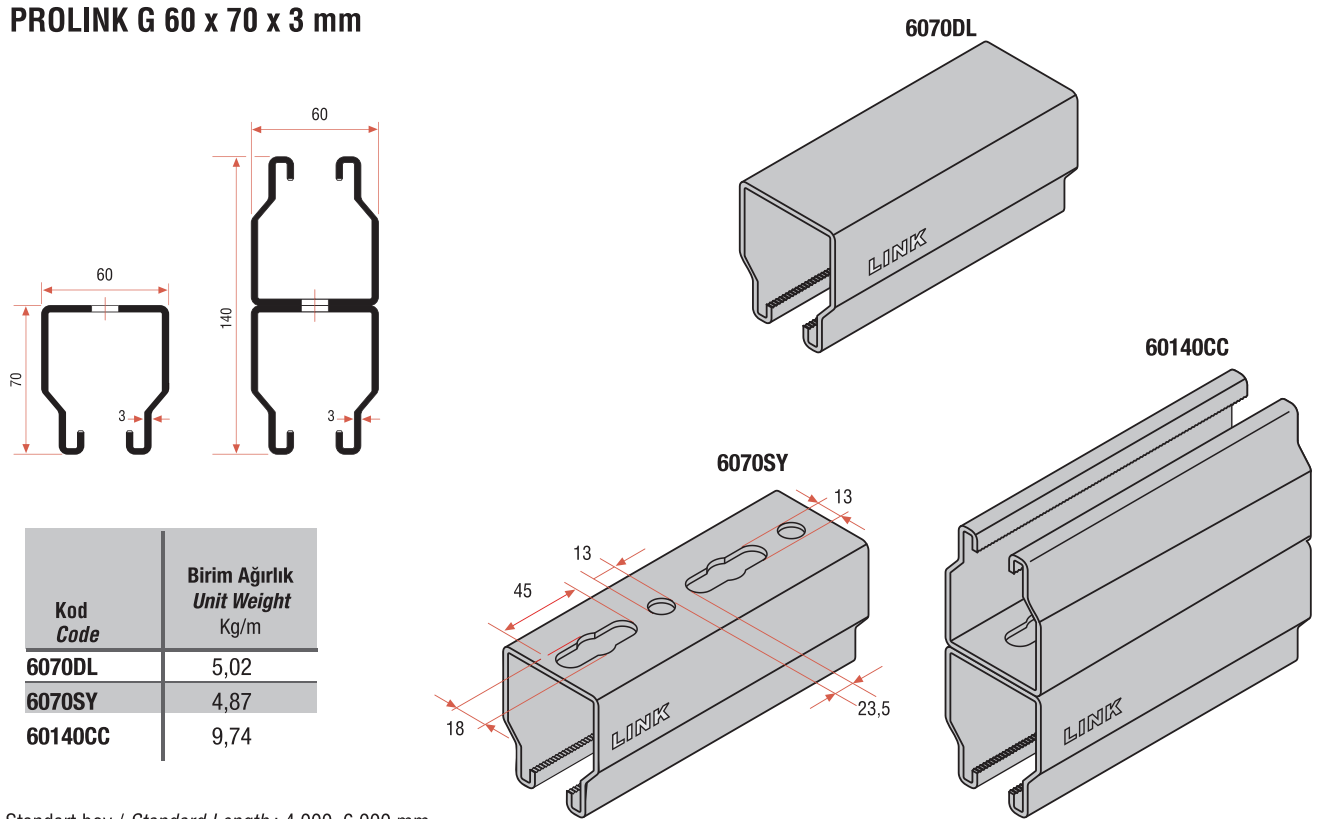
PROLINK G 45 x 60 x 2,5 mm



Kod Code	t mm	a x b mm	c mm	Ø d mm	Birim Ağırlık Unit Weight Kg/m
4560DL	2,5	-	-	-	3,50
4560SL	2,5	13 x 30	30	-	3,41
4560YU	2,5	-	20	11	3,41
4560UY	2,5	-	20	11	3,21
45120CC	2,5	13 x 30	30	-	6,82

Standart boy / Standard Length : 4.000, 6.000 mm

PROLINK G 60 x 70 x 3 mm

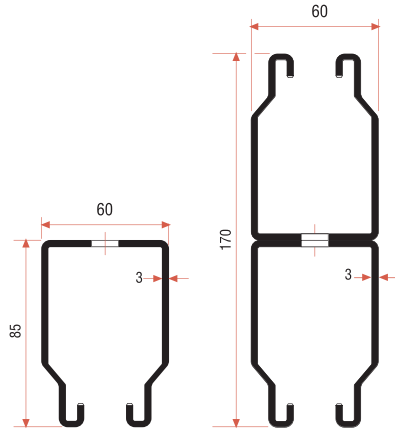


Kod Code	Birim Ağırlık Unit Weight Kg/m
6070DL	5,02
6070SY	4,87
60140CC	9,74

Standart boy / Standard Length : 4.000, 6.000 mm

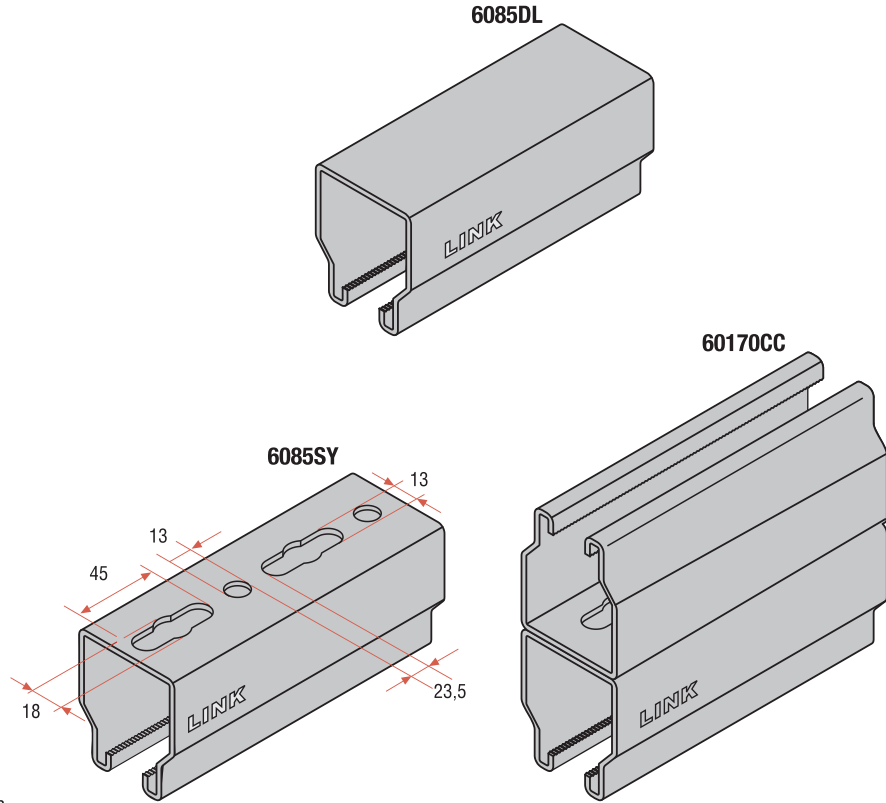
TR 2006/02200 Y
TASARIM TESCİL NO 2006/01981

PROLINK G 60 x 85 x 3 mm

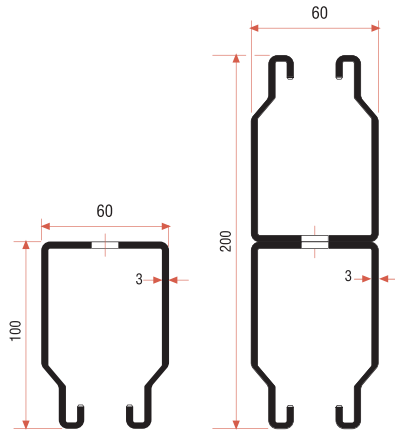


Kod Code	Birim Ağırlık Unit Weight Kg/m
6085DL	5,72
6085SY	5,55
60170CC	11,10

Standart boy / Standard Length : 4.000, 6.000 mm

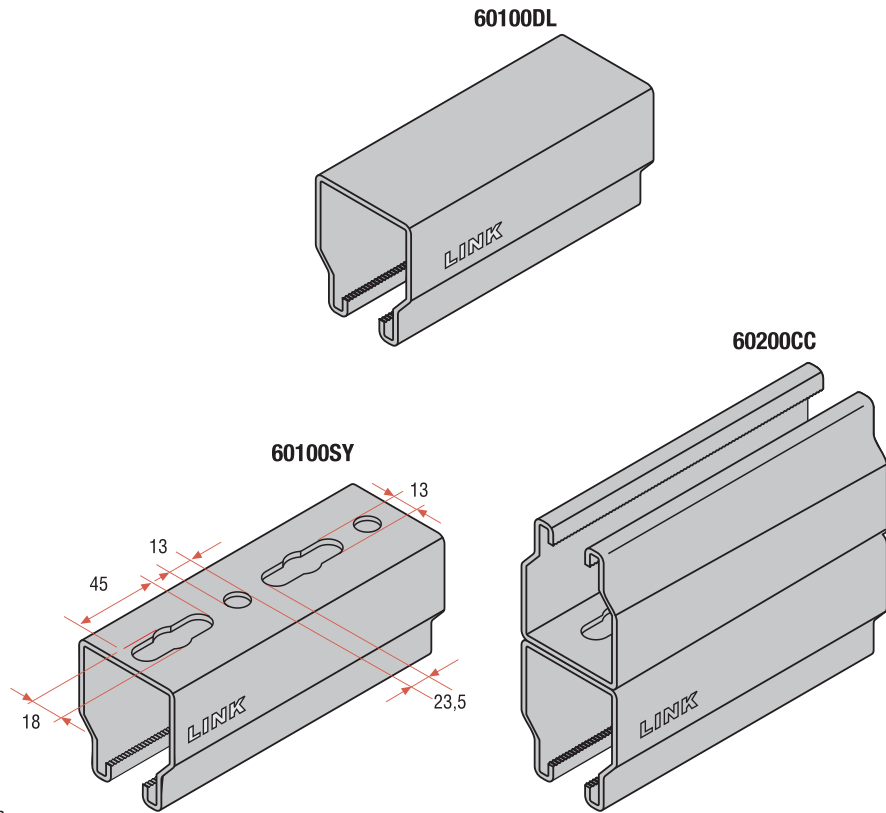


PROLINK G 60 x 100 x 3 mm



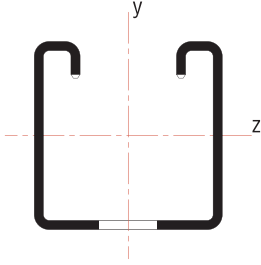
Kod Code	Birim Ağırlık Unit Weight Kg/m
60100DL	6,43
60100SY	6,26
60200CC	12,52

Standart boy / Standard Length : 4.000, 6.000 mm



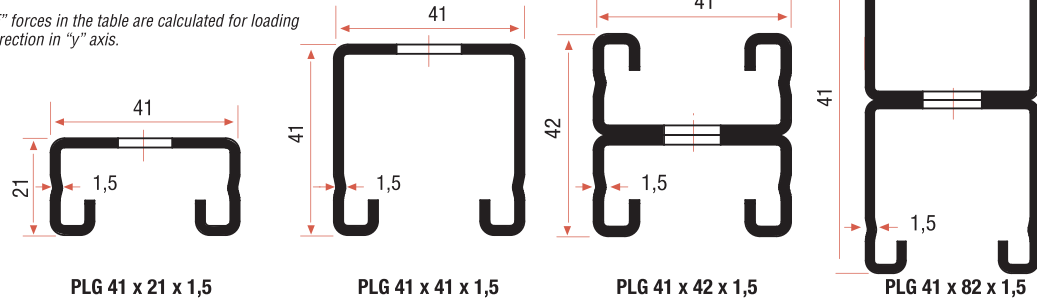
PROLINK G Profil Yük Dağılım Şeması / PROLINK G Profiles Selection Outline

1,5 MM



Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

"F" forces in the table are calculated for loading direction in "y" axis.



PLG 41 x 21 x 1,5

PLG 41 x 41 x 1,5

PLG 41 x 42 x 1,5

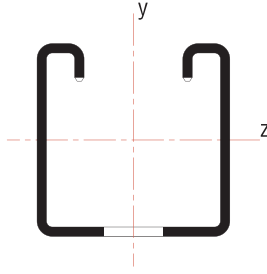
PLG 41 x 82 x 1,5

	PROLINK							
	DX51 D + Z							
Malzeme / Material								
DIN 10346/10147/10142								
Profil Kesit Alanı A / Profile Section Area A (cm ²)	1,59		2,19		3,18		4,38	
Mukavemet Momenti / Section Modulus Wz (cm ³)	0,84		2,32		2,22		5,97	
Mukavemet Momenti / Section Modulus Wy (cm ³)	1,84		2,98		3,68		6,31	
Atalet Momenti / Moment of inertia Iz (cm ⁴)	1,00		5,13		4,65		25,88	
Atalet Momenti / Moment of inertia Iy (cm ⁴)	3,78		6,12		7,55		12,24	
Jirasyon Çapı / Radius of gyration rz (cm)	0,79		2,32		1,21		2,43	
Jirasyon Çapı / Radius of gyration ry (cm)	1,54		2,98		1,54		1,67	
Profil Boyu Profil Length mm	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)
6000							0,18	24,90
5000							0,33	20,63
4000							0,59	16,45
3500					0,10	13,75	0,81	14,47
3000					0,17	12,28	1,14	12,42
2500					0,27	10,20	1,51	9,35
2000			0,52	8,36	0,46	8,34	1,90	5,95
1500	0,17	6,05	0,94	6,23	0,84	6,20	2,55	3,34
1250	0,26	5,21	1,19	4,54	1,13	4,78	3,08	2,32
1000	0,41	4,14	1,50	2,92	1,43	3,08	3,85	1,48
750	0,72	3,04	2,00	1,64	1,90	1,72	5,15	0,84
500	1,08	1,34	3,00	0,73	2,87	0,77	7,74	0,37
300	1,81	0,49	5,00	0,26	4,80	0,28	12,90	0,13
250	2,17	0,34	6,00	0,18	5,76	0,19	15,48	0,09
200	2,72	0,22	7,52	0,12	7,20	0,12	19,37	0,06
100	5,45	0,05	15,05	0,03	14,40	0,03	38,75	0,01
Profil Boyu Profil Length mm	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)	Mak Dizayn Yüğü Max Design Load kN	Sehim Deflection (mm)
6000							0,29	25,01
5000							0,53	20,69
4000							0,96	16,69
3500					0,17	14,32	1,30	14,51
3000					0,27	12,20	1,83	12,46
2500					0,44	10,37	2,70	10,41
2000	0,14	8,09	0,83	8,34	0,73	8,28	3,81	7,43
1500	0,28	6,22	1,50	6,22	1,35	6,23	5,11	4,17
1250	0,41	5,14	2,18	5,19	1,97	5,21	6,16	2,90
1000	0,66	4,16	3,00	3,65	2,86	3,84	7,71	1,85
750	1,18	3,11	4,00	2,05	3,82	2,16	10,30	1,04
500	2,17	1,69	6,01	0,91	5,75	0,96	15,48	0,46
300	3,63	0,61	10,03	0,33	9,60	0,35	25,80	0,17
250	4,35	0,42	12,04	0,23	11,52	0,24	30,98	0,12
200	5,45	0,27	15,05	0,15	14,40	0,15	38,75	0,07
100	10,90	0,07	30,10	0,04	28,80	0,04	77,50	0,02

Belirtilen L(cm) boyunda izin verilen $\delta_{adm} = 144 \text{ N/mm}^2$ ve maksimum seğim $f_{adm} = L / 240$ değeri aşılmamıştır.
In case of the indicated max. spans L (cm), the admissible $\delta_{adm} = 144 \text{ N/mm}^2$ as well as a maximum deflection of $f_{adm} = L / 240$ is not exceeded.

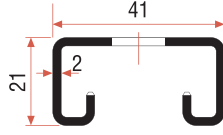
PROLINK G Profil Yük Dağılım Şeması / PROLINK G Profiles Selection Outline

2,0 MM

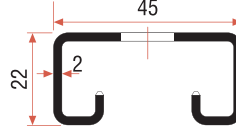


Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

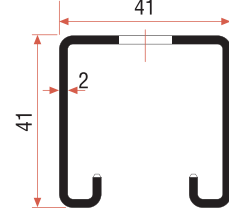
"F" forces in the table are calculated for loading direction in "y" axis.



PLG 41 x 21 x 2



PLG 45 x 22 x 2



PLG 41 x 41 x 2

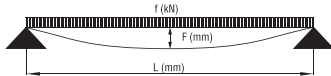
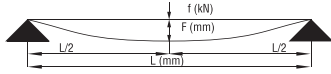
Malzeme / Material
EN 10346

Profil Kesit Alanı A / Profile Section Area A (cm ²)	2,06	2,21	2,86
Mukavemet momenti / Section Modulus W _z (cm ³)	1,04	1,18	2,96
Mukavemet momenti / Section Modulus W _y (cm ³)	2,25	2,69	3,74
Atalet momenti / Moment of Inertia I _z (cm ⁴)	1,23	1,47	6,52
Atalet momenti / Moment of Inertia I _y (cm ⁴)	4,61	6,05	7,66
Jirasyon Çapı / Radius of gyration r _z (cm)	0,77	0,82	1,51
Jirasyon Çapı / Radius of gyration r _y (cm)	1,50	1,65	1,64

PROLINK

DX51 D + Z

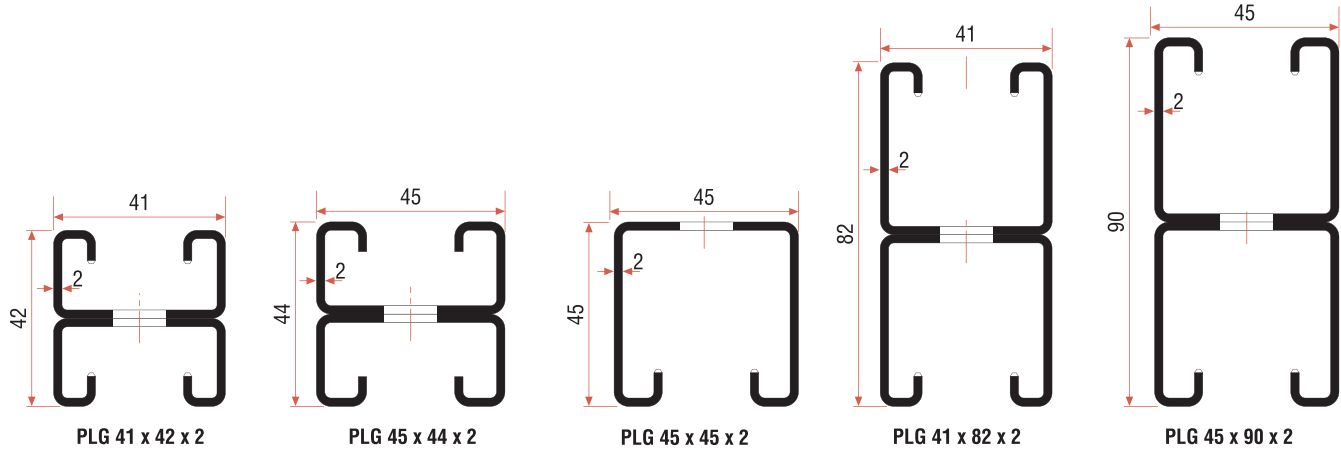
Profil Boyu Profile Length (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6.000						
5.000						
4.000					0,11	15,75
3.500					0,17	14,04
3.000					0,26	12,28
2.500					0,40	10,28
2.000	0,10	7,61	0,13	8,08	0,65	8,23
1.500	0,21	6,08	0,25	6,03	1,19	6,21
1.250	0,31	5,06	0,38	5,17	1,52	4,57
1.000	0,50	4,11	0,6	4,12	1,91	2,93
750	0,89	3,05	1,01	2,90	2,55	1,64
500	1,34	1,36	1,52	1,29	3,83	0,73
300	2,24	0,49	2,54	0,46	6,39	0,26
250	2,69	0,34	3,06	0,32	7,67	0,18
200	3,37	0,22	3,82	0,21	9,60	0,12
100	6,74	0,05	7,65	0,05	19,20	0,03



Profil Boyu Profile Length (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak. Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6.000						
5.000						
4.000					0,19	16,60
3.500					0,28	14,37
3.000					0,42	12,38
2.500					0,64	10,28
2.000	0,17	8,02	0,21	8,15	1,05	8,30
1.500	0,34	6,15	0,41	6,17	1,91	6,23
1.250	0,50	5,10	0,61	5,19	2,77	5,19
1.000	0,81	4,16	0,97	4,16	3,82	3,65
750	1,45	3,11	1,74	3,12	5,10	2,05
500	2,69	1,70	3,05	1,61	7,67	0,91
300	4,49	0,61	5,09	0,58	12,79	0,33
250	5,39	0,42	6,12	0,40	15,35	0,23
200	6,74	0,27	7,65	0,26	19,20	0,15
100	13,49	0,07	15,31	0,06	38,40	0,04

Belirtilen L(cm) boyunda izin verilen $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ ve maksimum seğıim $f_{adm} = L / 240$ değeri aşılmamıştır.

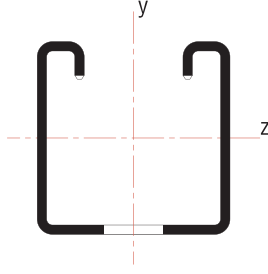
Incase of the indicated max. spans L (cm), the admissible $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ as well as a maximum deflection of $f_{adm} = L / 240$ is not exceeded.



PROLINK									
DX51 D + Z									
3,52		4,42		3,10		5,74		6,22	
2,63		3,17		4,16		8,27		9,61	
4,50		5,38		4,57		7,49		9,16	
5,53		6,96		8,52		33,90		43,24	
9,22		12,10		10,28		15,36		20,61	
1,25		1,26		1,66		2,43		2,64	
1,62		1,65		1,82		1,64		1,82	
Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
						0,24	24,98	0,33	24,75
						0,43	20,46	0,58	20,68
0,12	14,08	0,10	16,28	0,16	16,13	0,78	16,55	1,02	16,64
		0,16	13,98	0,24	14,45	1,07	14,56	1,38	14,55
0,20	12,30	0,26	12,27	0,35	12,34	1,50	12,47	1,93	12,48
0,32	10,23	0,41	10,22	0,53	10,29	2,09	9,85	2,43	8,96
0,54	8,27	0,69	8,32	0,86	8,27	2,64	6,30	3,07	5,74
1,00	6,22	1,26	6,20	1,56	6,21	3,54	3,53	4,12	3,22
1,45	5,16	1,62	4,58	2,14	4,91	4,26	2,45	4,95	2,23
1,69	3,06	2,04	2,94	2,68	3,14	5,34	1,57	6,21	1,43
2,26	1,72	2,73	1,65	3,59	1,77	7,13	0,88	8,29	0,80
3,40	0,76	4,10	0,73	5,39	0,79	10,72	0,39	12,45	0,36
5,68	0,28	6,85	0,26	8,99	0,28	17,87	0,14	20,77	0,13
6,82	0,19	8,22	0,18	10,79	0,20	21,45	0,10	24,93	0,09
8,52	0,12	10,28	0,12	13,49	0,13	26,82	0,06	31,17	0,06
17,06	0,03	20,56	0,03	26,98	0,03	53,65	0,02	62,33	0,01
Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
						0,38	24,83	0,53	24,82
				0,11	20,29	0,70	20,74	0,93	20,72
0,11	16,16	0,16	16,28	0,26	16,32	1,25	16,57	1,63	16,62
0,20	14,46	0,27	14,51	0,38	14,32	1,71	14,55	2,53	16,53
0,32	12,30	0,42	12,37	0,56	12,34	2,40	12,47	3,09	12,49
0,52	10,37	0,66	10,28	0,85	10,31	3,54	10,41	4,53	10,40
0,87	8,32	1,10	8,29	1,38	8,30	5,28	7,85	6,14	7,15
1,60	6,22	2,02	6,22	2,50	6,22	7,09	4,41	8,24	4,02
2,34	5,20	2,95	5,20	3,63	5,20	8,53	3,07	9,91	2,79
3,38	3,82	4,08	3,66	5,37	3,92	10,68	1,96	12,42	1,79
4,52	2,15	5,46	2,06	7,18	2,21	14,27	1,10	16,59	1,01
6,81	0,96	8,21	0,92	10,78	0,98	21,43	0,49	24,91	0,45
11,36	0,34	13,70	0,33	17,98	0,35	35,75	0,18	41,55	0,16
13,64	0,24	16,44	0,23	21,58	0,25	42,90	0,12	49,85	0,11
17,05	0,15	20,57	0,15	26,98	0,16	53,64	0,08	62,32	0,07
34,12	0,04	41,13	0,04	53,95	0,04	107,30	0,02	124,65	0,02

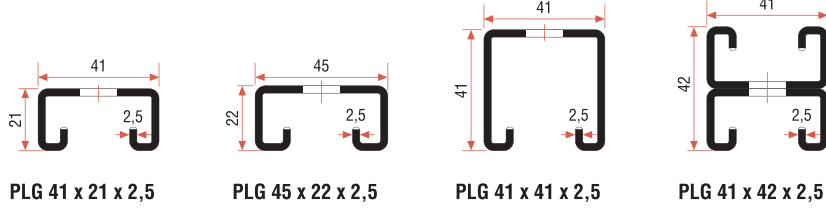
PROLINK G Profil Yük Dağılımı Şeması / PROLINK G Profiles Selection Outline

2,5 MM



Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

"F" forces in the table are calculated for loading direction in "y" axis.

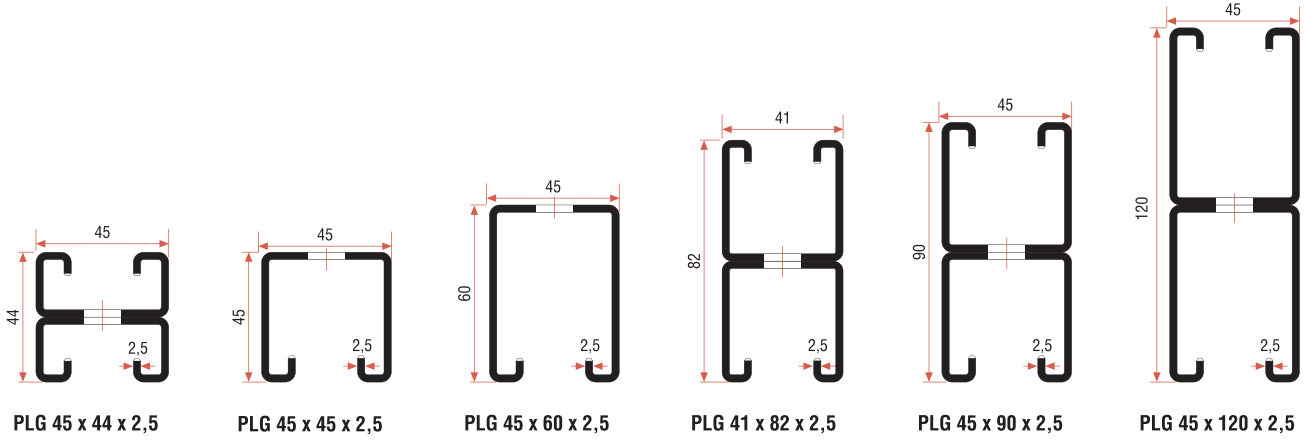


Malzeme / Material
EN 10346

PROLINK								
DX51 D + Z								
Profil Kesit Alanı / Profile Section Area A (cm ²)	2,67		2,65		3,59		4,28	
Mukavemet momenti / Section Modulus W _z (cm ³)	1,36		1,33		3,68		3,13	
Mukavemet momenti / Section Modulus W _y (cm ³)	2,87		3,13		4,62		5,39	
Atalet momenti / Moment of Inertia I _z (cm ⁴)	1,65		1,67		8,16		6,57	
Atalet momenti / Moment of Inertia I _y (cm ⁴)	6,04		6,88		9,58		11,06	
Jirasyon Çapı / Radius of gyration r _z (cm)	0,79		0,79		1,51		1,24	
Jirasyon Çapı / Radius of gyration r _y (cm)	1,50		1,61		1,63		1,61	
Profil Boyu / Profile Length (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)
6.000								
5.000								
4.000					0,14	15,93	0,08	16,43
3.500					0,22	14,42	0,14	14,16
3.000					0,33	12,43	0,23	12,13
2.500					0,50	10,27	0,38	10,29
2.000	0,15	8,30	0,15	8,29	0,82	8,29	0,64	8,27
1.500	0,29	6,23	0,29	6,18	1,49	6,21	1,19	6,24
1.250	0,42	5,10	0,43	5,17	1,89	4,54	1,60	4,80
1.000	0,68	4,16	0,68	4,11	2,37	2,90	2,01	3,07
750	1,16	2,96	1,14	2,88	3,17	1,63	2,69	1,72
500	1,76	1,33	1,72	1,28	4,76	0,72	4,05	0,77
300	2,93	0,48	2,87	0,46	7,95	0,26	6,76	0,28
250	3,52	0,33	3,44	0,32	9,54	0,18	8,11	0,19
200	4,41	0,21	4,31	0,20	11,93	0,12	10,15	0,12
100	8,82	0,05	8,62	0,05	23,86	0,03	20,30	0,03
Profil Boyu / Profile Length (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim Defleksiyonu / Deflection (mm)
6.000								
5.000								
4.000					0,23	16,22	0,13	16,55
3.500					0,35	14,36	0,23	14,40
3.000					0,53	12,47	0,38	12,43
2.500					0,81	10,39	0,61	10,32
2.000	0,24	8,30	0,24	8,29	1,31	8,28	1,03	8,32
1.500	0,46	6,18	0,46	6,13	2,39	6,23	1,90	6,22
1.250	0,68	5,16	0,69	5,18	3,47	5,20	2,77	5,19
1.000	1,09	4,16	1,10	4,16	4,74	3,62	4,02	3,83
750	1,95	3,11	1,98	3,12	6,34	2,04	5,38	2,15
500	3,52	1,66	3,44	1,60	9,53	0,91	8,10	0,96
300	5,87	0,60	5,74	0,58	15,90	0,33	13,52	0,34
250	7,05	0,41	6,89	0,40	19,09	0,23	16,23	0,24
200	8,82	0,27	8,62	0,26	23,87	0,15	20,30	0,15
100	17,64	0,07	17,25	0,06	47,74	0,04	40,60	0,04

Belirtilen L (cm) boyunda izin verilen $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ ve maksimum seğim $f_{adm} = L / 240$ değeri aşılmamıştır.

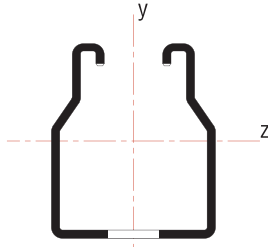
In case of the indicated max. spans L (cm), the admissible $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ as well as a maximum deflection of $f_{adm} = L / 240$ is not exceeded.



PROLINK											
DX51 D + Z											
4,78		3,82		4,57		6,28		7,66		9,16	
3,77		5,02		6,51		9,42		11,65		18,77	
6,44		5,53		7,04		9,01		11,10		14,11	
8,30		10,22		21,03		38,62		52,42		112,60	
14,49		12,44		15,83		18,48		24,96		31,75	
1,32		1,64		2,15		2,48		2,62		3,51	
1,74		1,81		1,86		1,71		1,81		1,86	
Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
				0,11	24,24	0,25	24,65	0,40	25,00	1,11	24,82
				0,24	20,44	0,48	20,61	0,70	20,73	1,72	20,73
0,11	15,91	0,19	16,18	0,46	16,46	0,88	16,60	1,23	16,61	2,82	16,63
0,19	14,13	0,28	14,22	0,64	14,45	1,21	14,57	1,67	14,55	3,39	13,23
0,31	12,38	0,42	12,39	0,91	12,40	1,70	12,46	2,34	12,50	3,98	9,70
0,49	10,30	0,64	10,38	1,35	10,34	2,37	9,84	2,95	8,98	4,80	6,72
0,82	8,31	1,03	8,27	2,07	7,97	3,00	6,30	3,72	5,74	6,04	4,30
1,51	6,24	1,87	6,21	2,79	4,49	4,03	3,54	4,99	3,22	8,07	2,41
1,93	4,58	2,58	4,93	3,35	3,11	4,85	2,45	6,01	2,24	9,70	1,68
2,42	2,92	3,24	3,16	4,20	1,99	6,08	1,57	7,53	1,43	12,15	1,07
3,24	1,64	4,33	1,78	5,61	1,12	8,12	0,88	10,06	0,81	16,20	0,60
4,88	0,73	6,50	0,79	8,43	0,50	12,20	0,39	15,10	0,36	24,35	0,27
8,14	0,26	10,85	0,28	14,07	0,18						
9,77	0,18	13,02	0,20	16,89	0,12						
12,22	0,12	16,28	0,13								
24,45	0,03	32,56	0,03								
Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
				0,18	24,49	0,40	24,65	0,64	25,00	1,79	24,99
				0,39	20,66	0,77	20,65	1,12	20,73	2,76	20,78
0,19	16,58	0,31	16,42	0,74	16,54	1,41	16,62	1,97	16,62	4,52	16,66
0,31	14,32	0,46	14,53	1,03	14,53	1,93	14,53	2,67	14,54	5,99	14,57
0,50	12,46	0,67	12,36	1,46	12,44	2,72	12,46	3,74	12,48	7,96	12,07
0,79	10,37	1,02	10,34	2,17	10,39	4,02	10,41	5,49	10,41	9,61	8,38
1,31	8,30	1,65	8,28	3,46	8,32	6,00	7,84	7,45	7,16	12,08	5,37
2,41	6,22	3,00	6,23	5,58	5,60	8,07	4,41	9,99	4,02	16,15	3,02
3,51	5,19	4,35	5,20	6,71	3,89	9,71	3,07	12,03	2,80	19,42	2,10
4,85	3,65	6,48	3,95	8,41	2,49	12,17	1,96	15,06	1,79	24,30	1,34
6,49	2,05	8,66	2,22	11,23	1,40	16,25	1,10	20,12	1,01	32,40	0,75
9,76	0,91	13,01	0,99	16,87	0,62	24,42	0,49	30,22	0,45	48,70	0,34
16,28	0,33	21,70	0,36	28,14	0,22						
19,55	0,23	26,04	0,25	33,78	0,16						
24,44	0,15	32,56	0,16								
48,90	0,04	65,12	0,04								

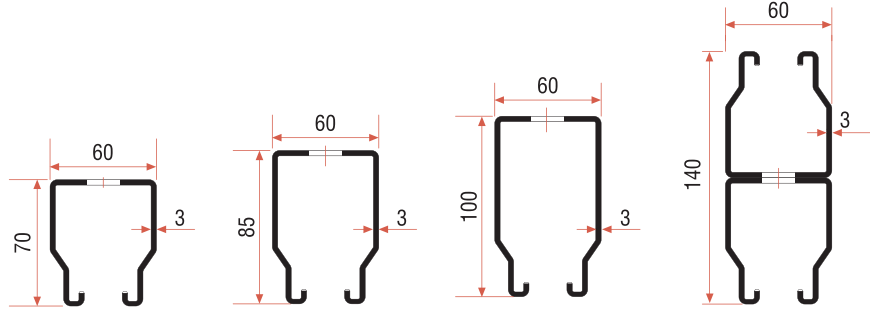
PROLINK G Profil Yük Dağılımı Şeması / PROLINK G Profiles Selection Outline

3,0 MM



Tablodaki "F" kuvvetleri yüklemenin "y" eksenini doğrultusunda olduğu durumlar için hesaplanmıştır.

"F" forces in the table are calculated for loading direction in "y" axis.



PLG 60 x 70 x 3

PLG 60 x 85 x 3

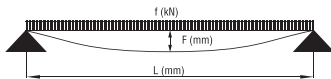
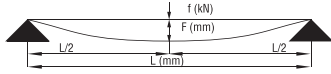
PLG 60 x 100 x 3

PLG 60 x 140 x 3

Malzeme / Material
EN 10346

Profil Kesit Alanı / Profile Section Area A (cm²)
Mukavemet momenti / Section Modulus W_z (cm³)
Mukavemet momenti / Section Modulus W_y (cm³)
Atalet momenti / Moment of Inertia I_z (cm⁴)
Atalet momenti / Moment of Inertia I_y (cm⁴)
Jirasyon Çapı / Radius of gyration r_z (cm)
Jirasyon Çapı / Radius of gyration r_y (cm)

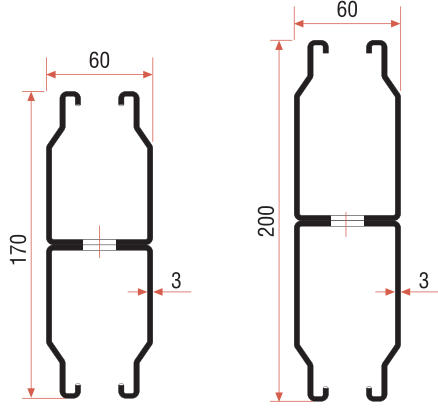
PROLINK								
DX51 D + Z								
	6,72	7,54	8,48	12,61				
Profil Kesit Alanı / Profile Section Area A (cm ²)	6,72	7,54	8,48	12,61				
Mukavemet momenti / Section Modulus W _z (cm ³)	13,18	17,42	22,32	30,01				
Mukavemet momenti / Section Modulus W _y (cm ³)	11,29	13,33	16,17	22,55				
Atalet momenti / Moment of Inertia I _z (cm ⁴)	41,62	67,10	102,06	210,06				
Atalet momenti / Moment of Inertia I _y (cm ⁴)	34,04	39,33	48,51	67,68				
Jirasyon Çapı / Radius of gyration r _z (cm)	2,49	2,98	3,47	4,08				
Jirasyon Çapı / Radius of gyration r _y (cm)	2,25	2,28	2,39	2,32				
Profil Boyu / Profile Length (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)
6.000	0,30	24,85	0,57	24,85	0,95	24,88	2,08	24,94
5.000	0,54	20,62	0,95	20,76	1,51	20,72	3,22	20,81
4.000	0,97	16,65	1,62	16,64	2,52	16,65	4,67	14,85
3.500	1,32	14,58	2,17	14,53	3,36	14,57	5,39	11,35
3.000	1,85	12,49	3,02	12,47	4,64	12,49	6,34	8,32
2.500	2,72	10,41	4,45	10,48	5,71	8,82	7,67	5,77
2.000	4,22	8,16	5,59	6,69	7,18	5,64	9,64	3,69
1.500	5,66	4,59	7,49	3,76	9,61	3,17	12,90	2,07
1.250	6,81	3,19	9,01	2,61	11,54	2,20	15,51	1,44
1.000	8,52	2,04	11,28	1,67	14,45	1,41	19,42	0,92
750	11,38	1,15	15,05	0,94	19,28	0,79	25,94	0,52
500	17,10	0,51	22,60	0,42	28,94	0,35	38,90	0,23
300								
250								
200								
100								



Profil Boyu / Profile Length (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)	Mak. Dizayn Yüğü / Max. Design Load (kN)	Sehim / Deflection (mm)
6.000	0,48	24,85	0,91	24,81	1,52	24,88	3,33	24,96
5.000	0,87	20,74	1,52	20,76	2,43	20,83	5,15	20,80
4.000	1,55	16,64	2,59	16,63	4,03	16,64	8,43	16,66
3.500	2,10	14,50	3,48	14,56	5,38	14,58	10,78	14,07
3.000	2,96	12,49	4,84	12,49	7,42	12,48	12,69	10,35
2.500	4,35	10,41	7,08	10,42	10,81	10,41	15,33	7,18
2.000	6,88	8,32	11,15	8,32	14,36	7,04	19,28	4,60
1.500	11,32	5,73	14,98	4,70	19,22	3,96	25,80	2,58
1.250	13,62	3,98	18,02	3,26	23,10	2,75	31,05	1,80
1.000	17,05	2,55	22,54	2,09	28,90	1,76	38,85	1,15
750	22,78	1,43	30,08	1,17	38,58	0,99	51,85	0,65
500	34,20	0,64	45,20	0,52	57,90	0,44	77,80	0,29
300								
250								
200								
100								

Belirtilen L (cm) boyunda izin verilen $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ ve maksimum seçim $f_{adm} = L / 240$ değeri aşılmamıştır.

In case of the indicated max. spans L (cm), the admissible $\delta_{adm} = 144 \text{ N} / \text{mm}^2$ as well as a maximum deflection of $f_{adm} = L / 240$ is not exceeded.



PLG 60 x 170 x 3		PLG 60 x 200 x 3	
DX51 D + Z			
14,40		16,21	
41,98		55,86	
27,37		32,30	
356,92		558,60	
82,16		96,92	
4,98		2,45	
2,39		6,36	
Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
3,74	24,95	5,66	23,51
5,17	19,17	6,93	16,25
6,59	12,22	8,81	10,37
7,59	9,33	10,14	7,93
8,91	6,84	11,90	5,82
10,76	4,75	14,34	4,03
13,50	3,03	18,00	2,58
18,08	1,71	24,08	1,45
21,73	1,18	28,90	1,01
27,18	0,76	36,20	0,64
36,28	0,43	48,30	0,36
54,45	0,19	72,45	0,16

Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
5,99	24,98	9,66	24,96
9,03	20,81	13,87	20,11
13,18	15,15	17,62	12,87
15,18	11,60	20,28	9,86
17,82	8,51	23,80	7,25
21,50	5,91	28,68	5,03
27,00	3,78	36,00	3,22
36,15	2,13	48,15	1,81
43,45	1,48	57,85	1,26
54,35	0,95	72,40	0,81
72,52	0,53	96,50	0,45
108,95	0,24	144,85	0,20

Örnek / Example -1

F= 7,50 kN (750 kg)

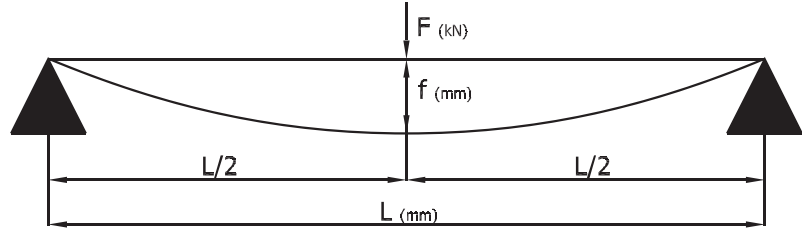
L= 1250mm (1,25m) Yük profilin orta noktasından uygulanmaktadır.

Load shall be compensated in the middle of the profile.

Seçim Prosedürü / Selection Procedure

- 1- L=1250mm (1,25m) olan satırı seçin./ Select line with L=1250mm (1,25m)
- 2- Yüğe eşit veya daha büyük olan ilk ve sıradaki sütunu belirleyin. F ≥ 7,50 kN (750 kg)
Uygun profil tipleri 60x85x3,0'dan 60x200x3,0'a kadar olan kesitlerdir.
Assign column with equal load or next bigger load F ≥ 7,50 kN (750 kg)
Suitable profile rails are type 60x85x3,0 up to type 60x200x3,0

Profil Boyu Profil Length (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6000	0,30	24,85	0,57	24,85	0,95	24,88
5000	0,54	20,62	0,95	20,76	1,51	20,72
4000	0,97	16,65	1,62	16,64	2,52	16,65
3500	1,32	14,58	2,17	14,53	3,36	14,57
3000	1,85	12,49	3,02	12,47	4,64	12,49
2500	2,72	10,41	4,45	10,48	5,71	8,82
2000	4,22	8,16	5,59	6,69	7,18	5,64
1500	5,66	4,59	7,49	3,76	9,61	3,17
1250	6,81	3,19	9,01	2,61	11,54	2,20
1000	8,52	2,04	11,28	1,67	14,45	1,41



Örnek / Example -2

F= 9,69 kN (969kg)

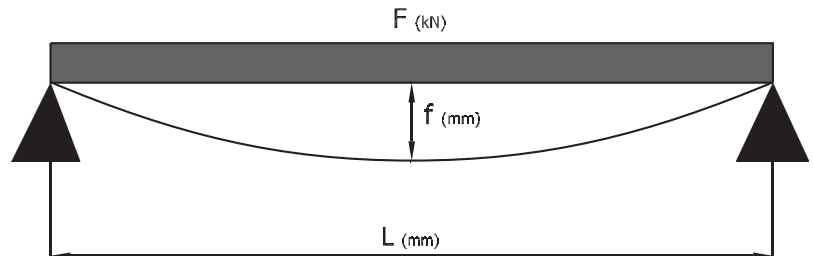
L= 2000mm (2m) Yük profile yayılı olarak uygulanmaktadır.

Load shall be compensated uniformly over profile.

Seçim Prosedürü / Selection Procedure

- 1- L=2000mm (2m) olan satırı seçin. Select line with L=2000mm (2m)
- 2- Yüğe eşit veya daha büyük olan ilk ve sıradaki sütunu belirleyin. F ≥ 9,69 kN (969kg)
Assign column with equal load or next bigger load F ≥ 9,69 kN (969kg)
Uygun profil tipleri 60x100x3,0'dan 60x200x3,0'a kadar olan kesitlerdir.
Suitable profile rails are type 60x100x3,0 up to type 60x200x3,0

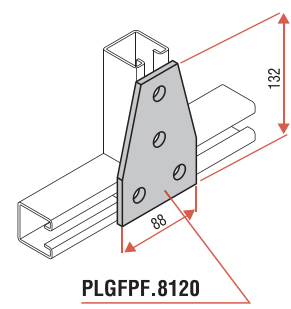
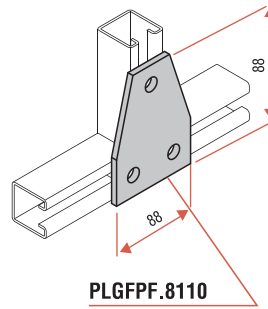
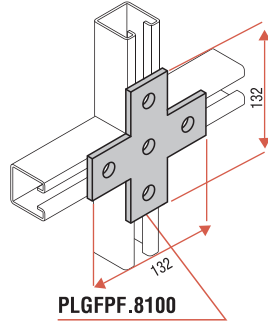
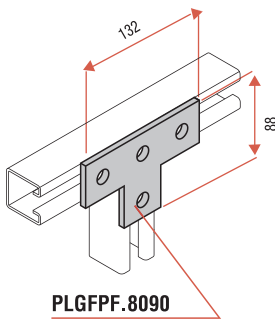
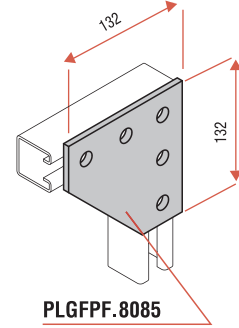
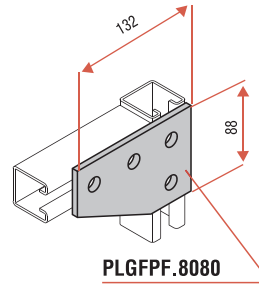
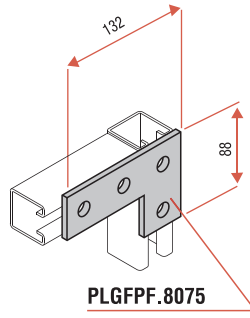
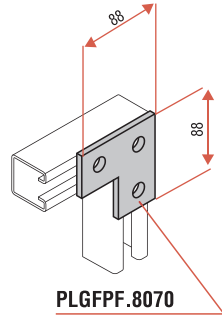
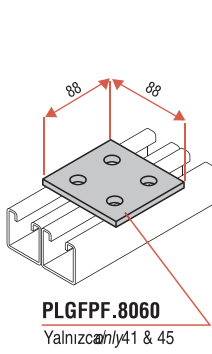
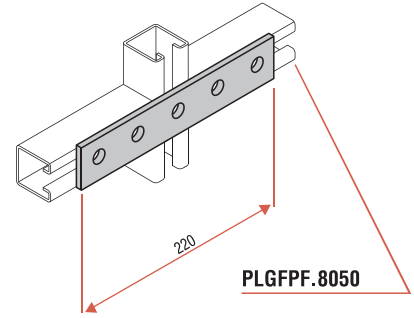
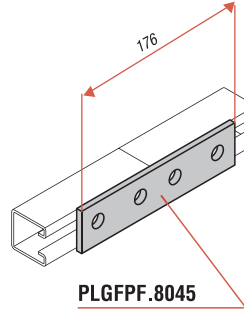
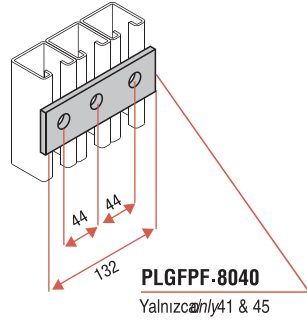
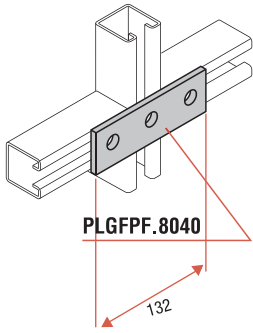
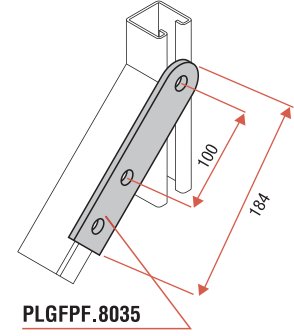
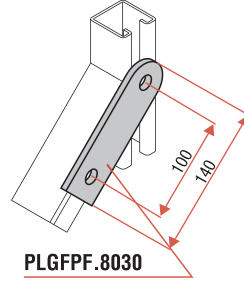
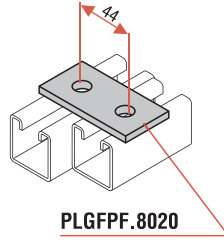
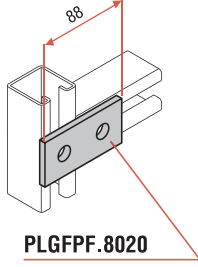
Profil Boyu Profil Length (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)	Mak.Dizayn Yüğü Max. Design Load kN	Sehim Deflection (mm)
6000	0,48	24,85	0,91	24,81	1,52	24,88
5000	0,87	20,74	1,52	20,76	2,43	20,83
4000	1,55	16,64	2,59	16,63	4,03	16,64
3500	2,10	14,50	3,48	14,56	5,38	14,58
3000	2,96	12,49	4,84	12,49	7,42	12,48
2500	4,35	10,41	7,08	10,42	10,81	10,41
2000	6,88	8,32	11,15	8,32	14,36	7,04
1500	11,32	5,73	14,98	4,70	19,22	3,96
1250	13,62	3,98	18,02	3,26	23,10	2,75
1000	17,05	2,55	22,54	2,09	28,90	1,76



PROLINK Platin Fittingsleri / PROLINK Flat Platin Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

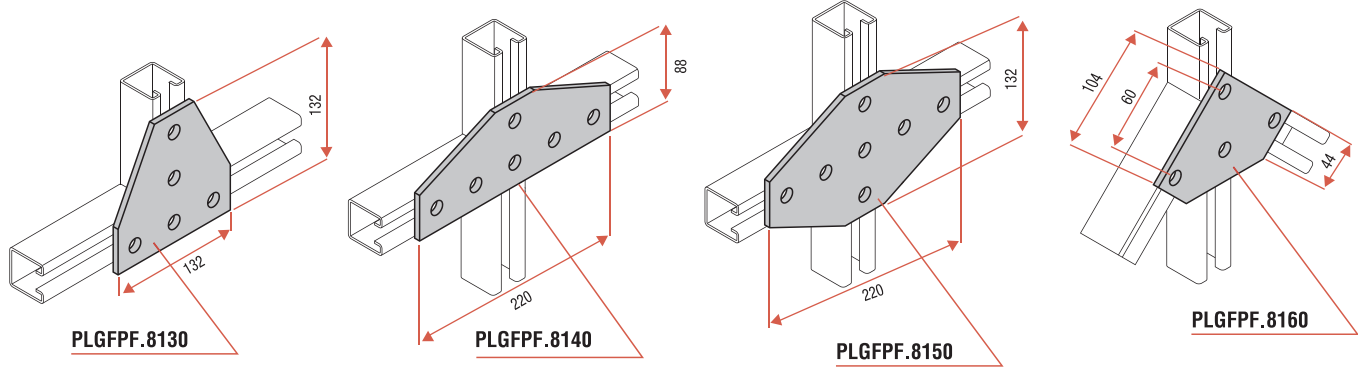


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve 41 - 45 - 60 serisi G profillerle kullanılmak üzere dizayn edilmişlerdir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 - 45 - 60 series are designed at G prof

PROLINK Platin Fittingsleri / PROLINK Flat Platin Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

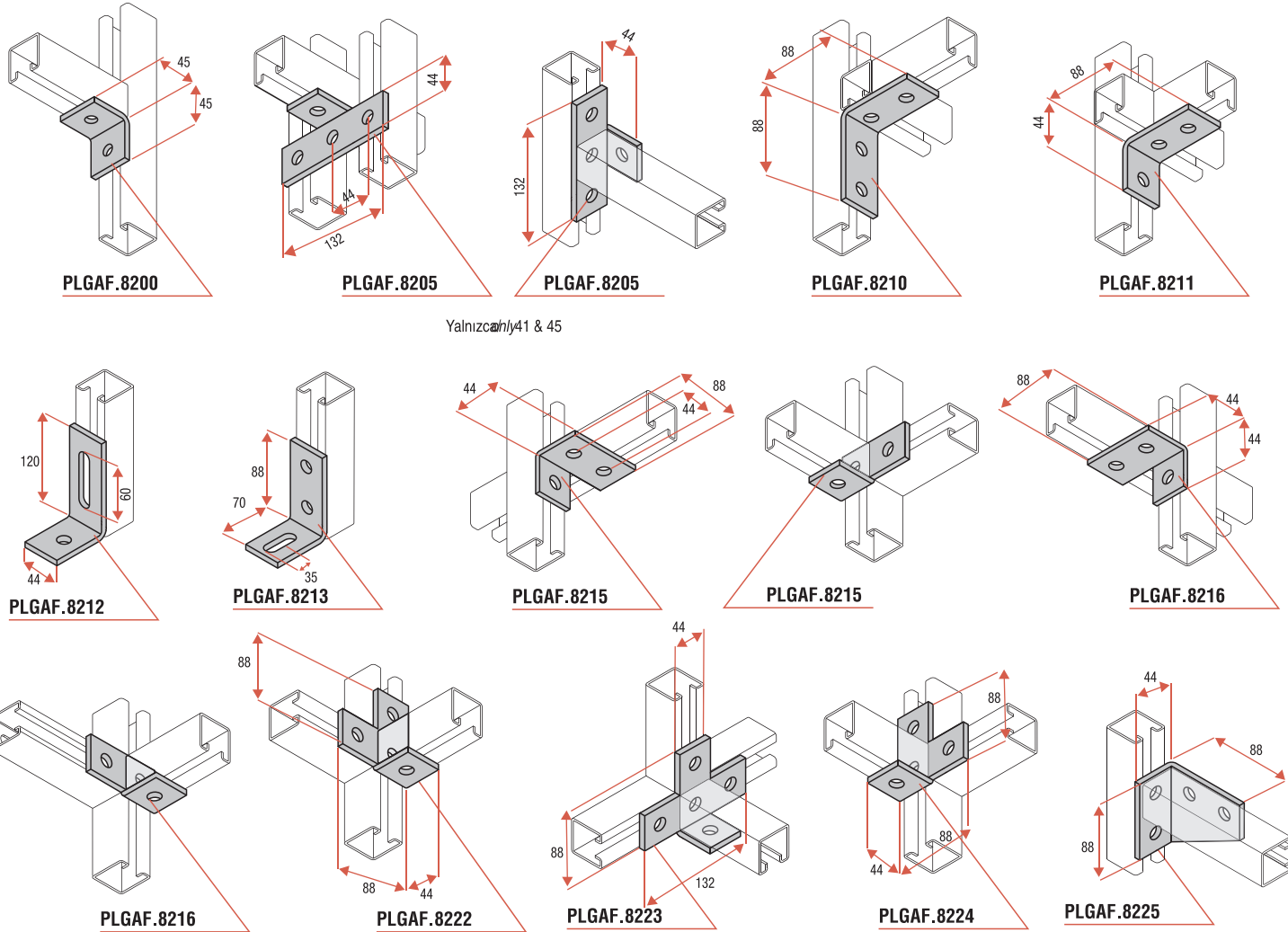


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve 41 - 45 - 60 serisi G profillerle kullanılmak üzere dizayn edilmişlerdir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 - 45 - 60 series are designed at G prof

PROLINK Köşe Bağlantı Fittingsleri / PROLINK Angle Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)



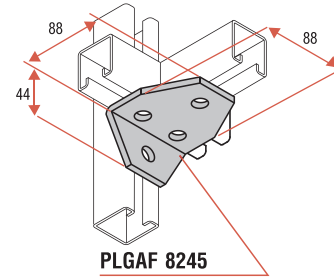
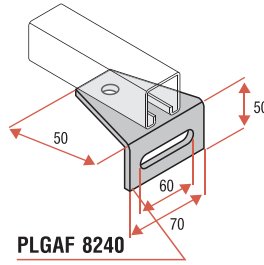
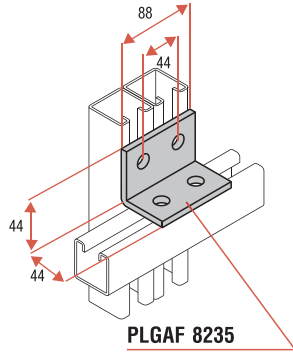
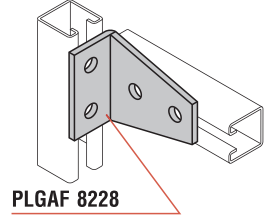
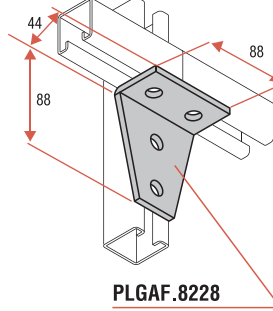
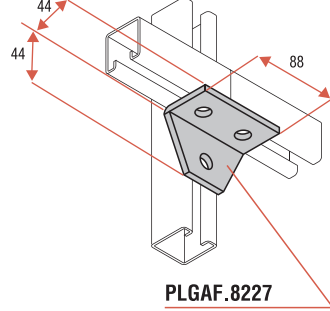
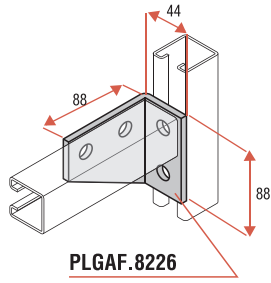
Yalnızca 41 & 45

Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve 41 - 45 - 60 serisi G profillerle kullanılmak üzere dizayn edilmişlerdir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 - 45 - 60 series are designed at G prof

PROLINK Köşe Bağlantı Fittingsleri / PROLINK Angle Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

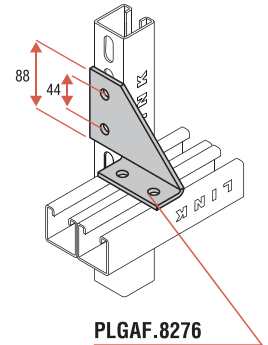
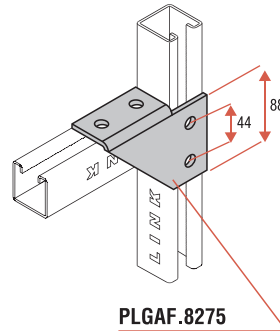
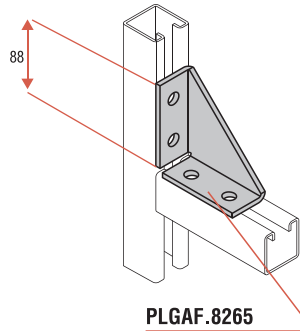
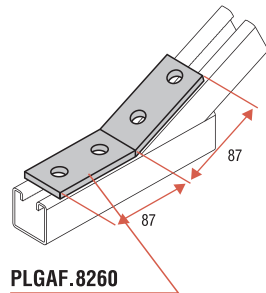
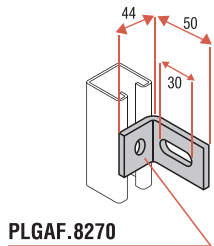
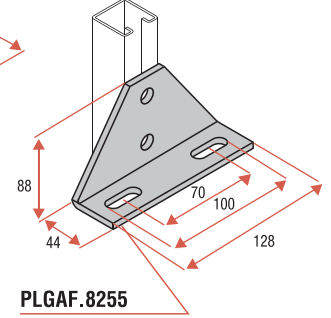
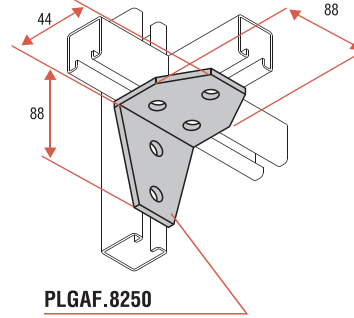
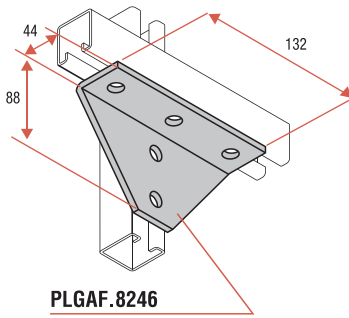
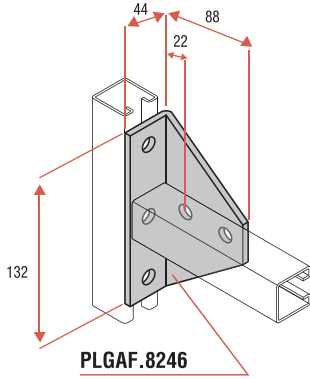


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve 41 - 45 - 60 serisi G profillerle kullanılmak üzere dizayn edilmişlerdir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 - 45 - 60 series are designed at G prof

PROLINK Köşe Bağlantı Fittingsleri / PROLINK Angle Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

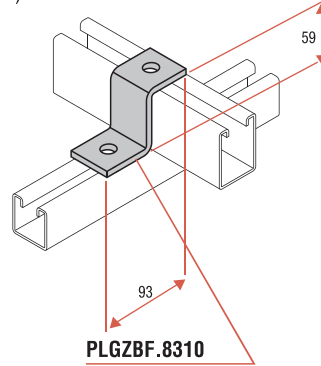
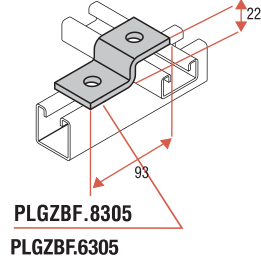
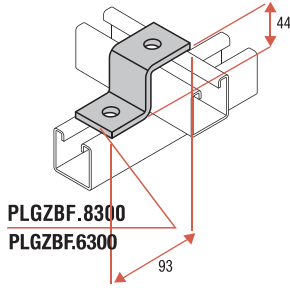


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve 41 - 45 - 60 serisi G profillerle kullanılmak üzere dizayn edilmişlerdir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 - 45 - 60 series are designed at G prof

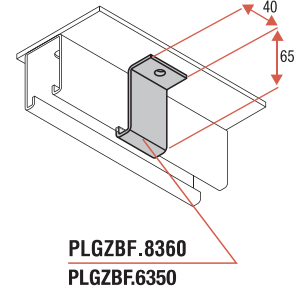
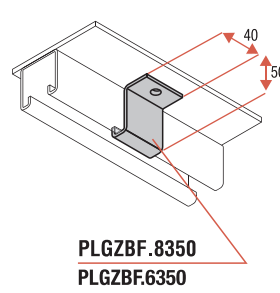
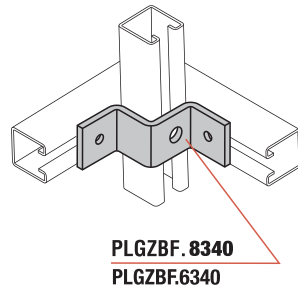
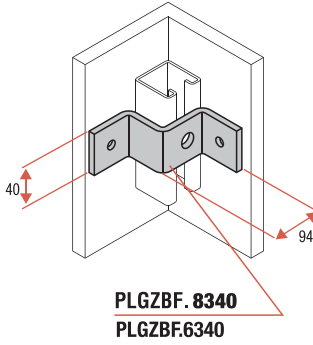
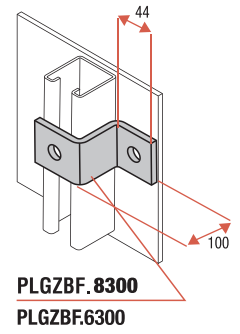
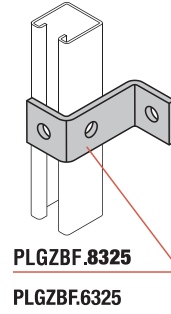
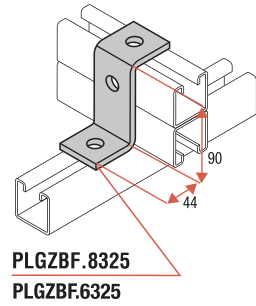
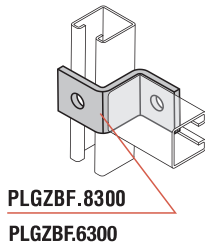
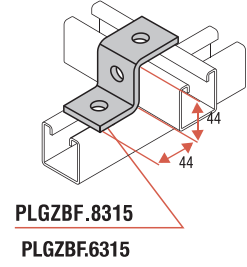
PROLINK Z Bağlantı Fittingsleri / PROLINK Z Shaped Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)



Yalnızca / only 45x60

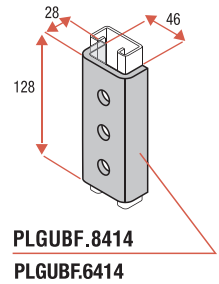
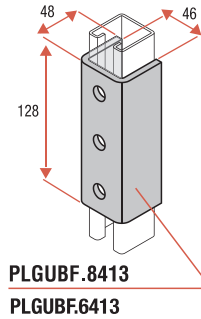
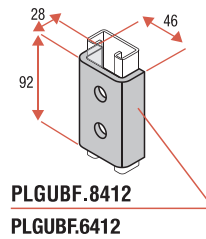
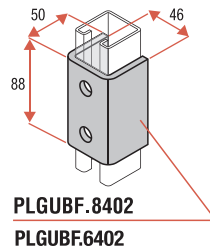
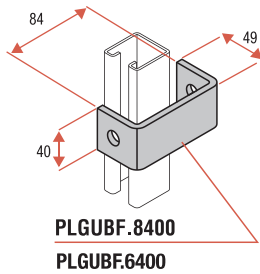


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

PROLINK U Bağlantı Fittingsleri / PROLINK U Shaped Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

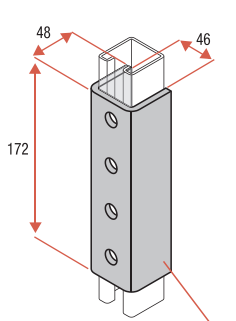


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

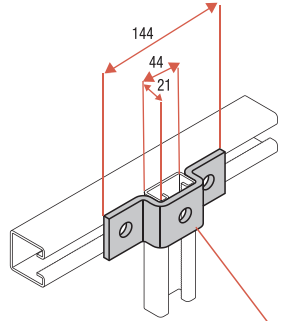
PROLINK U Bağlantı Fittingsleri / PROLINK U Shaped Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

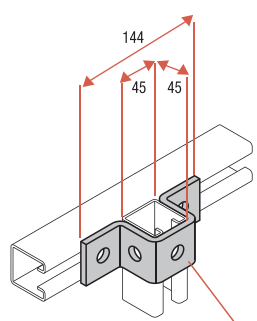
Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)



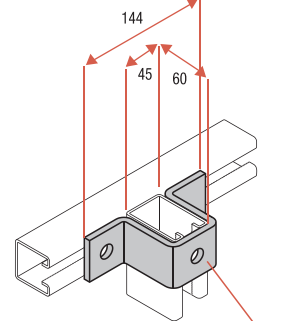
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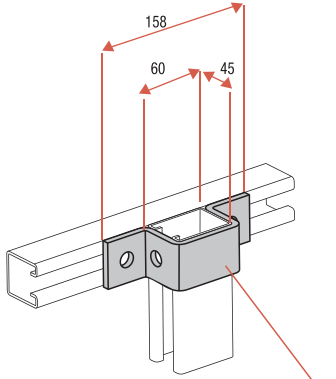
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PLGUBF.6433



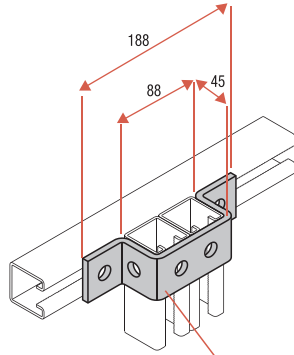
PLGUBF.8435
PLGUBF.6435



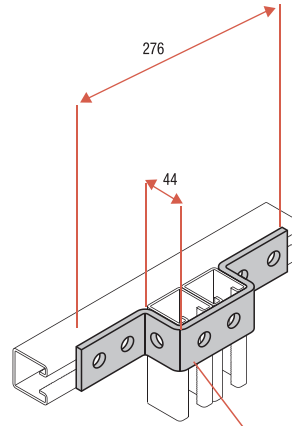
PLGUBF.8443
PLGUBF.6443



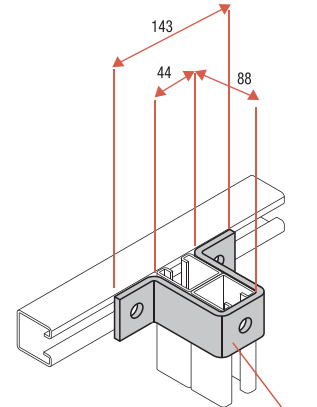
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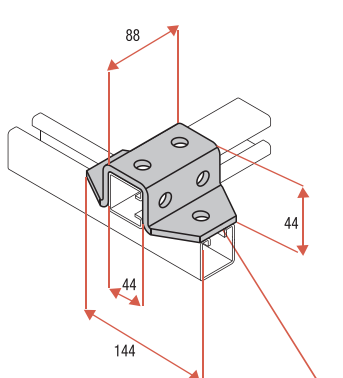
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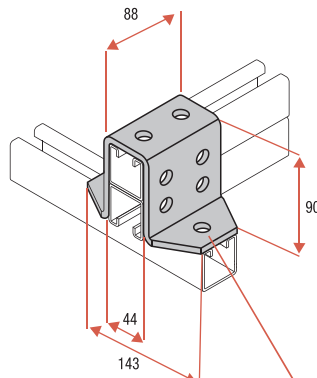
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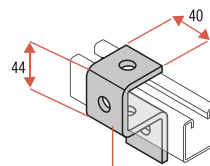
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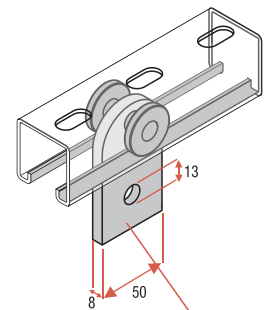
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PLGUBF.8460
PLGUBF.6458



PLGUBF.8464
PLGUBF.6464



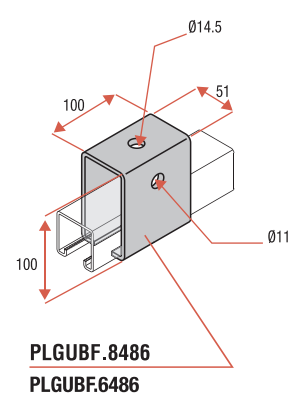
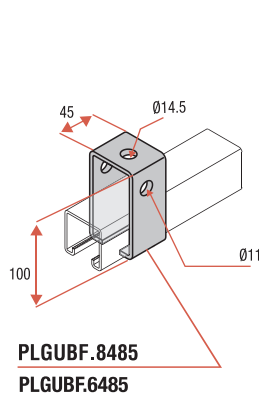
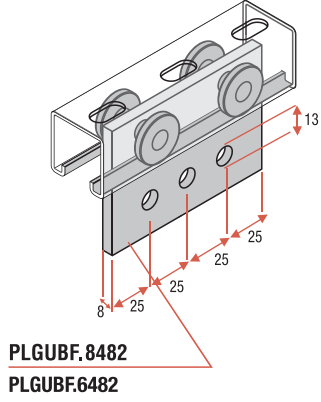
PLGUBF.8480
PLGUBF.6480

Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

PROLINK U Bağlantı Fittingsleri / PROLINK U Shaped Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

Standart Kaplama / Standard Finish: Elektro Galvaniz / Zinc Plated - (EN ISO 2081)

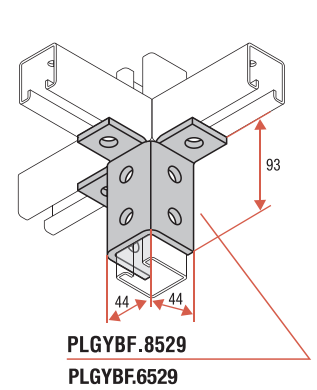
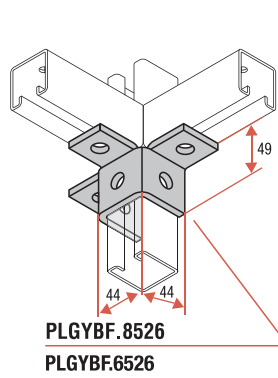
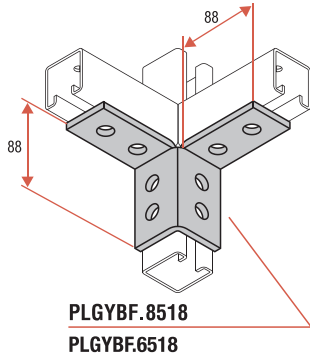
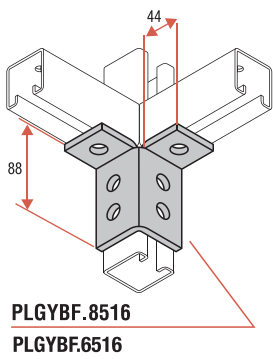
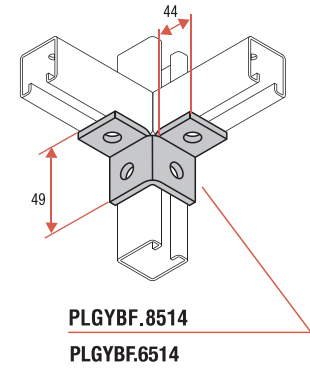
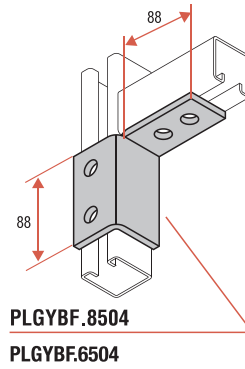
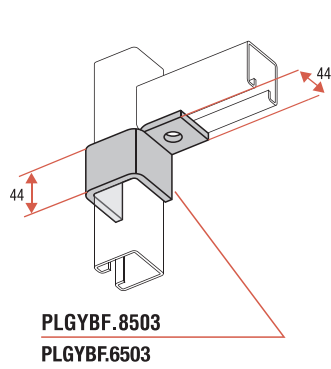
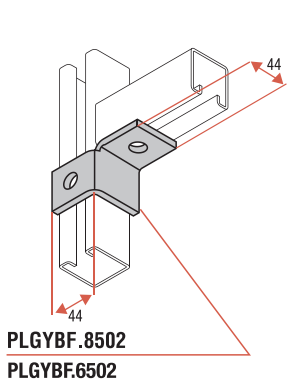


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

PROLINK Yönlü Bağlantı Fittingsleri / PROLINK Wing Shaped Fittings

Malzeme / Material: DD11 - (DIN EN 10111:2008)

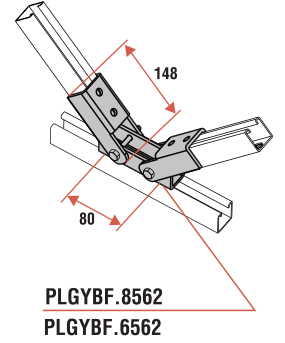
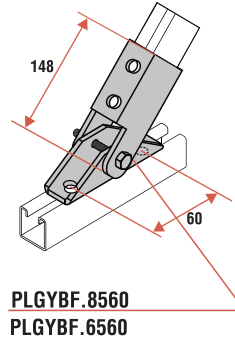
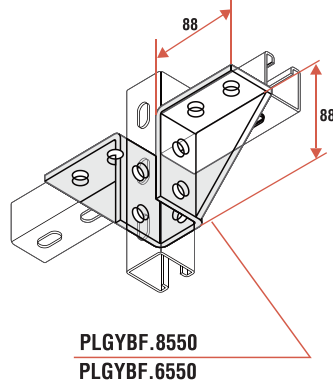
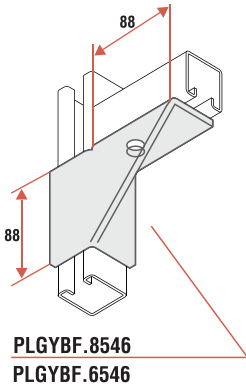
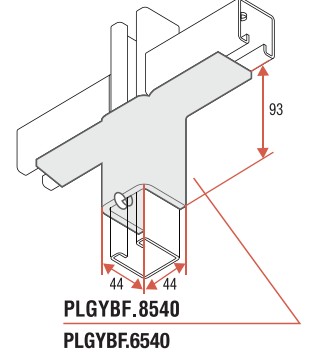
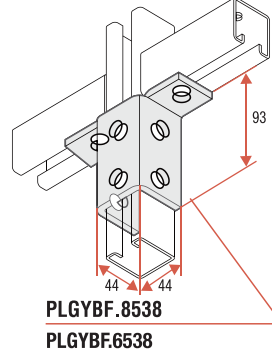
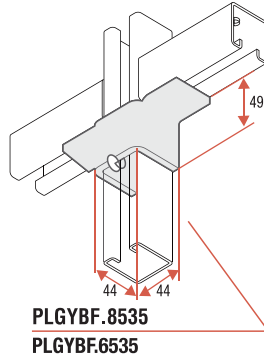
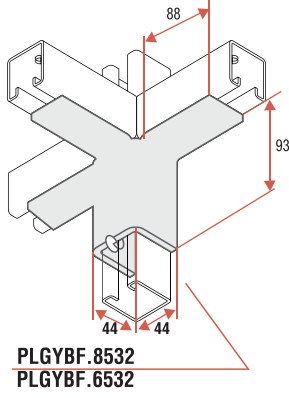
Standart Kaplama / Standard Finish: Elektro Galvaniz / Electro Plated Zinc - (EN ISO 2081)



Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

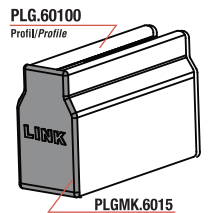
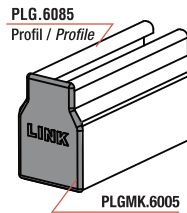
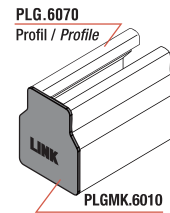
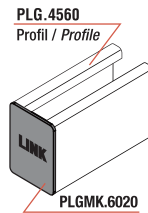
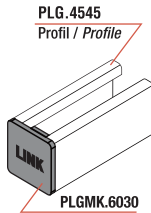
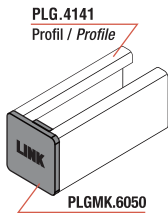
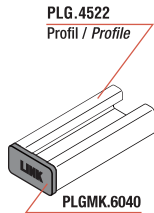
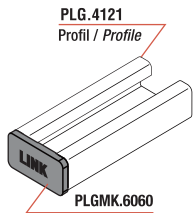
PROLINK Yönlü Bağlantı Fittingsleri / PROLINK Wing Shaped Fittings

Malzeme / Material: DD11-(DIN EN 10111:2008) / Steel
Standart Kaplama / Standard Finish : Elektrolgalvaniz / Zinc Plated - (EN ISO 2081)



Resimlerde aksi belirtilmediği sürece delik çapı 14 mm, malzeme kalınlığı 6 mm'dir.
Unless otherwise specified assume that all holes dia 14 mm and sheet thickness 6mm.

Profil Koruyucu Kapaklar / Channel End Cap

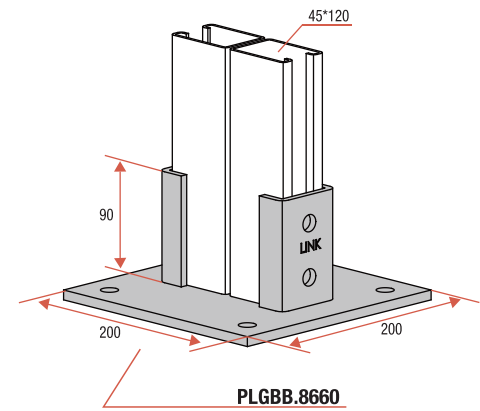
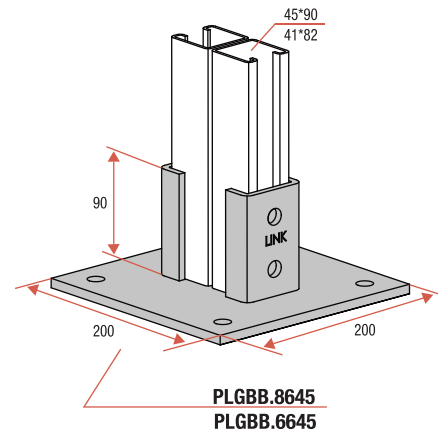
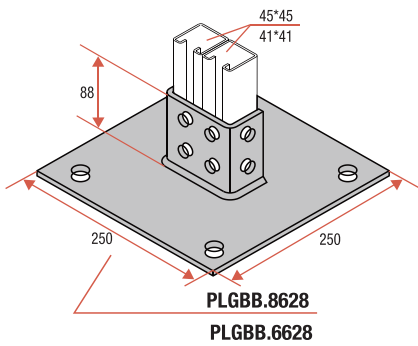
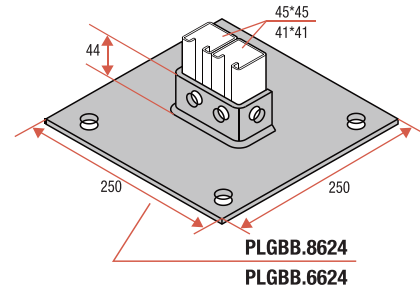
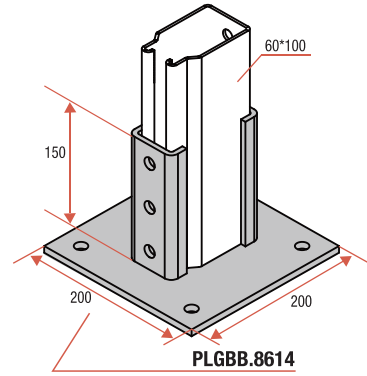
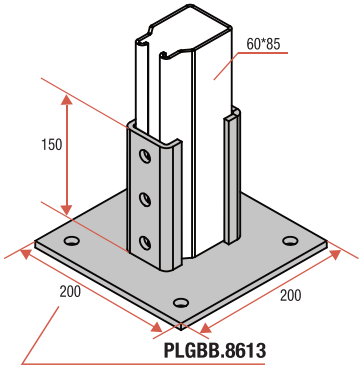
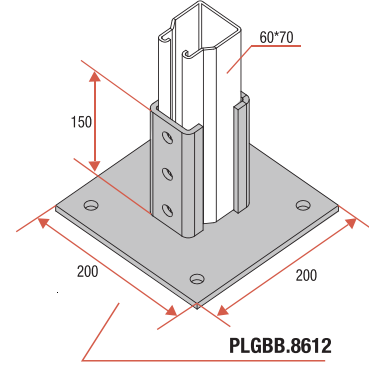
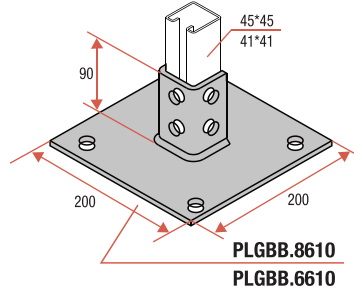
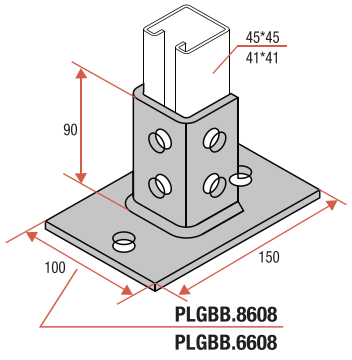
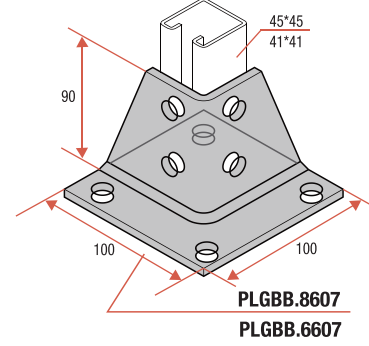
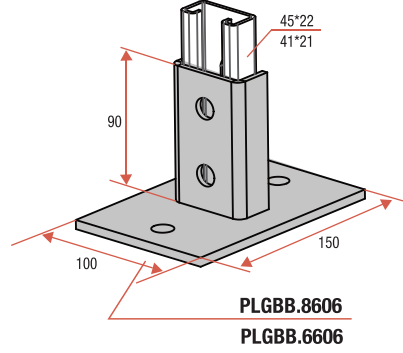
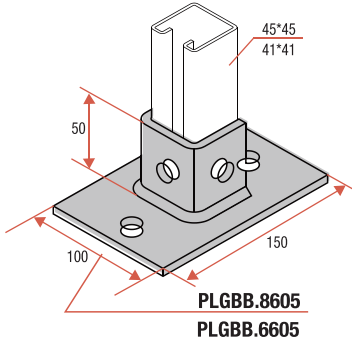


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, kalınlık 6 mm ve PLGZBF.6XXX kod, 41 ve PLGZBF.8XXX kodu, 45 serisi G profiller için dizayn edilmiştir.
Unless otherwise specified assume that all holes dia 14 mm, thickness 6mm and for 41 series PLGZBF.6XXX, for 45 series PLGZBF.8XXX codes are designed at G profiles.

PROLINK G Bağlantı Bazaları (Ayak) / PROLINK Past Bases

Malzeme / Material: DD11-(DIN EN 10111:2008)

Standart Kaplama / Standard Finish : Elektrogalvaniz / Zinc Plated - (EN ISO 2081)

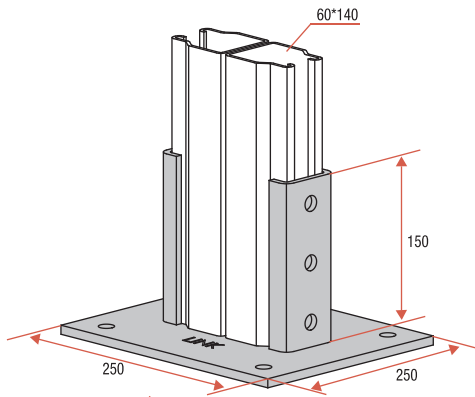


Resimlerde aksi belirtilmediği sürece delik çapları 14 mm, malzeme kalınlığı 6 mm dir.
Unless otherwise specified assume that all holes dia 14 mm and sheet thicknesses 6mm.

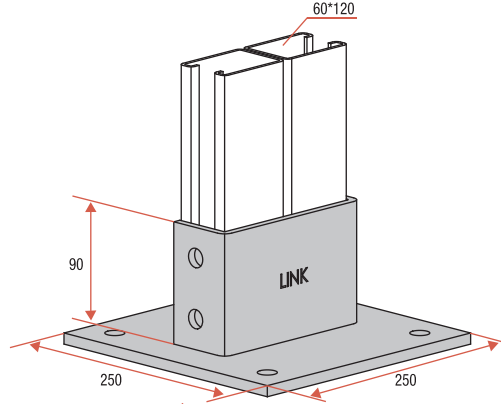
PROLINK G Bağlantı Bazaları (Ayak) / PROLINK Past Bases

Malzeme: DD11 - (DIN EN 10111:2008)

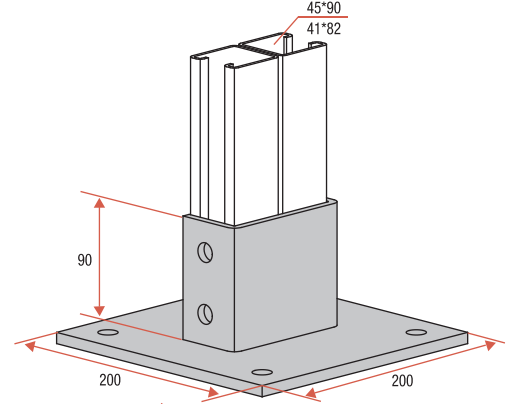
Standart Kaplama: Elektro Galvaniz - Zinc Plated (EN ISO 2081)



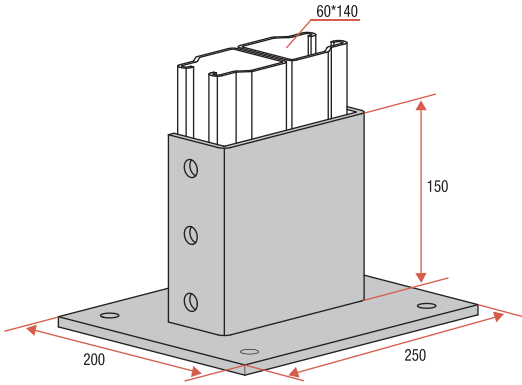
PLGBB.8670



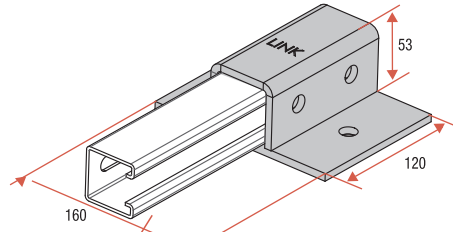
PLGBB.86120



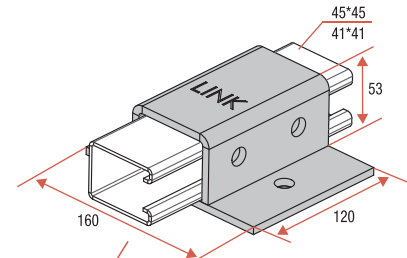
PLGBB.8690
PLGBB.6690



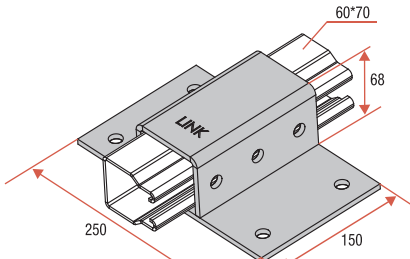
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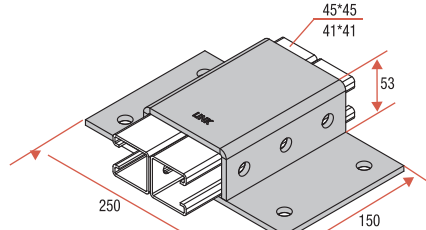
PLGBB.8630
PLGBB.6630



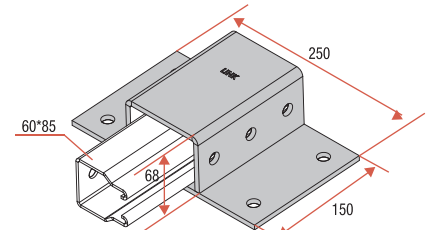
PLGBB.8631
PLGBB.6631



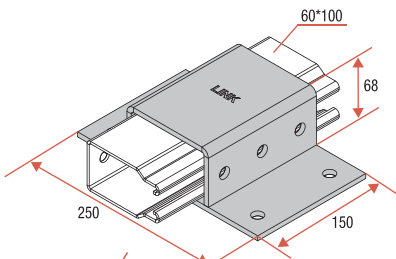
PLGBB.8632
PLGBB.6632



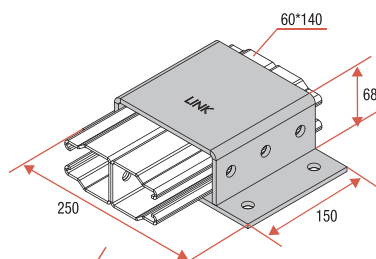
PLGBB.8633
PLGBB.6633



PLGBB.8634



PLGBB.8635



PLGBB.8636

Resimlerde aksi belirtilmediği sürece delik çapı 14 mm, malzeme kalınlığı 6 mm'dir.
Unless otherwise specified assume that all holes dia 14 mm and sheet thicknesses 6mm.

PLG MK Serisi - Kanal Kilit Sistemleri PLG MK Series - Channel Lock Systems

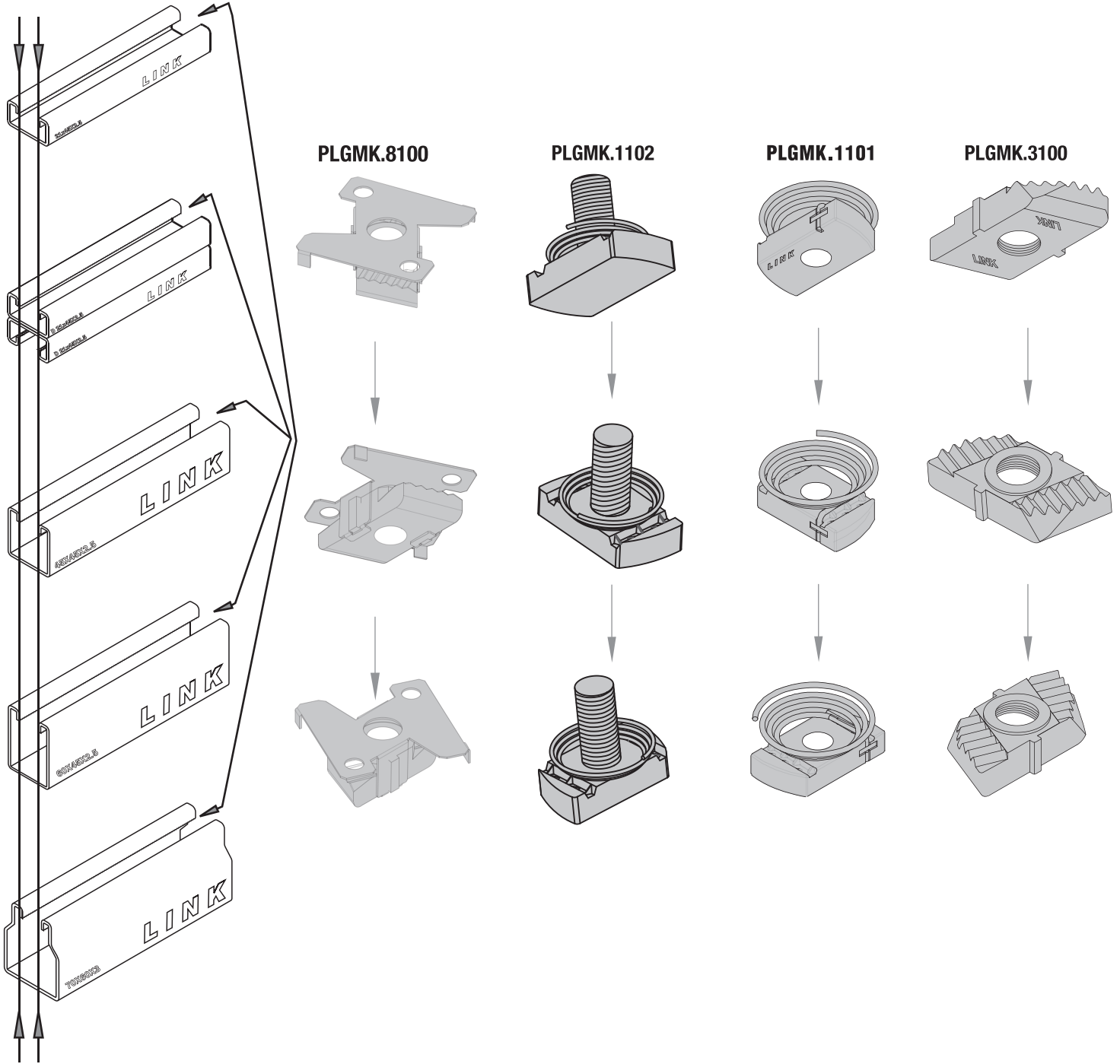
Hizmet / Service :

Tak, çevir, sıkıştır yöntemi ile kilit sistemi kolay ve hızlı bağlantı yapabileme özelliğine sahiptir.

Bu kilitler PROLINK G serisine monte edilebilir.

Locote, rotate, tighten lock system provides easy and fast connection.

These lock nuts are applicable to all PROLINK G series.



Bu sayfada yer alan ürünlerin kullanımında 40Nm tork uygulanmalıdır.
40Nm of torque must be applied to the use of the products in this page.

PLG Somun Kilit Montaj Uygulaması PLG Nut Lock Installation

Güvenilir, Pratik ve Ekonomik Çözümler
Strong, Fast and Economical Solutions

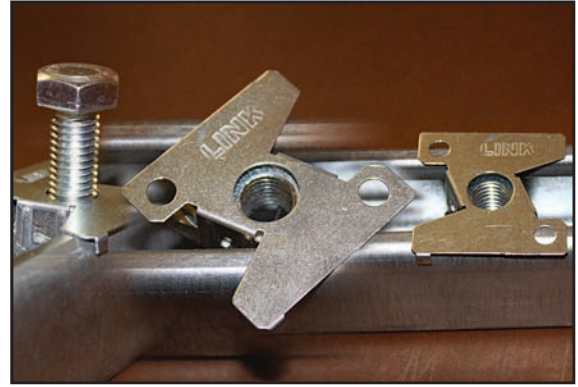
PROLINK G profil serisinde yaylı özel somunu kanal içerisinde istediğiniz yere yerleştirin. Yuvarlatılmış somun uçları kolay bağlantı yapmanızı sağlayacaktır.

Insert the spring nut in PROLINK G Profile Series along the continuous slotted channel. The rounded nut ends permit easy connection.



90 derecelik bir dönüş ile somun üzerindeki dişli kilit sistemi kanal dudaklarındaki dişler ile birbirlerini karşılaştıran ve bağlantı civatasını takın PROLINK G Kanalı üzerinde, bağlantı elemanlarınızı istediğiniz yere yerleştirin. Bu size ayar için sınırsız bir bağlantı alanı sağlar. Delik açma ve kaynak ile uğraşma gereksinimini ortadan kaldırır.

A 90 degree turn aligns the groove nut system with lips of channel and insertion can be bolted. Fitting can be placed anywhere along channel opening, this provides you freedom of adjustment. The need for drilling and welding are eliminated.



Kolay bağlantı için Rotlu Kilit Sistemini yerleştirin. Rotu bağlantı elemanlarının deliğinden geçirerek somun ile bağlantıyı yapın.

Rod Lock System is used for easy insertion. Insert the rod through the fitting hole and make connection with nut.



Rijit, sağlam bir bağlantı için yapmış olduğumuz bir uygulama. An application for rigid and strong, vise-like connection.



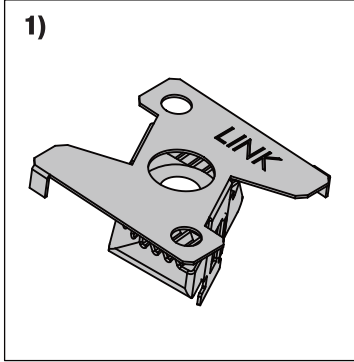
PROLINK G Serisi Kolay Kilit PROLINK Easy Lock Nut

PLGMK

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Özel tasarımı ile PROLINK G serisi profillere "TAK, ÇEVİR, SIKIŞTIR" yöntemi ile uygulama yapılır.
Applicable to all PROLINK G series with its special design by "LOCATE, ROTATE, TIGHTEN" method.

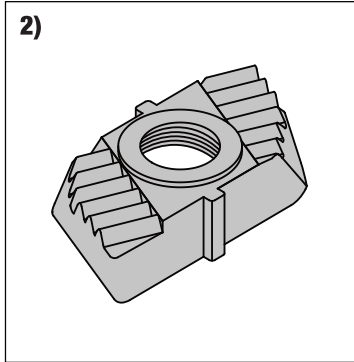


1) PROLINK G Serisi Kolay Kilit / Easy Lock Nut

Ölçüler / Dimensions:

Kod / Code	R	Kayma Direnci / Slip Resistance Fx (kN)			Çekme Yüğü / Tension Load Fz (kN)			Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
		2,5 mm	2,0 mm	1,5 mm	2,5 mm	2,0 mm	1,5 mm		
PLGMK.8000	M.8	7.0	6.0	5.0	12.0	9.0	6.0	250	9.0
PLGMK.8100	M.10	7.0	6.0	5.0	12.0	9.0	6.0	250	10.0
PLGMK.8200	M.12	7.0	6.0	5.0	12.0	9.0	6.0	250	11.5

40 Nm tork uygulanmalıdır. / 40 Nm torque should be applied
Not: PLGMK.6.. kodu 41 serisi içindir.
Note: PLGMK.6.. code for 41 series.

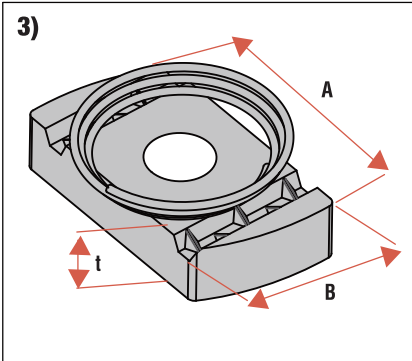


2) PROLINK G Serisi Düz Somun / Channel Nut

Ölçüler / Dimensions:

Kod / Code	R	Kayma Direnci / Slip Resistance Fx (kN)			Çekme Yüğü / Tension Load Fz (kN)			Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
		2,5 mm	2,0 mm	1,5 mm	2,5 mm	2,0 mm	1,5 mm		
PLGMK.3000	M.8	7.0	6.0	5.0	12.0	9.0	6.0	500	18.0
PLGMK.3100	M.10	7.0	6.0	5.0	12.0	9.0	6.0	500	20.0
PLGMK.3200	M.12	7.0	6.0	5.0	12.0	9.0	6.0	500	23.0

40 Nm tork uygulanmalıdır. / 40 Nm torque should be applied

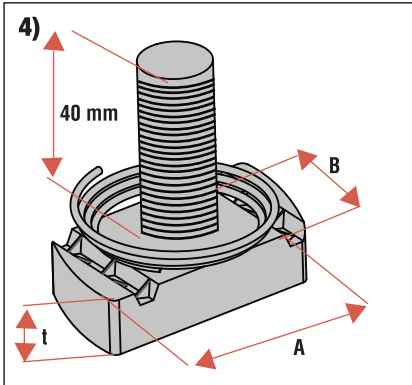


3) PROLINK G Serisi Geniş Yaylı Somun / Wide Spring Channel Nut

Ölçüler / Dimensions:

Kod / Code	R	A x B x t mm	Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
PLGMK.1001	M.8	34 x 20 x 6	100	3.0
PLGMK.1101	M.10	34 x 20 x 7.5	250	9.0
PLGMK.1201	M.12	34 x 20 x 7.5	250	9.0

40 Nm tork uygulanmalıdır. / 40 Nm torque should be applied



4) PROLINK G Serisi Rotlu Geniş Yaylı Somun / Wide Spring Channel Nut With Stud

Ölçüler / Dimensions:

Kod / Code	R	A x B x t mm	Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
PLGMK.1002	M.8	34 x 20 x 6	400	17.0
PLGMK.1102	M.10	34 x 20 x 7.5	400	19.0
PLGMK.1202	M.12	34 x 20 x 7.5	400	21.0

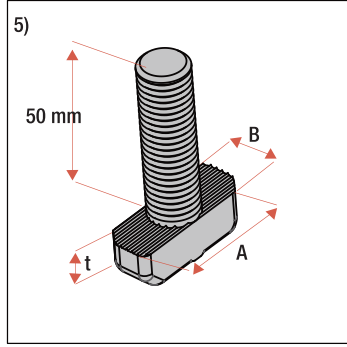
40 Nm tork uygulanmalıdır. / 40 Nm torque should be applied

PROLINK G Bağlantı Somunları PROLINK G Channel Nuts

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Özel tasarımı ile PROLINK G serisi profillerine "TAK, ÇEVİR, SIKIŞTIR" yöntemi ile uygulama yapılır.
Applicable to all PROLINK G series with its special design by "LOCATE, ROTATE, TIGHTEN" method.

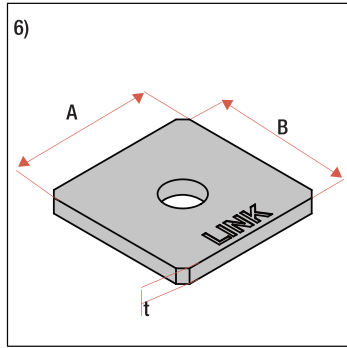


5) PROLINK G Serisi T Cıvata / T Bolt

Ölçüler / Dimensions:

Kod / Code	R	A x B x t [mm]	Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
GTB4522.12050.gv8	M.12	37 x 15 x 10	250	19.3
GTB4121.12050.gv8	M.12	35 x 15 x 10	250	18.8
GTB4121.16050.gv8	M.16	35 x 15 x 10	250	22.5

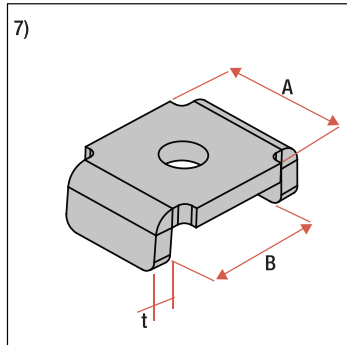
40 Nm tork uygulanmalıdır. / 40 Nm torque should be applied



6) PROLINK G Serisi Kare Pul / Square Washers

Ölçüler / Dimensions:

Kod / Code	Ød [mm]	A x B x t [mm]	Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
PLGMK.4008	8.5	40 x 40 x 4	400	17.5
PLGMK.4010	10.5	40 x 40 x 4	400	17.5
PLGMK.4012	12.5	40 x 40 x 6	400	26.0



7) PROLINK G Serisi Destek Pulu / Support Washert

Ölçüler / Dimensions:

Kod / Code	Ød [mm]	A x B x t [mm]	Adet / Kutu Pcs / Box	Kg / Kutu Kg / Box
PLGMK.4500	12.5	41 x 45 x 5	150	17.0
PLGMK.4109	9.0	41 x 41 x 5	200	22.0
PLGMK.4111	11.0	41 x 41 x 5	200	22.0
PLGMK.4113	13.0	41 x 41 x 5	200	22.0

MHLD

Kaynaklı Hafif Çelik Konsol Light Welded Steel Bracket

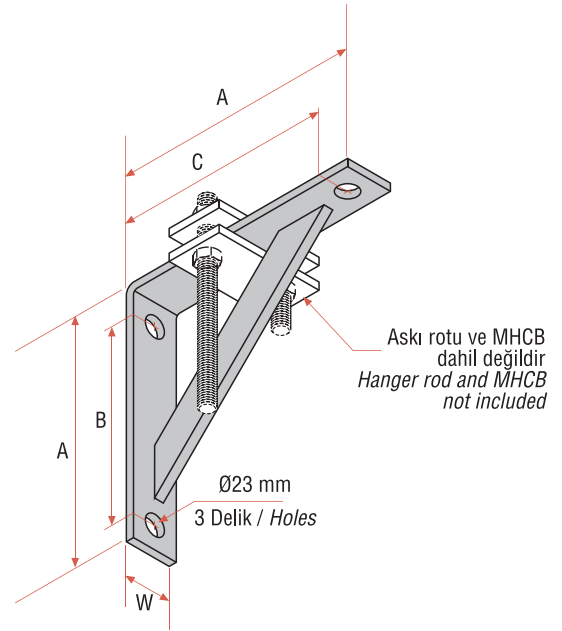
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
3,33 kN'un altındaki hafif yüklü askı rotalarının duvardan veya yapıdan desteklenmesi için dizayn edilmiştir.
Designed for suspend hanger rod for support of lights loads under 3.33 kN from a wall or structure.

MHLD Ölçüler / Dimensions

Kod Code	A mm	B mm	C mm	W mm	Dizayn Yüğü Design Load kN
MHLD 5080-070	229	155	203	50	3,33
MHLD 5080-071	330	257	305	50	3,33
MHLD 5080-072	483	409	457	50	3,33



MHCB

Konsol Klipsi Clip for Bracket

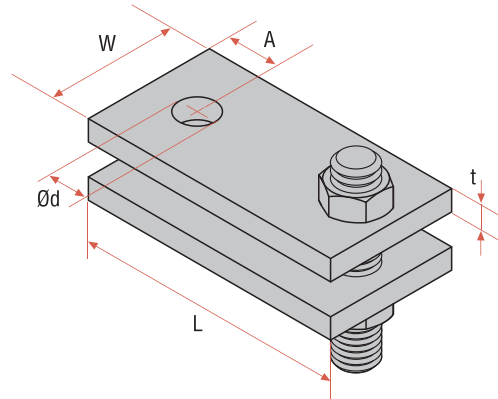
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Asılmış askı rotunun Hafif Kaynaklı Çelik Konsol ile kullanılması için dizayn edilmiştir.
Designed for suspend hanger rod when used with the Light Welded Steel Bracket.

MHCB Ölçüler / Dimensions

Kod Code	Ød mm	W x t mm	L mm	A mm	Dizayn Yüğü Design Load kN
MHCB 5080-048	11	50 x 8	90	14	3,33
MHCB 5080-049	13	50 x 8	110	22	3,33
MHCB 5080-050	18	50 x 10	115	23	3,33



IV

MAMB

Orta Yük Köşe Konsol
Medium Duty Angle Bracket

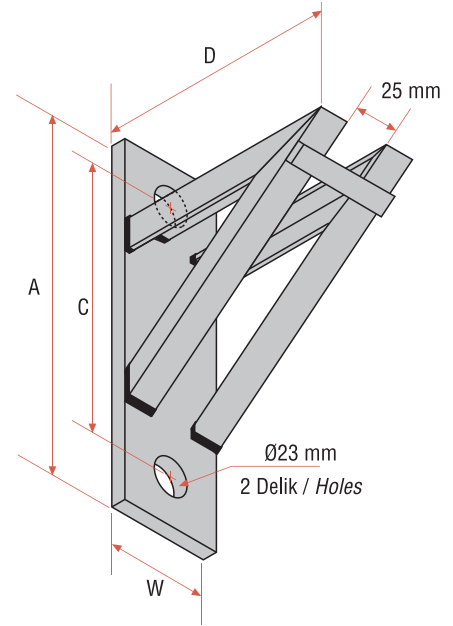
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
6,67 kN'un altındaki boru yüklerinin duvardan veya yapıdan asılması için dizayn edilmiştir.
Designed for suspending pipe loads under 6.67 kN from walls or structures.

MAMB
Ölçüler / Dimensions

Kod Code	A mm	C mm	D mm	W mm	Dizayn Yükü Design Load kN
MAMB.5080-092	457	394	305	120	6,67
MAMB.5080-093	610	546	457	130	6,67
MAMB.5080-094	762	698	610	140	6,67



Ağır Yük Köşe Konsol
Heavy Duty Angle Bracket

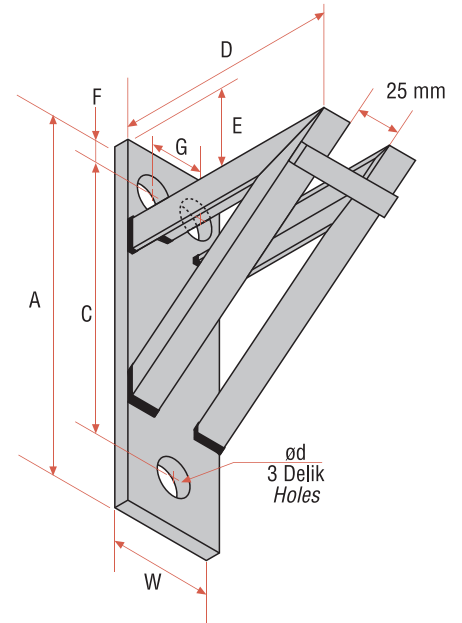
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
13,34 kN'un altındaki boru yüklerinin duvardan veya yapıdan asılması için dizayn edilmiştir.
Designed for suspending pipe loads under 13,34 kN from walls or structures.

MAHB
Ölçüler / Dimensions

Kod Code	A mm	C mm	D mm	E mm	F mm	G mm	ød mm	W mm	Dizayn Yükü Design Load kN
MAHB.5080-115	457	387	295	76	35	-	21	120	13,34
MAHB.5080-116	610	543	447	70	36	70	24	127	13,34
MAHB.5080-117	762	698	600	70	38	63	27	127	13,34
MAHB.5080-118	914	844	752	70	41	63	27	140	13,34
MAHB.5080-119	1067	991	914	70	38	89	27	152	13,34
MAHB.5080-120	1270	1168	1067	83	38	89	27	170	13,34



5080-115 için üstte sadece bir delik
Only one hole in top for 5080-115

Köşe Konsollar Angle Brackets

Malzeme / Material : Çelik / Steel

Standart Kaplama / Standard Finish : Elektrogalvaniz / Zinc Plated

Hizmet / Service : Çeşitli boruların konsol uygulamaları için dizayn edilmiştir. / Designed for the concole applications of various pipes.

T.1

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.22.200	200	2,00	2,00	1,00	0,65
PLGA.22.300	300	1,35	1,35	0,65	0,45

T.2

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.44.200	200	5,50	2,90	2,90	1,90
PLGA.44.300	300	3,80	1,90	1,90	1,25
PLGA.44.400	400	2,90	1,45	1,45	0,95
PLGA.44.500	500	2,30	1,15	1,15	0,75

T.3

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.45.150	150	7,90	3,90	3,90	2,60
PLGA.45.300	300	3,90	1,95	1,95	1,30
PLGA.45.400	400	2,90	1,45	1,45	0,95
PLGA.45.500	500	2,30	1,15	1,15	0,75
PLGA.45.600	600	1,95	0,98	0,98	0,65
PLGA.45.750	750	1,55	0,60	0,75	0,52

T.4

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.90.150	150	23,50	11,60	11,60	7,80
PLGA.90.300	300	11,70	5,80	5,80	3,90
PLGA.90.450	450	7,80	3,90	3,90	2,60

T.5

Yükleme Şekilleri / Load Example
* İzin verilen gerilme / Admissible tension ($\sigma_{adm.} = 160 \text{ N/mm}^2$)
Maksimum Sehim / Max deflection $f=L/150$

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.90.600	600	5,80	2,90	2,90	1,95
PLGA.90.750	750	4,70	2,35	2,35	1,55
PLGA.90.1000	1000	3,50	1,75	1,75	1,15

Bütün ölçüler mm.dir. / All dimensions is mm.

Köşe Konsollar Angle Brackets

Malzeme / Material : Çelik / Steel

Standart Kaplama / Standard Finish : Elektrogalvaniz / Zinc Plated

Hizmet / Service : Çeşitli boruların konsol uygulamaları için dizayn edilmiştir. / Designed for the concole applications of various pipes.

T.6

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.21.200	200	1,40	0,70	0,70	0,46
PLGA.21.300	300	0,94	0,46	0,46	0,31

T.7

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.42.200	200	4,00	2,00	2,00	1,35
PLGA.42.300	300	2,70	1,35	1,35	0,90
PLGA.42.400	400	2,00	1,00	1,00	0,68
PLGA.42.500	500	1,65	0,80	0,80	0,55

T.8

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.41.150	150	5,50	2,70	2,70	1,80
PLGA.41.300	300	2,75	1,35	1,35	0,90
PLGA.41.400	400	2,00	1,00	1,00	0,67
PLGA.41.500	500	1,65	0,80	0,80	0,55
PLGA.41.600	600	1,35	0,67	0,67	0,45
PLGA.41.750	750	1,10	0,55	0,55	0,36

T.9

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.82.150	150	16,00	8,00	8,00	5,40
PLGA.82.300	300	8,00	4,00	4,00	2,70
PLGA.82.450	450	5,40	2,70	2,70	1,75

T.10

Yükleme Şekilleri / Load Example
* İzin verilen gerilme / Admissible tension ($\sigma_{adm.} = 160 \text{ N/mm}^2$)
Maksimum Sehim / Max deflection $t=L/150$

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PLGA.82.600	600	4,00	2,00	2,00	1,35
PLGA.82.750	750	3,20	1,60	1,60	1,08
PLGA.82.1000	1000	2,40	1,20	1,20	0,80

Bütün ölçüler mm.dir. / All dimensions is mm.

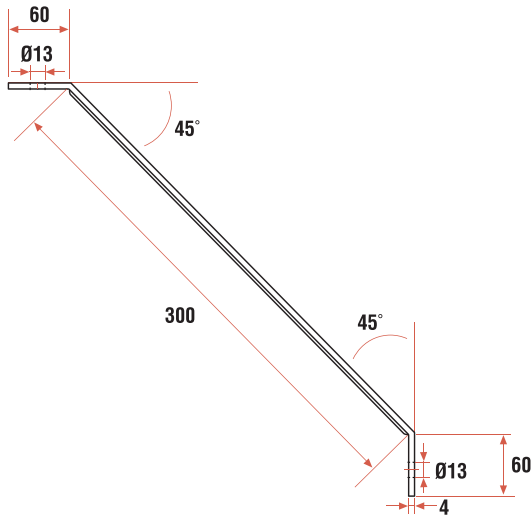
PDD

Hafif Yükler için Metal Destek Metal Support for Light Load

Malzeme / Material:
Çelik / Steel

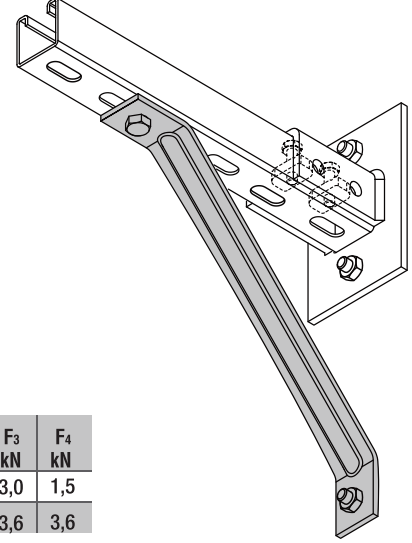
Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Konsol desteği olarak dizayn edilmiştir.
Designed as support for brackets.



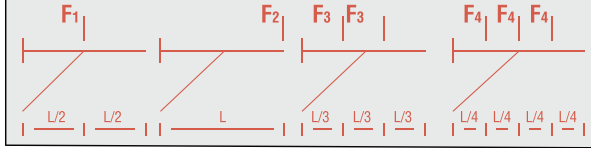
PDD
Ölçüler / Dimensions:

Kod Code	L mm	F ₁ kN	F ₂ kN	F ₃ kN	F ₄ kN
PDD.3300	300	7,0	2,0	3,0	1,5
PDD.3500	500	9,0	2,0	3,6	3,6



Yükleme Şekilleri / Load Example

* İzin verilen gerilme / Admissible tension ($\sigma_{adm.} = 160 \text{ N/mm}^2$)
Maksimum Sehim / Max deflection $f=L/150$



MES 2

Hafif Yükler için Metal Destek Metal Support for Light Load

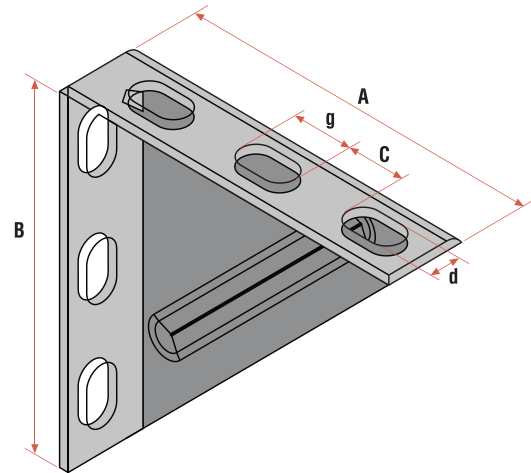
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Çeşitli boruların konsol uygulamaları için
dizayn edilmiştir.
Designed for the concole applications of
various pipes.

MES2
Ölçüler / Dimensions:

Kod Code	A mm	B mm	C mm	dxg cm	Dizayn Yüğü Design Load kN
MES2.5093	150	150	25	14x25	1,50
MES2.5094	200	150	25	14x25	2,00
MES2.5095	300	250	25	14x25	4,00
MES2.5069	400	250	25	18x40	3,00
MES2.5097	500	300	25	18x40	5,00



PROCON AĞIR YÜK UYGULAMALARI

PROCON, yüksek taşıma kapasitesi sayesinde endüstriyel ve ağır yük sistem uygulamaları için mükemmel seçimdir. Yüksek yük kapasitesi gerektiren uygulamalar için güvenli ve parlak bir çözüm olarak tasarlanmıştır. Çok çeşitli bağlantı elemanları ile her türlü konstrüksiyon için gerekli çözümü sunmakla beraber, genellikle kullanılan kaynaklı çelik konstrüksiyon imalatlarına göre çok daha hızlı ve temiz bir montaj avantajı sağlamaktadır.

PROCON endüstriyel yapı profillerinin genel avantajları

- Tüm parçalar sıcak daldırma galvaniz kaplıdır.
- Gerekli tüm konstrüksiyon varyasyonları için bağlantı elemanları mevcuttur.
- Kapalı geometrisi sayesinde maksimum burulma mukavemetine sahiptir.
- Sistem elemanlarının birbirine montajı çok kolaydır.
- Özel tasarımı T-Bolt Kolay Kilit sayesinde emniyetli ve hızlı montaj sağlar. T-Bolt Kolay Kilit vidalı montaj sayesinde modüler bir yapıya sahiptir. Demonte edilebilir.
- İşçilik ve zaman maliyetinden tasarruf sağlar.
- PROLINK yapı profil sistemleri ile uyumludur.

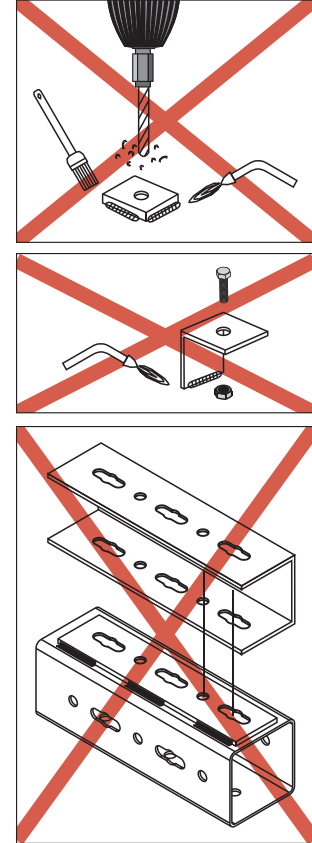
PROCON HEAVY-DUTY APPLICATION

PROCON is perfect match for industrial and heavy duty system applications because of its high carrying capacity.

Designed as safe and practical solutions for heavyduty applications. While offering various types of fittings as solutions to the constructions, provides decisive installation advantages when compared to common welded steel constructions.

Main advantages of PROCON industrial framing profile

- All parts are hot-dip galvanized.
- Provides all fittings for possible variants in constructions
- Because of its closed profile geometry provides max. torsion stiffness.
- Very easy connections of system elements.
- Special designed T-Bolt Easy Lock offers safe and fast assemblies. Easily dismantled.
- Saves time and labour costs.
- Compatible with PROLINK Framing Channel Systems.



ENDÜSTRİYEL YAPI PROFİLİ • INDUSTRIAL FRAMING PROFILE

Sistem bilgisi / Description of systems

Modüler sistem olarak pratik montaj için tasarlanmıştır. 4 yüzündeki montaj delikleri sayesinde üniversal bağlantılar için uygundur. Kutu tasarımı dolayısıyla burulma yüklerine karşı diğer yapı profillerine oranla daha yüksek mukavemete sahiptir. Yüksek taşıma kapasitesi sayesinde endüstriyel ve ağır yük sistem uygulamaları için mükemmel seçimdir.

Designed as modular system for practical installations. 4-Sided mounting holes provide universal assemblies. Its box design provides torsion stiffness more than other framing profiles. Because of its high carrying capacity it is perfect match for industrial and heavy duty system applications.

Teknik Bilgi / Technical Data

Malzeme / Material : Çelik / Steel

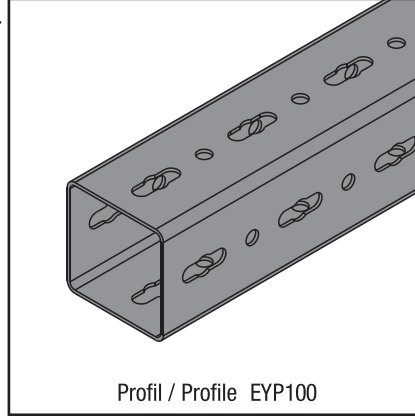
Malzeme Tipi / Material Type :

EYP100 : S235 JR

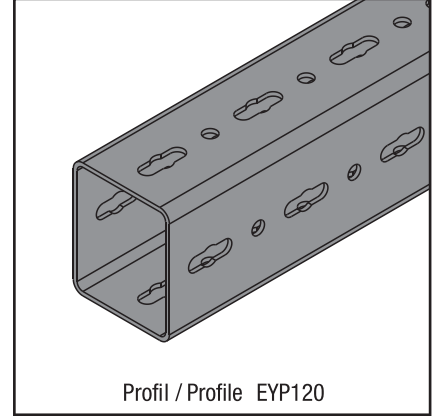
EYP120 : S235 JR

Kaplama Tipleri / Coating Types :

(DGLV) Sıcak daldırma galvaniz / Hot-Dip Galvanized

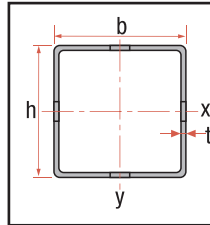


Profil / Profile EYP100



Profil / Profile EYP120

Kod Code	h x b mm	Uzunluk Length mm	t mm	Birim Ağırlığı Unit Weight kg
EYP100.6	100 x 100	6.000	3	8,16
EYP120.6	120 x 100	6.000	4	11,94

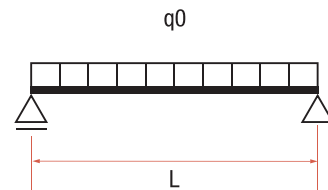
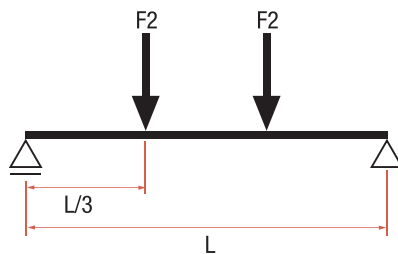
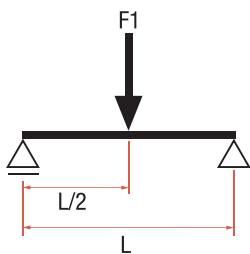


EYP100				
Kod Code	Kesit Alanı Cross Section Area A	Mukavemet Momenti Section Modulus W	Atalet Momenti Moment of Inertia I	Jirasyon Çapı Radius of gyration r
EYP100	11,46 cm ²	35,64 cm ³	178,19 cm ⁴	3,94 cm

EYP120					
Kod Code	Kesit Alanı Cross Section Area A	Mukavemet Momenti Section Modulus Wy Wx	Atalet Momenti Moment of Inertia ly lx	Jirasyon Çapı Radius of gyration ry rx	
EYP120	16,40 cm ²	57,16 cm ³ 51,88 cm ³	342,97 cm ⁴ 259,41 cm ⁴	4,57 cm	3,98 cm

Mesnet Mesafesi Bearing Distance mm	EYP100 (1)			EYP120 (2)		
	F1[kN]	F2[kN]	q0[kN]	F1[kN]	F2[kN]	q0[kN]
1.500	15,35	11,53	30,70	24,60	18,5	49,25
3.000	7,50	4,80	13,00	12,15	9,17	24,35
6.000	1,70	1,08	2,78	3,50	2,15	5,63

- (1) Mak.Çökme/ Max. Deflection $f_{max} = L/240_y$ veya / or 1,54
Emniyetli Çekme Mukavemeti / Safety Yield Strength $f_y = 235 \text{ N/mm}^2$
E-module 210.000 N/mm²
- (2) Mak.Çökme/ Max. Deflection $f_{max} = L/240_y$ veya / or 1,54
Emniyetli Çekme Mukavemeti / Safety Yield Strength $f_y = 235 \text{ N/mm}^2$
E-module 210.000 N/mm²



T-Bolt kolay kilit • T-Bolt easy lock

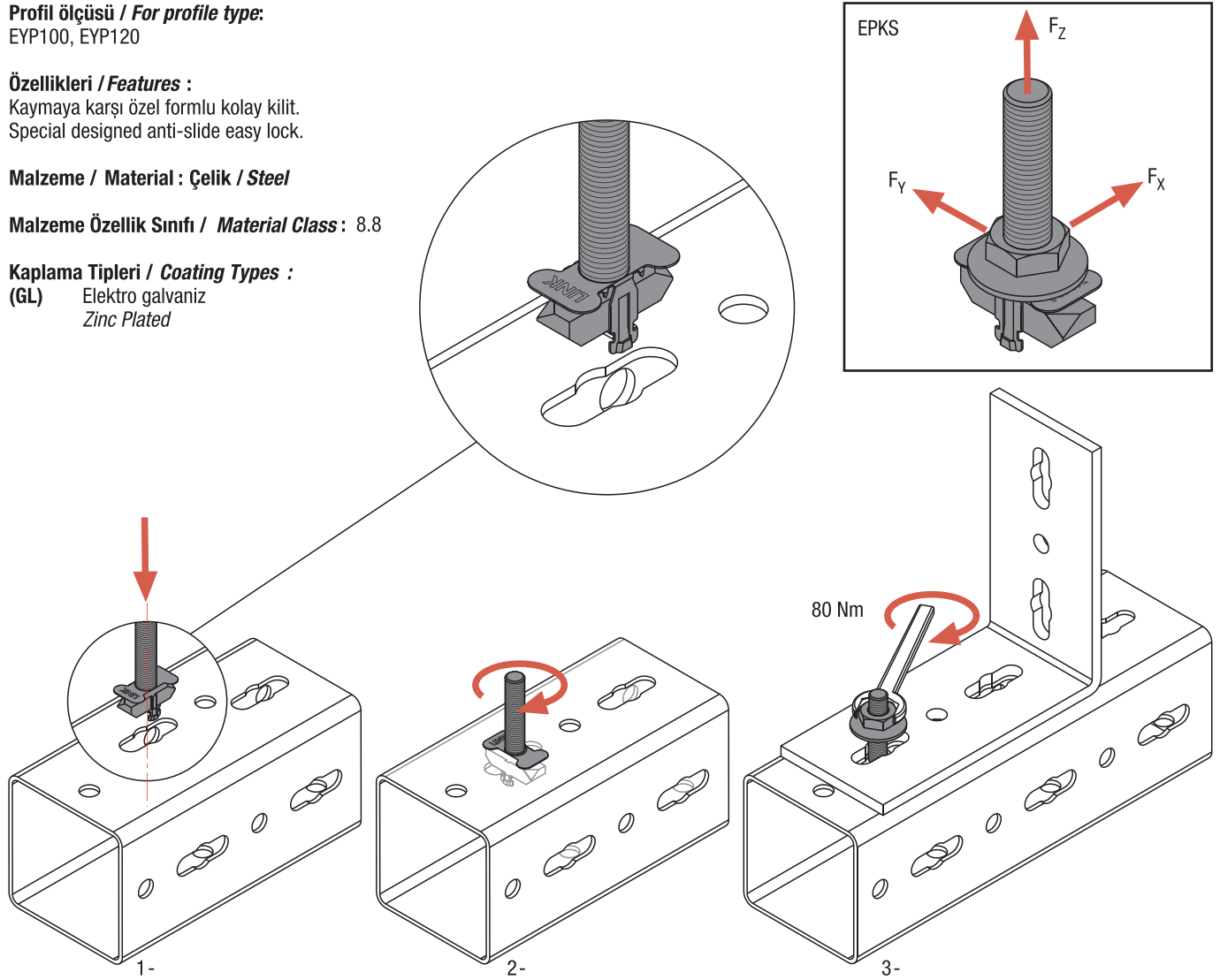
Profil ölçüsü / For profile type:
EYP100, EYP120

Özellikleri / Features :
Kaymaya karşı özel formu kolay kilit.
Special designed anti-slide easy lock.

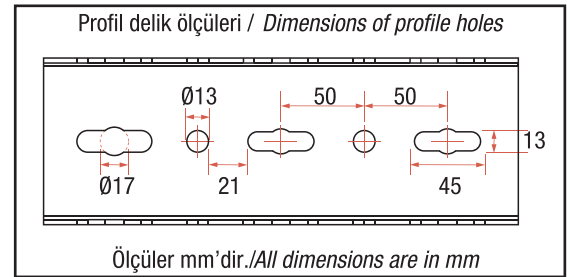
Malzeme / Material : Çelik / Steel

Malzeme Özellik Sınıfı / Material Class : 8.8

Kaplama Tipleri / Coating Types :
(GL) Elektro galvaniz
Zinc Plated

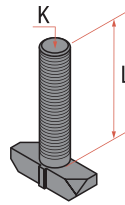


- 1- T-Bolt Kolay Kiliti profilin deliğinden şekilde gösterildiği gibi yerleştiriniz.
Locate the T-Bolt Easy Lock into mounting hole of profile as shown in the figure.
- 2- T-Bolt Kolay Kiliti 90° çevirin. / Turn the T-Bolt Easy Lock 90°.
- 3- Bağlantı elemanını yerleştiriniz ve özel T-Bolt Kolay Kilit somunu 80 Nm tork ile sıkıştırınız.
Locate the fittings and tighten special T-Bolt Easy Lock nut with 80 Nm torque.



Ölçüler / Dimensions

Kod Code	L mm	K	Maksimum Yük Maximum Load		
			F _Z [kN]	F _X [kN]	F _Y [kN]
EPKS.1240	40	M.12	10	10	10
EPKS.1270	70	M.12	10	10	10



Yük değerleri her bir T-Bolt içindir.
Maximum Loads are for each T-Bolt connection

EPSS

Bağlama civatası • Connection bolt

Malzeme / Material: Çelik / Steel

Malzeme Özellik Sınıfı / Material Class: 8.8

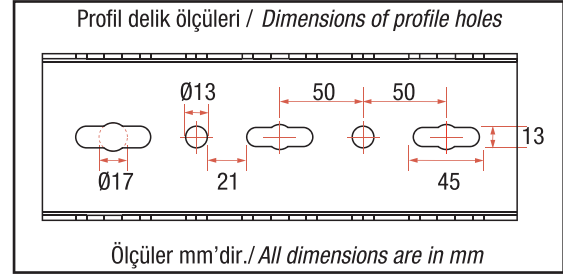
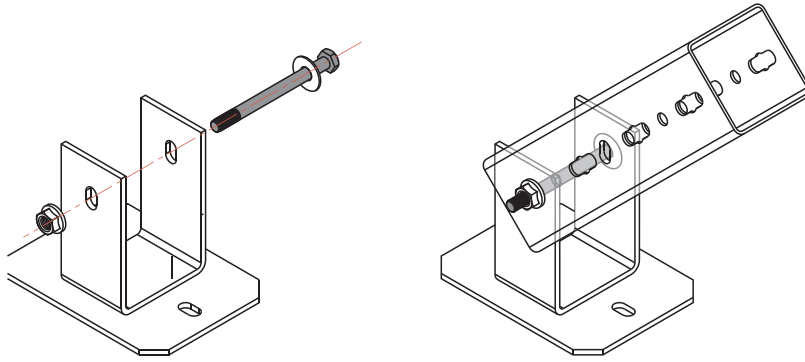
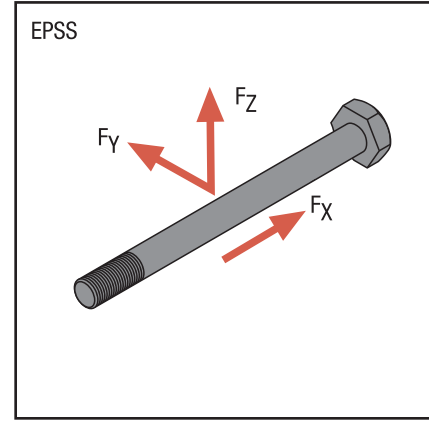
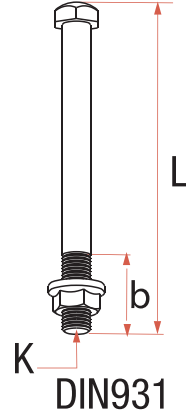
Kaplama Tipleri / Coating Types:

(DGLV) Sıcak Daldırmaz Galvaniz / Hot - Dip Galvanized

Ölçüler / Dimensions

Kod Code	L mm	b mm	K	Maksimum Yük Maximum Load		
				F _Z [kN]	F _X [kN]	F _Y [kN]
EPSS.21214	140	36	M.12	24,0	48,0	24,0
EPSS.21217	170	36	M.12	24,0	48,0	24,0
EPSS.22016	160	52	M.20	67,0	134,0	67,0
EPSS.22024	240	65	M.20	67,0	134,0	67,0

Yük değerleri her bir Bağlama civatası içindir.
Maximum Loads are for each Connection bolt.



EPCS

Flanşlı Somun • Flange Nut

Malzeme / Material: Çelik / Steel

Malzeme Özellik Sınıfı / Material Class: 8

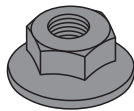
Kaplama Tipleri / Coating Types:

(DGLV) Sıcak Daldırmaz Galvaniz / Hot - Dip Galvanized

Ölçüler / Dimensions

Kod Code	D mm
EPCS.0212	M.12
EPCS.0220	M.20

DIN6923



PR

Düz Pul • Flat Washer

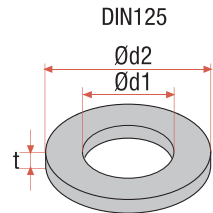
Malzeme / Material: Çelik / Steel

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak Daldırmaz Galvaniz / Hot - Dip Galvanized

Ölçüler / Dimensions

Kod Code	Anma Çapı Thread Size mm	ød1 mm	ød2 mm	t mm
PR.0212	M.12	13,0	24,0	2,3
PR.0220	M.20	21,0	37,0	2,7



EPKA - EPKH

Köşe parçası • Angles

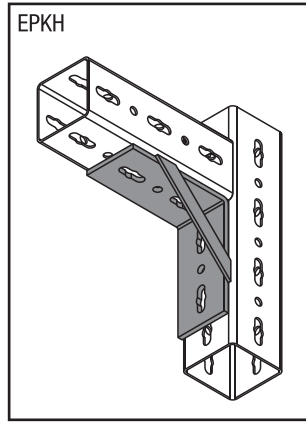
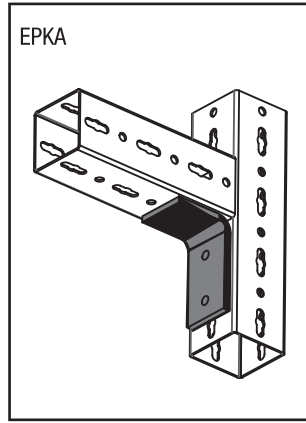
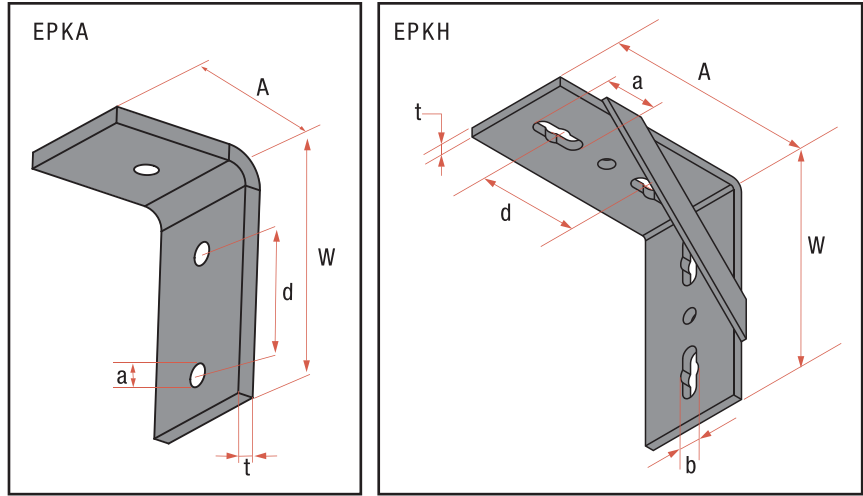
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPKA.1001	100,0	150	75	14	10	1,50
EPKH.1001	192,5	185	85	45 x 17	6	1,60

EPAF - EPPF

Bağlantı parçaları • Fittings

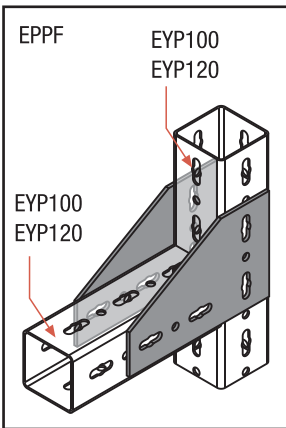
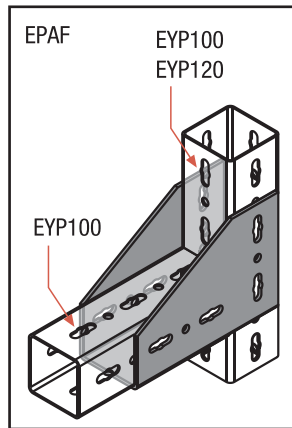
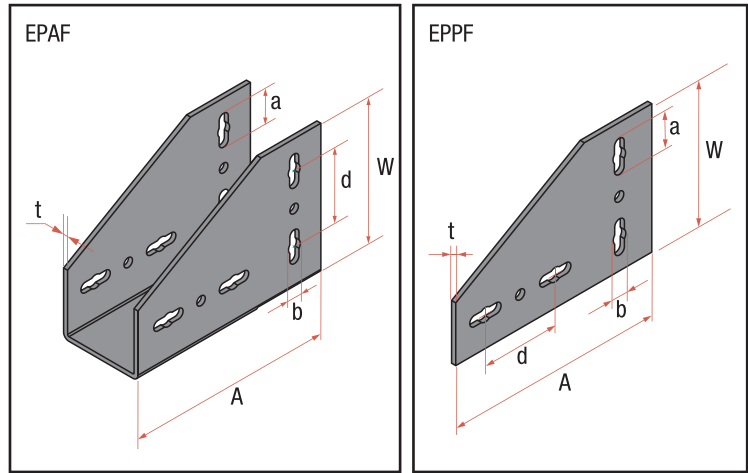
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz / Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPAF.1001	275	190,5	100	45 x 17	6	4,71
EPPF.1001	275	185	100	45 x 17	6	1,86

EPDF - EPIF

Bağlantı parçaları • Fittings

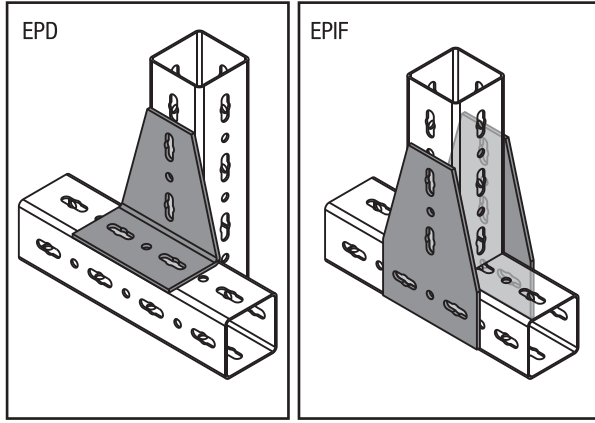
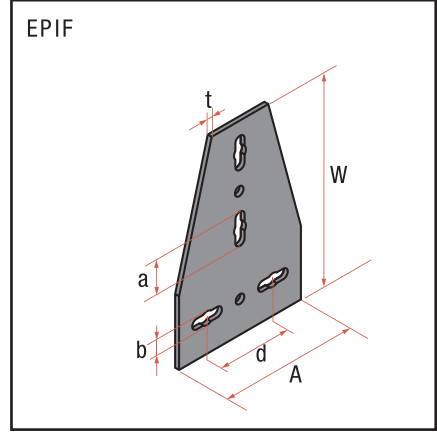
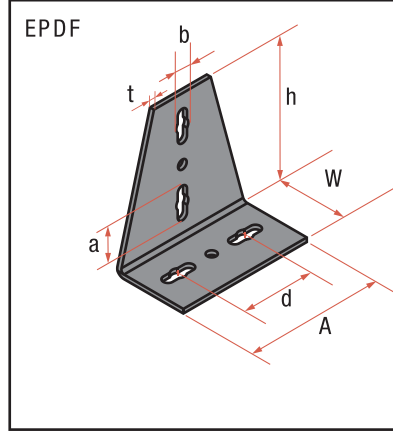
Profil ölçüsü / For profile type:
EYP100, EYP120

Malzeme / Material:
Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	h mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPDF.1001	185	100	100	192,5	45 x 17	6	1,90
EPIF.1001	185	282	100	-	45 x 17	6	1,90

Bağlantı parçaları • Fittings

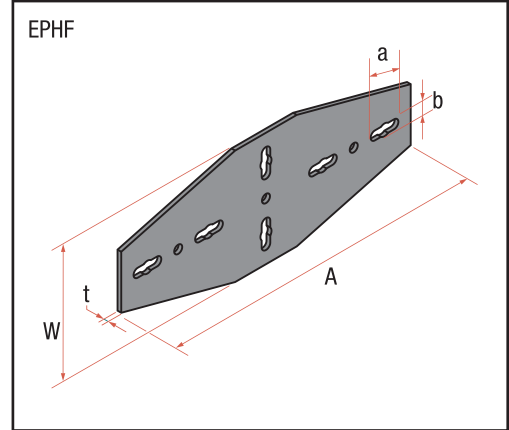
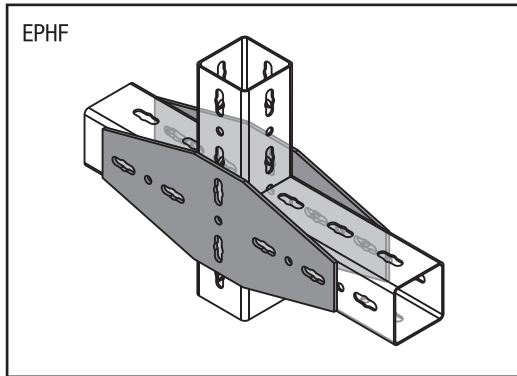
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz / Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPHF.1001	470	185	45 x 17	6	3,40

Köşe Birleştirici • Angle coupler

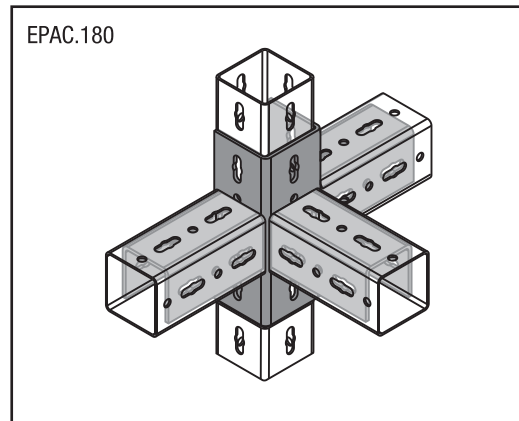
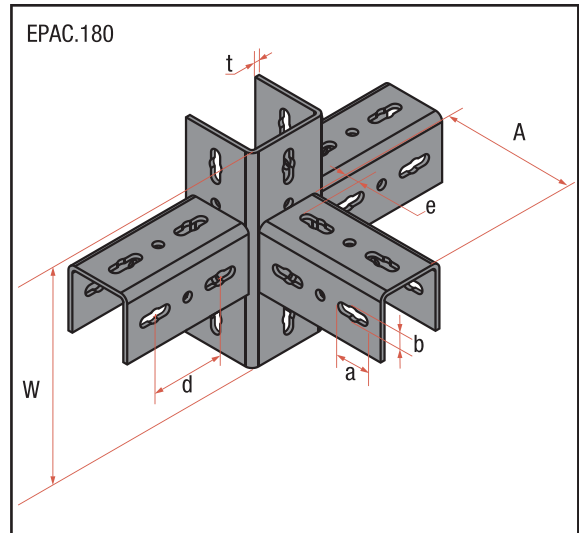
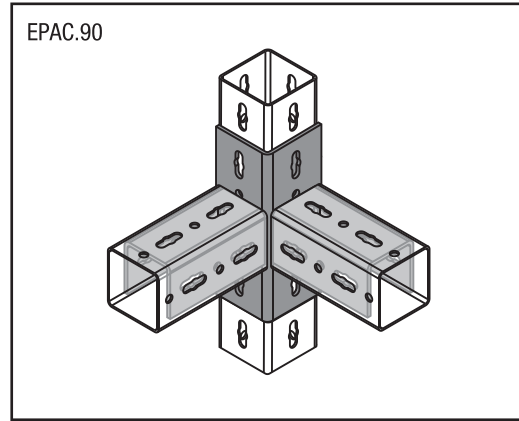
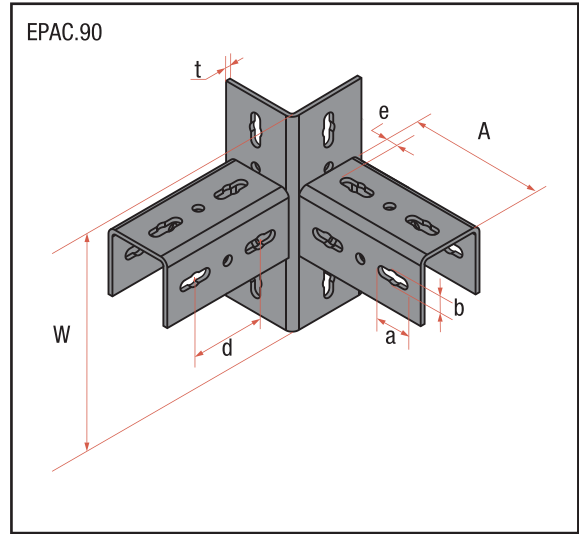
Profil ölçüsü / For profile type: EYP100

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	e mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPAC.90	185	285	100	20	45 x 17	6	6,44
EPAC.180	185	285	100	20	45 x 17	6	9,74

Köşe birleştirici • Angle coupler

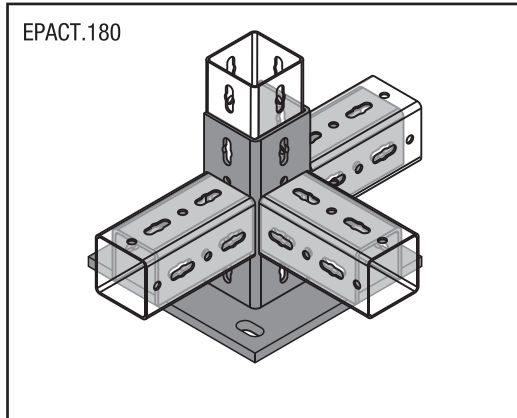
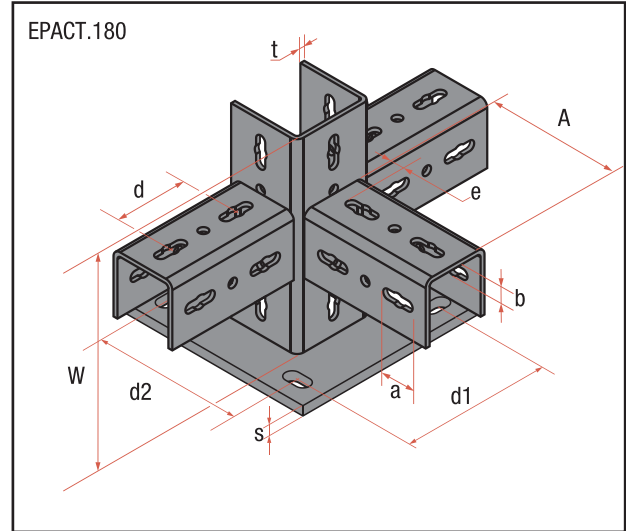
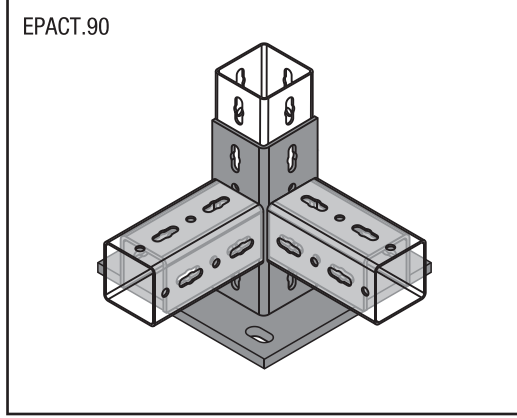
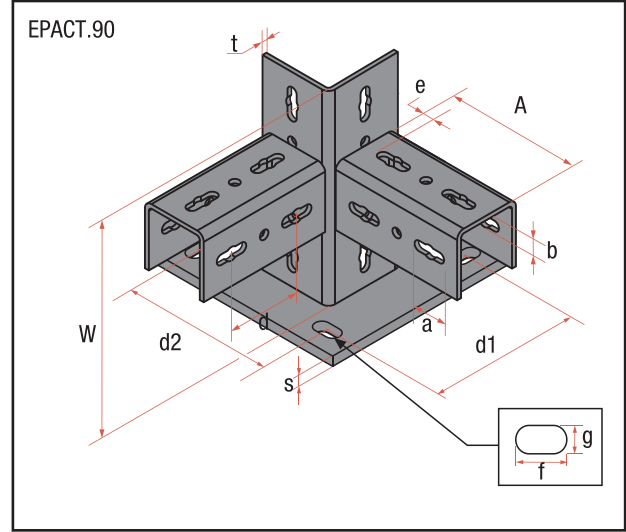
Profil ölçüsü / For profile type: EYP100

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized

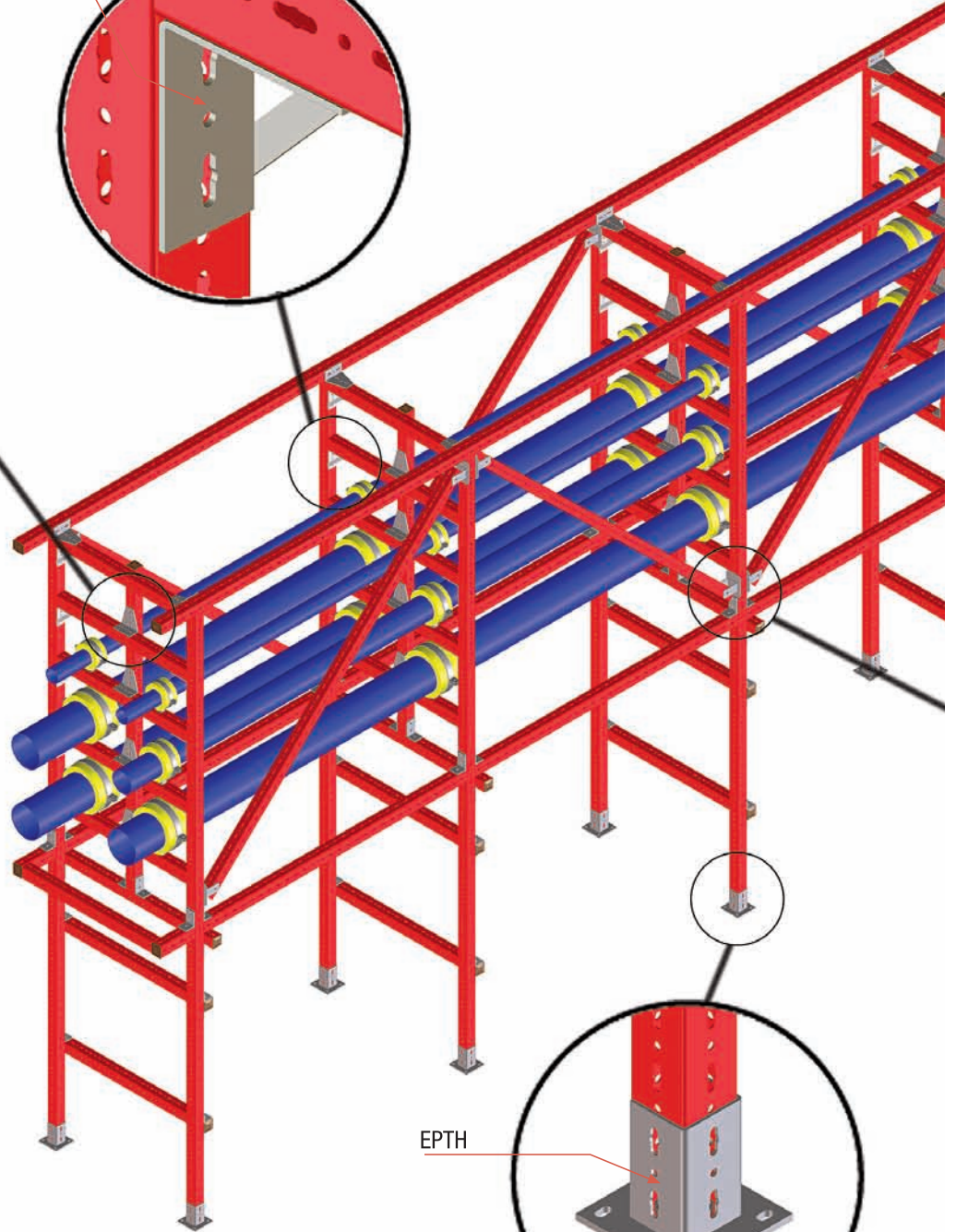
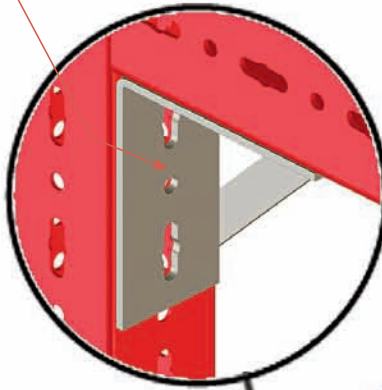
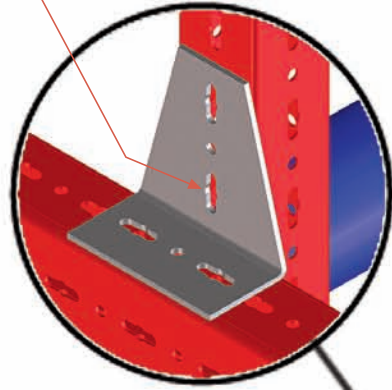


Ölçüler / Dimensions

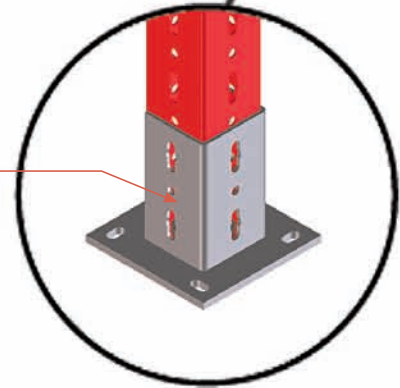
Kod Code	A mm	W mm	d mm	e mm	a x b mm	t mm	d1 mm	d2 mm	s mm	f x g mm	Birim Ağırlığı Unit Weight kg
EPACT.90	185	285	100	20	45 x 17	6	159	159	10	30 x 18	10,13
EPACT.180	185	285	100	20	45 x 17	6	159	159	10	30 x 18	13,43

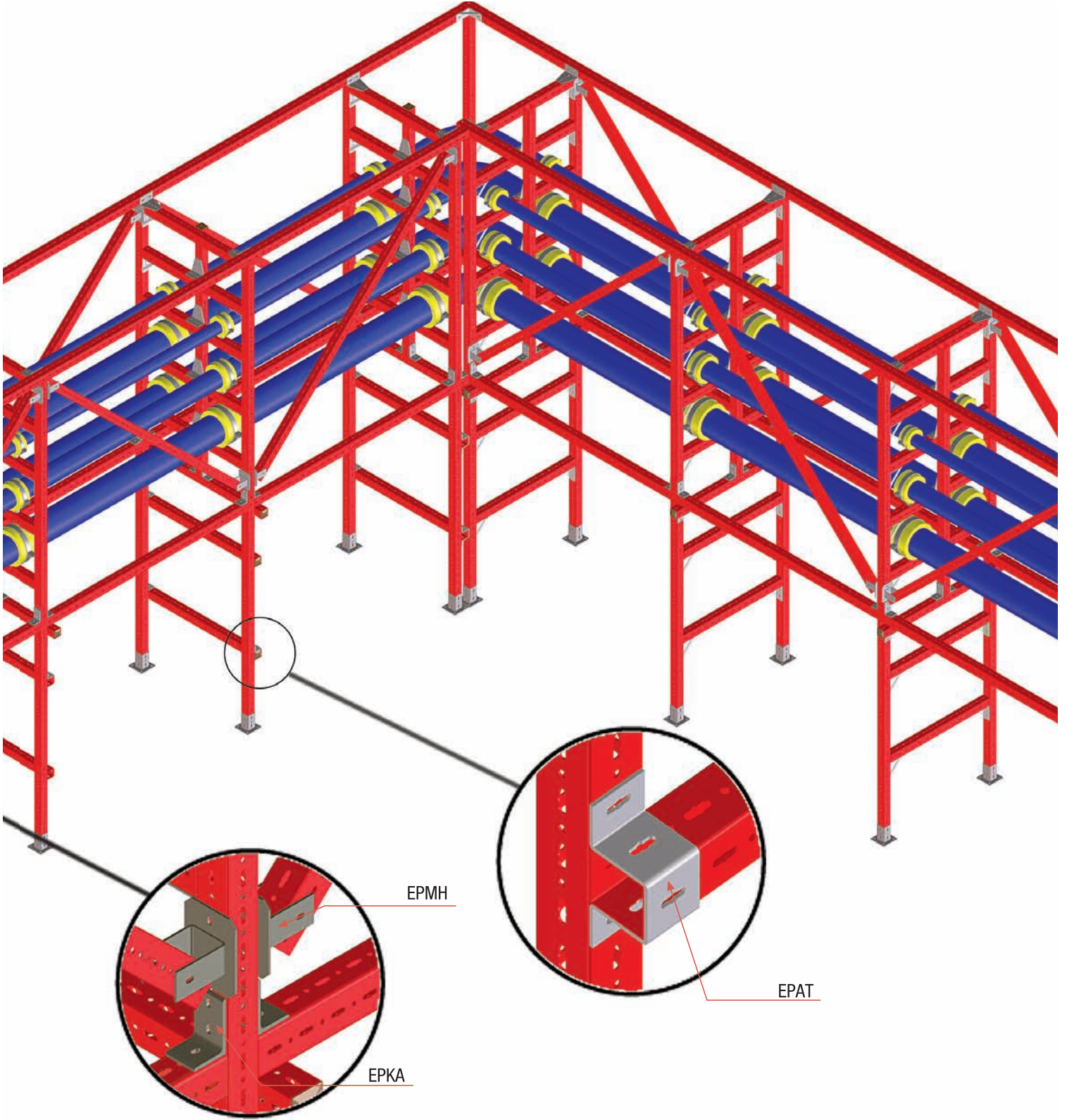
EPDF

EPKH



EPTH





IV

EPGH - EPGV

Adaptör • Adaptor

Profil ölçüsü / For profile type:
EYP100, PLG4590

Uygulama / Application:

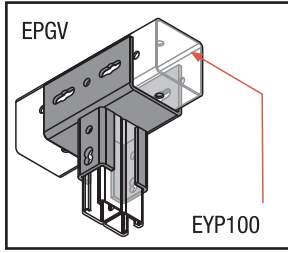
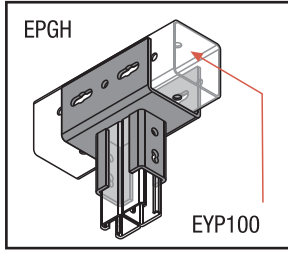
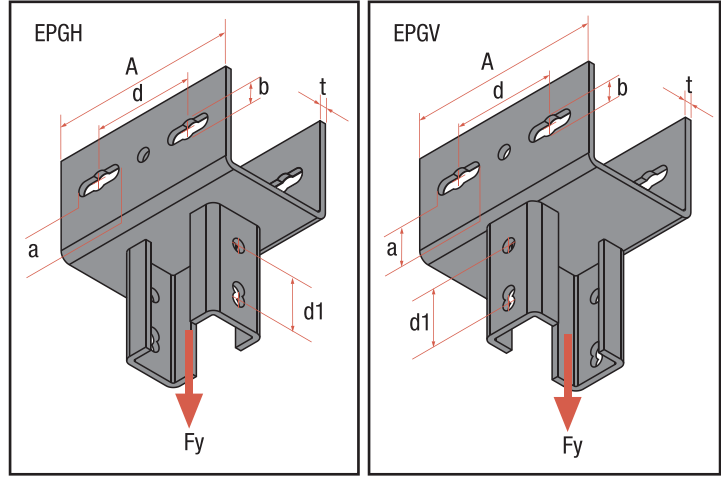
PROLINK G 4590 G profil geçişi adaptörü olarak tasarlanmıştır.
Designed as adaptor for PROLINK G 4590 framing channel.

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz / Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	d mm	d1 mm	a x b mm	t mm	Maksimum Yük (*) Maximum Load F _x [kN]	Birim Ağırlığı Unit Weight kg
EPGH.1001	185	100	50	45 x 17	6	12	3,27
EPGV.1001	185	100	50	45 x 17	6	12	3,27

(*) Maksimum yük bağlantı 2 deliktende PROLINK G dişli kanal somunları ile bağlandığında garanti edilebilir.
Max. allowable load can be guaranteed only in with 2-hole Tooth-plates

EPTH

Tutucu • Holder

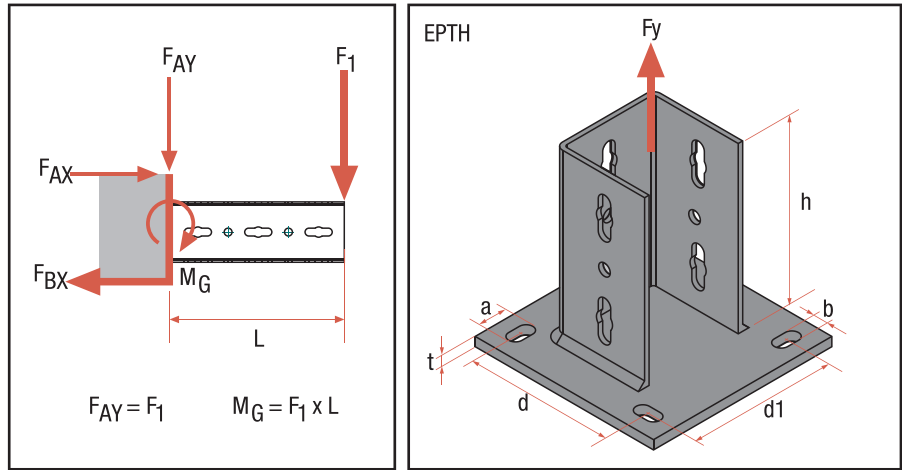
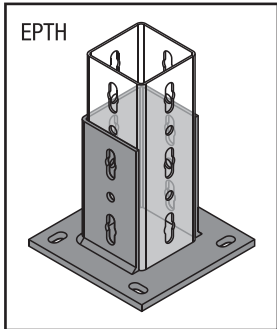
Profil ölçüsü / For profile type:
EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	d mm	d1 mm	h mm	a x b mm	t mm	Maksimum Yük Maximum Load F _y [kN]	Maksimum Moment Maximum Moment M _G [kNm]	Birim Ağırlığı Unit Weight kg
EPTH.1001	159	159	185	30 x 18	10	40,0	5,10	5,68
EPTH.1201	159	159	185	30 x 18	10	40,0	5,10	5,97

EPMH - EPMV

Açılı destek ayağı • Joint holder

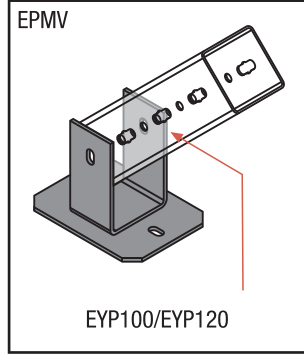
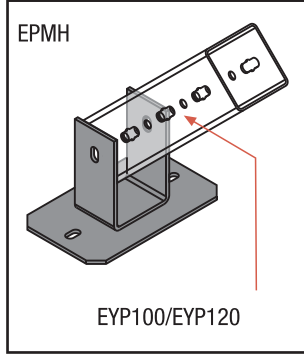
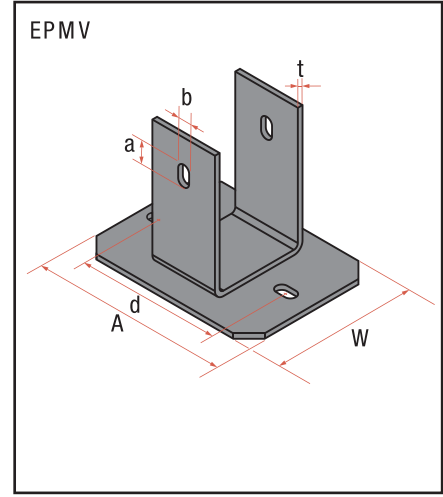
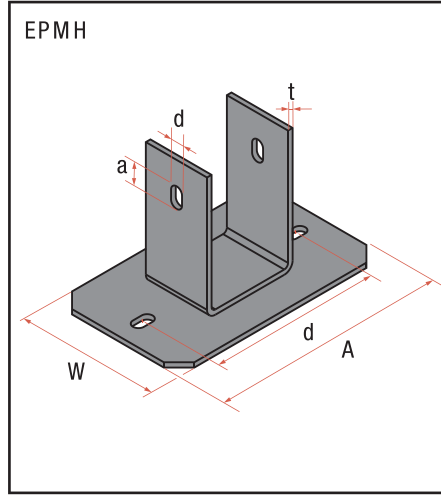
Profil ölçüsü / For profile type:
EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	a x b mm	t mm	Birim Ağırlığı Unit Weight kg
EPMV.1001	215	160	150	25 x 14	6	3,46
EPMH.1001	265	160	200	25 x 14	6	3,90

EPAT

U-Bağlantı atkısı • U-Shape fittings

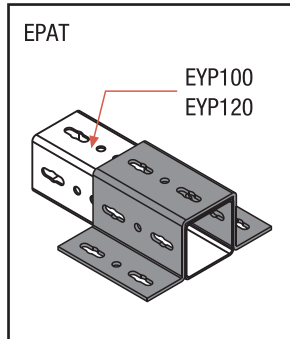
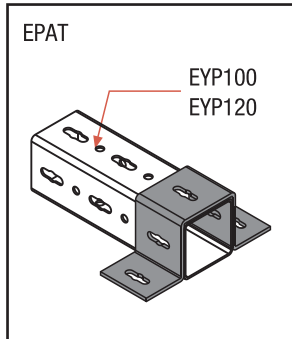
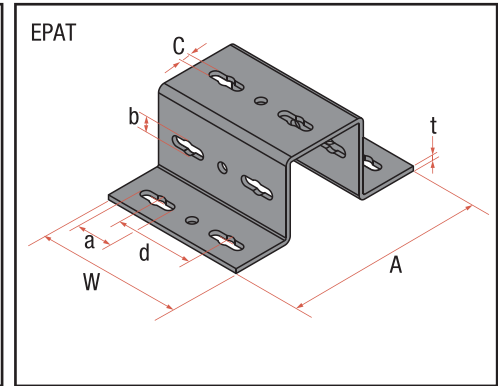
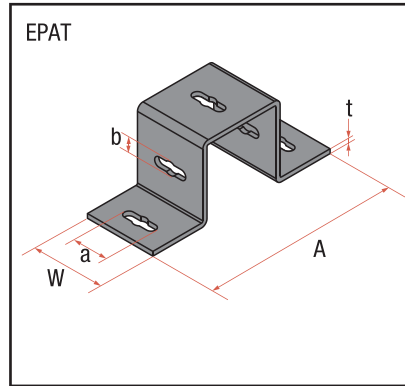
Profil ölçüsü / For profile type:
EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Ölçüler / Dimensions

Kod Code	A mm	W mm	d mm	a x b x c mm	t mm	Birim Ağırlığı Unit Weight kg
EPAT.1001	257	95	-	45x17x13	6	1,87
EPAT.1201	277	95	-	45x17x13	6	1,96
EPAT.2001	257	185	100	45x17x13	6	3,60
EPAT.2201	277	185	100	45x17x13	6	3,77

PLGMK

G Profil destek pulu • G-profile connector

Profil ölçüsü / For profile type: EYP100, EYP120

Uygulama / Application:

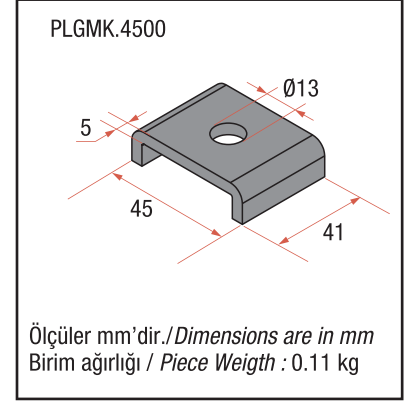
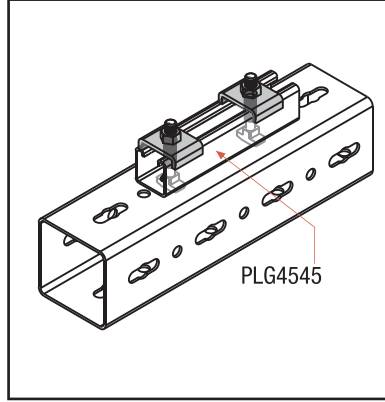
PROLINK G profillerine bağlamak için tasarlanmıştır.
To connect PROLINK G framing channel.

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(GL) Elektro galvaniz
Zinc Plated



Dişli bağlama parçası • Thread connector

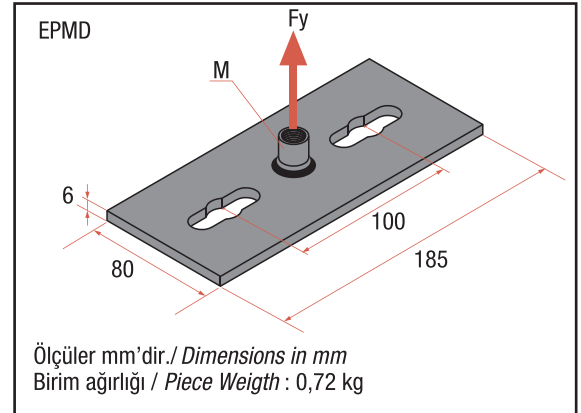
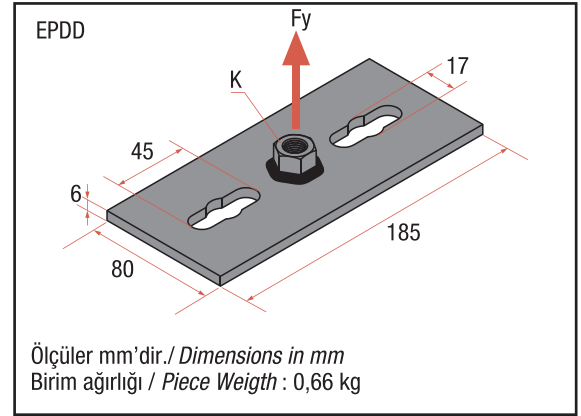
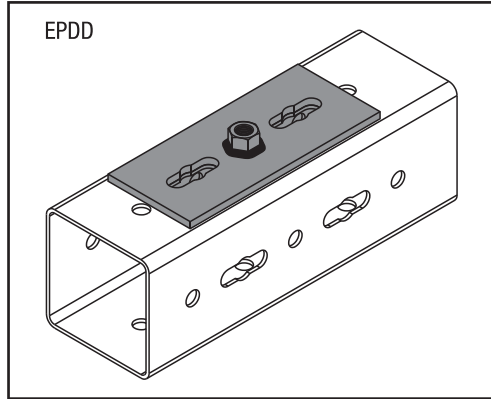
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(GL) Elektro galvaniz
Zinc Plated



Ölçüler / Dimensions

Kod Code	Somun/ Nut K	Fy kN	Birim Ağırlığı Unit Weight kg
EPDD.1200	M.12	5,5	0,67
EPDD.1600	M.16	5,5	0,70

Ölçüler / Dimensions

Kod Code	Manflon/ Sleeve M	Fy kN	Birim Ağırlığı Unit Weight kg
EPMD.1200	1/2"	5,5	0,69
EPMD.1600	3/4"	5,5	0,72

EPDT - EPMT

Dişli bağlama parçası • Thread connector

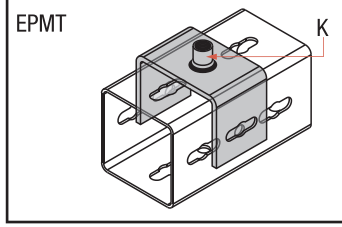
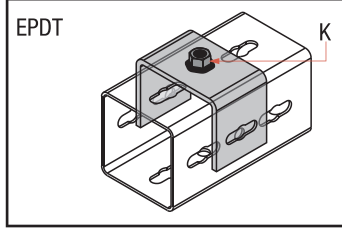
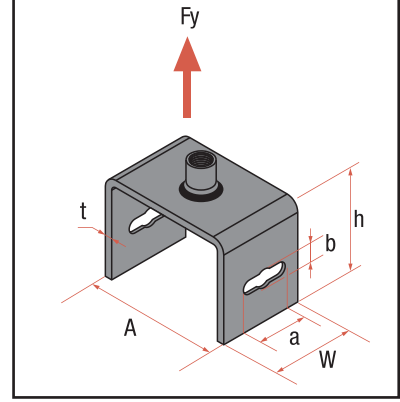
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(GL) Elektro galvaniz
Zinc Plated



Ölçüler / Dimensions

Kod Code	Profil Profile	K	A mm	W mm	h mm	a x b mm	t mm	Maks. Yük Max. Load F_x [kN]	Birim Ağırlığı Unit Weight kg
EPDT.1016	EYP.100	M.16	112	70	83,5	45 x 17	6	5,0	1,05
EPDT.1216	EYP.120	M.16	132	70	83,5	27 x 15	6	5,0	1,12
EPMT.1012	EYP.100	1/2"	112	70	83,5	27 x 15	6	5,0	1,00
EPMT.1212	EYP.120	1/2"	132	70	83,5	27 x 15	6	5,0	1,10
EPMT.1025	EYP.100	1"	112	70	83,5	27 x 15	6	5,0	1,00
EPMT.1225	EYP.120	1"	132	70	83,5	27 x 15	6	5,0	1,20

EPDI - EPMI

Masif bağlama parçası • Massive connector

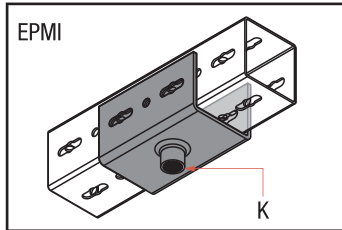
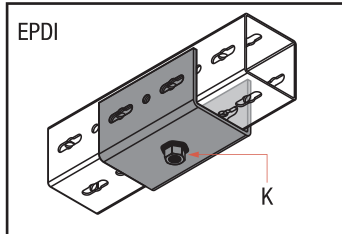
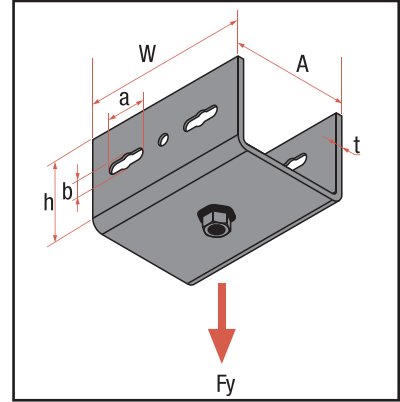
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(GL) Elektro galvaniz
Zinc Plated



Ölçüler / Dimensions

Kod Code	Profil Profile	K	A mm	W mm	h mm	a x b mm	t mm	Maks. Yük Max. Load F_x [kN]	Birim Ağırlığı Unit Weight kg
EPDI.1016	EYP.100	M.16	112	185	83,5	27 x 15	6	8,0	2,44
EPDI.1216	EYP.120	M.16	132	117	83,5	27 x 15	6	8,0	2,60
EPMI.1012	EYP.100	1/2"	112	117	83,5	27 x 15	6	8,0	2,40
EPMI.1212	EYP.120	1/2"	132	117	83,5	27 x 15	6	8,0	2,58
EPMI.1025	EYP.100	1"	112	117	83,5	27 x 15	6	8,0	2,52
EPMI.1225	EYP.120	1"	132	117	83,5	45 x 17	6	8,0	2,70

Konsol • Consoles

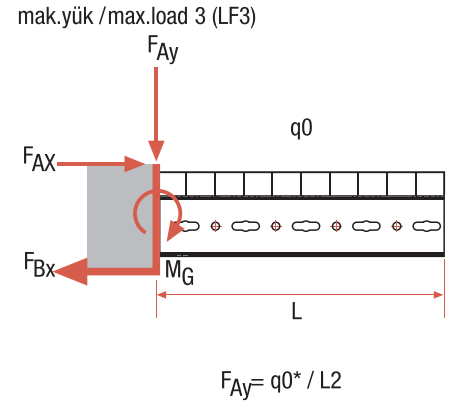
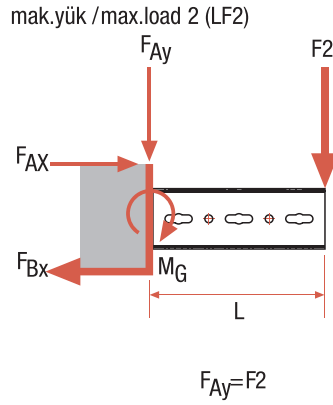
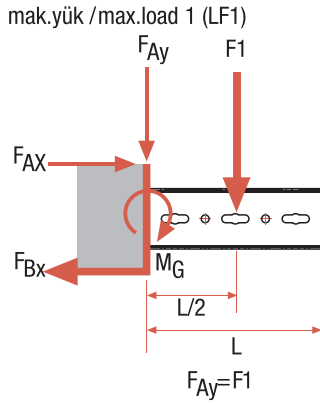
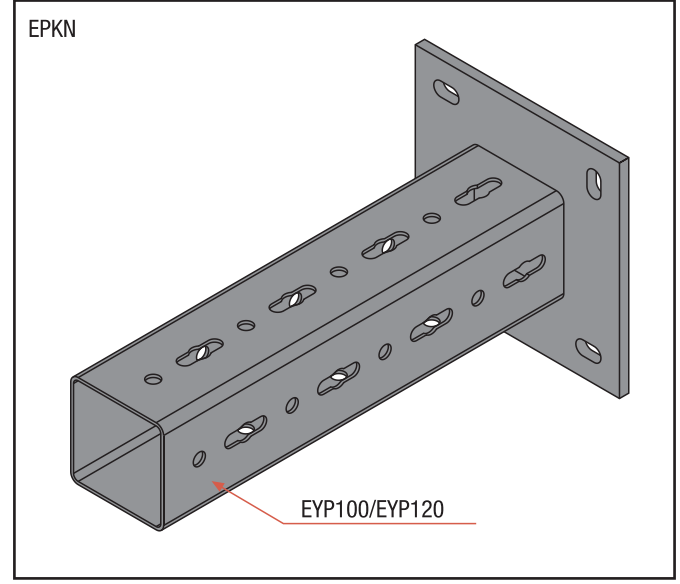
Profil ölçüsü / For profile type: EYP100, EYP120

Malzeme / Material: Çelik / Steel

Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types:

(DGLV) Sıcak daldırma galvaniz
Hot-Dip Galvanized



Moment sınırı / Limit moment

$M_G : 9008,0 \text{ Nm}$

Mesnet tepki kuvveti / Support reaction force $F_{AX} : 53,0 \text{ kN}$

Mesnet tepki kuvveti / Support reaction force $F_{Bx} : 53,0 \text{ kN}$

M_G, F_{AX}, F_{Bx} için / valid to

LF1: 3000,0 mm

LF2: 1500,0 mm

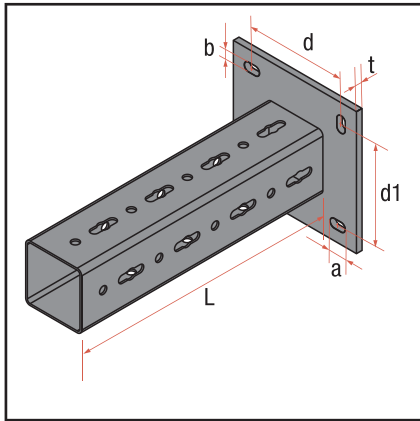
LF3: 2000,0 mm

Not / Notice:

Tüm yük kapasiteleri aşırı statik yükleri gösterir.

All load capacities excessive refers to static loads.

F₀ = Malzemenin akma mukavemeti / yield strength of material



Ölçüler Dimensions

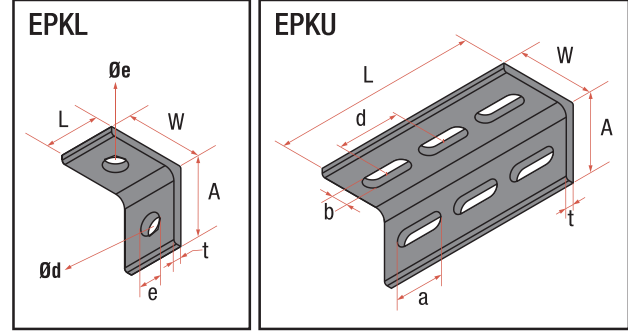
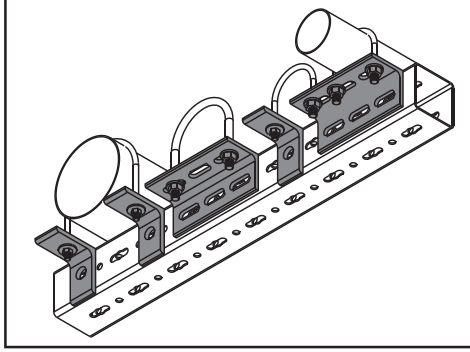
Kod Code	L mm	a x b mm	d mm	d1 mm	t mm	F1 kN	F2 kN	q0 kN	Birim Ağırlığı Unit Weight kg
EPKN10075	750	30 x 18	159	159	10	15,85	7,92	7,92	9,93
EPKN10100	1.000	30 x 18	159	159	10	11,72	5,86	5,86	12,00
EPKN10150	1.500	30 x 18	159	159	10	7,86	3,92	3,92	16,17
EPKN12075	750	30 x 18	159	159	10	24,14	12,07	12,07	12,69
EPKN12100	1.000	30 x 18	159	159	10	17,32	8,65	8,65	15,69
EPKN12150	1.500	30 x 18	159	159	10	11,92	5,95	5,95	21,69

EPKL - EPKU

U Bolt Boru Tutucu / U Bolt Pipe Holder

Profil Ölçüsü / For Profile Type : EYP100, EYP120
Malzeme / Material: Çelik / Steel
Malzeme Tipi / Material Type: S235JR

Kaplama Tipleri / Coating Types: :
(DLGV) Sıcak daldırma galvaniz / Hot-Dip Galvanized



EPLK
Ölçüler / Dimensions:

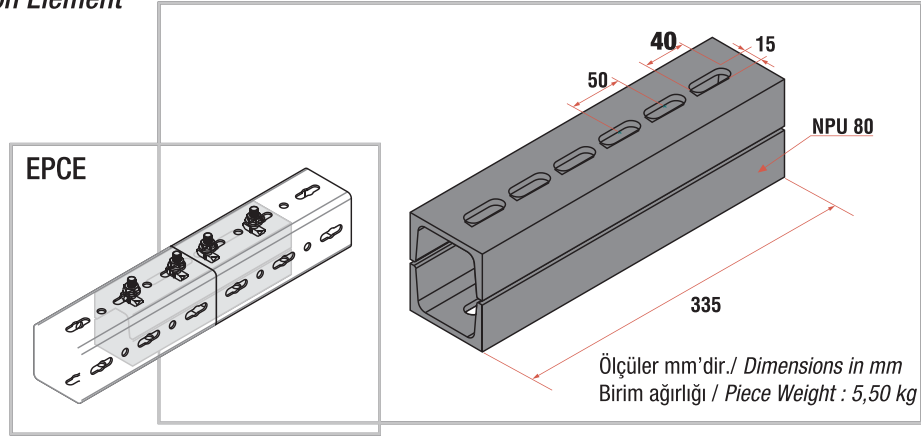
Kod Code	A mm	W mm	L mm	d mm	Øe mm	Ød mm	a x b mm	t mm	Birim Ağırlığı / Unit Weight kg
EPKL.1001	100	100	55	-	25	18	-	10	0,75
EPKU.1001	80	80	210	65	-	-	50x17	8	1,74

EPCE

Profil Birleştirme Parçası / Connection Element

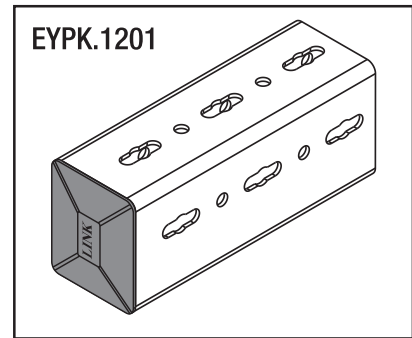
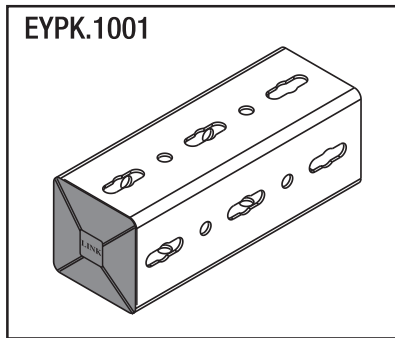
Profil Ölçüsü / For Profile Type : EYP100, EYP120
Malzeme / Material: Çelik / Steel
Malzeme Tipi / Material Type: S235JR

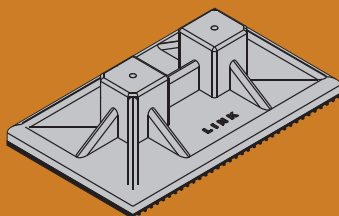
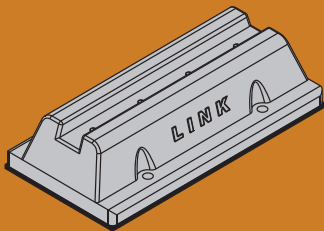
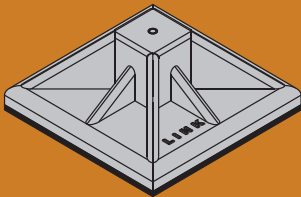
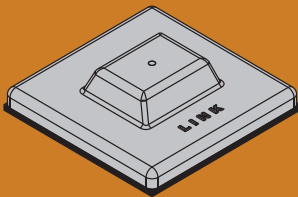
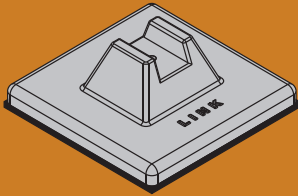
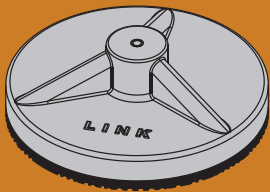
Kaplama Tipleri / Coating Types: :
(DLGV) Sıcak daldırma galvaniz / Hot-Dip Galvanized



Koruyucu Kapak / Protecting Cap

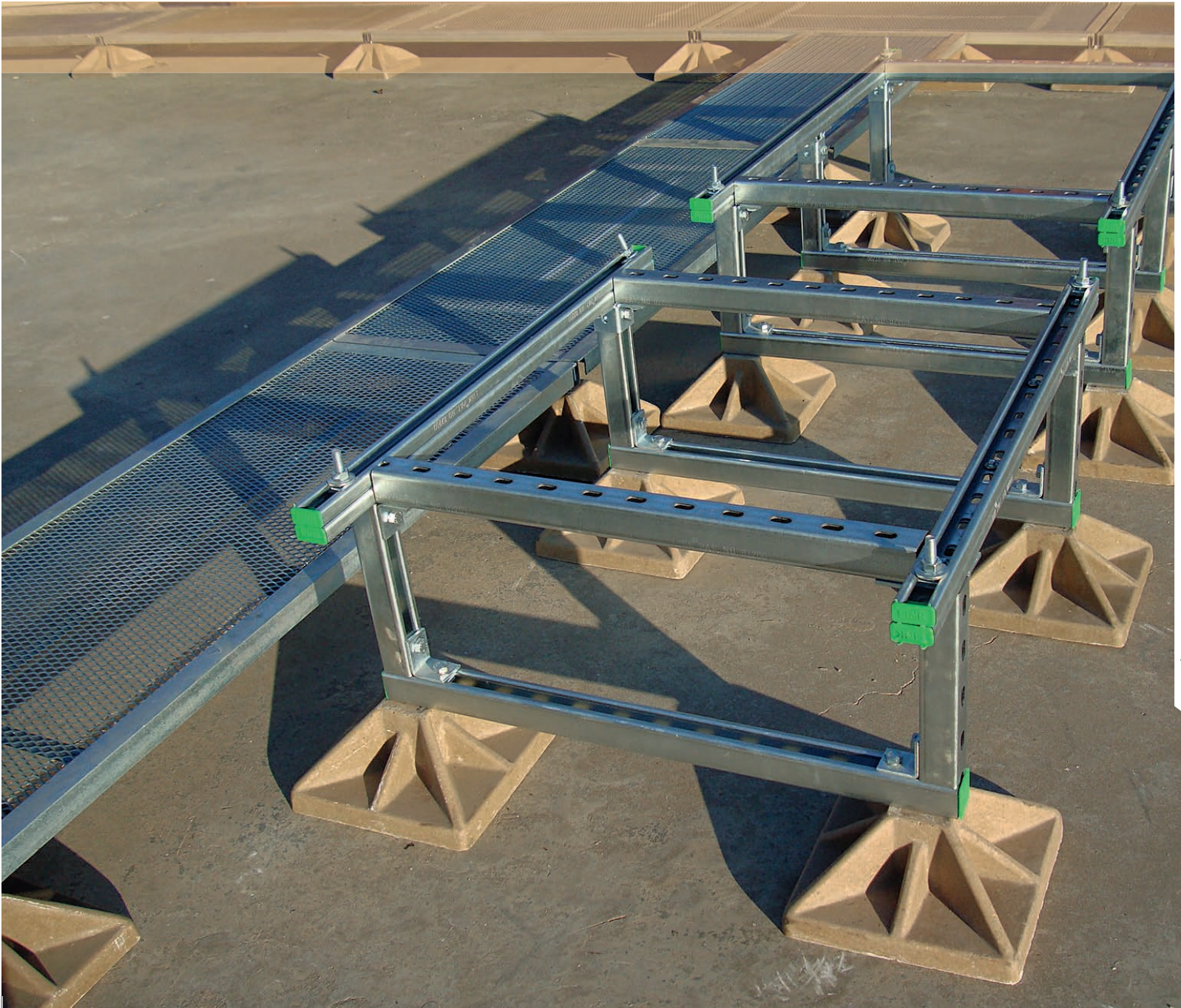
Profil Ölçüsü / For Profile Type : EYP100, EYP120
Malzeme / Material: PE / PE
Renk / Colour: Oranj / Orange





we link the world

ÇATI BAĞLANTI UYGULAMALARI *Roof Connections Applications*



POLİMER BETON AYAKLAR

Bu bölümdeki ürünler çatıdaki izolasyona zarar vermeden, delik delmeden; boru, kanal, elektrik tavası ve ekipmanların istenilen yükseklik ve genişlikte desteklenme sistemlerinin uygulanabilmesi için dizayn edilmiştir.

Malzemeler :

Tabanlar: Yüksek dayanımlı ve yüksek yoğunluktaki polimerin, UV inhibitörlerinin ve anti oksidanların enjeksiyonu ile üretilmektedir.

Profiller: Paslanmaz veya çelikten sacın soğuk çekilmesi ile üretilen 3 yüzeyli ve bir veya üç yüzeyinde 14 mm çapında delikli perfore kanal şeklinde üretilmektedir.

Askı ve Destekler: Taşıyıcı profillerin elektro-galvaniz olduğu durumlarda askı ve destek sistemleri elektro-galvaniz, taşıyıcı profillerin paslanmaz olduğu durumlarda ise askı ve destek sistemleri de paslanmaz olacaktır. Profillerin yüzey kaplaması ile Askı ve destek sistemlerinin yüzey kaplaması aynı olması gerekmektedir.

Uygulama:

1. Bütün LINK sistemleri demonte şeklindedir.(Kolay Montaja hazır)
 2. Çatıda çakıl veya küçük taşlar mevcut ise temizlenir.
 3. Mevcut olan çatı sistemi veya yeni yapılacak çatı sistemine uygun polimer betonların altındaki padların tayini yapılır.
 4. Askı mesafeleri belirlenir.
 5. Eğer gerekirse tabanlar altlarındaki padlar ile çatıya bağlanabilir.(Yapıştırılabilir)
 6. Polimer beton ayaklar yerlerine koyulduktan sonra profillerin ve askı destek sistemlerinin montajı yapılır.
- Not: Askı ve destek sistemleri mevcut yükseklik ve eğimi sağlamak için ayarlanabilir olacaktır.

POLYMER CONCRETE BASES

The products found in this section bases are designed to support piping, ducting, cable tray and equipments at any specified height or width, with allowing installation without roof penetrations, flashings or damage to the roofing material.

Materials :

Bases: Injection molded high density/high impact polypropylene with UV-inhibitors and anti-oxidants.

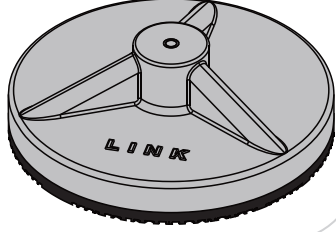
Profiles: Roll-formed stainless steel or carbon steel with finishing hot-dip galvanized 3-sided channel perforated with 14 mm holes on one sides or three sides.

Supports and Hangers: Fabricated of carbon steel where framing is carbon steel; fabricated of stainless steel where framing is stainless steel; finished same as framing.

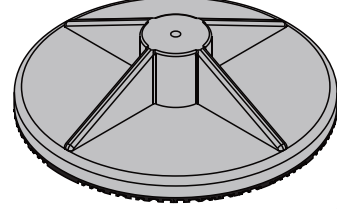
Installation:

1. All LINK Systems are disassemble (ready to easy assembly).
 2. Sweep off loose gravel, if present.
 3. Consult manufacturer of existing or new roofing system regarding type of isolation pads required for their roofing system.
 4. Determine spacing of supports.
 5. Fully adhere bases with pads below to roof system if required.
 6. Mount profiles and hanger parts to the support systems after placing bases
- Note: Support shall be adjustable to maintain existing elevation and slope.

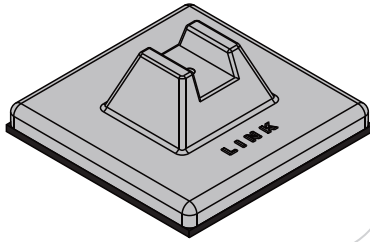
PLYA.100
Sayfa / Page: 146



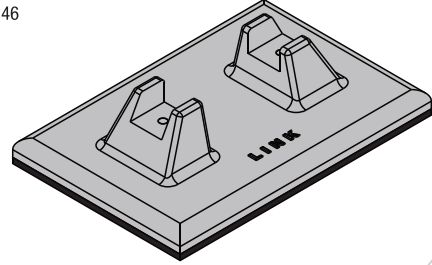
PLYA.200
Sayfa / Page: 146



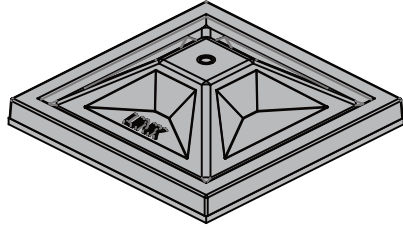
PLKA.100
Sayfa / Page: 146



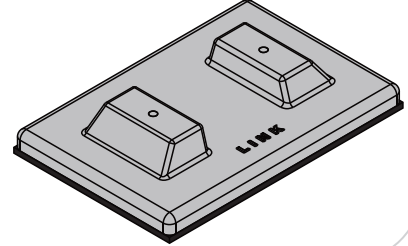
PLKA.200
Sayfa / Page: 146



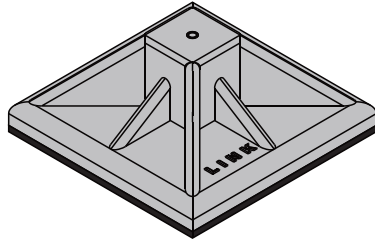
PLDA.100
Sayfa / Page: 146



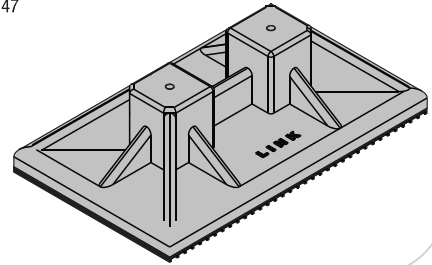
PLDA.200
Sayfa / Page: 146



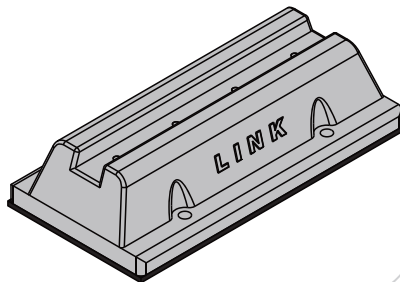
PLDD.100
Sayfa / Page: 147



PLDD.200
Sayfa / Page: 147



PLHL.100
Sayfa / Page: 147

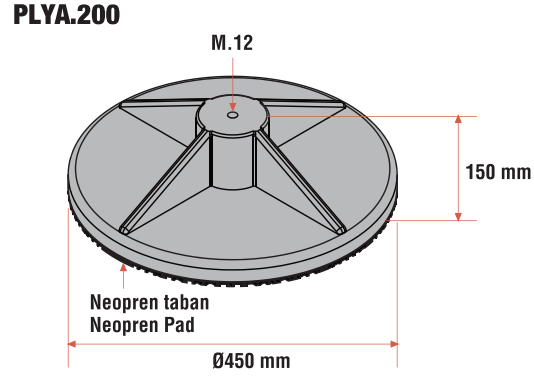
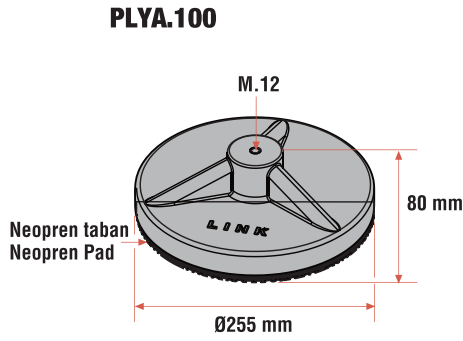


Polimer Beton Ayak Polymer Concrete Bases

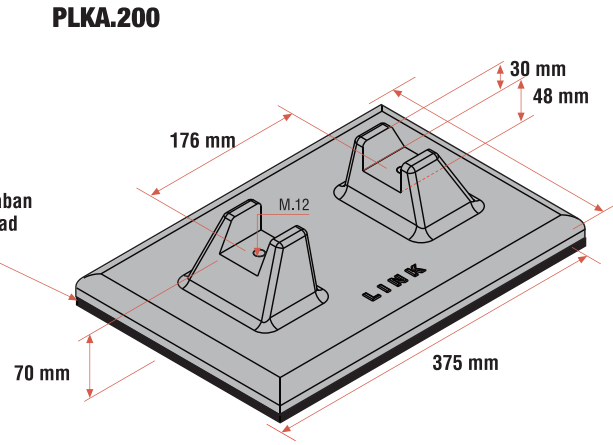
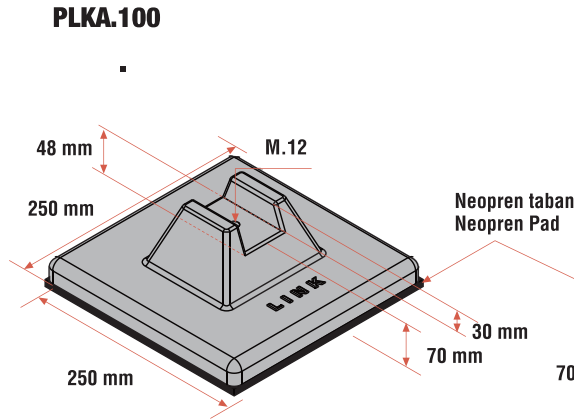
Hizmet / Service :

Çatıdaki izolasyona zarar vermeden, delik delmeden; boru, kanal, elektrik tavası ve ekipmanların istenilen yükseklik ve genişlikte desteklenme sistemlerinin uygulanabilmesi için dizayn edilmiştir.

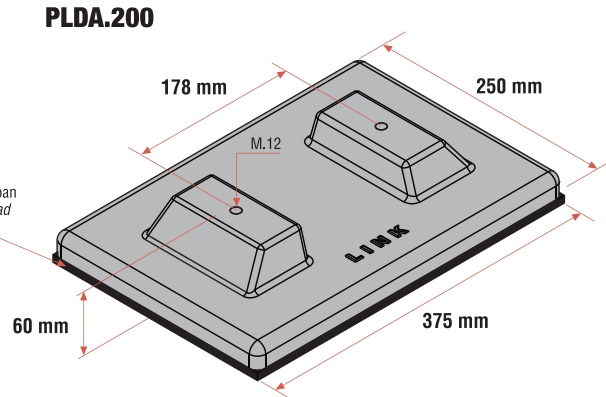
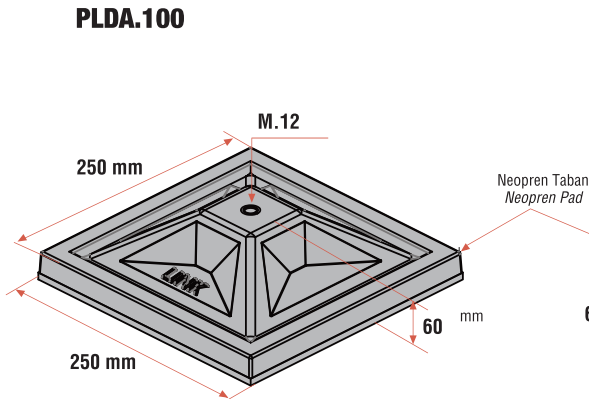
The bases are designed to support piping, ducting, cable tray and equipments at any specified height or width, with allowing installation without roof penetrations, flashings or damage to the roofing material.



PLYA



PLKA



PLDA

PLDD

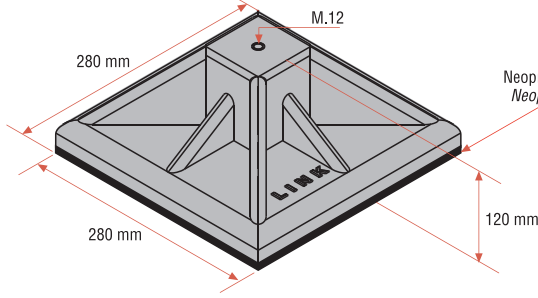
Polimer Beton Ayaklar Polymer Concrete Bases

Hizmet / Service :

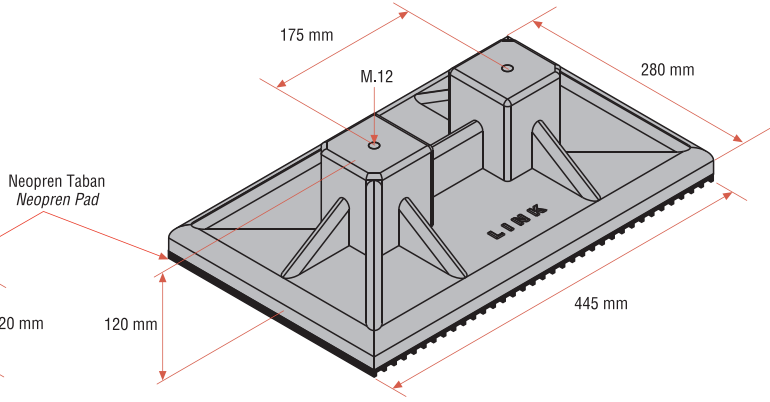
Çatıdaki izolasyona zarar vermeden, delik delmeden; boru, kanal, elektrik tavası ve ekipmanların istenilen yükseklik ve genişlikte desteklenme sistemlerinin uygulanabilmesi için dizayn edilmiştir.

The Bases are designed to support piping, ducting, cable tray and equipments at any specified height or width, with allowing installation without roof penetrations, flashings or damage to the roofing material.

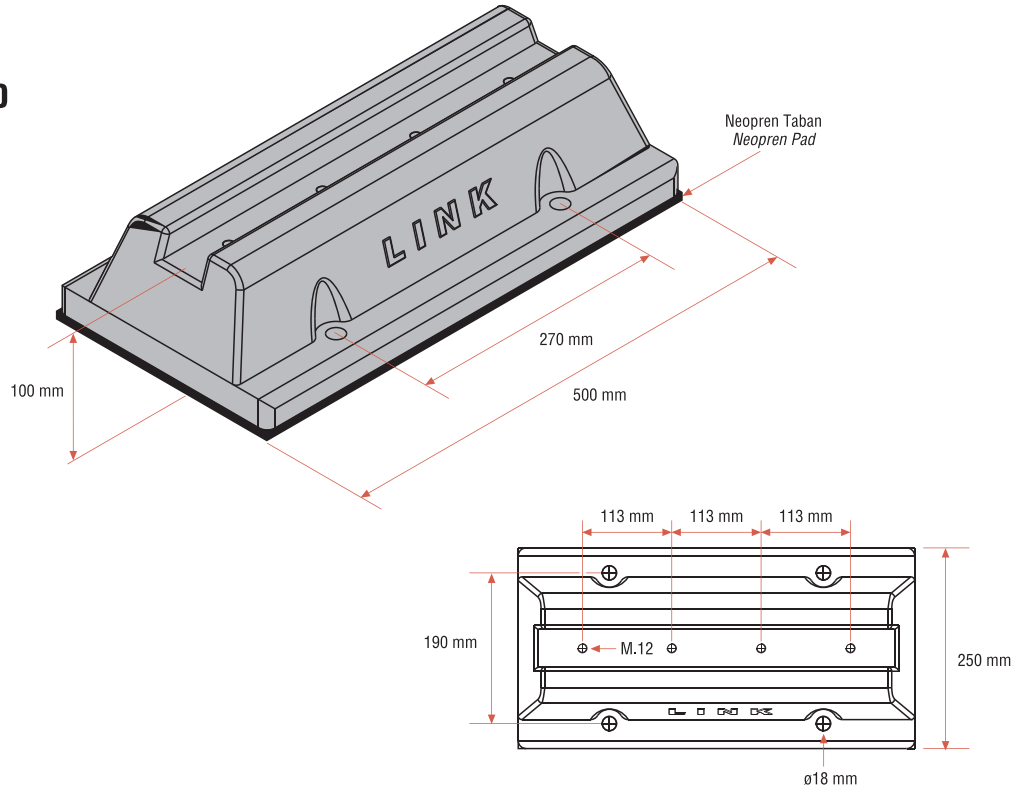
PLDD.100



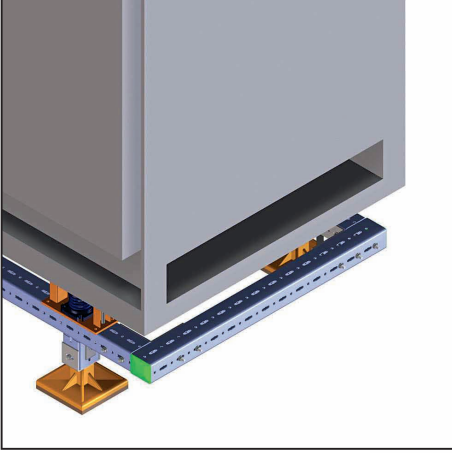
PLDD.200



PLHL.100

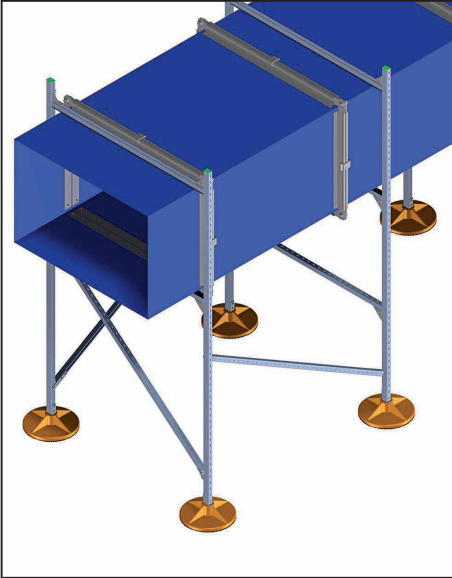


PLHL

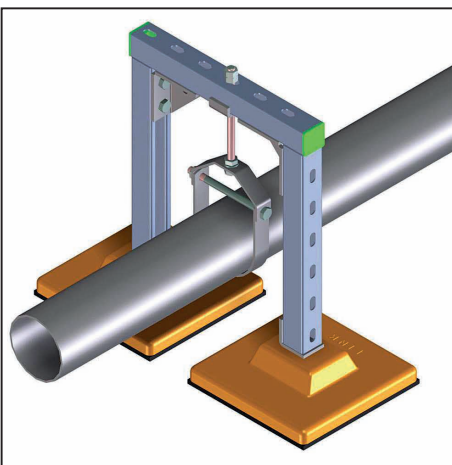


Cihazlar
Equipment-Telecom

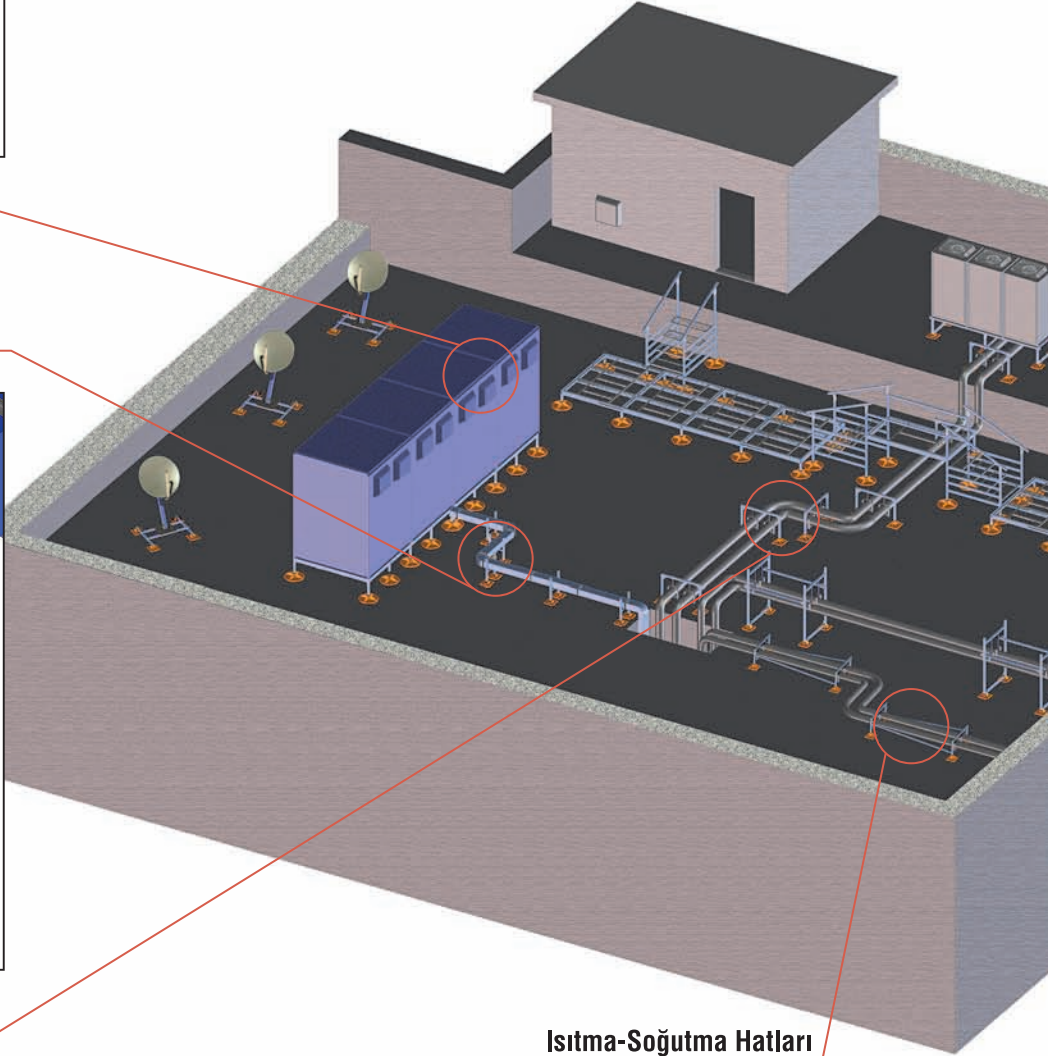
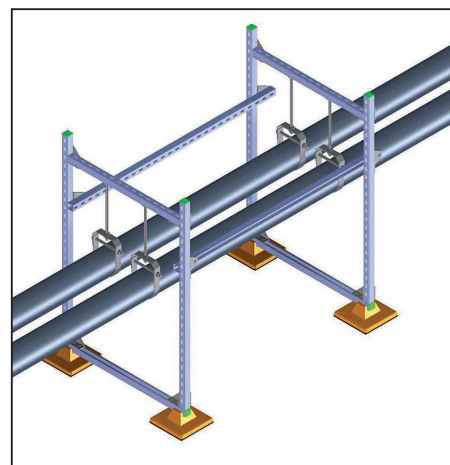
Havalandırma Hatları
Ducting

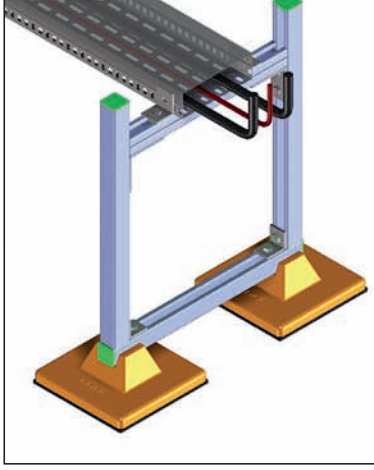


Gaz Hatları
Gas Lines

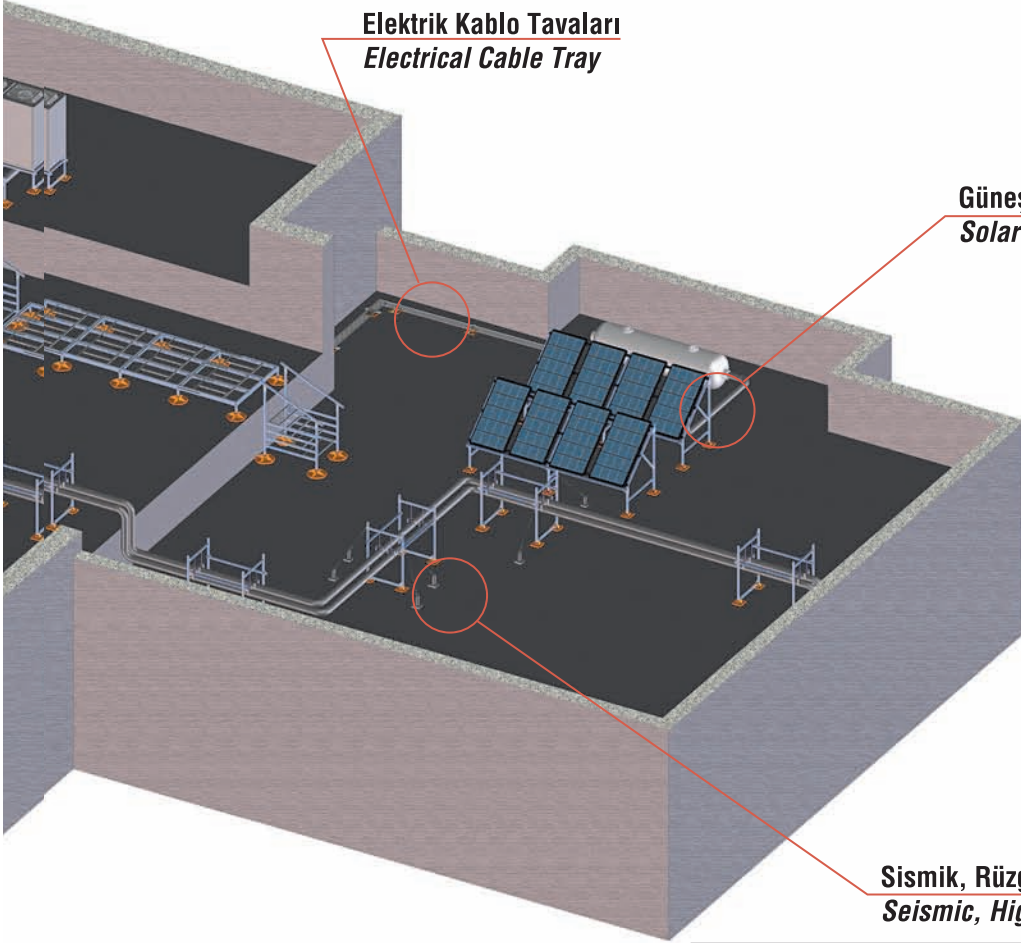


Isıtma-Soğutma Hatları
Chilled Hot Water



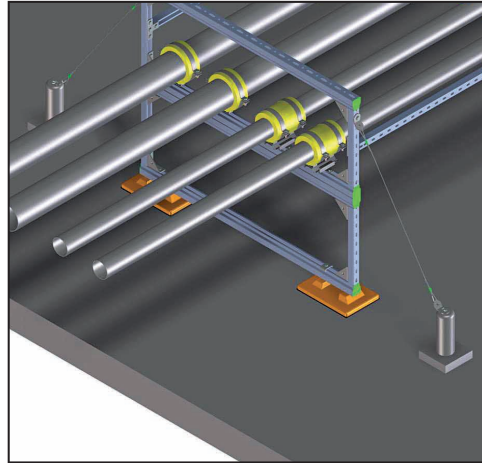
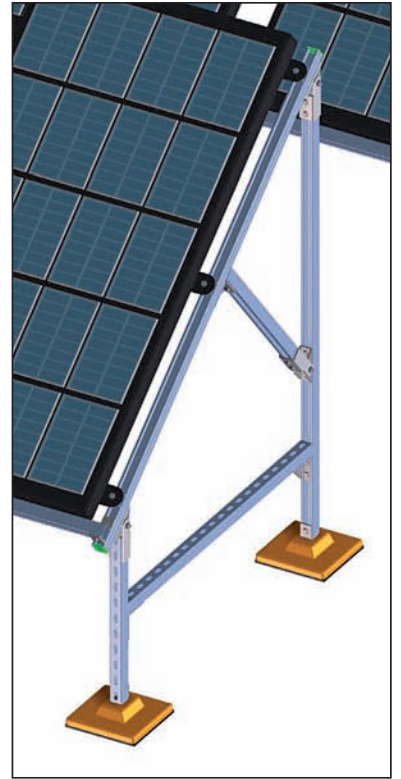


Elektrik Kablo Tavaları
Electrical Cable Tray

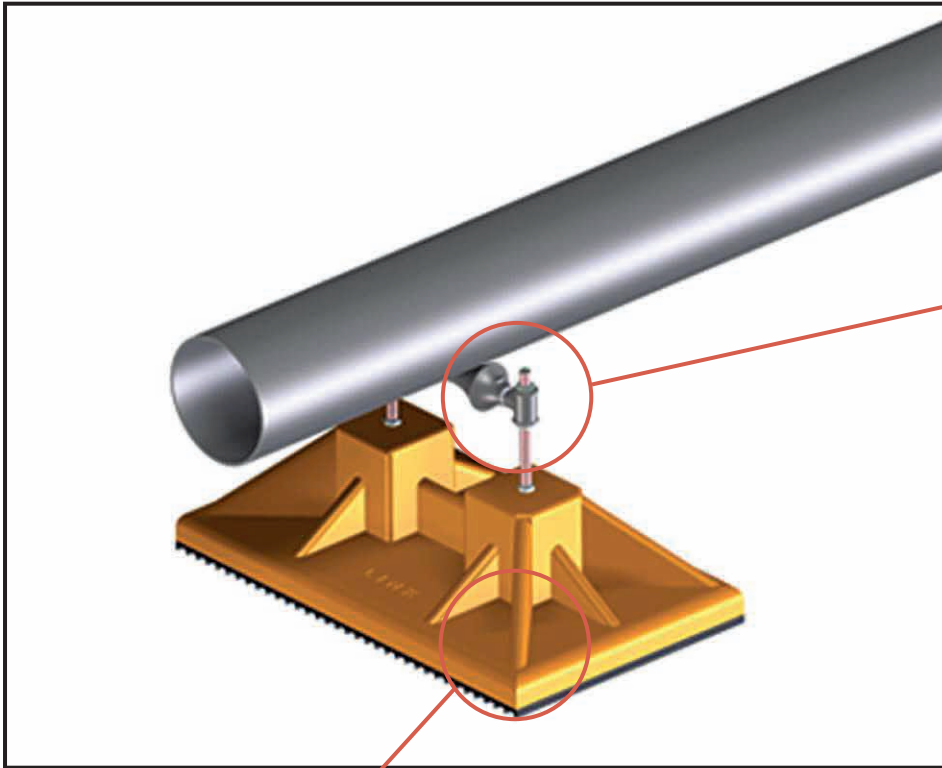


Güneş Panelleri
Solar Panels

Sismik, Rüzgar Dayanımı
Seismic, High-Wind



Gaz Hatları
Gas Lines



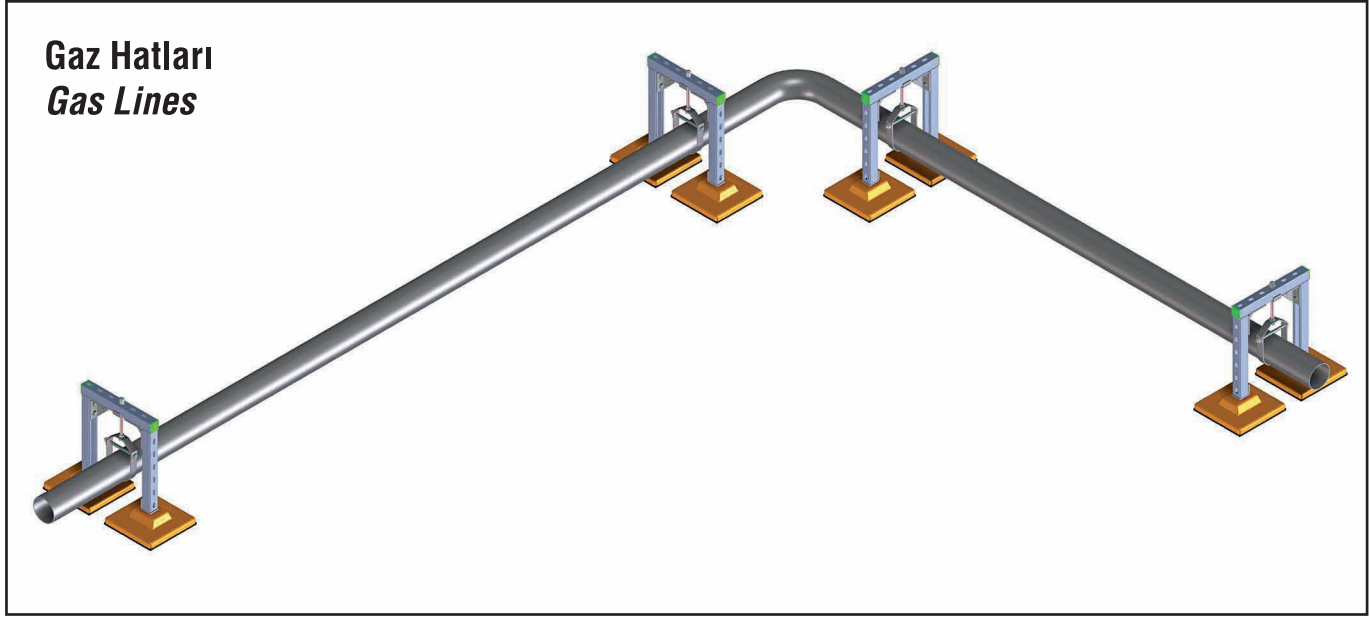
MRSS

Soketli Boru Makarası
Pipe Roll with Sockets

PLDD.200

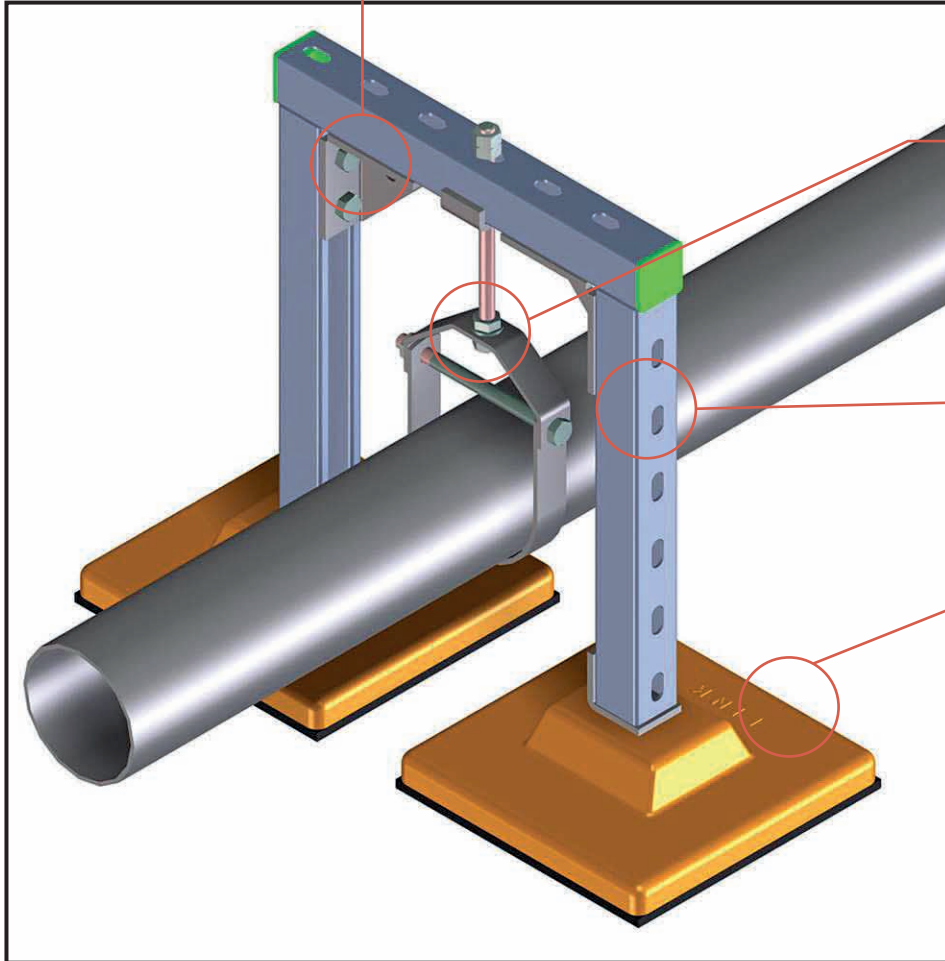
Polimer Beton Ayaklar
Polymer Concrete Bases

Gaz Hatları
Gas Lines



PLGAF8265

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings



DBS

Clevis Askı Kelepçesi
Clevis Hanger

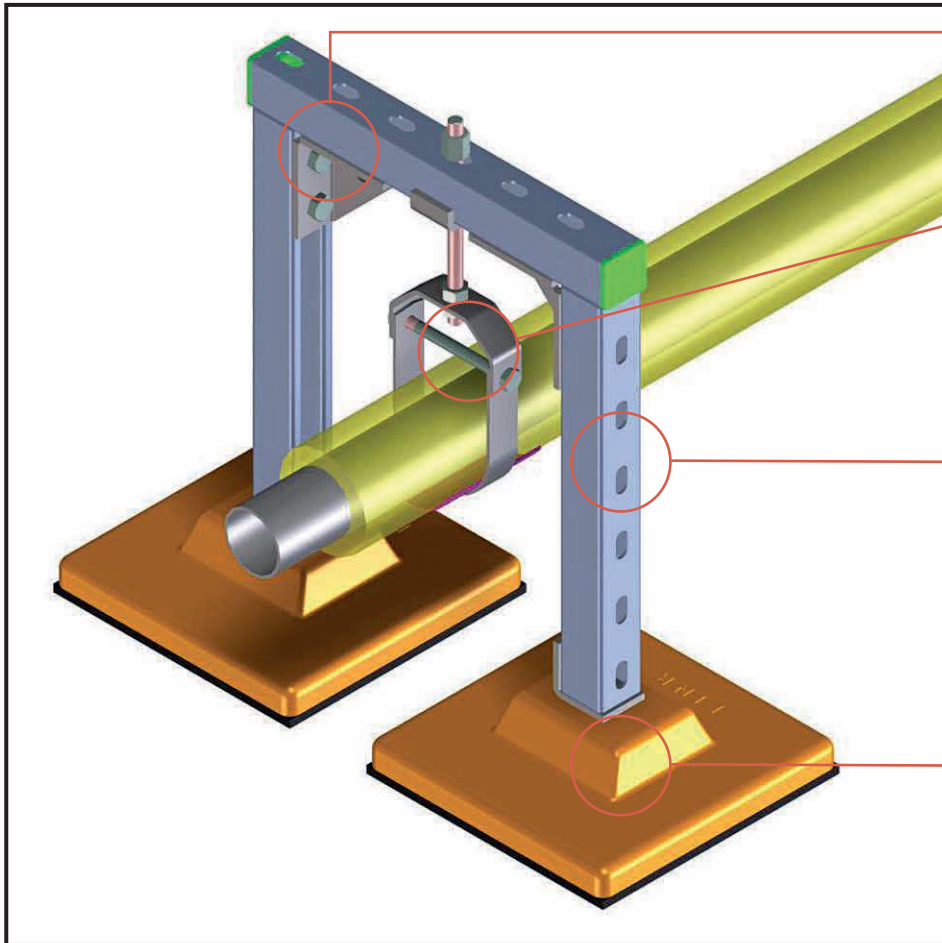
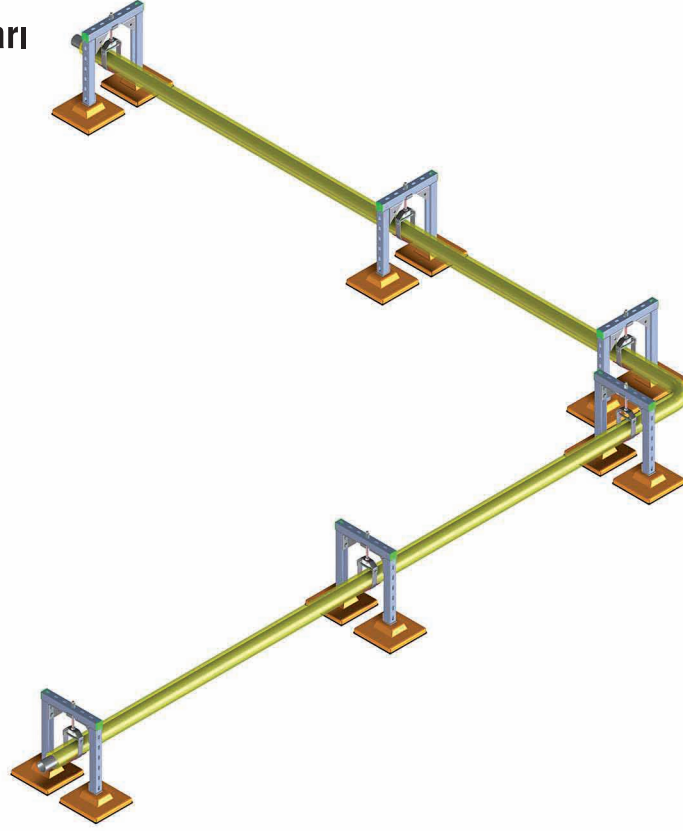
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Isıtma-Soğutma Hatları
Chilled Hot Water



PLGAF8265

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

PSDB

İzolasyon Takoğu
Askı Keleççeleri
Insulation Support Clamp

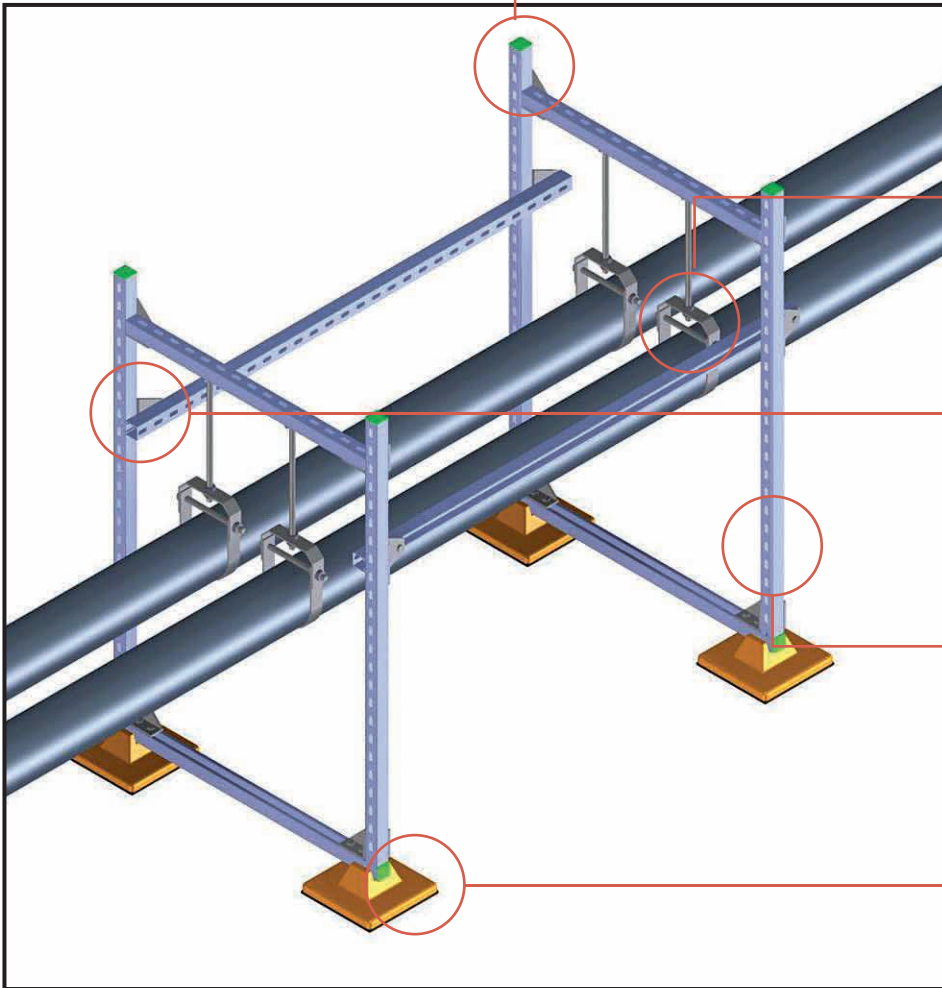
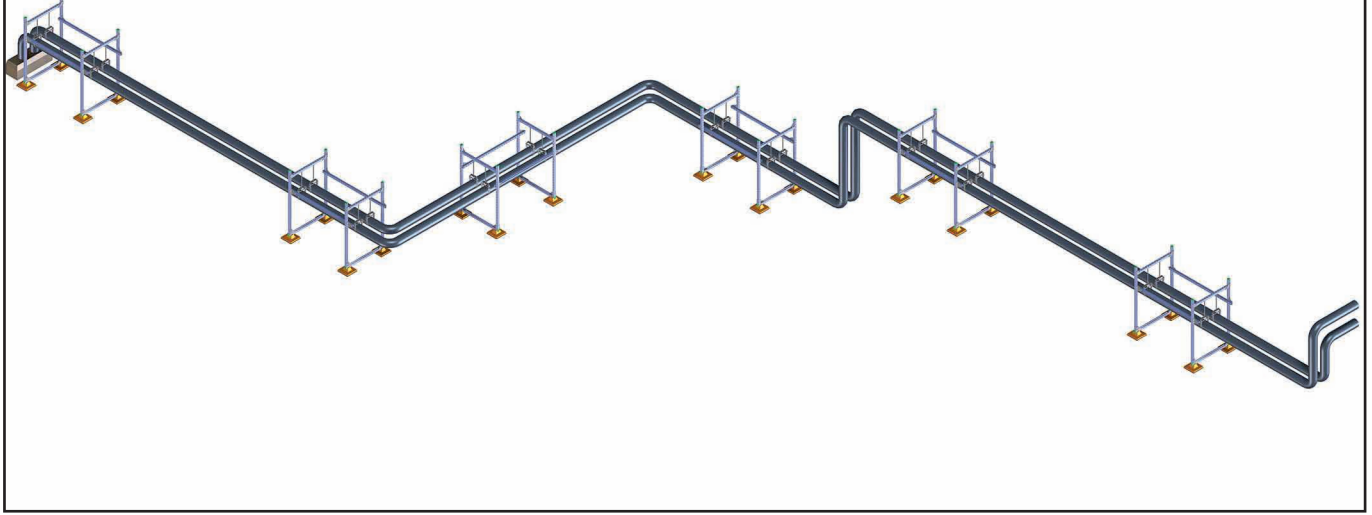
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Isıtma-Soğutma Hatları
Chilled Hot Water



PLGAF8265

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

DBS

Clevis Askı Kelepçesi
Clevis Hanger

PLGAF8230

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

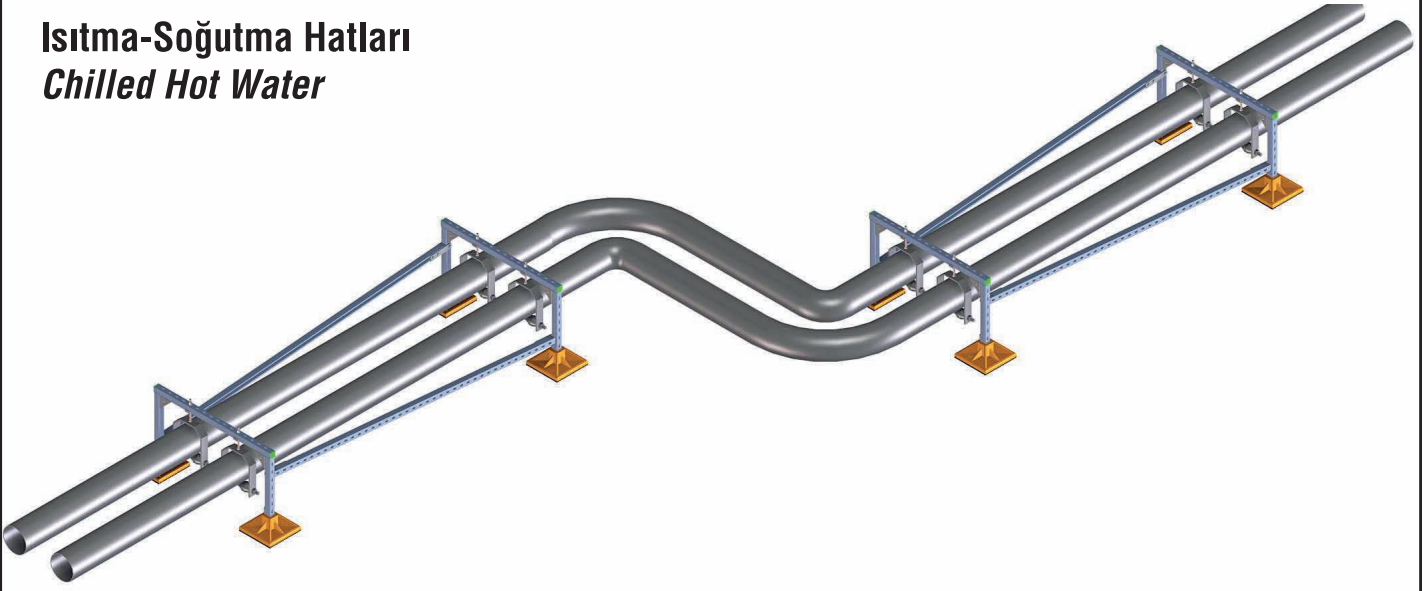
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLKA.100

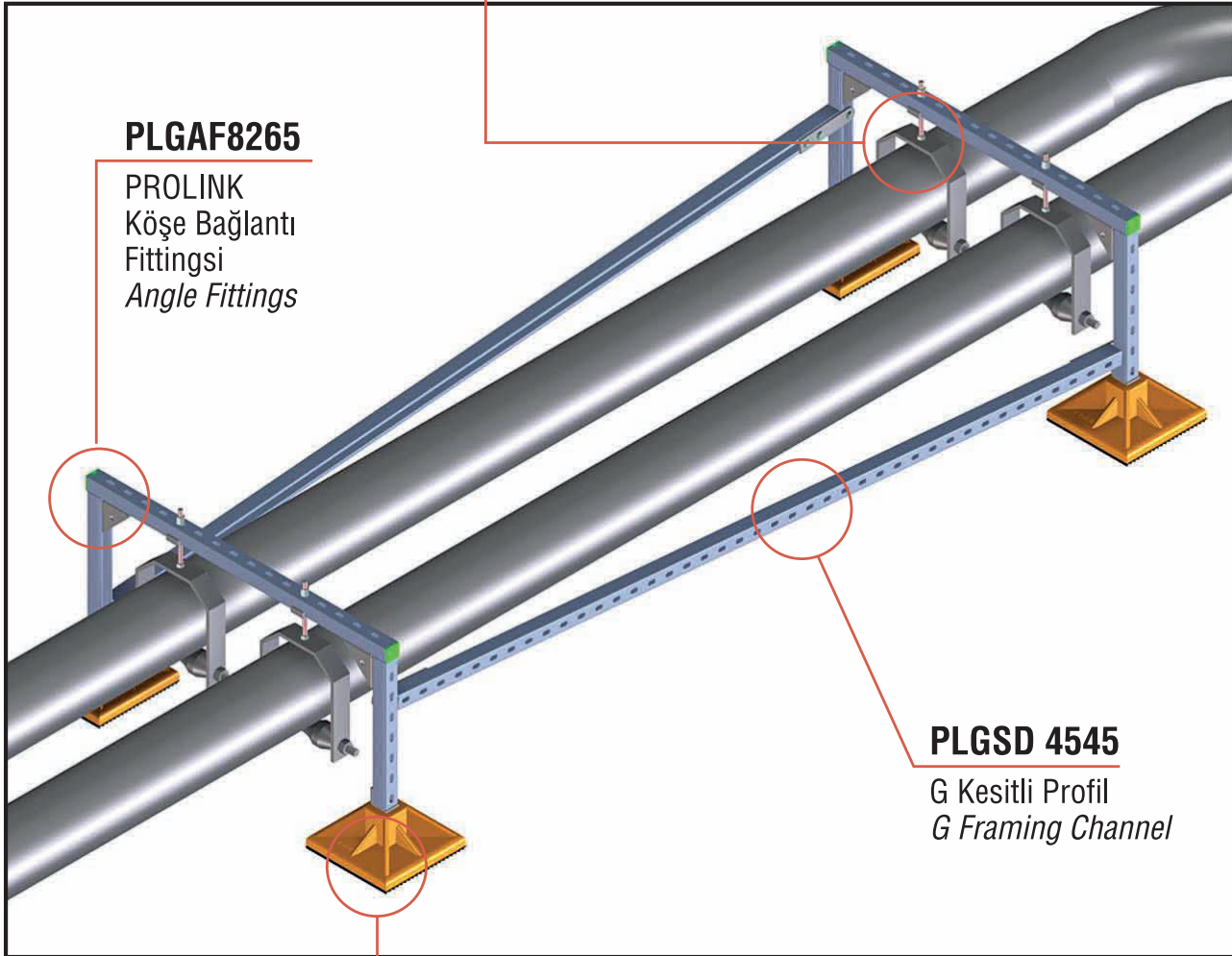
Polimer Beton Ayaklar
Polymer Concrete Bases

Isıtma-Soğutma Hatları
Chilled Hot Water



CRH

Ayarlanabilir Çelik Makaralı Boru Askı Kelepçesi
Adjustable Steel Yoke Pipe Roll



PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

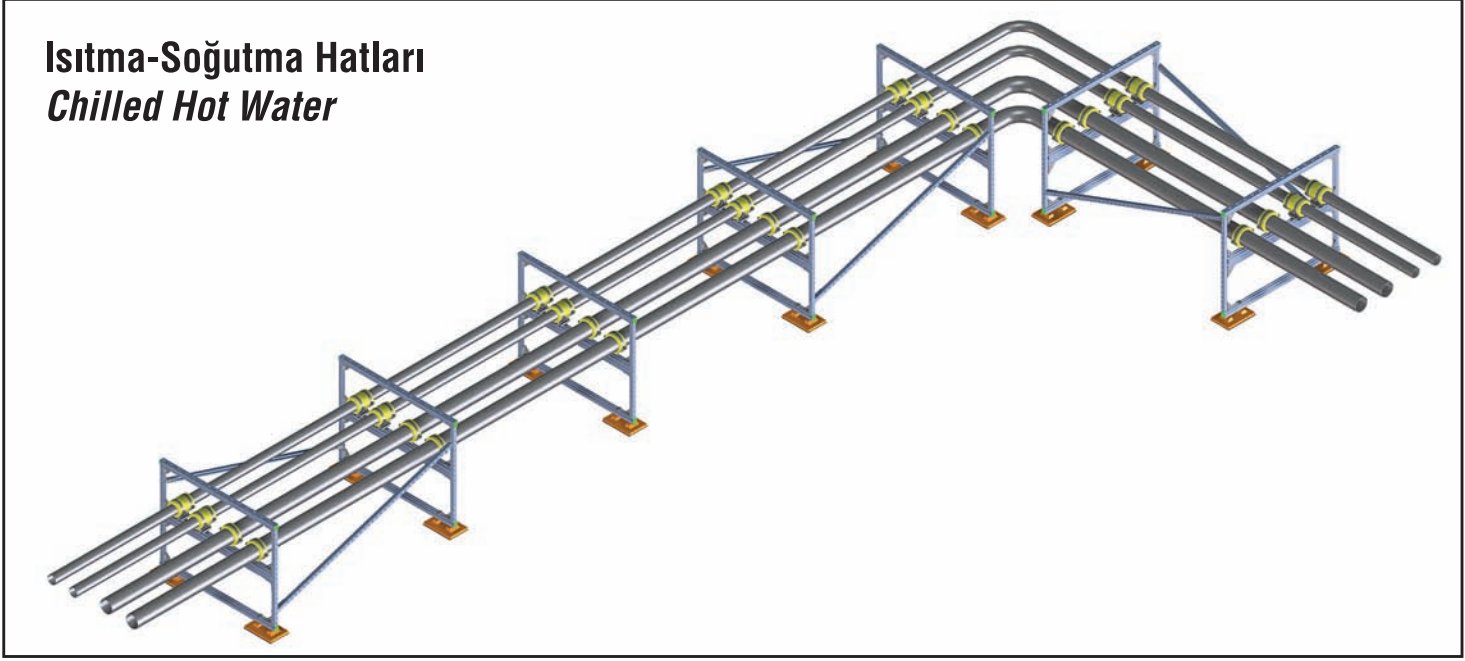
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLDD.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Isıtma-Soğutma Hatları
Chilled Hot Water



PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

MKYM

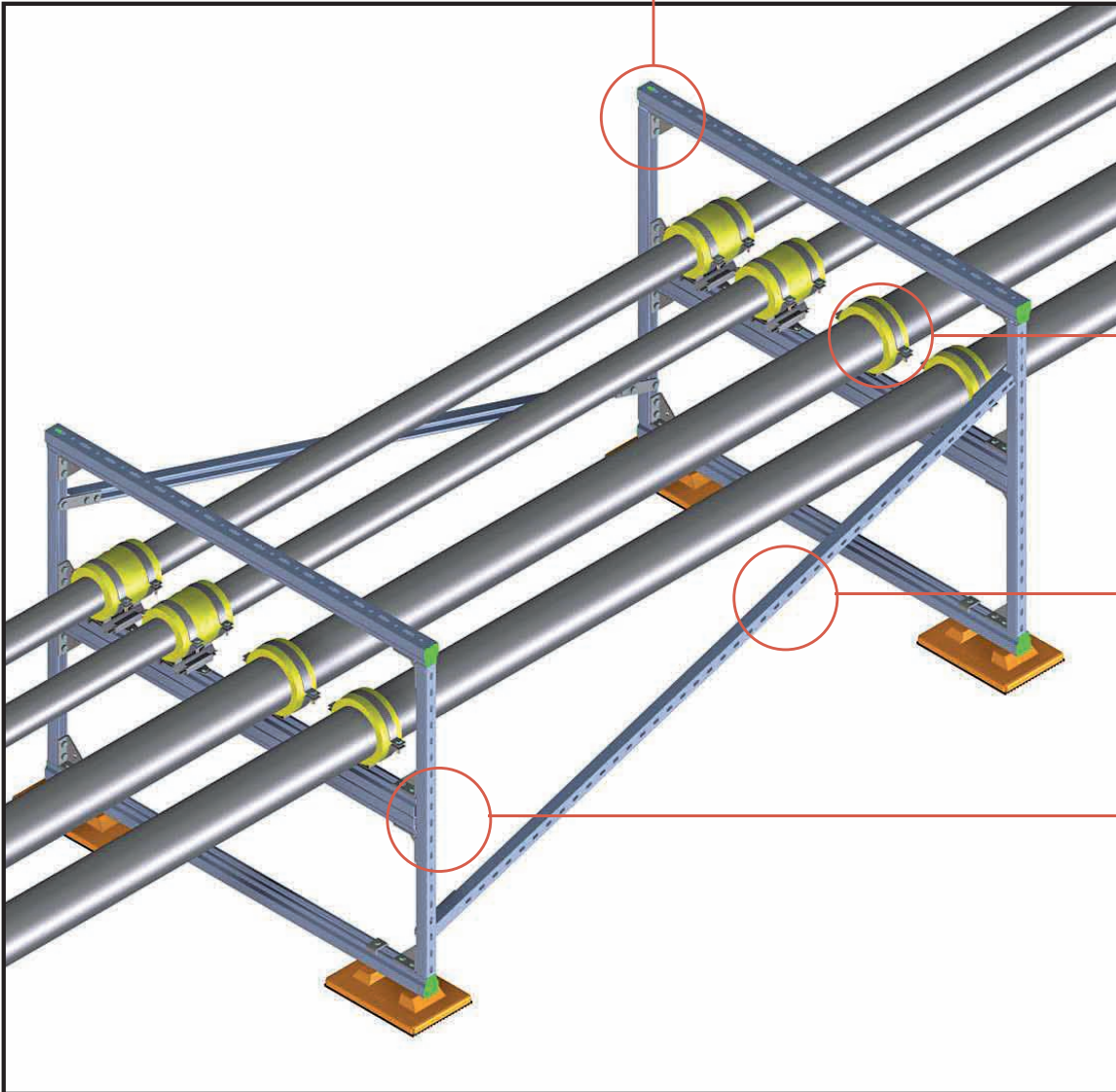
Kayar Yatak
Sliding Frame

PLGSD 4545

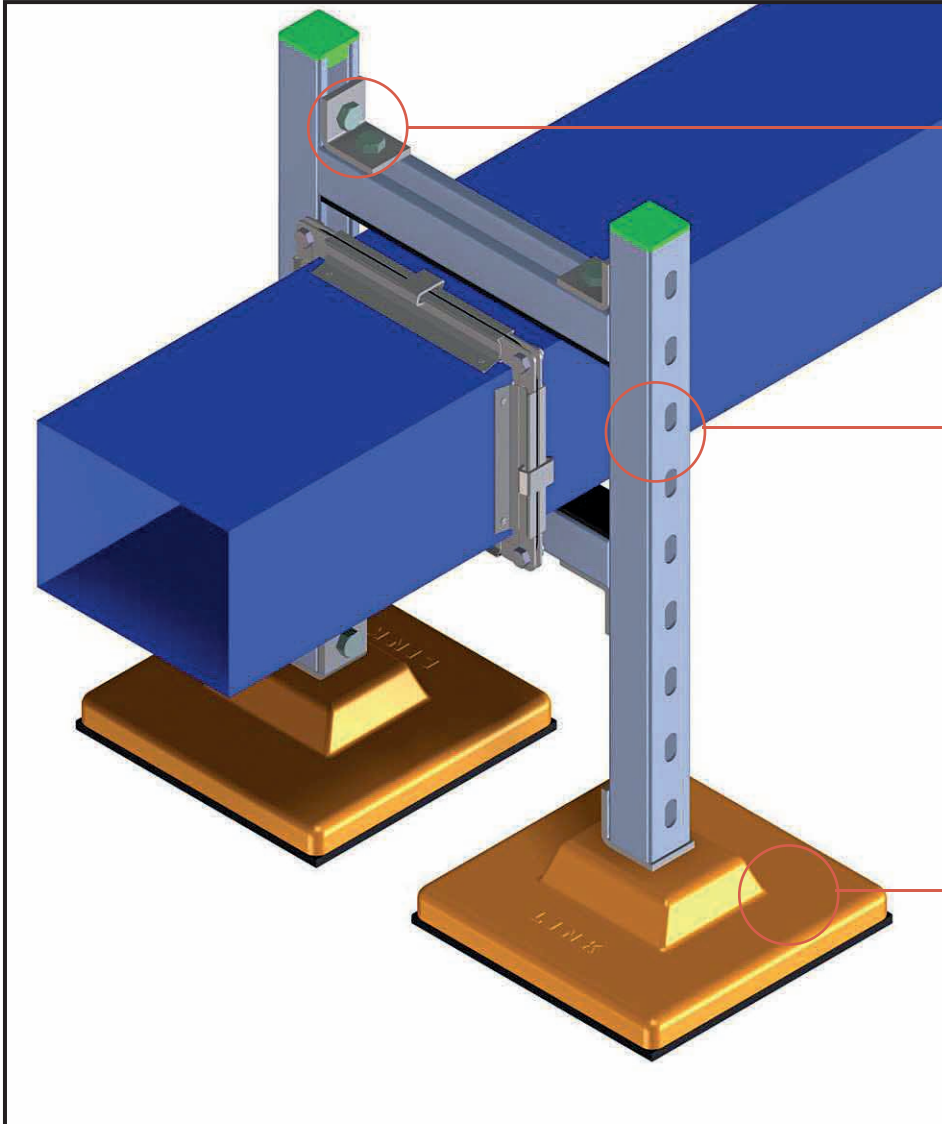
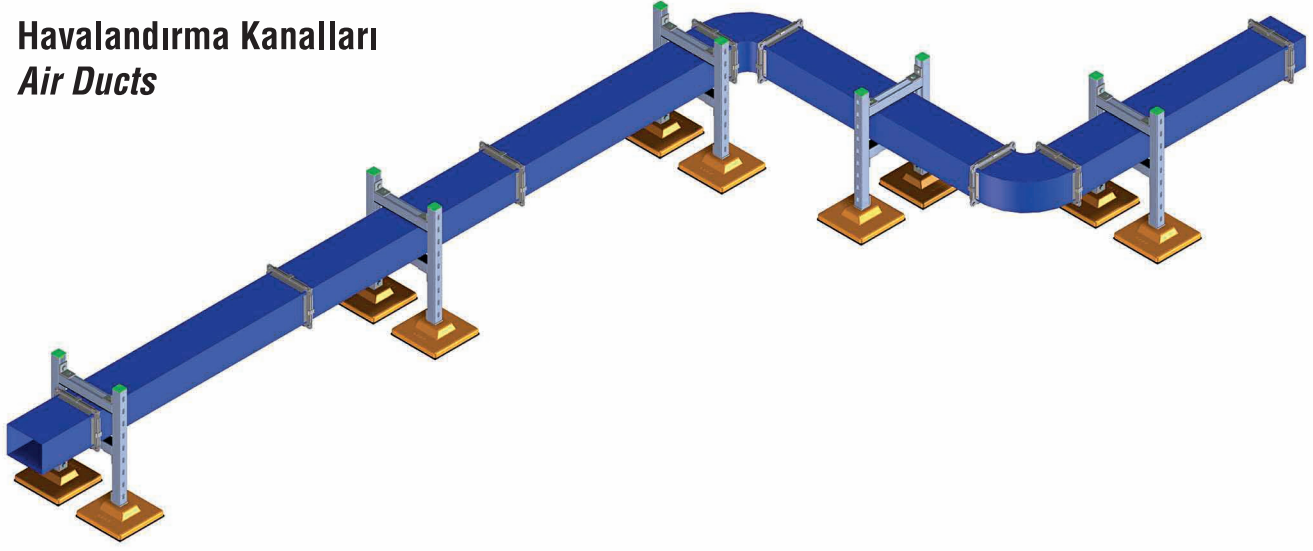
G Kesitli Profil
G Framing Channel

PLGSD 4590

G Kesitli Profil
G Framing Channel



Havalandırma Kanalları Air Ducts



PLGAF8200

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

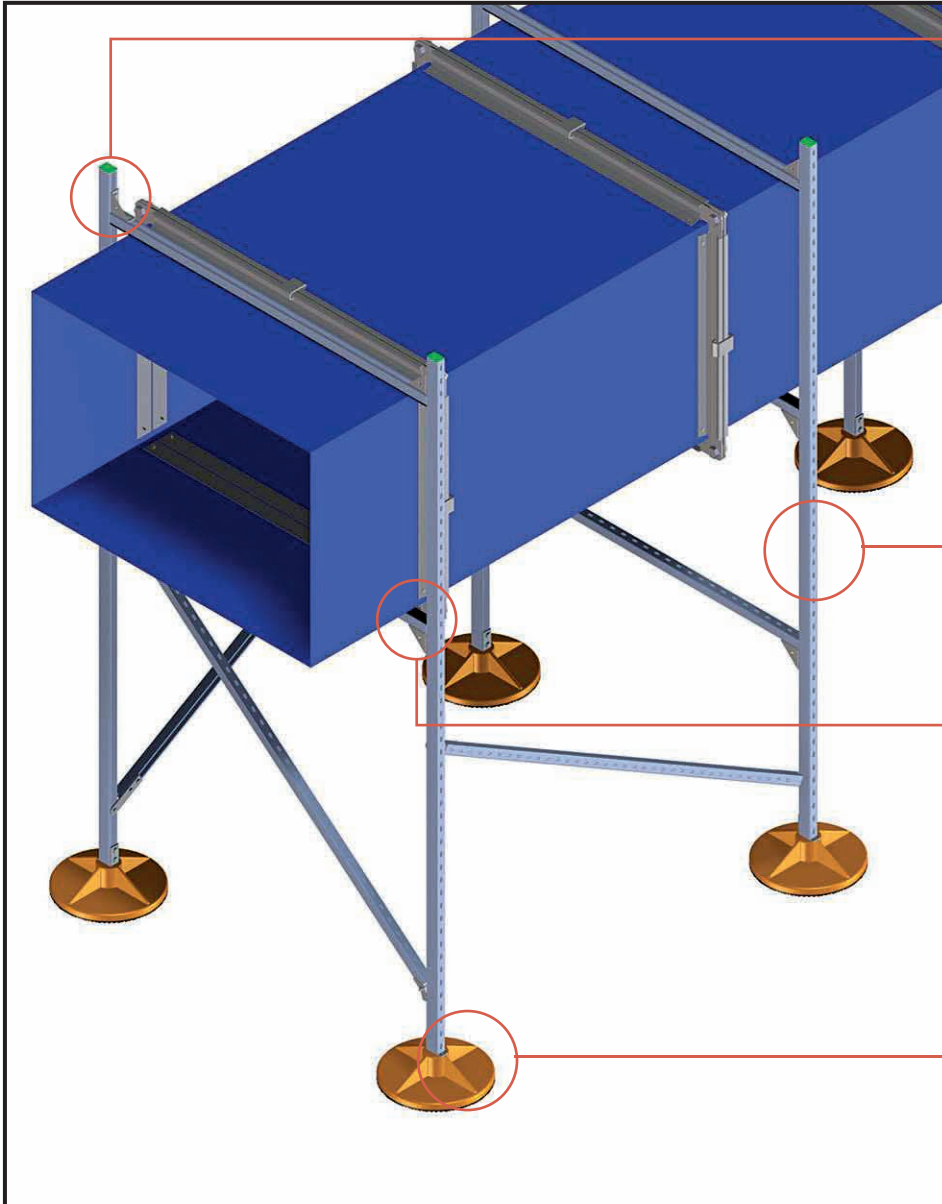
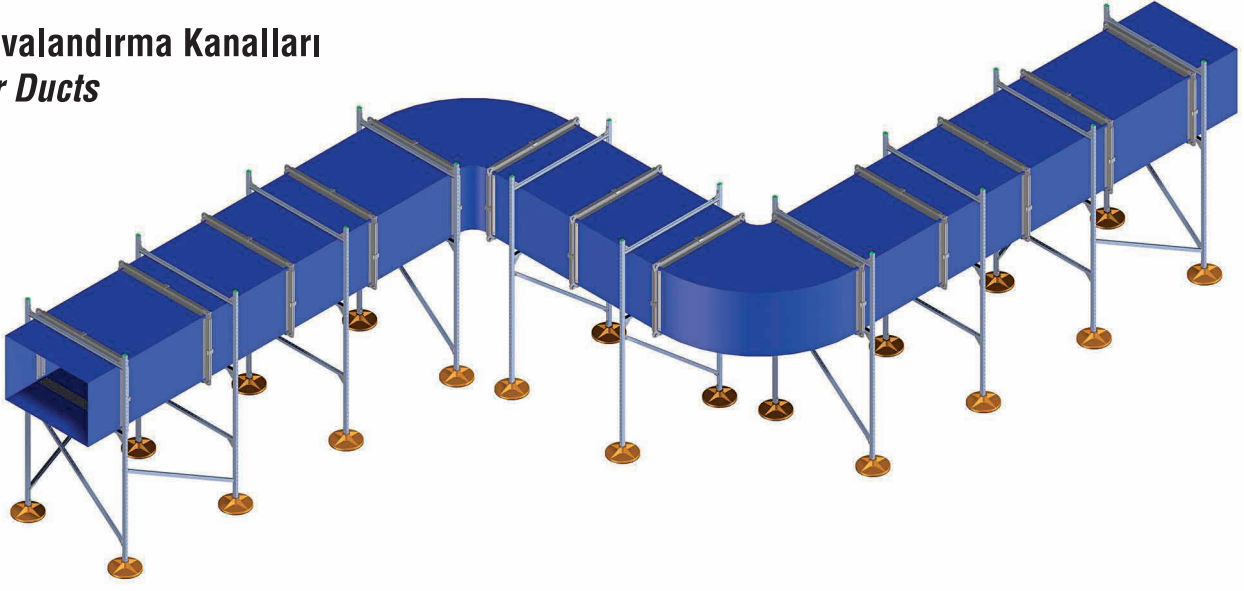
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Havalandırma Kanalları Air Ducts



PLGAF8200

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

PLGSD 4545

G Kesitli Profil
G Framing Channel

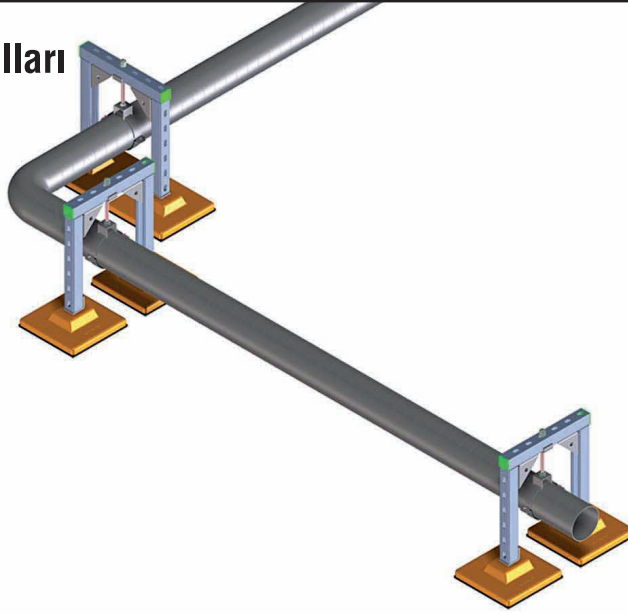
PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

PLYA.200

Polimer Beton Ayaklar
Polymer Concrete Bases

Havalandırma Kanalları Air Ducts



PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

LSK4

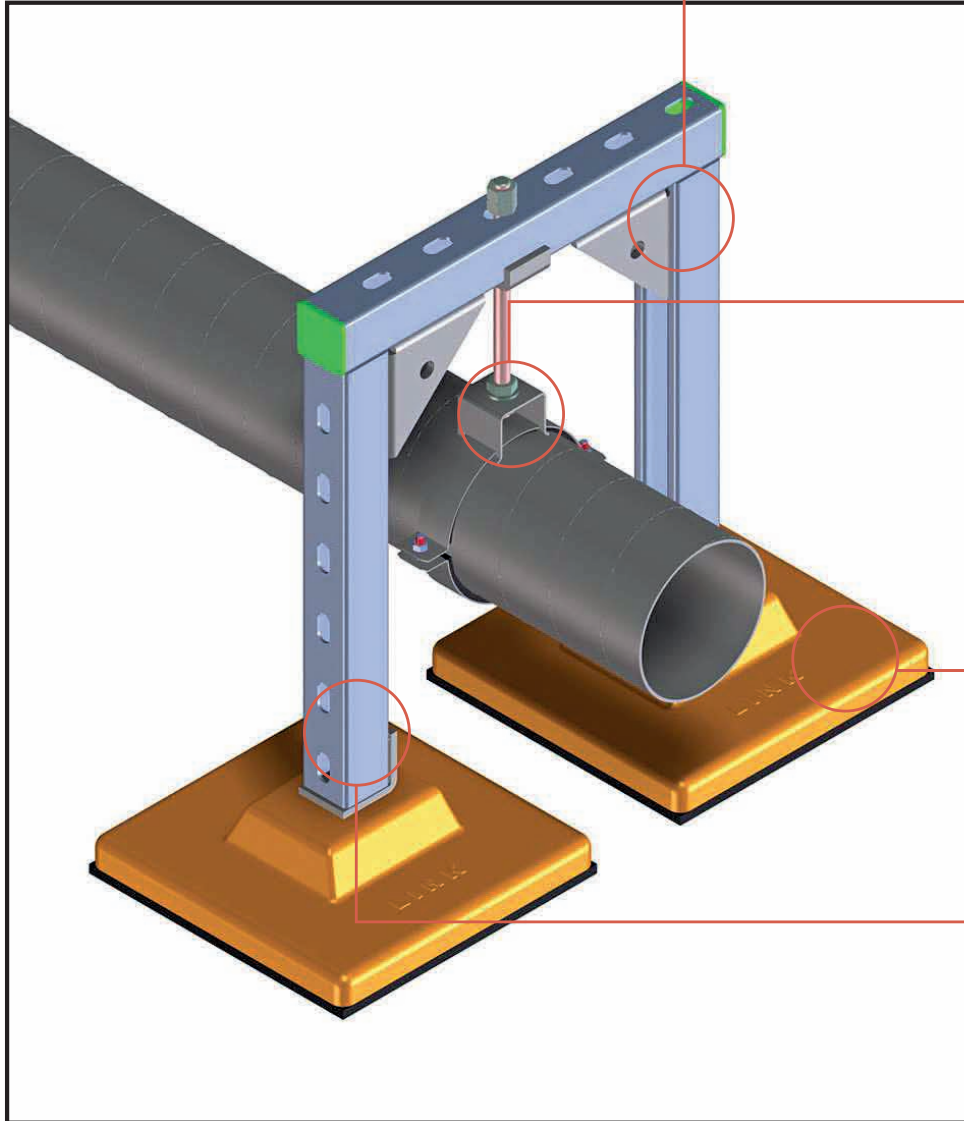
Yuvarlak Hava Kanalı Kelepçesi
Round Air Channel Clamps

PLDA.100

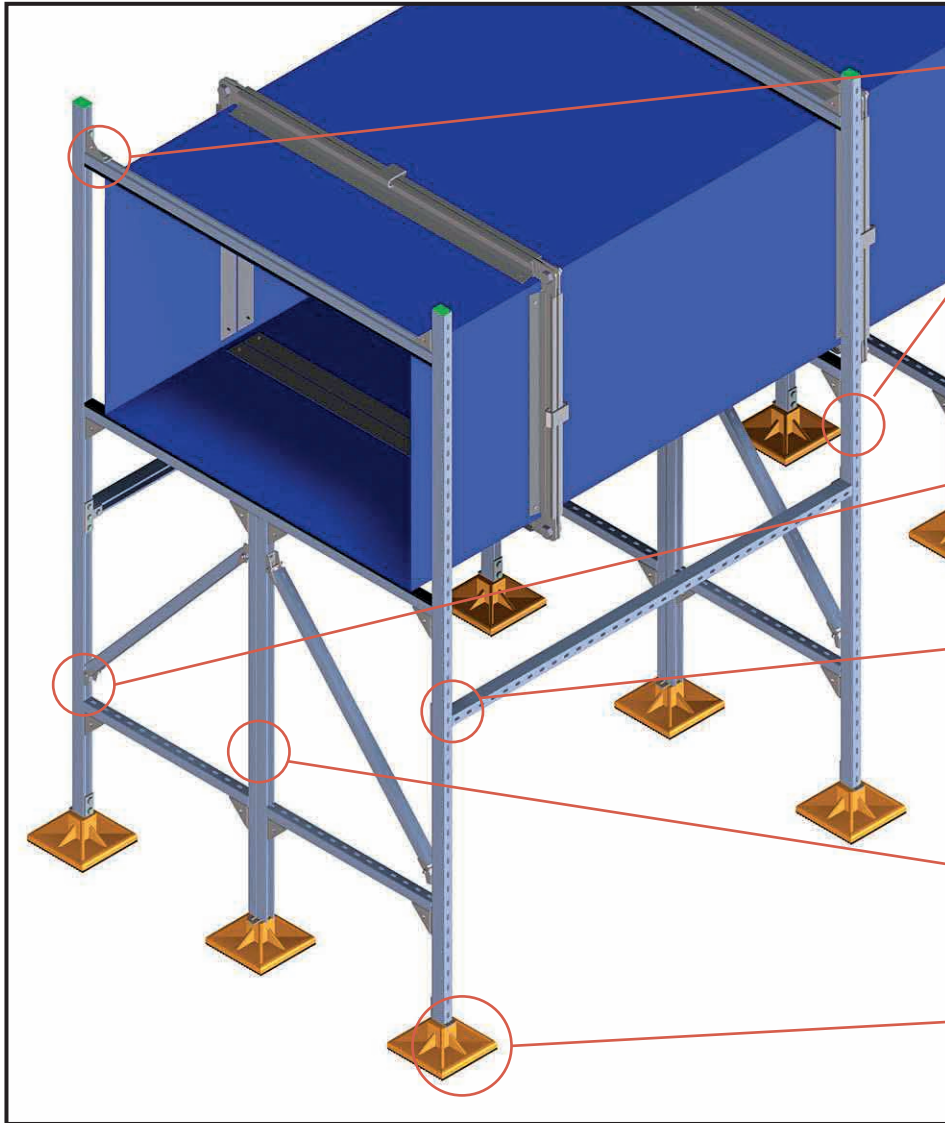
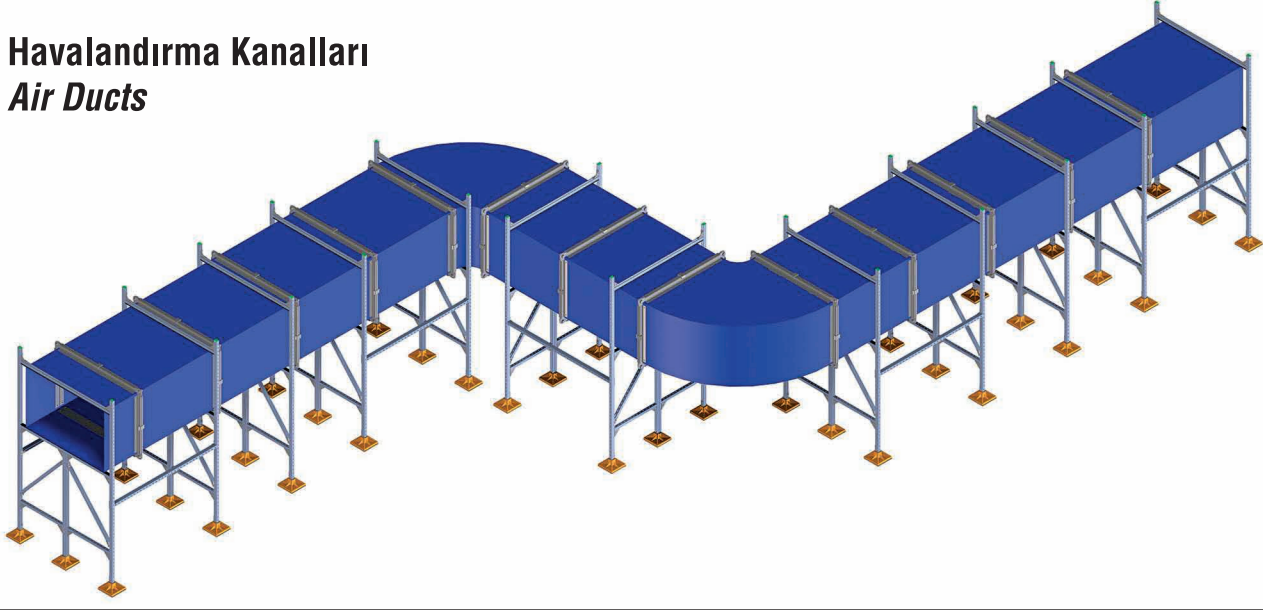
Polimer Beton Ayaklar
Polymer Concrete Bases

PLGSD 4545

G Kesitli Profil
G Framing Channel



Havalandırma Kanalları Air Ducts



PLGAF8265

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

PLGSD 4545

G Kesitli Profil
G Framing Channel

MF

Bağlantı Mafsalı
Angle Joint

PLGFPF.8090

PROLINK
Platin Fittingsi
Flat Plate Fittings

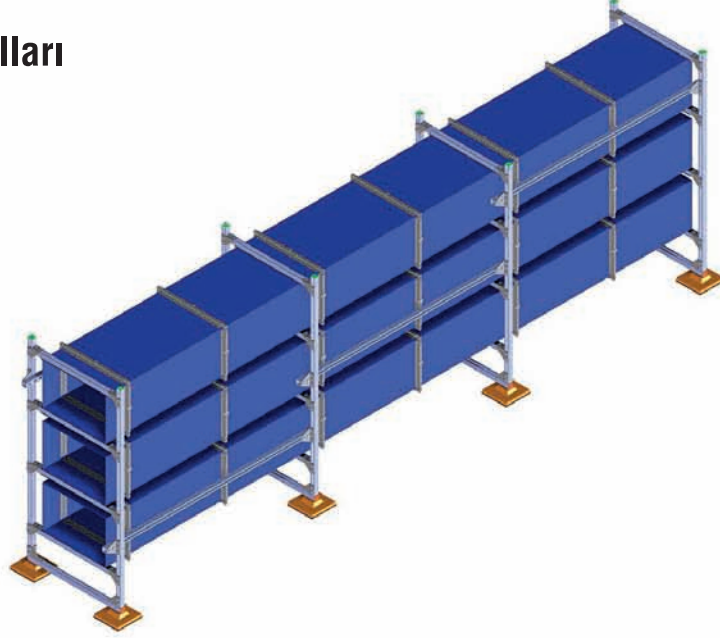
PLGSD 4590

G Kesitli Profil
G Framing Channel

PLDD.100

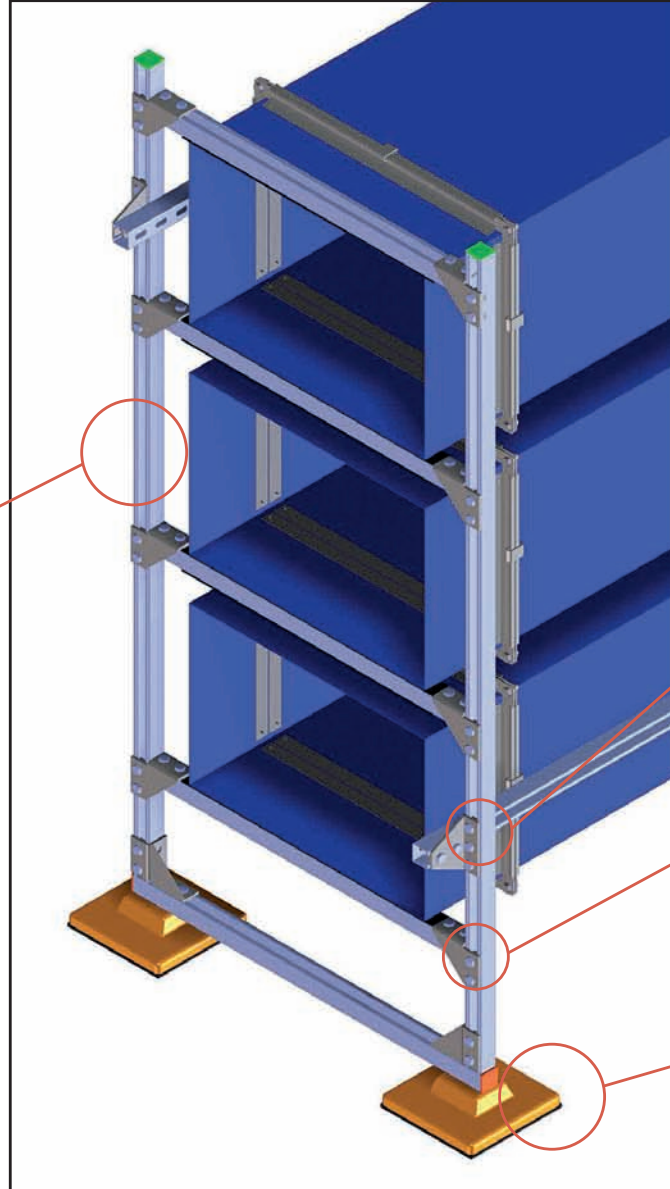
Polimer Beton Ayaklar
Polymer Concrete Bases

Havalandırma Kanalları Air Ducts



PLGSD 4545

G Kesitli Profil
G Framing Channel



PLGAF.8230

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

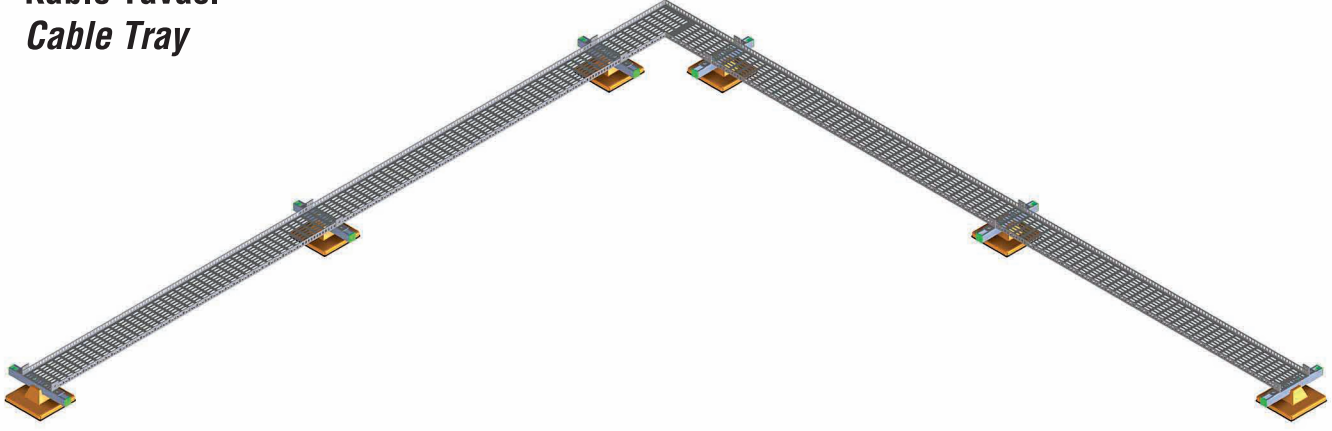
PLGAF.8275

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

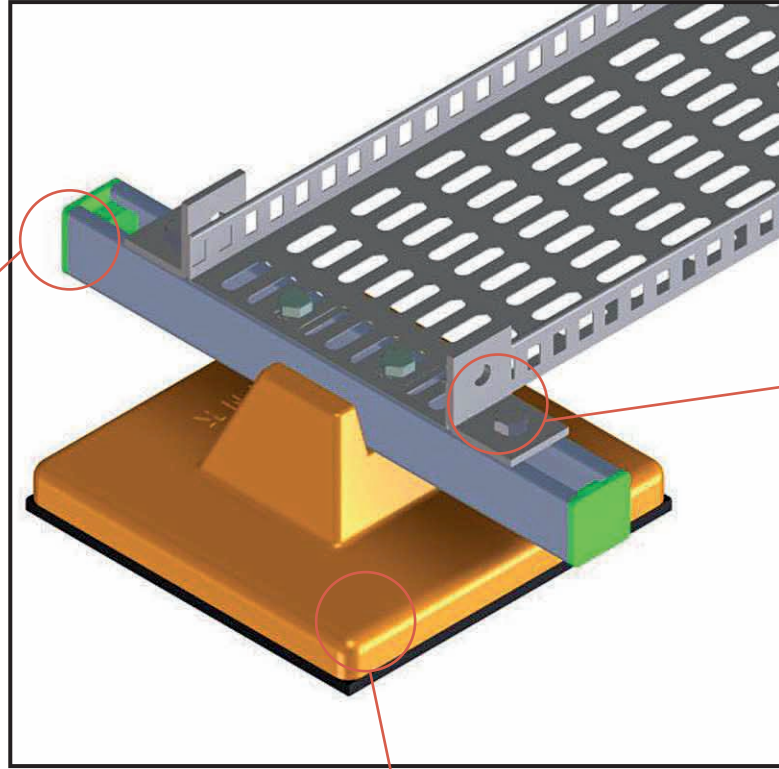
PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Kablo Tavaşı
Cable Tray



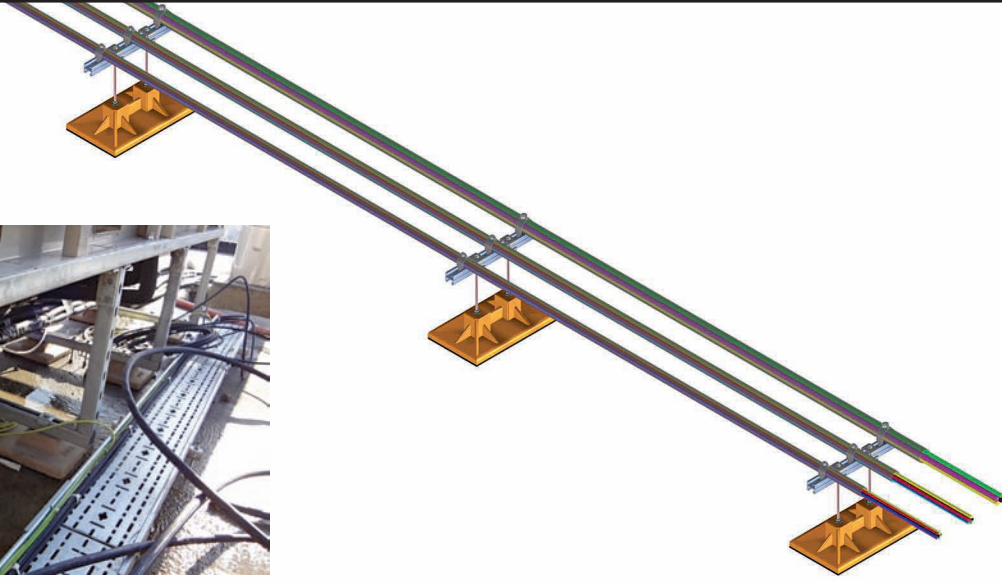
PLGSD 4545
G Kesitli Profil
G Framing Channel



PLGAF.8200
PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

PLKA.100
Polimer Beton Ayaklar
Polymer Concrete Bases

Kablo Tavası
Cable Tray

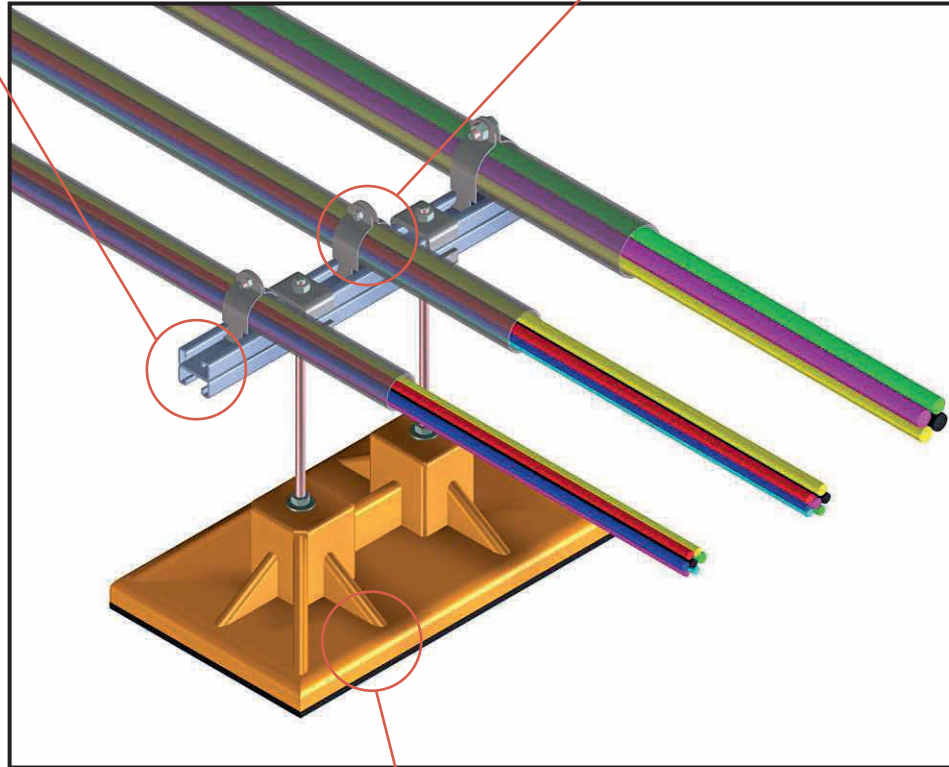


PLGSD 4544

G Kesitli Profil
G Framing Channel

PLGK

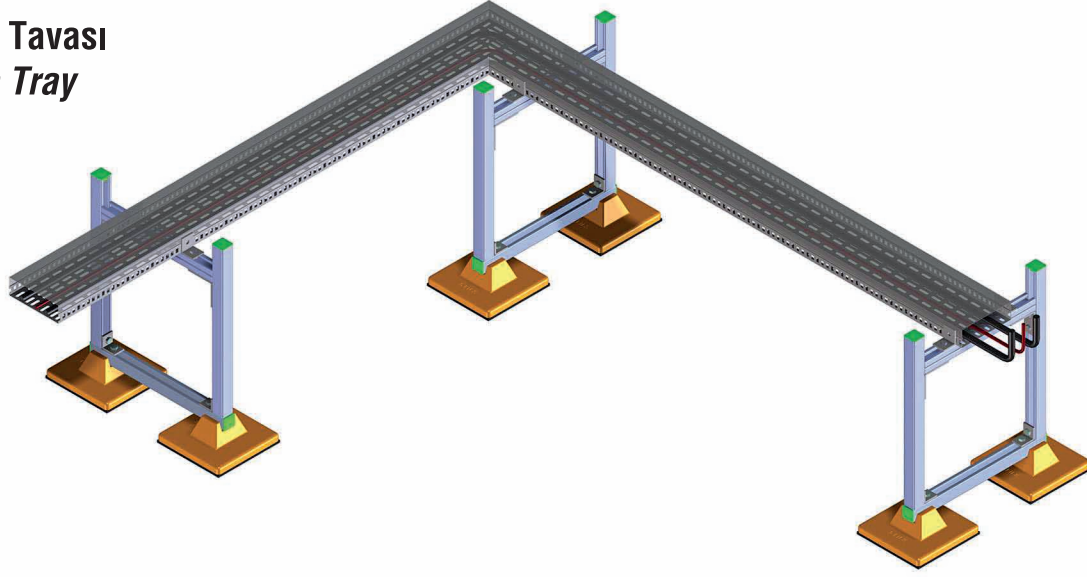
PROLINK
G Boru Kelepçesi
G Strut Pipe Clamps



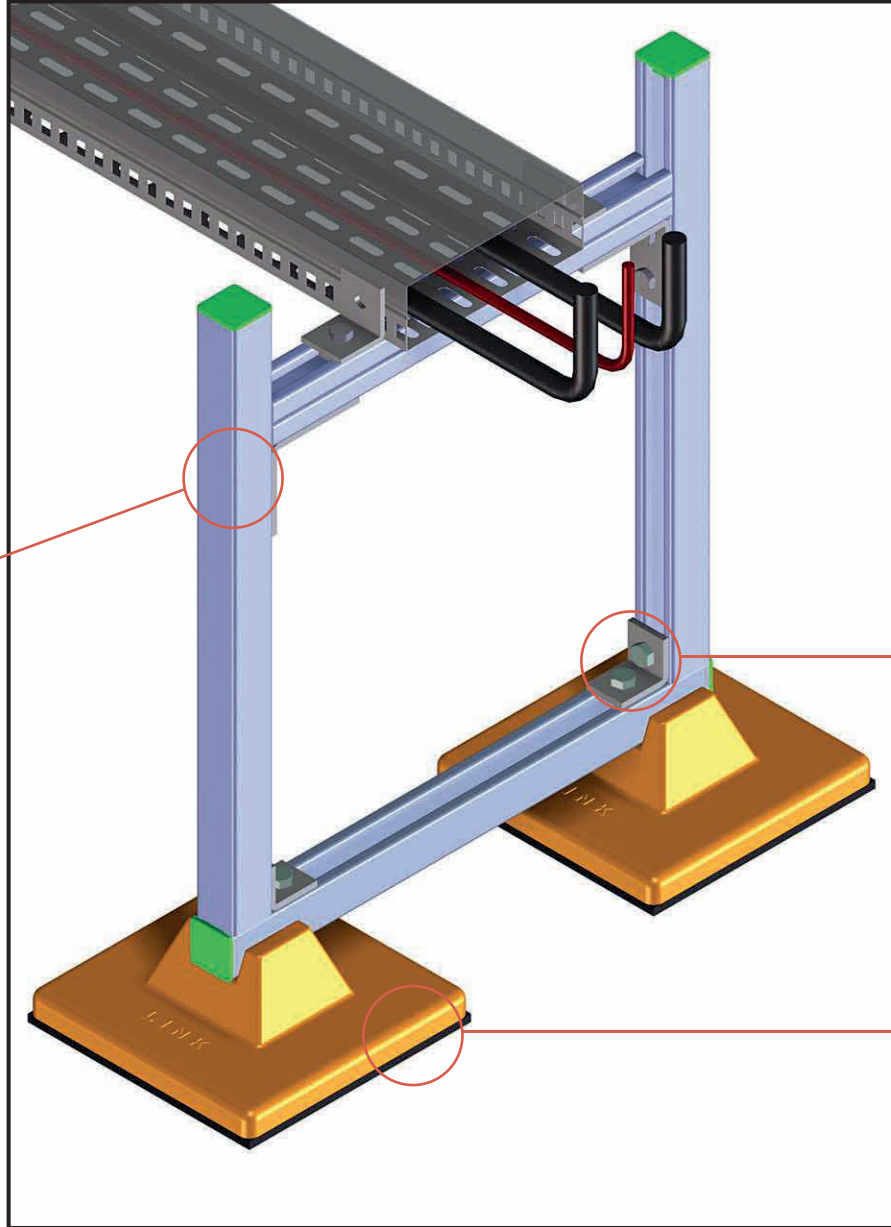
PLDD.200

Polimer Beton Ayaklar
Polymer Concrete Bases

Kablo Tavası
Cable Tray



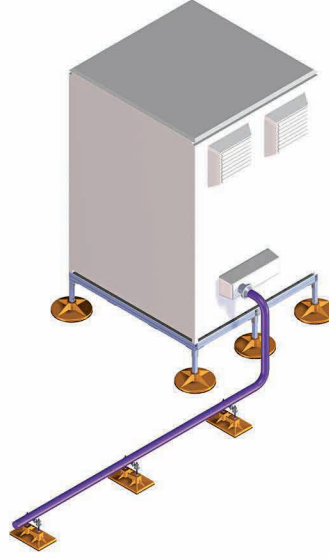
PLGSD 4545
G Kesitli Profil
G Framing Channel



PLGAF.8200
PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

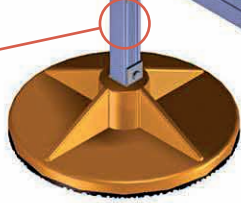
PLKA.100
Polimer Beton
Ayaklar
*Polymer
Concrete Bases*

Cihazlar
Equipment



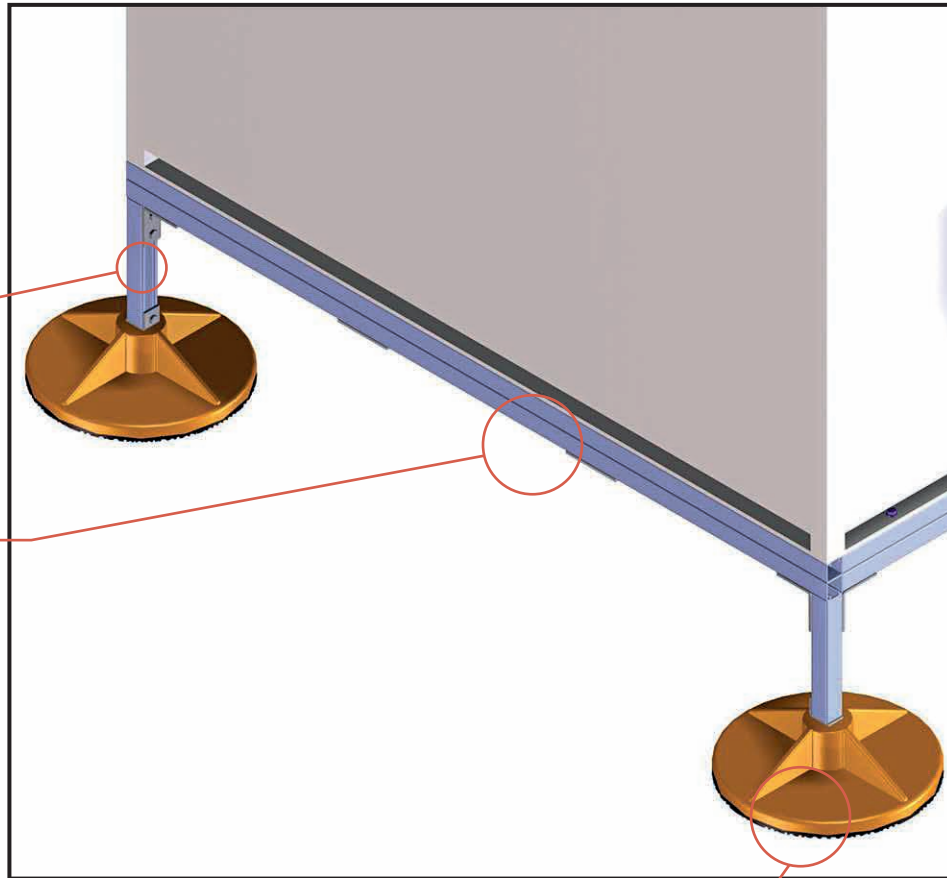
PLGSD 4545

G Kesitli Profil
G Framing
Channel



PLGSD 4544

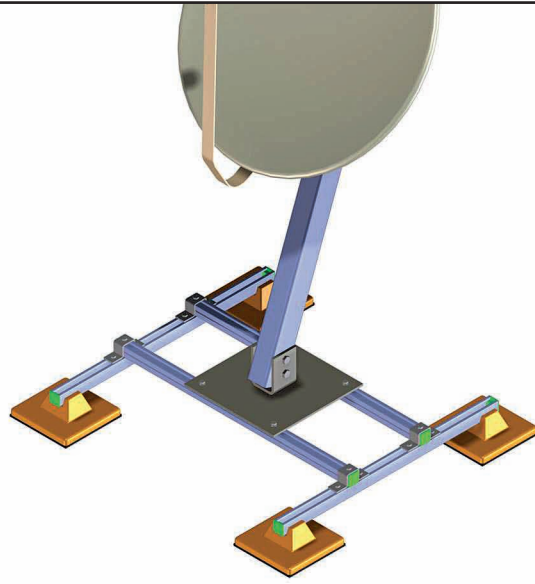
G Kesitli Profil
G Framing
Channel



PLYA.100

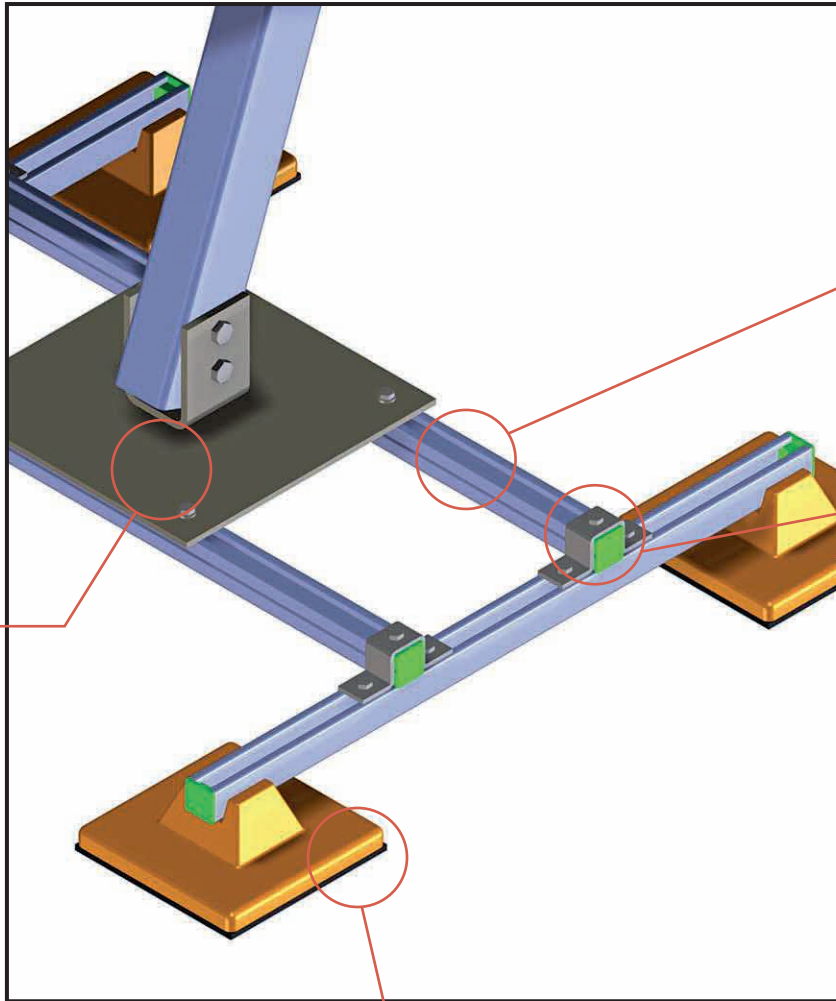
Polimer Beton Ayaklar
Polymer Concrete Bases

Cihazlar
Equipment



CRBP

Montaj Plakası
Attachment Plate



PLGSD 4544

G Kesitli Profil
G Framing Channel

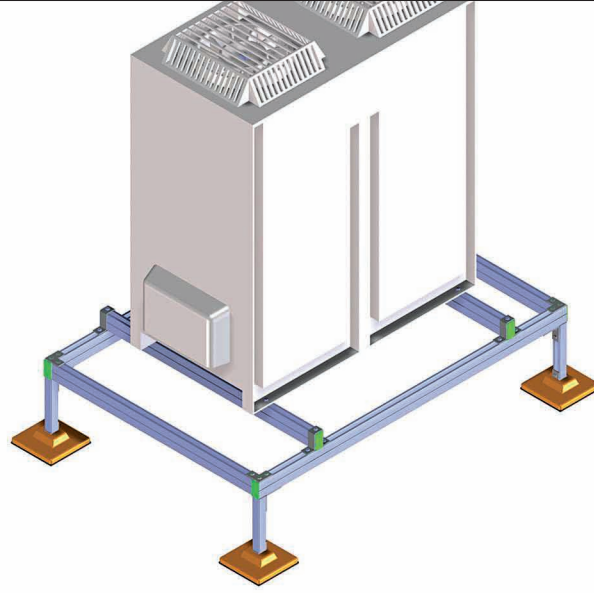
PLGUBF.8435

PROLINK
U Bağlantı Fittingsi
U Shape Fittings

PLKA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

Cihazlar
Equipment



PLGFPP.8070

PROLINK
Platin Fittingsi
Flat Plate Fittings

PLGUBF.8435

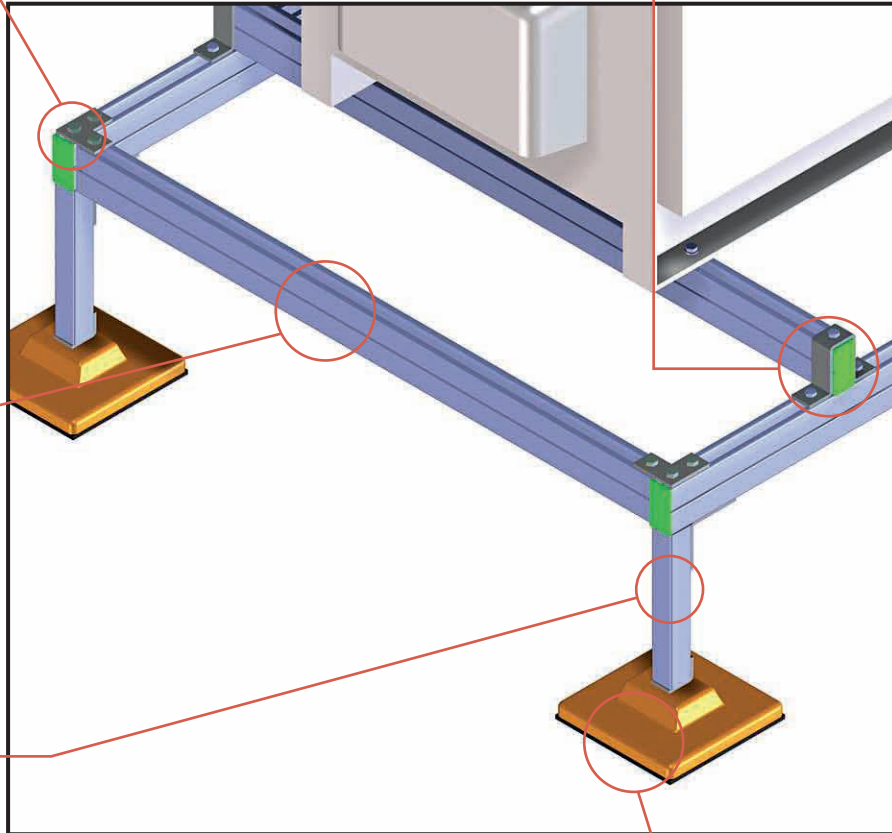
PROLINK
U Bağlantı Fittingsi
U Shape Fittings

PLGSD 4544

G Kesitli Profil
G Framing Channel

PLGSD 4545

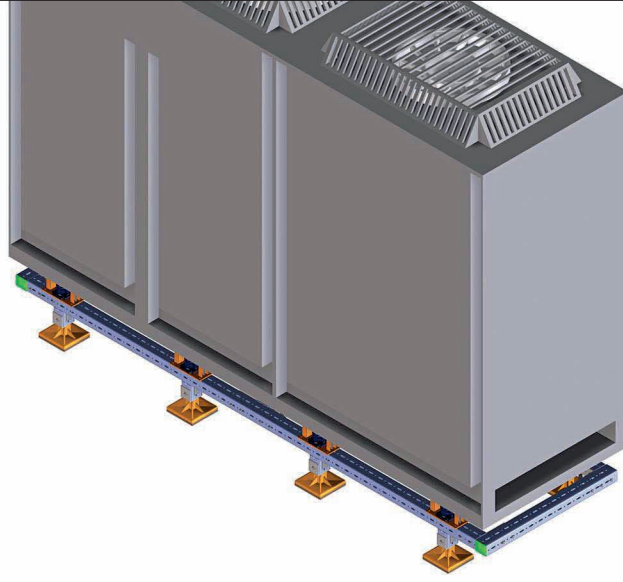
G Kesitli Profil
G Framing Channel



PLDA.100

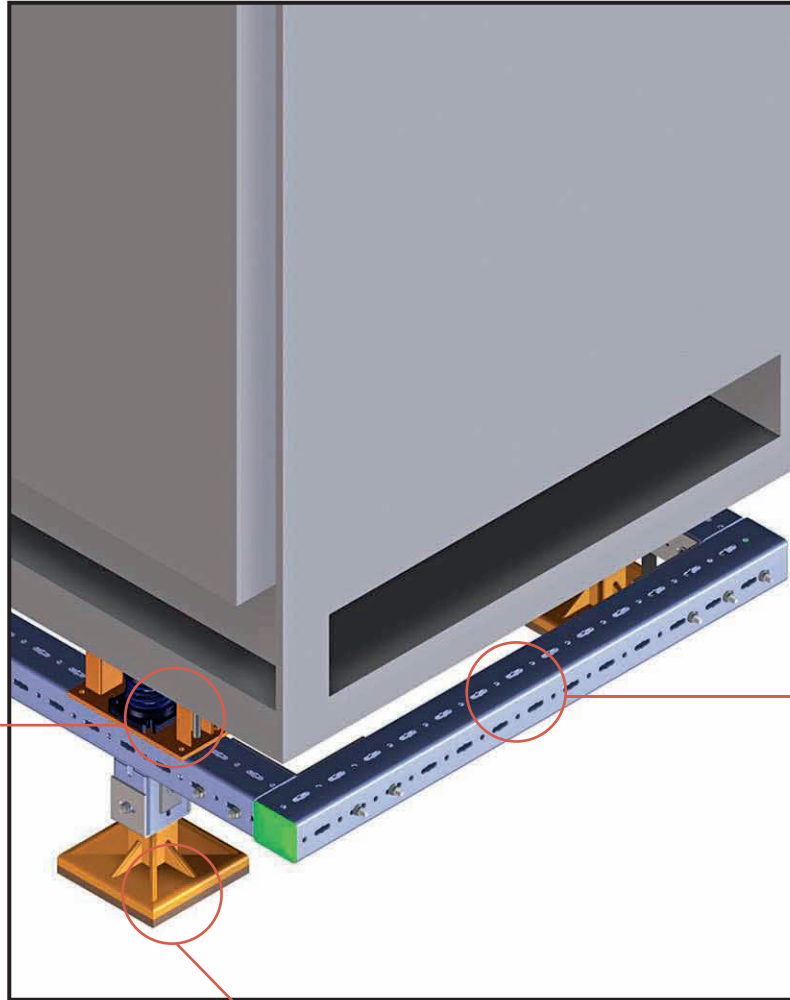
Polimer Beton Ayaklar
Polymer Concrete Bases

Cihazlar
Equipment



SLOT2

Çelik Yaylı
Titreşim Alıcı
*Spring Vibration
Isolators*



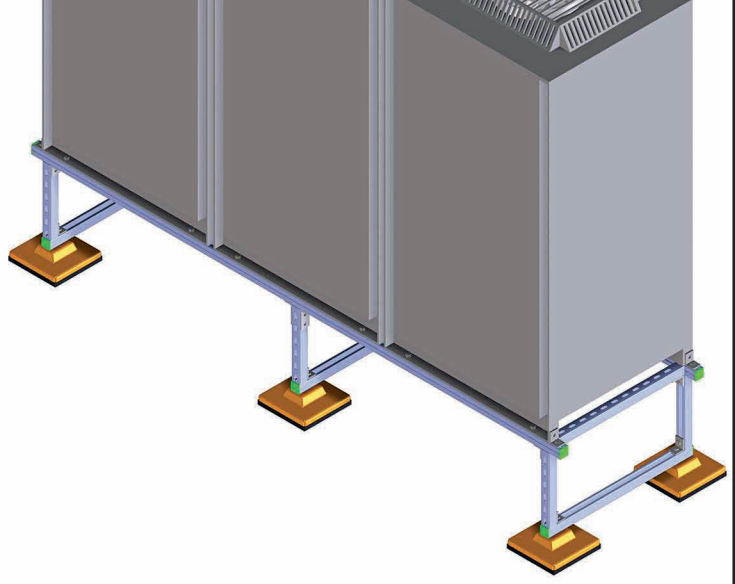
EYP.100

PROCON
Endüstriyel Yapı
Profili
*Industrail Framing
Profiles*

PLDD.100

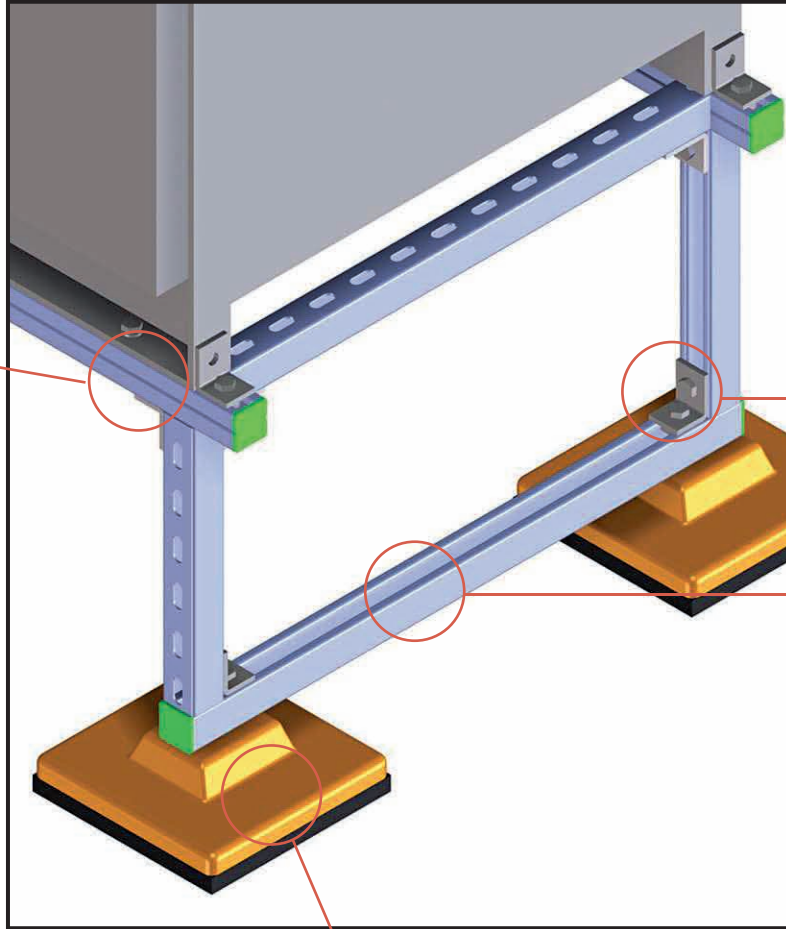
Polimer Beton Ayaklar
Polymer Concrete Bases

Cihazlar
Equipment



PLGSD 4544

G Kesitli Profil
G Framing Channel



PLGAF.8200

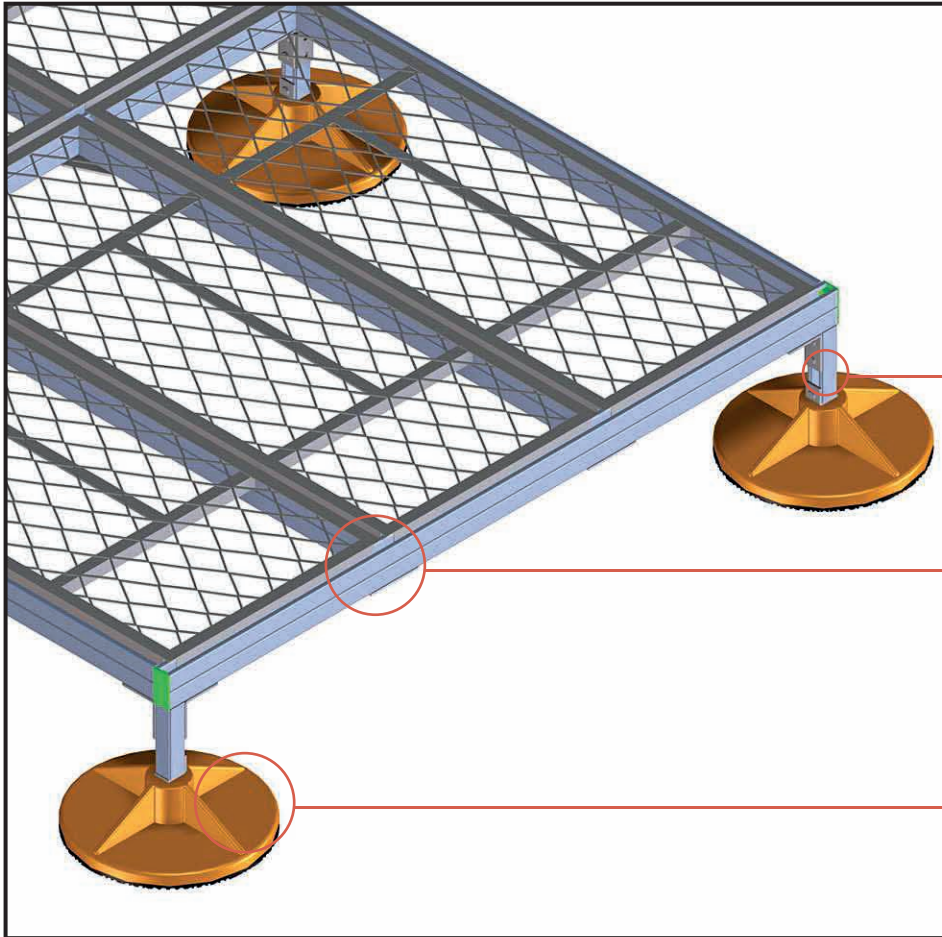
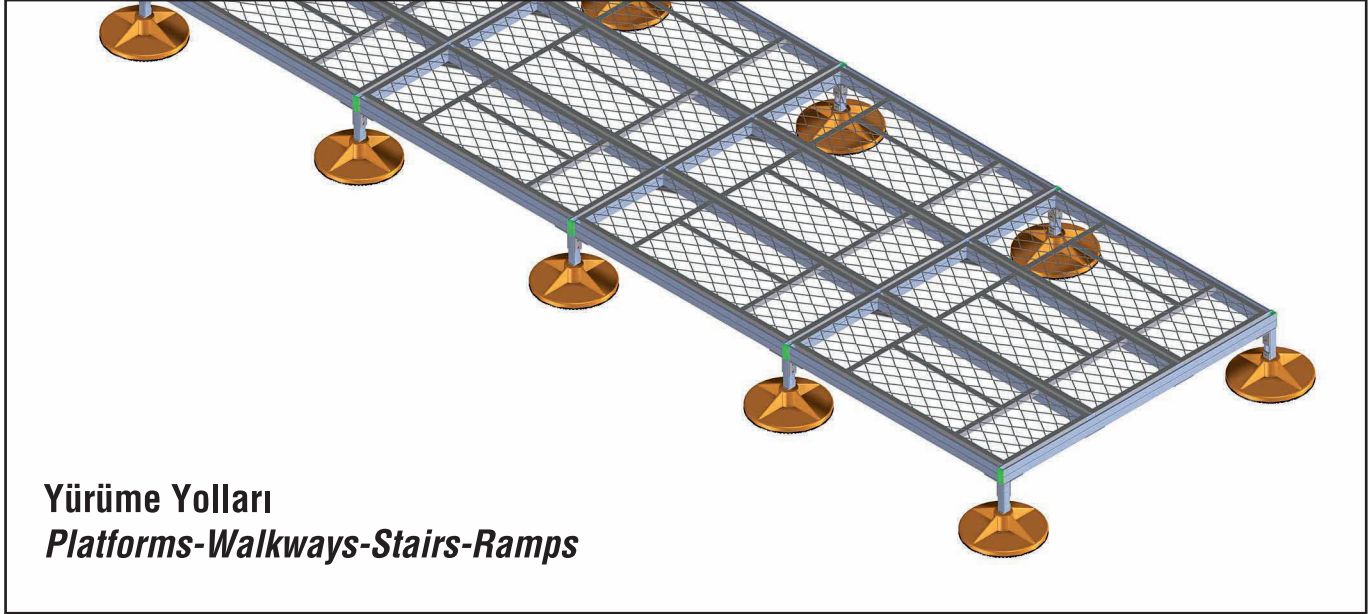
PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

PLGSD 4545

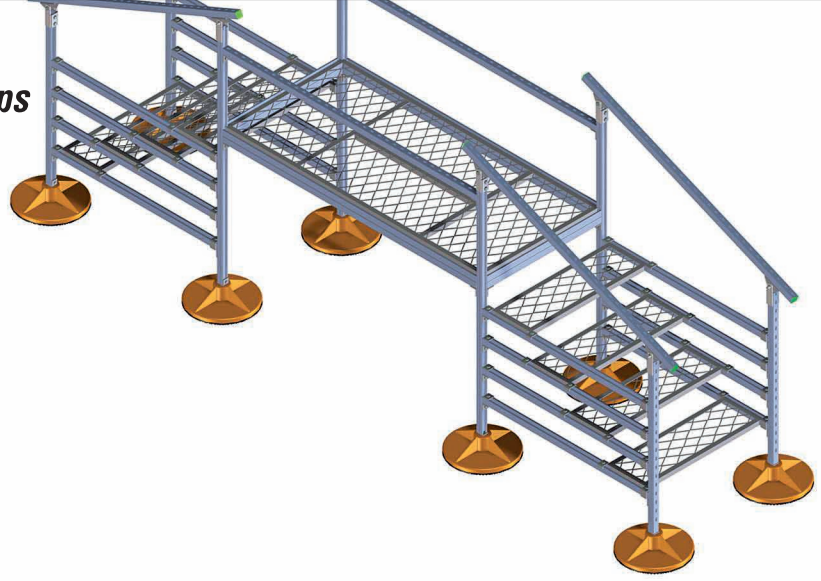
G Kesitli Profil
G Framing Channel

PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

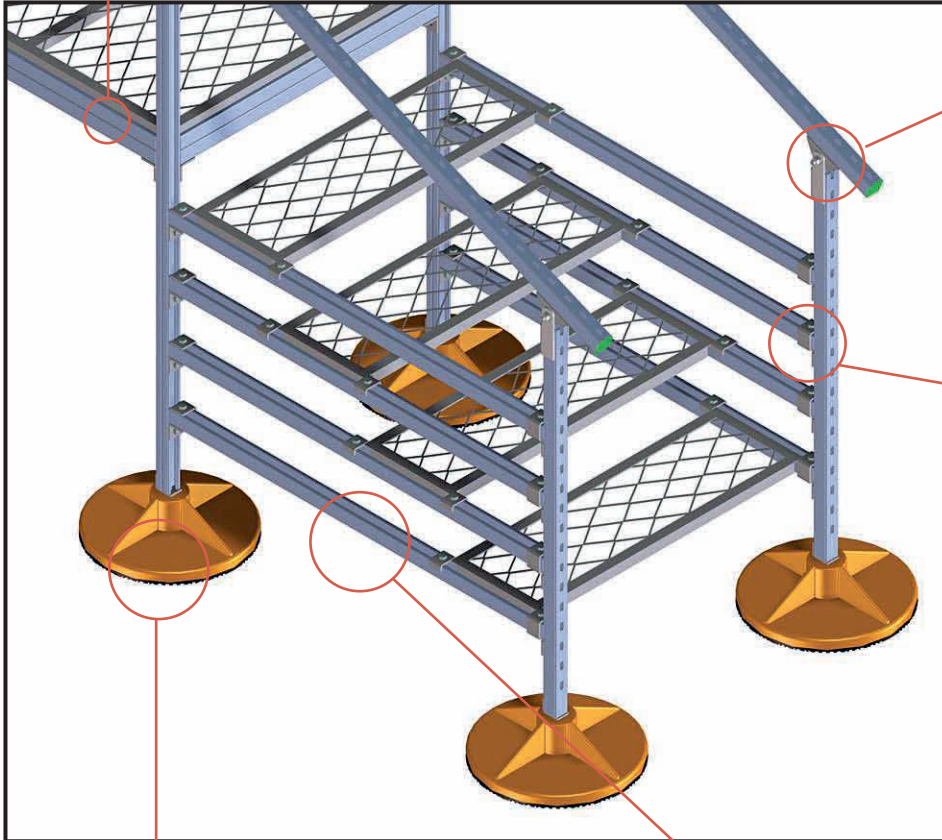


Yürüme Yolları
Platforms-Walkways-Stairs-Ramps



PLGSD 4544

G Kesitli Profil
G Framing Channel



PLGYBF.8560

PROLINK
Yönlü Bağlantı Fittingsi
Wing Shape Fittings

PLGYBF.8502

PROLINK
Yönlü Bağlantı Fittingsi
Wing Shape Fittings

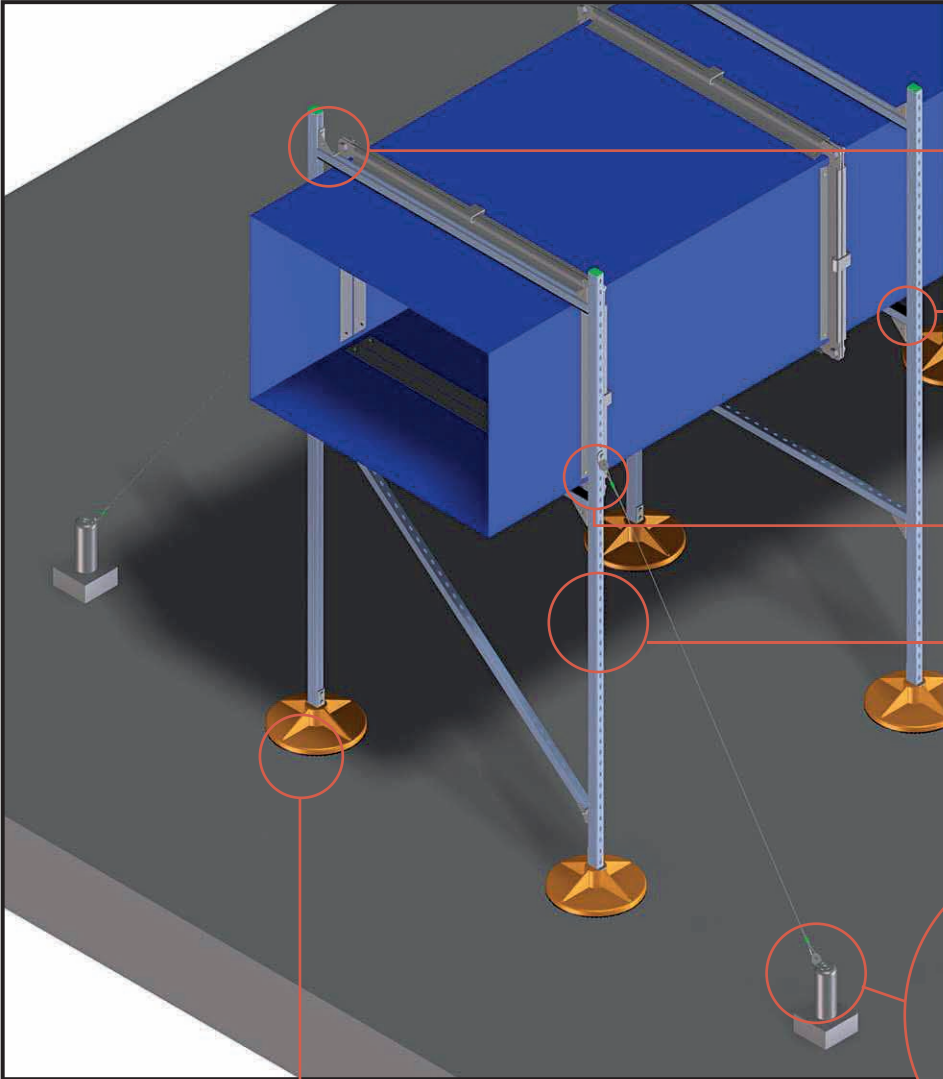
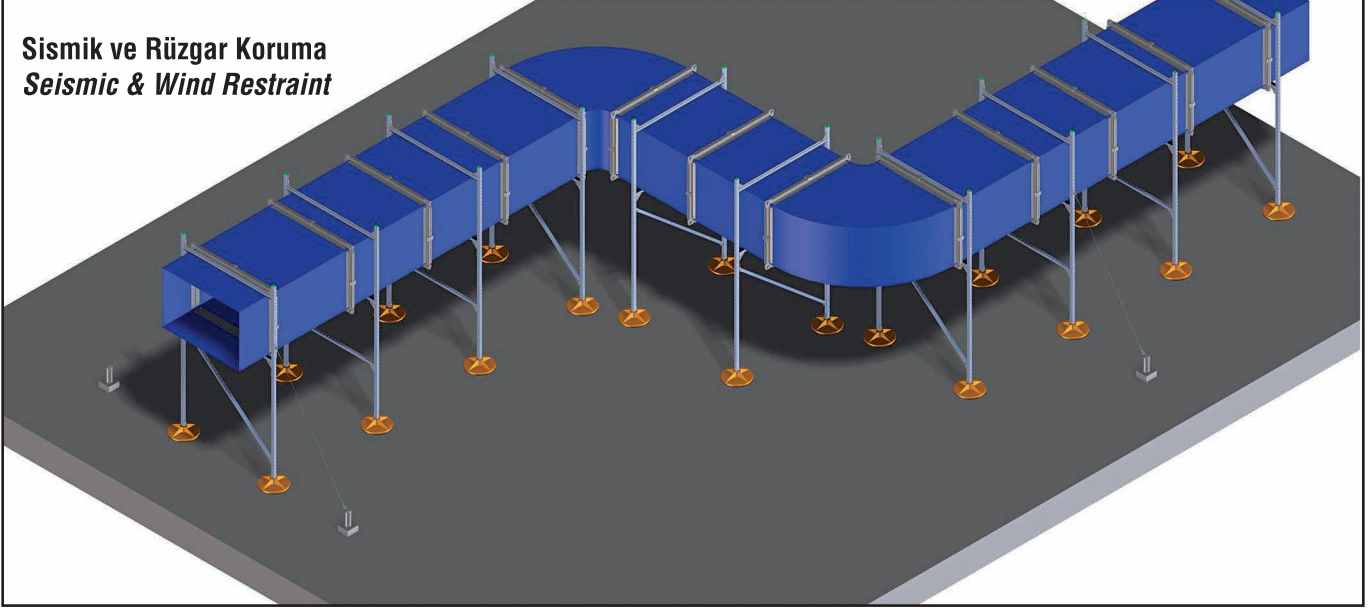
PLYA.100

Polimer Beton Ayaklar
Polymer Concrete Bases

PLGSD 4545

G Kesitli Profil
G Framing Channel

Sismik ve Rüzgar Koruma
Seismic & Wind Restraint



PLGAF8200

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

SLSC

Seismic Bracket

PLGSD 4545

G Kesitli Profil
G Framing Channel

STB

Sismik Tel
Seismic Cable

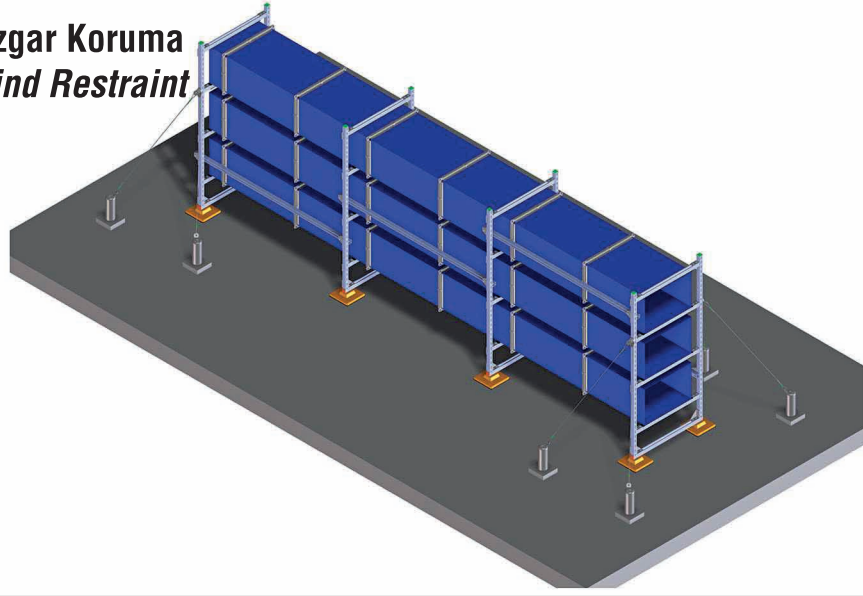
PLYA.200

Polimer Beton Ayaklar
Polymer Concrete Bases

SLRB

Seismic Bracket

Sismik ve Rüzgar Koruma
Seismic & Wind Restraint



SLSC
Seismic Bracket

PLGSD 4545
G Kesitli Profil
G Framing
Channel

PLGAF.8230

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

PLGAF.8275

PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

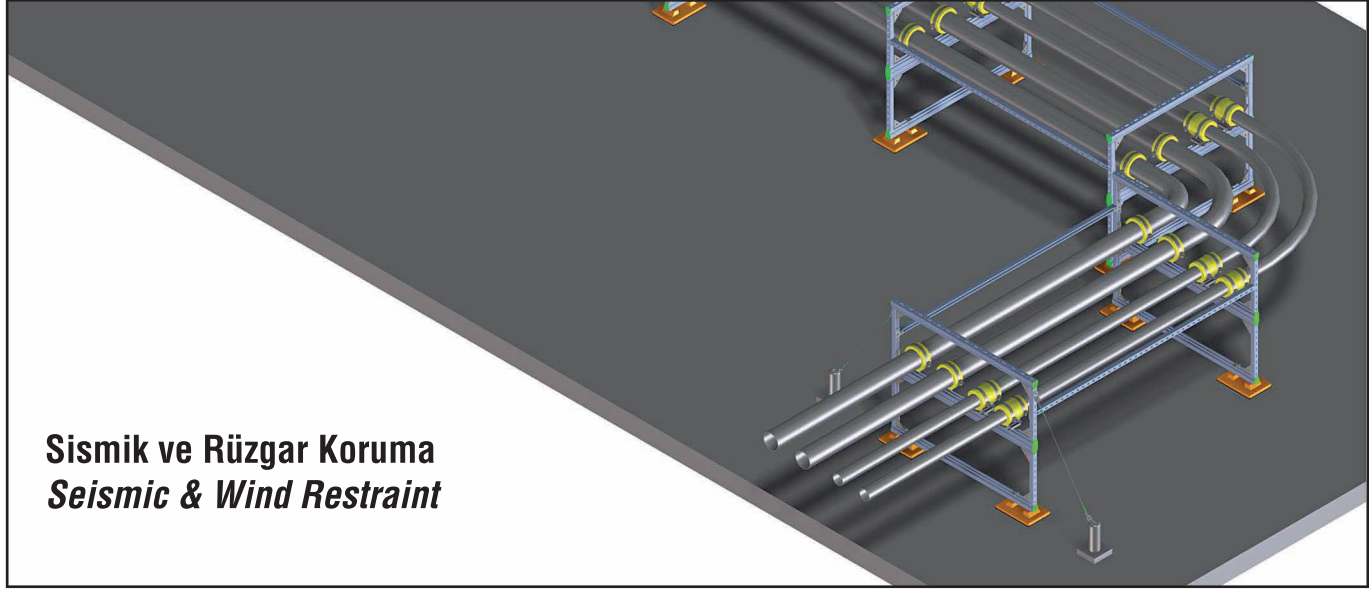
PLYA.200

Polimer Beton Ayaklar
Polymer Concrete Bases

STB

Sismik Tel
Seismic Cable

SLRB
Seismic Bracket



PLGAF8265

PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

MKYM

Kayar Yatak / Sliding Frame

PLGSD 4545

G Kesitli Profil
G Framing Channel

SLSC

Seismic Bracket

PLGSD 4590

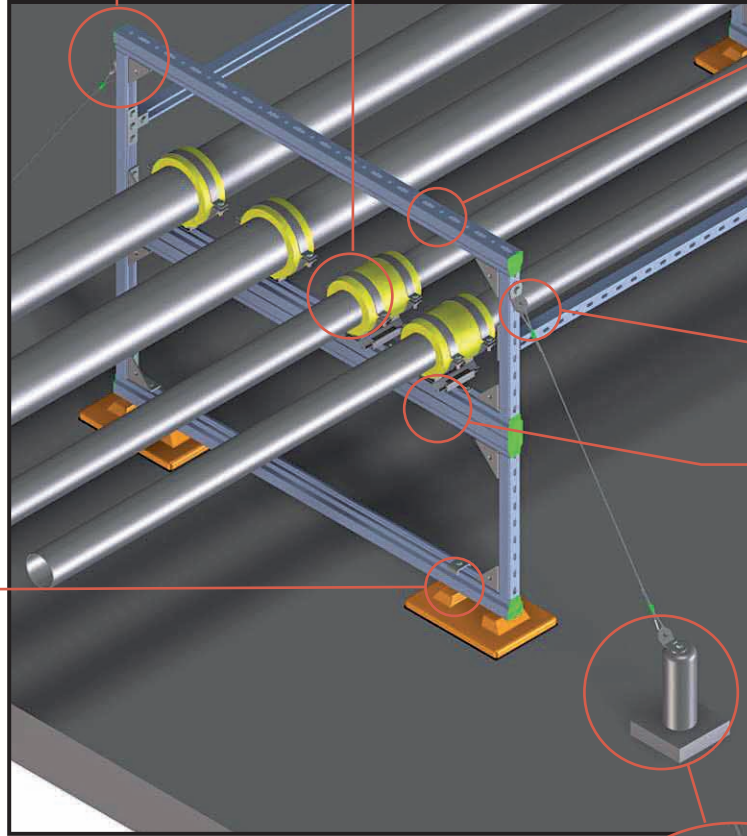
G Kesitli Profil
G Framing Channel

PLDA.200

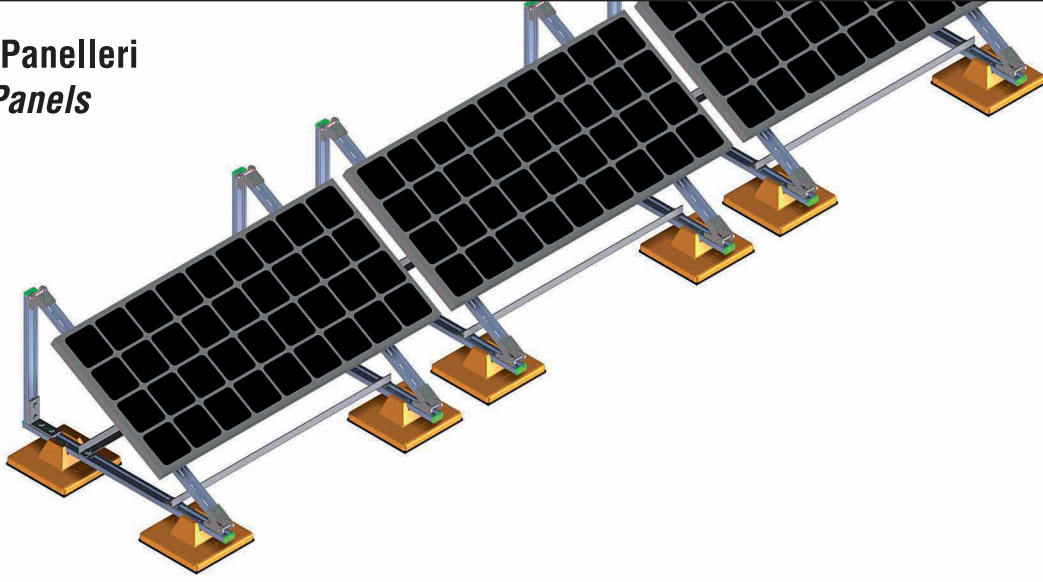
Polimer Beton Ayaklar
Polymer Concrete Bases

STB

Sismik Tel
Seismic Cable



Güneş Panelleri Solar Panels



MF

Bağlantı Mafsalı
Angle Joint

PLGSD 2245

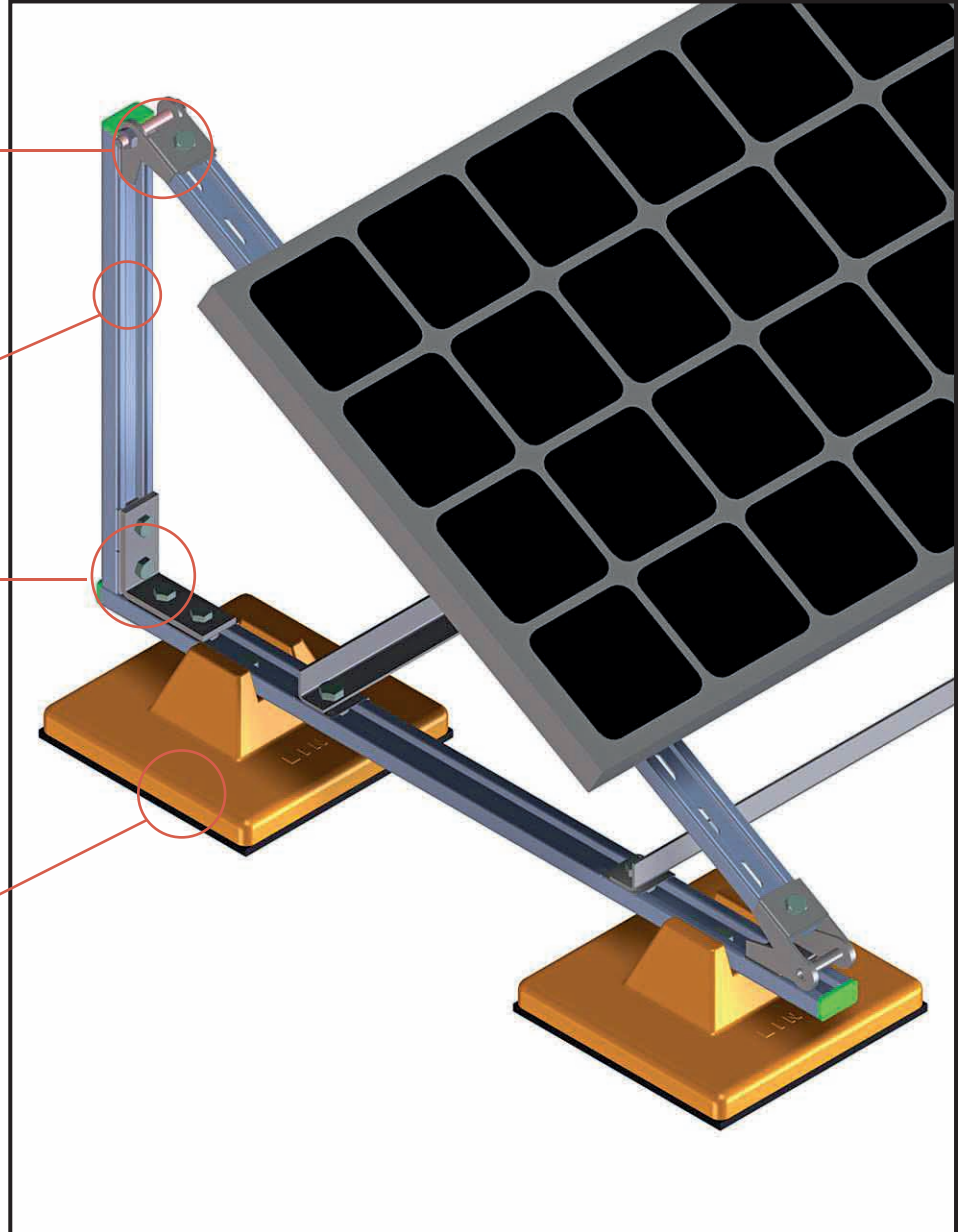
G Kesitli Profil
G Framing Channel

PLGAF8210

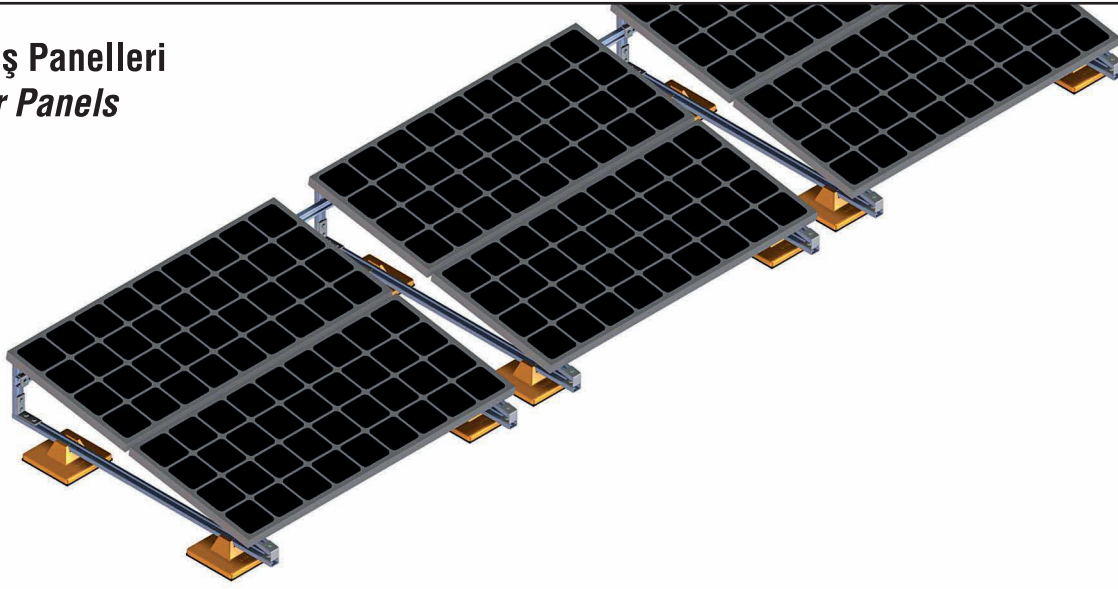
PROLINK
Köşe Bağlantı
Fittingsi
Angle Fittings

PLKA.100

Polimer Beton Ayaklar
Polymer Concrete Bases



Güneş Panelleri
Solar Panels



MF

Bağlantı Mafsalı
Angle Joint

PLGAF.8210

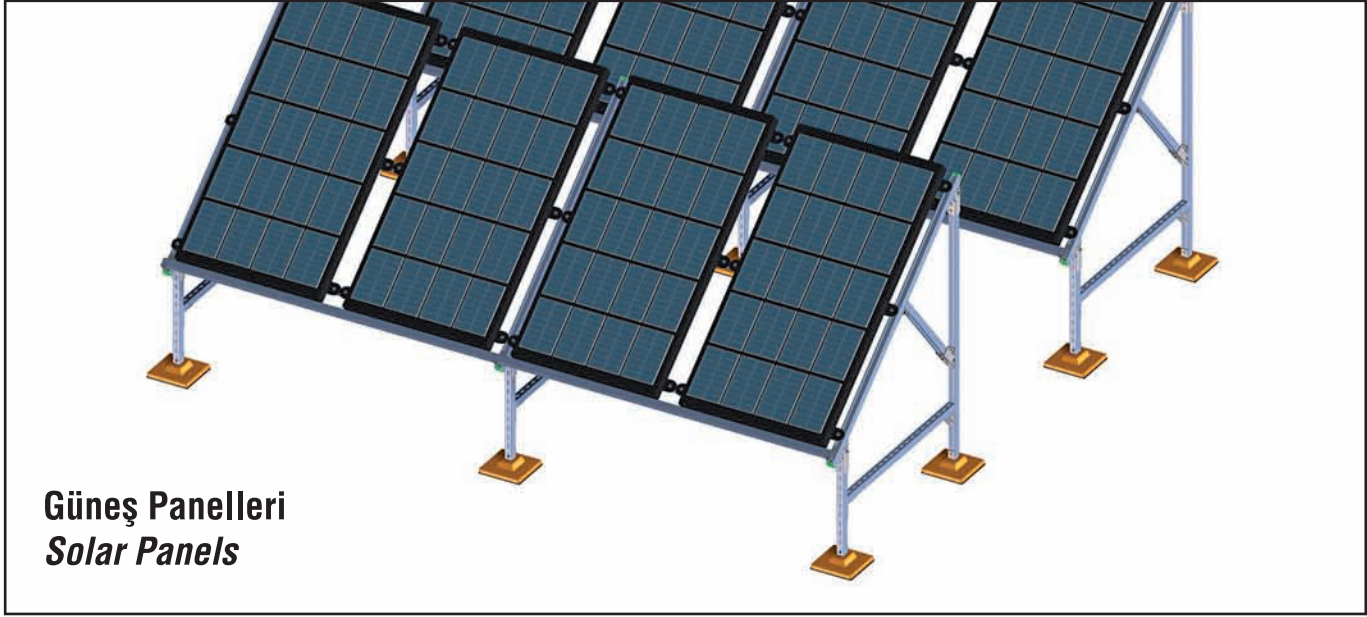
PROLINK
Köşe L Bağlantı Fittingsi
Angle Fittings

PLGSD 2245

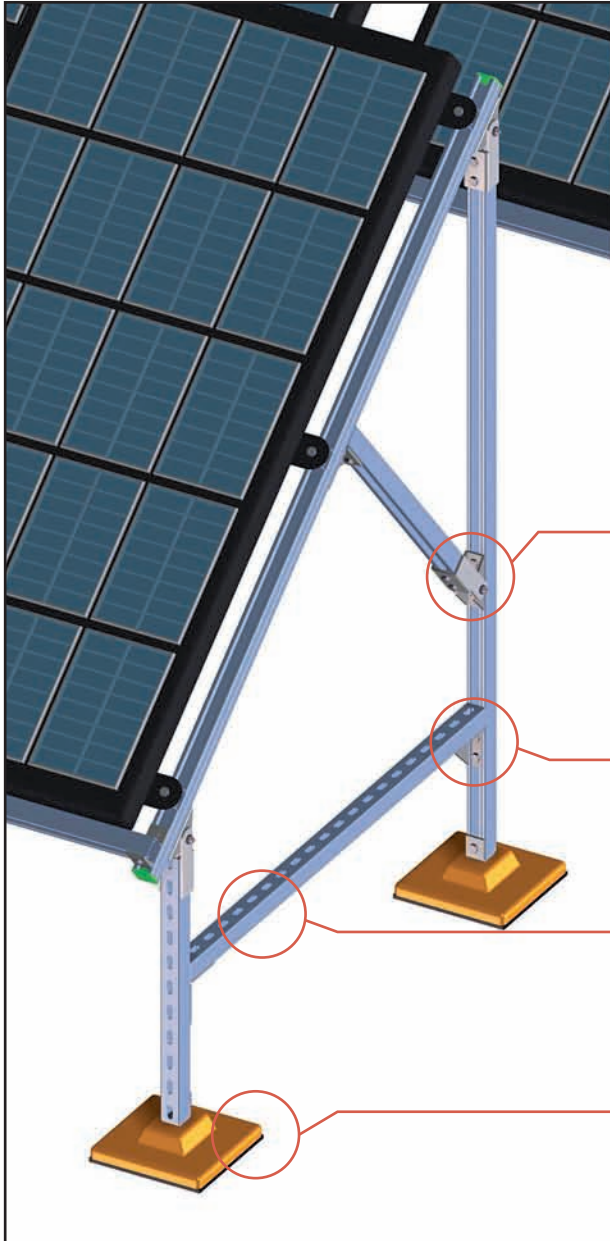
G Kesitli Profil
G Framing Channel

PLKA.100

Polimer Beton Ayaklar
Polymer Concrete Bases



Güneş Panelleri
Solar Panels



PLGYBF.8560

PROLINK
Yönlü Bağlantı Fittingsi
Wing Shape Fittings

PLGAF.8265

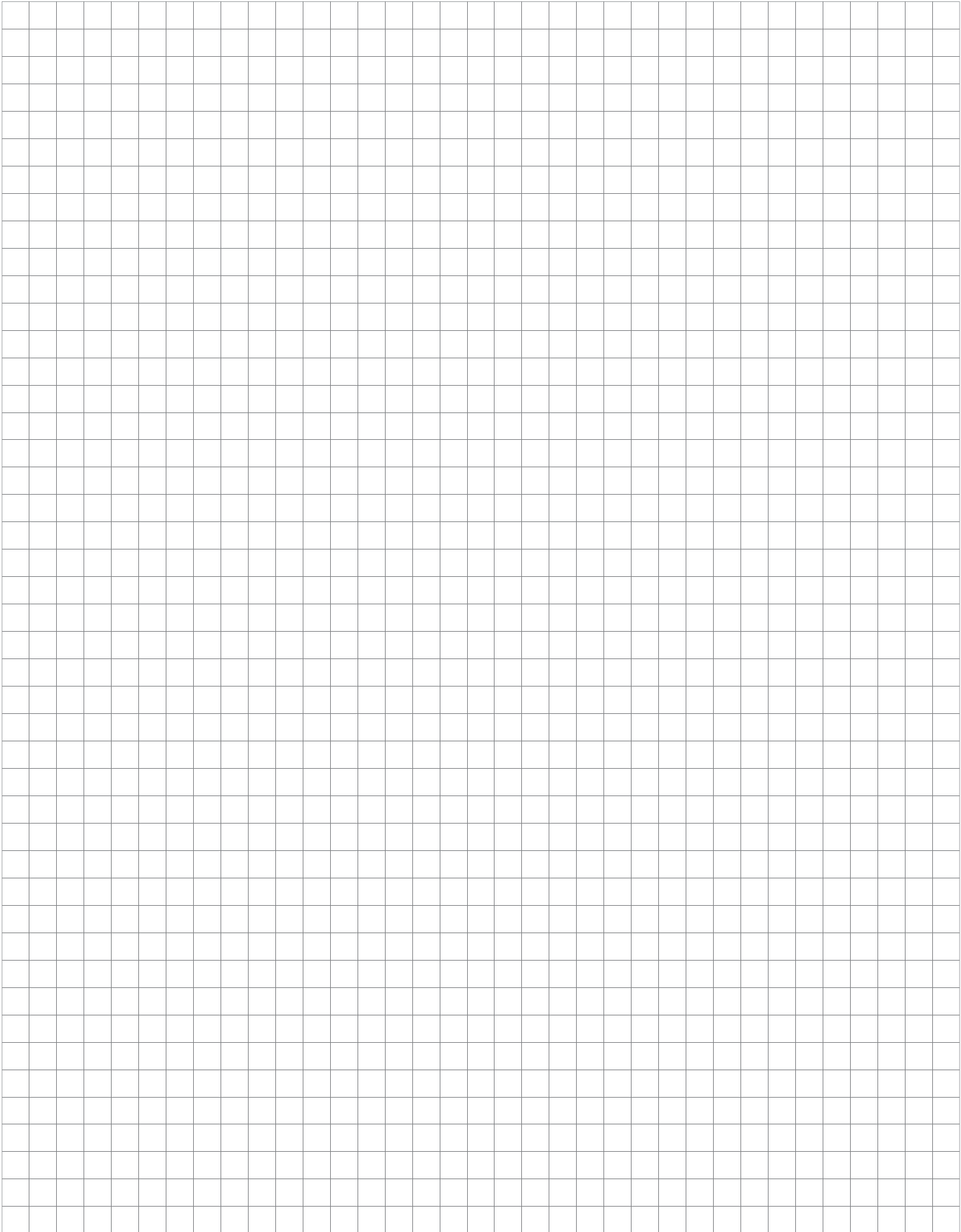
PROLINK
Köşe Bağlantı Fittingsi
Angle Fittings

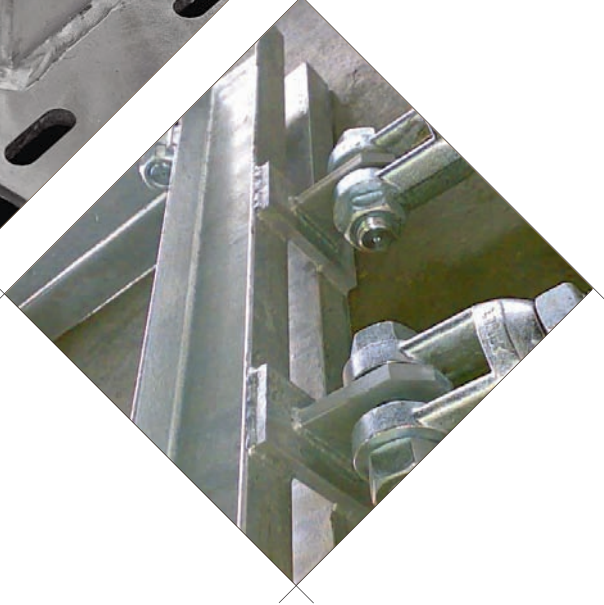
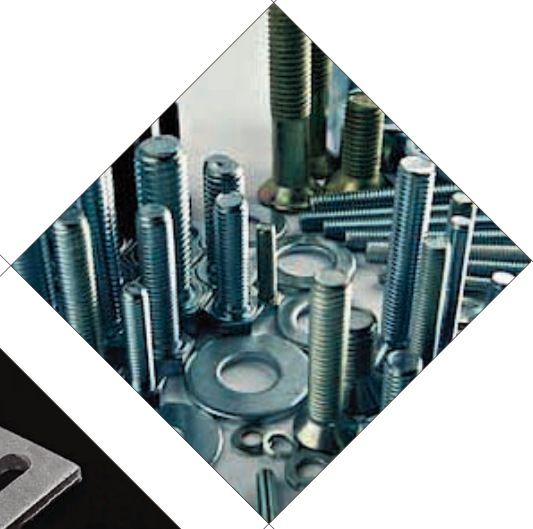
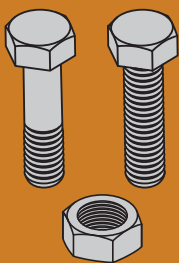
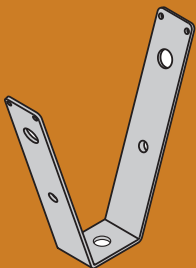
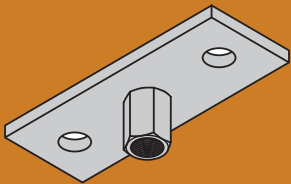
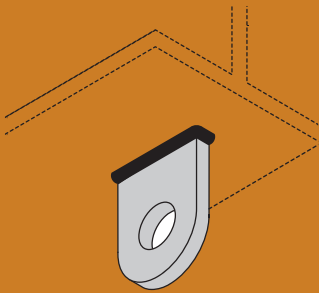
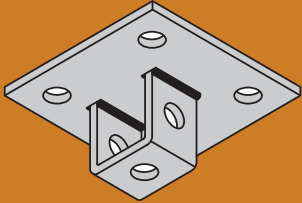
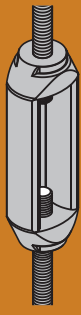
PLGSD 4545

G Kesitli Profil
G Framing Channel

PLDA.100

Polimer Beton Ayaklar
Polymer Concrete Bases





we link the world

BAĞLANTI VE DİŞLİ AKSESUARLAR *Connection & Threaded Accessories*



BAĞLANTI VE DİŞLİ AKSESUARLAR

Bu bölümde önerilen bağlantı ve dişli aksesuarlar askı rotlarının kirişlere, betona veya diğer yapı elemanlarına kaynak civata ile bağlanarak zaman kazanılması amacı ile dizayn edilmiştir. Değişik uygulamalar için çok çeşitli modeller bulunmaktadır.

Malzemeler:

Bağlantı & Dişli Aksesuarlar üretiminde çelik, dökme demir ve dövme demir kullanılmıştır. Diğer malzemeler ile de üretim yapılabilir.

Kaplamalar:

Mekanik desteklerin standart kaplamaları üretimden sonra Sıcak Daldırma Galvaniz (EN 1461) ve Elektro Galvaniz (EN ISO 2081) kaplanmalıdır. İsteğe bağlı olarak diğer özel kaplamalar uygulanabilir.

Onaylar (Belirtilen) :

TSEK ve ISO 9001 : 2008, OHSAS:18001:2007, ISO 14001:2004 Sistemlerinde belirtilen şartlarda üretilmiştir. Tüm modellerin GOST K, GOST R VE SEPRO Sertifikası mevcuttur.

Bu bölümde yer alan bütün boru ve askı destek sistemleri aksi belirtilmediği sürece TS 301/1-2-3-4, TS 1997, TS 416, DIN 2440-2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 uluslar arası standart borular için boyutlandırılmıştır. Bazı çelik ürünler diğer boru çaplarını karşılamak için özel olarak üretilebilirler, örnek olarak pik boru, pvc boru vb.

CONNECTION & THREADED ACCESSORIES

Connection & Threaded Accessories offered in this section are designed to suspend rods from beams, concrete and other structural surfaces by bolting or welding and to reduce installation time. A wide range of types and sizes are available for various applications.

Materials:

Carbon Steel, Malleable Iron and Forged Steel are used in the manufacturing of connection & threaded accessories and provide the high strength properties required. Other materials are available.,

Finishes:

The standard finishes for mechanical supports are hot-dip galvanized after fabrication (EN 1461) and Zinc Plated (EN ISO 2081). Other special coatings are available upon request.

Approvals (as noted):

Manufacturing is controlled by TSEK, ISO 9001:2008, OHSAS 18001:2007, ISO 14001:2004 System Standards. All products have GOST K, GOST R and SEPRO certification.

All pipe hangers and support in this section are sized to feet schedule 40/80, TS 301/1-2-3-4, TS 1997, TS 416, DIN 2440-2441, DIN 1626, ISO 65, BS 1387, ASTM A-53, NFA 49-145, UNI 8863 Pipe standards unless otherwise noted. Some steel items may be specially fabricated to fit other pipe diameters i.e. ductile iron, etc.

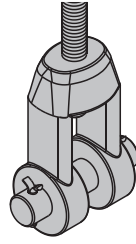
TRB

Sayfa / Page: 182



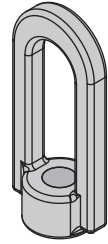
FSC

Sayfa / Page: 182



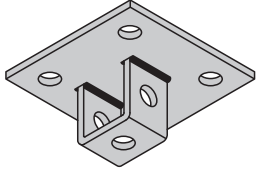
MCDH

Sayfa / Page: 183



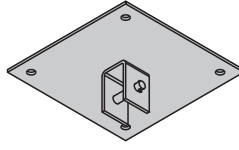
CRAP

Sayfa / Page: 184



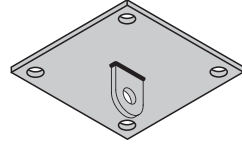
CRBP

Sayfa / Page: 184



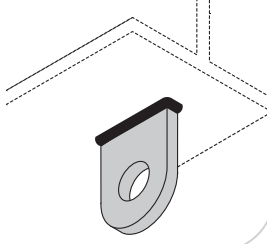
CSLP

Sayfa / Page: 185



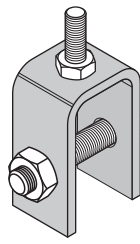
PLSP

Sayfa / Page: 185



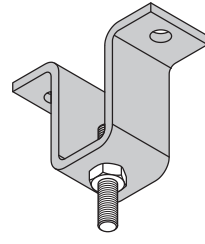
IUL

Sayfa / Page: 186



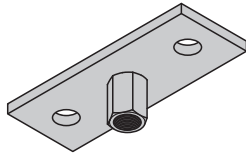
LUP

Sayfa / Page: 186



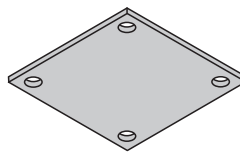
AYBF

Sayfa / Page: 187



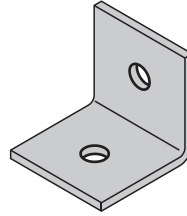
LPK

Sayfa / Page: 187



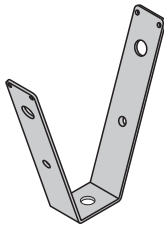
YDRB

Sayfa / Page: 187



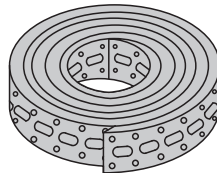
VT

Sayfa / Page: 188



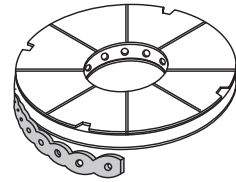
LBP

Sayfa / Page: 189



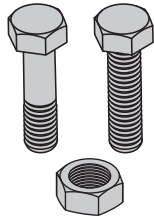
LABP

Sayfa / Page: 189



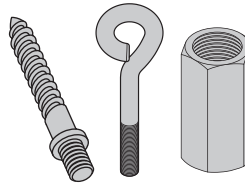
CC-CS

Sayfa / Page: 190



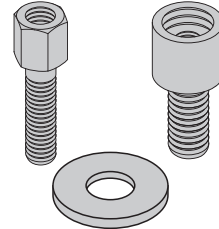
BEL1-BEL2-BEL3

Sayfa / Page: 191



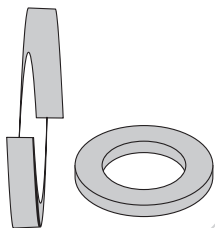
CSY-PRG-CSY1

Sayfa / Page: 191



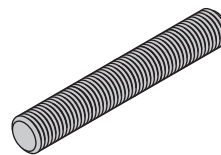
PRY - PR

Sayfa / Page: 190-191



CR

Sayfa / Page: 192-193



Gerdirme Turnbuckle

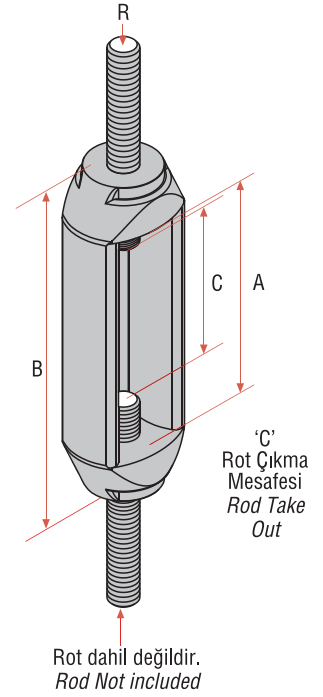
Malzeme / Material :
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Endüstride ve boru sistemlerinde sol ve sağ diş rotların birbirlerine bağlanarak dikey ayar sağlamak için dizayn edilmiştir. / Designed for connection right and left hand rods together and provide for vertical adjustment.

TRB Ölçüler / Dimensions

Kod Code	A mm	B mm	C mm	R	Dizayn Yüğü Design Load kN
TRB.6000-101	100	140	70	M.10	2,0
TRB.6000-102	100	140	70	M.12	3,7
TRB.6000-103	100	140	70	M.14	6,2
TRB.6000-123	150	210	100	M.16	6,2
TRB.6000-124	150	210	100	M.18	8,7
TRB.6000-125	150	210	100	M.20	10,4
TRB.6000-126	150	210	100	M.22	14,0
TRB.6000-127	200	300	100	M.24	18,0
TRB.6000-128	200	300	100	M.27	22,0
TRB.6000-129	200	300	100	M.30	26,0
TRB.6000-130	200	300	100	M.36	34,0
TRB.6000-131	200	300	100	M.42	48,0



Dökme Demir Maşa Malleable Steel Clevis

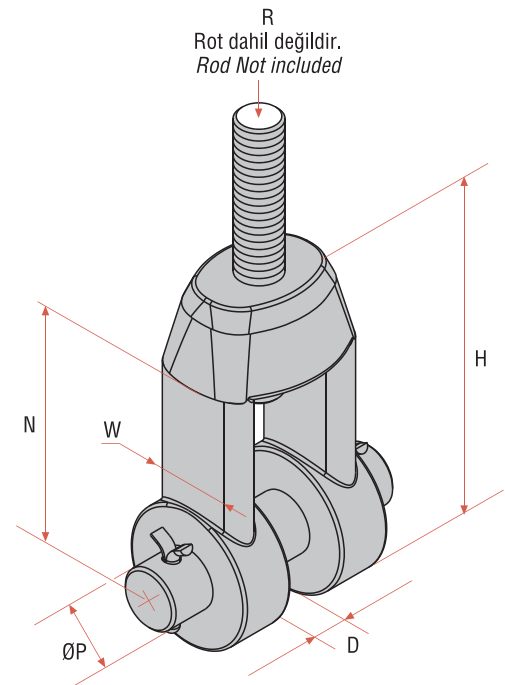
Malzeme / Material :
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Endüstride ve boru sistemlerinde eğimin ayarlanması için dizayn edilmiştir.
Designed for the adjustment of the slope of the pipes in industry and pipe systems.

FSC Ölçüler / Dimensions

Kod /Code		Delik Çapı Hole Dia. P mm	D mm	W mm	R	H mm	N mm	Dizayn Yüğü Design Load kN
Sağ Diş Right Hand Thread	Sol Diş Left Hand Thread							
FSC.3352	FSC.3352.TD	15	16	25	M.8	90	52	1,4
FSC.3353	FSC.3353.TD	15	16	25	M.10	90	52	2,0
FSC.3354	FSC.3354.TD	15	16	25	M.12	90	52	3,7
FSC.3355	FSC.3355.TD	15	16	25	M.14	90	52	6,2
FSC.3356	FSC.3356.TD	22	22	36	M.16	125	71	8,7
FSC.3357	FSC.3357.TD	22	22	36	M.18	125	71	10,4
FSC.3358	FSC.3358.TD	22	22	36	M.20	125	71	14,0
FSC.3359	FSC.3359.TD	32	32	48	M.24	150	76	18,0
FSC.3360	FSC.3360.TD	32	32	48	M.27	150	76	22,0
FSC.3361	FSC.3361.TD	32	32	48	M.30	150	76	26,4
FSC.3362	FSC.3362.TD	49	49	74	M.36	230	117	32,1
FSC.3363	FSC.3363.TD	49	49	74	M.42	230	117	40,5
FSC.3364	FSC.3364.TD	49	49	74	M.48	230	117	60,2
FSC.3365	FSC.3365.TD	49	49	74	M.52	230	117	80,1



Kaynaksız Göz Somun Weldless Eye Nut

MCDH

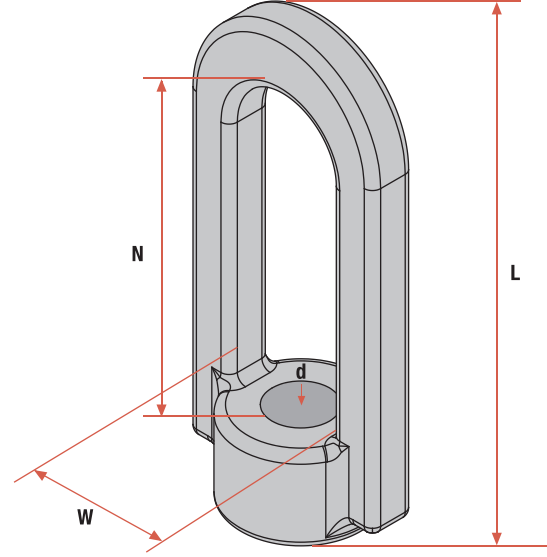
Malzeme / Material :
Dökme Demir / Malleable Iron

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

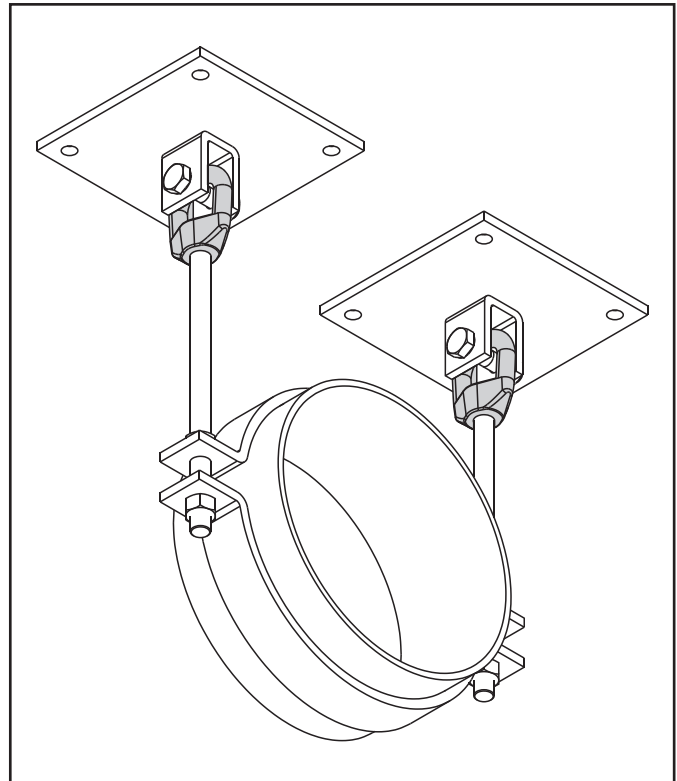
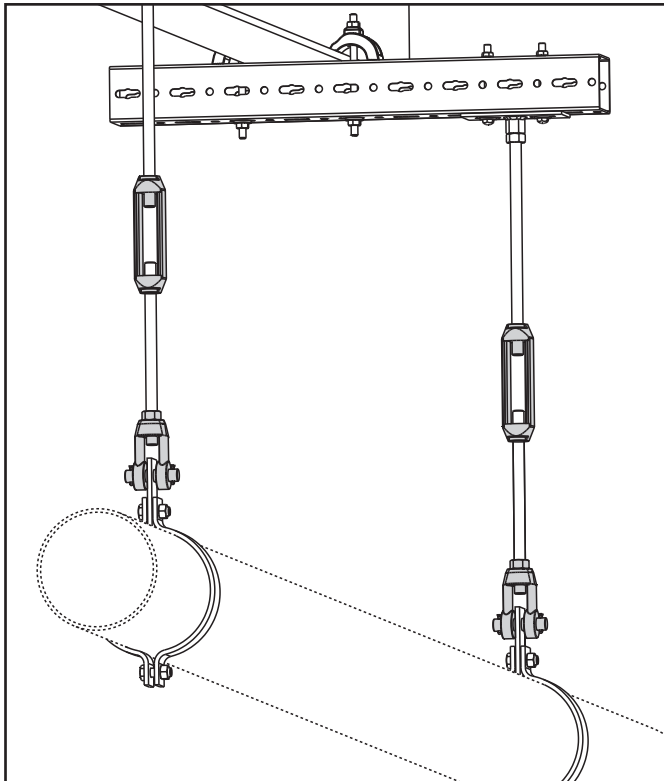
Hizmet / Service :
Yüksek sıcaklıktaki boru hatlarında kullanılmak üzere dizayn edilmiştir.
Designed for to use on high temperature piping installations.

MCDH Ölçüler / Dimensions

Kod Code	d	W mm	L mm	N mm	Dizayn Yüklü Design Load kN
MCDH.6008	M.8	17	79	45	2,7
MCDH.6010	M.10	17	79	45	2,7
MCDH.6012	M.12	17	79	45	6,0
MCDH.6016	M.16	25	101	55	13,0
MCDH.6020	M.20	29	125	65	18,0
MCDH.6024	M.24	35	154	80	26,0
MCDH.6030	M.30	42	181	90	60,0
MCDH.6036	M.36	47	202	95	90,0
MCDH.6042	M.42	52	229	105	120,0
MCDH.6048	M.48	62	258	120	160,0



TRB - FSC - MCDH Uygulama Örnekleri / Application Examples



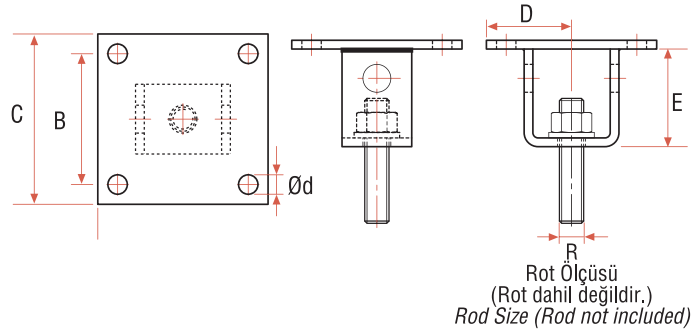
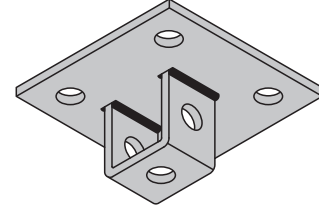
CRAP

Betona Rot Montaj Plakası Concrete Rod Attachment Plate

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish:
Elektro galvaniz
Zinc Plated

Hizmet / Service : Dikey ayarlama gerektiği durumlarda beton tavanlara yapısal bağlantıdır. Genelde rot ve somun ile kullanılır.
Structural attachment to concrete ceiling where vertical adjustment is desired. Normally used with threaded rod and nut.



CRAP Ölçüler / Dimensions

Kod Code	R	B mm	C mm	D mm	E mm	Ød mm	Dizayn Yüğü Design Load kN
CRAP.5415	M.10	200	250	125	73	14	3,20
CRAP.5416	M.12	200	250	125	73	14	6,00
CRAP.5417	M.16	200	250	125	73	14	9,50
CRAP.5418	M.20	200	250	125	80	18	14,3
CRAP.5419	M.22	200	250	125	108	18	19,9
CRAP.5420	M.24	200	300	150	114	20	26,2
CRAP.5421	M.27	200	300	150	121	24	33,1
CRAP.5422	M.30	200	300	150	127	24	42,2
CRAP.5423	M.36	200	300	150	165	28	61,3

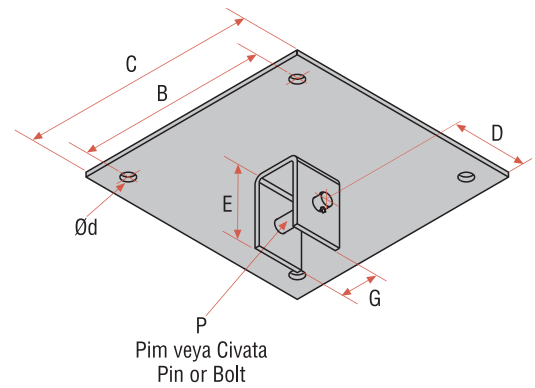
CRBP

Betona Montaj Plakası Concrete Attachment Plate

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated

Hizmet / Service : Dikey ayarlama gerektiği durumlarda beton tavanlara yapısal bağlantıdır. Genelde rot ve somun ile kullanılır.
Structural attachment to concrete ceiling where vertical adjustment is desired. Normally used with threaded rod and nut.



CRBP Ölçüler / Dimensions

Kod Code	P	B mm	C mm	D mm	E mm	Ød mm	G mm	Dizayn Yüğü Design Load kN
CRBP.6415	M.12	200	250	125	73	14	32	3,20
CRBP.6416	M.16	200	250	125	73	14	32	6,00
CRBP.6417	M.20	200	250	125	73	14	32	9,50
CRBP.6418	M.22	200	250	125	80	18	38	14,3
CRBP.6419	M.24	200	250	125	108	18	50	19,9
CRBP.6420	M.27	200	300	150	114	20	50	26,2
CRBP.6421	M.30	200	300	150	121	24	70	33,1
CRBP.6422	M.36	200	300	150	127	24	75	42,2
CRBP.6423	M.42	200	300	150	165	28	90	61,3

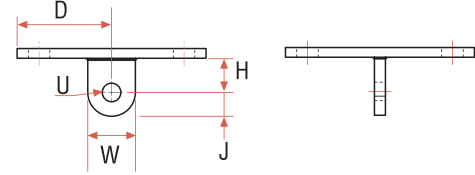
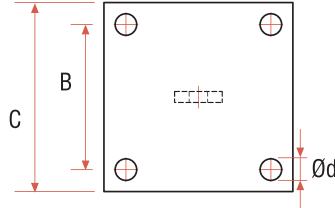
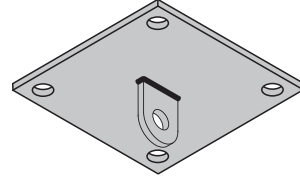
CSLP

Tek Kulplu Beton Plakası Concrete Single Lug Plate

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Electro Plated Zinc

Hizmet / Service :
Beton tavanlara bağlantı olarak tasarlanmıştır.
Designed for attachment to concrete ceilings.



CSLP
Ölçüler / Dimensions

Kod Code	R	B mm	C mm	D mm	Ød mm	H mm	J mm	U mm	W mm	Dizayn Yüğü Design Load kN
CSLP 5444	M.12	200	250	125	15	38	32	16	65	6,0
CSLP 5445	M.16	200	250	125	15	38	32	20	65	9,6
CSLP 5446	M.20	200	250	125	18	38	32	22	65	14,4
CSLP 5447	M.22	200	250	125	18	50	32	24	65	19,9
CSLP 5448	M.24	200	300	150	21	50	38	28	76	26,2
CSLP 5449	M.27	200	300	150	24	76	38	32	76	33,1
CSLP 5450	M.30	200	300	150	24	76	50	34	102	42,2
CSLP 5451	M.36	200	300	150	28	76	64	42	127	61,4

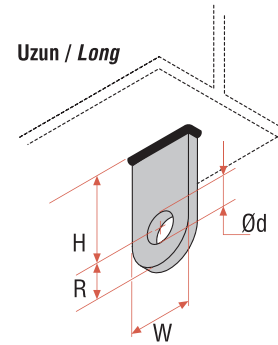
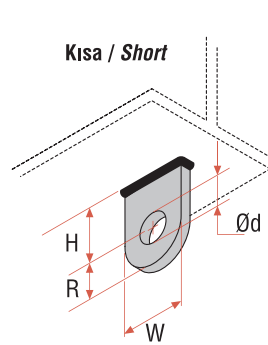
Tek Kulplu Plaka Single Lug Plate

PLSP

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz
Electro Plated Zinc

Hizmet / Service :
Çelik yapı elemanlarına bağlantı için tasarlanmıştır.
Designed for attachment to structural steel.



PLSP
Ölçüler / Dimensions

Kod / Code		Ød mm	R mm	H		W mm	Dizayn Yüğü Design Load kN
Kısa / Short	Uzun / Long			Kısa / Short mm	Uzun / Long mm		
PLSP.5418	PLSP.6418	18	32	38	76	63	6,00
PLSP.5420	PLSP.6420	20	32	38	76	63	9,60
PLSP.5424	PLSP.6424	24	32	38	76	63	14,4
PLSP.5428	PLSP.6428	28	32	51	76	63	19,9
PLSP.5432	PLSP.6432	32	38	51	76	76	26,2
PLSP.5436	PLSP.6436	36	38	76	102	76	33,1
PLSP.5438	PLSP.6438	38	51	76	102	102	42,2
PLSP.5444	PLSP.6444	44	64	76	114	127	61,4
PLSP.5450	PLSP.6450	50	64	76	114	127	82,7
PLSP.5460	PLSP.6460	60	76	102	114	152	109,5

IUL

Kiriş Kaynak Bağlantı Elemanı Welding Beam Attachment

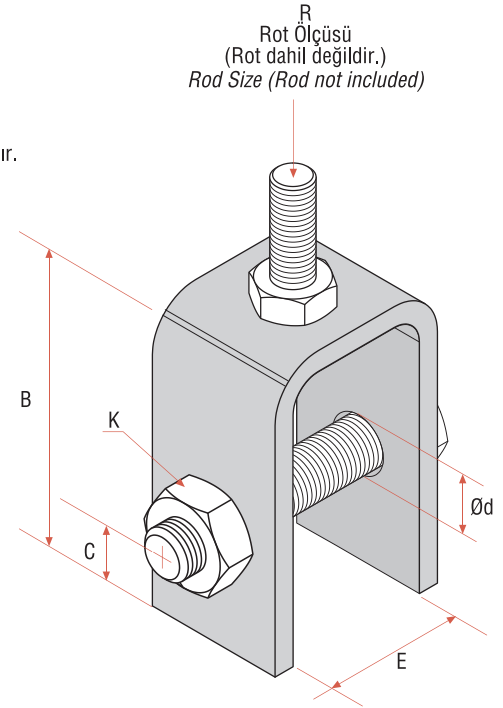
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish:
Elektro galvaniz
Zinc Plated

Ağır yük ve büyük çaplı askı rotlarının çelik yapı elemanlarının alt flanşlarına bağlantısı için tasarlanmıştır.
Designed for attaching hanger rod to bottom of structural steel where heavy load and large hanger rod sizes are required. Can be welded in place in either the upright or inverted position.

IUL
Ölçüler / Dimensions

Kod Code	R	K mm	B mm	C mm	Ød mm	E mm	Dizayn Yüğü Design Load kN	
							350°C	400°C
IUL.6010	M.10	M.12	72	22	14	32	3,25	2,54
IUL.6012	M.12	M.16	72	22	18	32	6,00	4,70
IUL.6016	M.16	M.20	72	22	22	32	9,61	7,52
IUL.6020	M.20	M.22	78	28	24	38	14,37	11,25
IUL.6022	M.22	M.24	108	32	30	50	19,93	15,60
IUL.6024	M.24	M.27	113	38	32	50	26,24	20,55
IUL.6027	M.27	M.32	113	38	34	70	33,14	25,93
IUL.6030	M.30	M.36	126	51	38	76	42,25	33,09
IUL.6036	M.36	M.42	163	63	44	89	61,38	48,07
IUL.6042	M.42	M.48	195	70	50	95	82,73	64,79
IUL.6048	M.48	M.56	207	82	60	95	109,42	87,29



LUP

Tavana bağlama parçası Upper Attachment

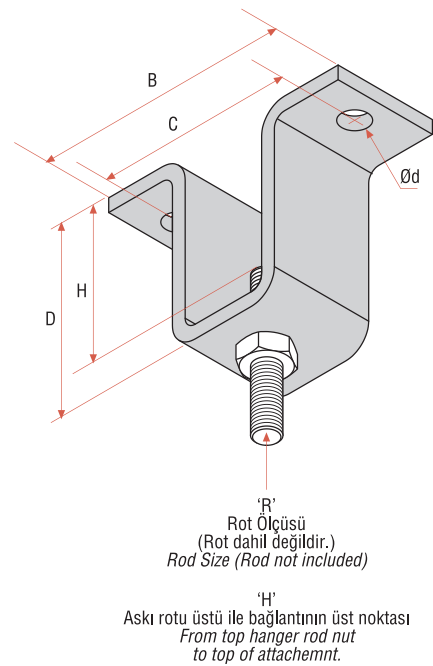
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish:
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Çelik yapıların askı elemanı olarak kullanılması için dizayn edilmiştir.
Designed for to be used in Steel construction structures as a suspension material.

LUP
Ölçüler / Dimensions

Kod Code	R mm	B mm	C mm	D mm	Ød mm	Ayar Mesafesi Adjustment H mm	Dizayn Yüğü With bolts Design Load kN
LUP.7812	M.12	136	105	92	14	70	6,00
LUP.7816	M.16	150	114	94	18	68	9,61
LUP.7820	M.20	168	117	121	23	89	14,37
LUP.7822	M.22	184	133	125	23	90	19,93



'R'
Rot Ölçüsü
(Rot dahil değildir.)
Rod Size (Rod not included)

'H'
Askı rotu üstü ile bağlantının üst noktası
From top hanger rod nut
to top of attachment.

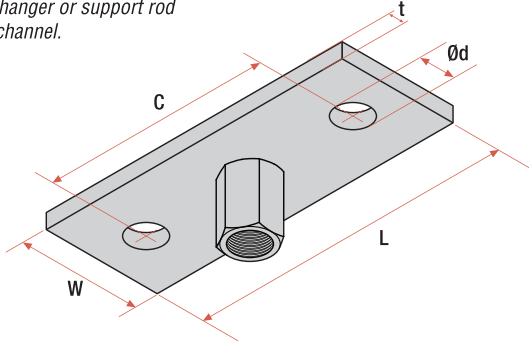
AYBF

Ağır Yük Tavan Flanşı
Heavy Duty Ceiling Flange

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Destek ve askı rotalarını profille, tavana veya yapı profillerine montaj etmek için dizayn edilmiştir.
Designed for attaching a hanger or support rod to beam, ceiling or strut channel.



AYBF

Ölçüler / Dimensions:

Kod / Code	R	L mm	W mm	Ød mm	C mm	t	Dizayn Yüğü Design Load kN
AYBF.5413.01	M.10	110	50	11	65	5	3,50
AYBF.5413.02	M.12	152	50	13	100	10	5,20
AYBF.5413.001	M.16	152	50	13	100	10	9,71
AYBF.5413.002	M.20	152	50	18	100	10	14,37
AYBF.5413.003	M.22	203	76	18	125	10	19,93
AYBF.5413.004	M.24	203	76	18	125	10	26,24

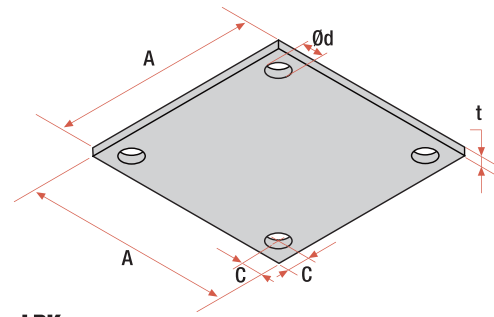
LPK

Plaka
Plate

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Montaj plakası olarak tasarlanmıştır.
Designed for unstation plate.



LPK

Ölçüler / Dimensions:

Kod / Code	Ød mm	t	A mm	C mm
LPK.1508	11	6	100	25
LPK.1509	11	8	150	25
LPK.2011	13	10	200	25
LPK.2514	23	12	250	35
LPK.3017	23	15	300	35

YDRB

Kiriş Yanı Köşe Bağlantısı
Side Beam Angle Clip

Malzeme / Material:
Çelik / Steel

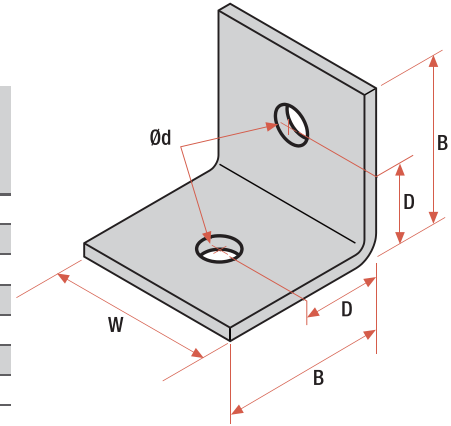
Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

Hizmet / Service :
Askı rotalarını kiriş yanına veya duvara montaj etmek için dizayn edilmiştir.
Designed for attaching a hanger rod to the side of beams or walls.

YDRB

Ölçüler / Dimensions:

Kod / Code	Ød mm	B mm	W mm	D mm	Dizayn Yüğü Design Load kN
YDRB.5413-020	11	35	50	20	0,80
YDRB.5413-024	11	55	50	32	1,20
YDRB.5413-025	13	55	50	32	2,40
YDRB.5413-026	17	75	50	45	4,00
YDRB.5413-027	21	75	75	45	6,00
YDRB.5413-028	23	100	100	65	8,20
YDRB.5413-029	27	100	100	65	11,0



Trapez kelepçe Trapeze Decking Hanger

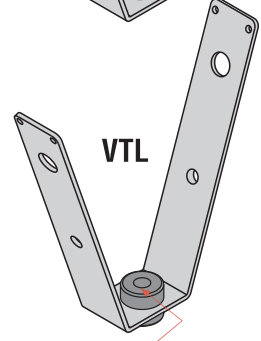
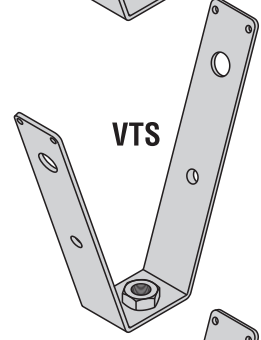
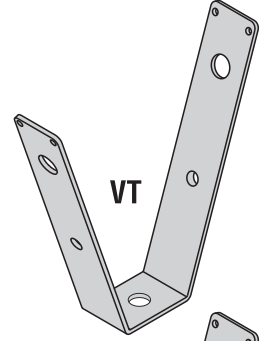
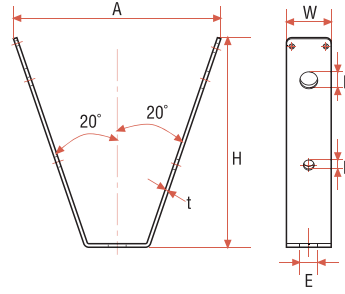
Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish:
Elektro galvaniz
Zinc Plated

Hizmet / Service :
Trapez çatı elemanlarından askılama için tasarlanmıştır.
Designed for attaching a hanger rod to trapeze deck.

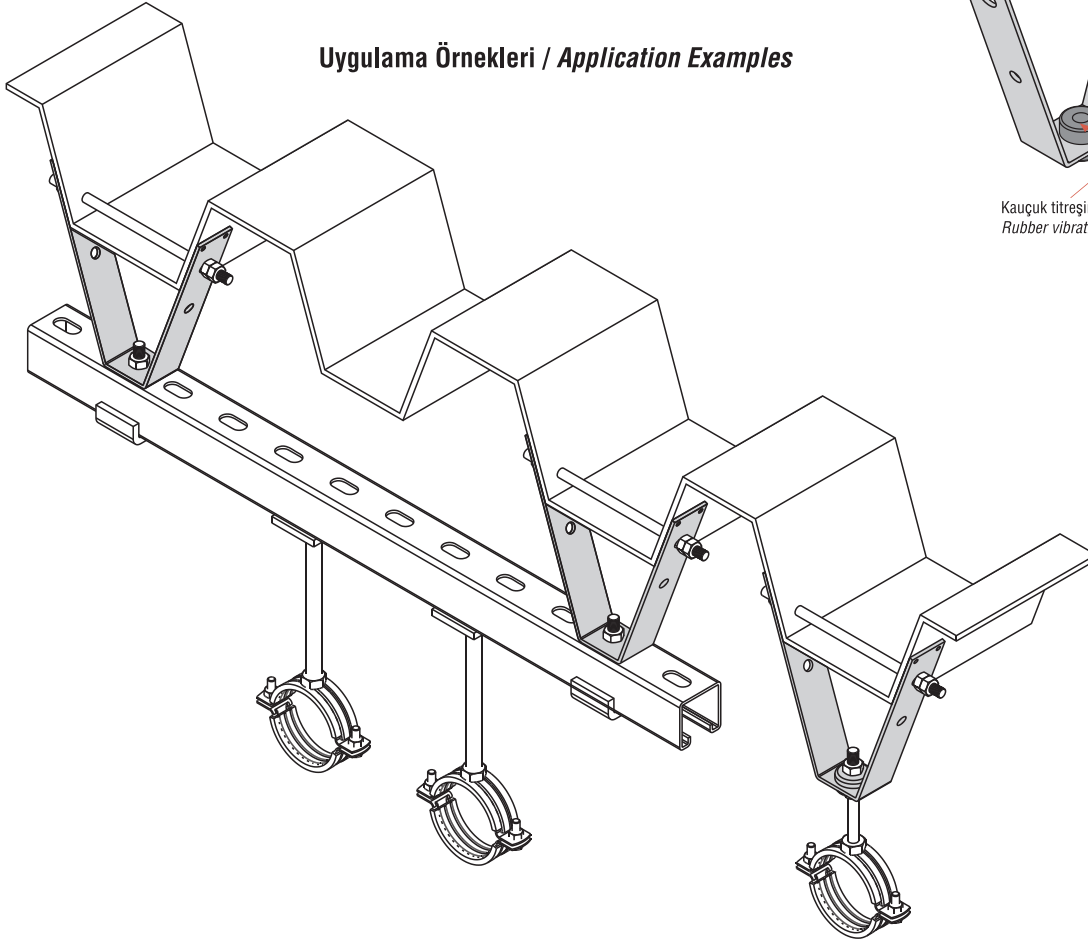
VT Ölçüler / Dimensions

Kod / Code VT	H mm	A mm	E mm	F mm	t x W mm	Ad. / Kutu Pie. / Box	Kg / Kutu Kg / Box
VT.2011	90	97	11	6	2,5 x 25	50	0,10
VTS.3008	90	97	M.8	6	2,5 x 25	50	0,11
VTS.3010	90	97	M.10	6	2,5 x 25	50	0,12
VTL.4008	90	97	8	6	2,5 x 25	50	0,11



Kauçuk titreşim alıcı
Rubber vibration absorber

Uygulama Örnekleri / Application Examples



LBP

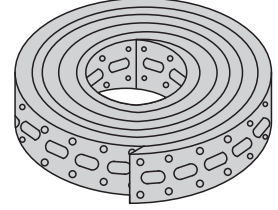
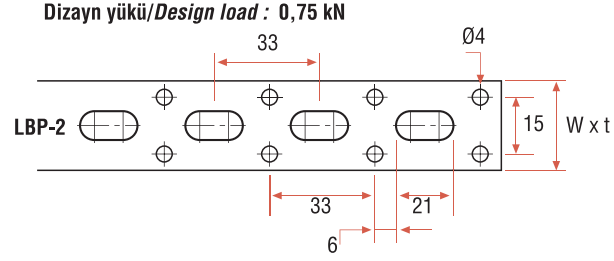
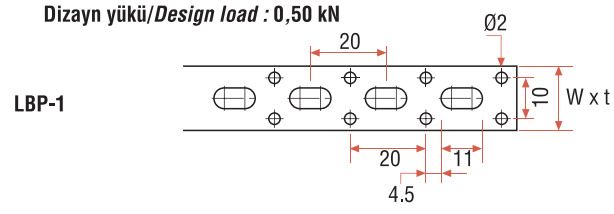
Perfore Bant Perforated Band

Malzeme / Material :
Çelik / Steel

Standart Kaplama / Standard Finish:
Senzimir Galvaniz / Sendzimir Galvanized

LBP Ölçüler / Dimensions

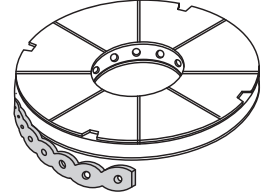
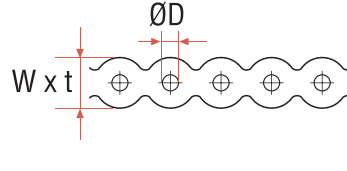
Kod Code	Tip Type	W x t mm
LBP.5413-120	LBP-2	25 x 0,8



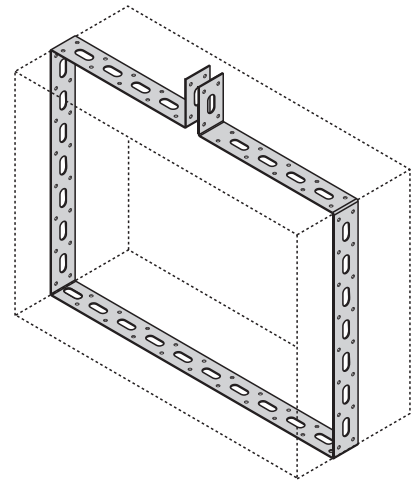
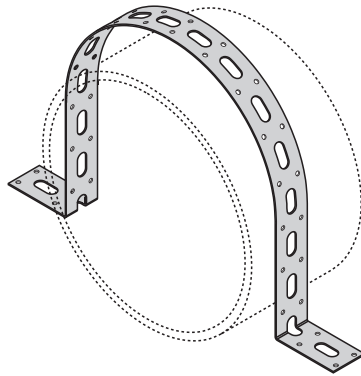
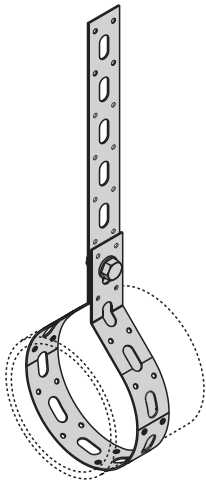
LABP

LABP Ölçüler / Dimensions

Kod Code	Tip Type	W x t mm	ØD mm	Dizayn Yüğü Design Load kN
LABP.5413-142	LABP-3	26 x 1,0	8	1,00
LABP.5413-141	LABP-2	17 x 0,8	7	0,75



Uygulama Örnekleri / Application Examples



Altı Köşe Civata Hexagon Head Bolt

CC

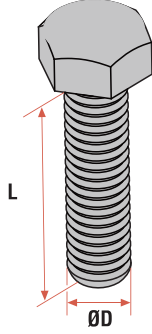
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

CC

Ölçüler / Dimensions:

Kod Code	Civata Ölçüsü Bolt Size D x L mm
CC.800825	M.8 x 25
CC.800850	M.8 x 50
CC.801025	M.10 x 25
CC.801035	M.10 x 35
CC.801050	M.10 x 50
CC.801225	M.12 x 25
CC.801235	M.12 x 35
CC.801250	M.12 x 50
CC.801635	M.16 x 35
CC.801650	M.16 x 50
CC.801670	M.16 x 70
CC.802040	M.20 x 40



DIN 933
ISO 4017

Malzeme Özellik Sınıflar
Material Class:
8.8

Altı Köşe Civata Hexagon Head Bolt

EPSS

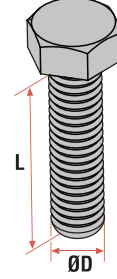
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz / Hot Dip Galvanized

EPSS

Ölçüler / Dimensions:

Kod Code	Civata Ölçüsü Bolt Size D x L mm
EPSS.21214	M.12 x 140
EPSS.21217	M.12 x 170
EPSS.22016	M.20 x 160
EPSS.22024	M.20 x 240



DIN 931
ISO 4014

Malzeme Özellik Sınıflar
Material Class:
8.8

Altı Köşe Somun Hexagon Head Nut

CS

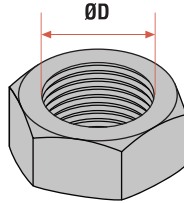
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Elektro galvaniz / Zinc Plated

CS

Ölçüler / Dimensions:

Kod Code	Somun Ölçüsü / Nut Size D mm
CS.8808	M.8
CS.8810	M.10
CS.8812	M.12
CS.8816	M.16
CS.8820	M.20



DIN 934

Malzeme Özellik Sınıflar
Material Class:
8

Altı Köşe Flaşlı Somun Hexagon Flange Nut

EPCS

Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz / Hot Dip Galvanized

EPCS

Ölçüler / Dimensions:

Kod Code	Somun Ölçüsü / Nut Size D mm
EPCS.0212	M.12
EPCS.0220	M.20



DIN 6923

Düz Pul Flat Washer

PR

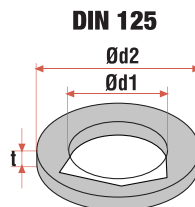
Malzeme / Material:
Çelik / Steel

Standart Kaplama / Standard Finish :
Sıcak Daldırma Galvaniz / Hot Dip Galvanized

PR

Ölçüler / Dimensions:

Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	tmin mm
PR.0212	M.12	13.0	24.0	2.3
PR.0220	M.20	21.0	37.0	2.7



DIN 125

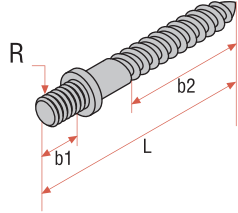
Çeşitli Dişli Bağlantı Elemanları Various Other Connection & Threaded Accessories

Malzeme / Material : Çelik / Steel

Standart Kaplama / Standard Finish : Elektrogalvaniz / Zinc Plated

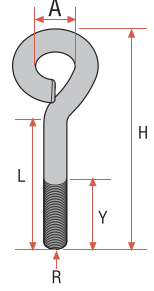
BEL1 Trifon / Threaded Lag Screw

Kod Code	Rot Ölçüsü Rod Size R x L mm	b1 mm	b2 mm
BEL1.5106	M.8 x 50	15	30
BEL1.5107	M.8 x 65	15	45
BEL1.5108	M.10 x 80	20	50



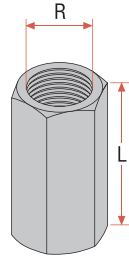
BEL2 Göz Rot-2 / Linked Eye Rod-2

Kod Code	A mm	Rot Ölçüsü Rod Size R	L mm	Y mm	H mm
BEL2.5410	30	M.8	160	100	200
BEL2.5411	40	M.10	210	100	250
BEL2.5412	50	M.12	240	100	300
BEL2.5413	50	M.16	290	100	350



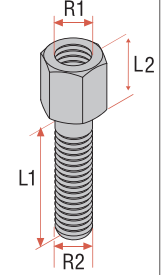
BEL3 Uzatma Manşonu / Steel Rod Coupling

Kod Code	R	L mm	Dizayn Yüğü Design Load kN
BEL3.5108	M.8	40	1,33
BEL3.5110	M.10	40	2,11
BEL3.5112	M.12	40	3,25
BEL3.5116	M.16	40	6,00
BEL3.5120	M.20	40	9,61
BEL3.5124	M.24	40	14,37



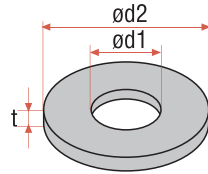
CSY Adaptör Cıvata / Adaptor Bolt

Kod Code	R1 x R2	L1 mm	L2 mm
CSY.8320	M.8 x M.8	20	40
CSY.8321	M.8 x M.10	20	40
CSY.8322	M.10 x M.8	20	40
CSY.8323	M.10 x M.10	20	40
CSY.8324	M.10 x M.12	20	40
CSY.8325	M.12 x M.8	25	40
CSY.8326	M.12 x M.10	25	40
CSY.8327	M.12 x M.12	25	40



PRG Geniş Düz Pul / Large Size Washer

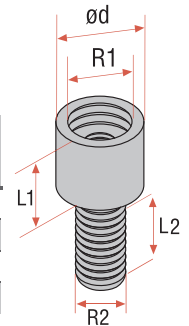
Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	t mm
PRG.8808	M.8	8,4	24,0	2,5
PRG.8810	M.10	10,5	30,0	3,0
PRG.8812	M.12	13,0	37,0	3,0
PRG.8816	M.16	17,0	50,0	4,0



DIN 9021

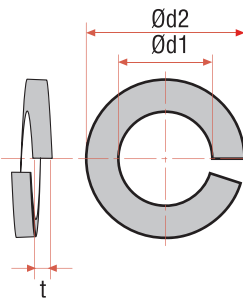
CSY1 Adaptör Cıvata / Adaptor Bolt

Kod Code	R1 x R2	Ød mm	L1 mm	L2 mm
CSY1.8347	M.8 x M.10	15	30	40
CSY1.8348	M.10 x M.12	18	30	40
CSY1.8349	M.12 x M.16	20	40	40
CSY1.8350	M.16 x M.20	27	40	40



PRY Yaylı Rondela / Spring Lock Washer

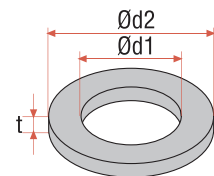
Kod Code	Anma Çapı Thread Size mm	D1 mm	D2 mm	t mm
PRY.8808	M.8	8,5	14,8	1,9
PRY.8810	M.10	10,5	18,1	2,1
PRY.8812	M.12	12,5	21,1	2,4
PRY.8816	M.16	16,5	27,4	3,3
PRY.8820	M.20	20,5	33,6	3,8



DIN 127

PR Düz Pul / Flat Washer

Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	t mm
PR.8808	M.8	8,4	16,0	1,4
PR.8810	M.10	10,5	20,0	1,8
PR.8812	M.12	13,0	24,0	2,3
PR.8816	M.16	17,0	30,0	2,7
PR.8820	M.20	21,0	37,0	2,7



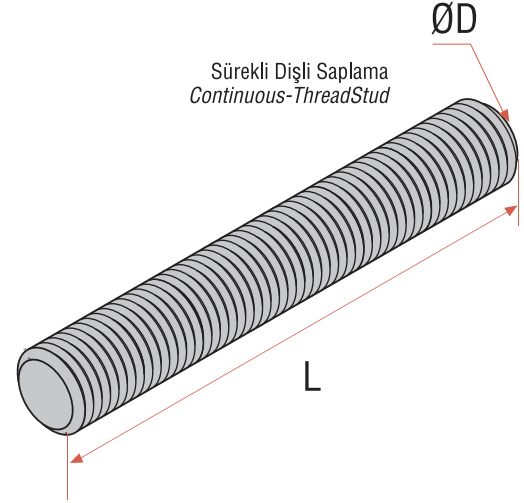
DIN 125

Dişli Saplamlar Thread Stud

Malzeme / Material :
Çelik / Steel

Malzeme Özellik Sınıfları / Material Class: 4.6

Standart Kaplama / Standard Finish :
Elektro galvaniz
Zinc Plated



CR Ölçüler / Dimensions

Kod Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yüğü Design Load kN
CR.060060	M.6 x 60	2000	22,40	4,56
CR.060080	M.6 x 80	2000	29,80	4,56
CR.080035	M.8 x 35	2000	24,20	8,15
CR.080055	M.8 x 55	1200	22,80	8,15
CR.080100	M.8 x 100	600	20,82	8,15
CR.100035	M.10 x 35	1600	37,28	12,87
CR.100055	M.10 x 55	800	24,48	12,87
CR.100100	M.10 x 100	400	22,24	12,87
CR.120080	M.12 x 80	300	19,20	18,55
CR.120100	M.12 x 100	300	24,00	18,55
CR.120140	M.12 x 140	300	33,60	18,55
CR.140100	M.14 x 100	50	5,50	25,41
CR.140140	M.14 x 140	50	7,70	25,41
CR.160100	M.16 x 100	50	7,25	33,34
CR.160140	M.16 x 140	50	10,10	33,34
CR.160200	M.16 x 200	50	14,50	33,34
CR.180140	M.18 x 140	20	5,40	42,35
CR.180200	M.18 x 200	20	7,50	42,35
CR.200150	M.20 x 150	20	6,80	52,12
CR.200200	M.20 x 200	20	9,00	52,12

Dişli Askı Rotları
Thread Hanging Rods

CR

Malzeme / Material :

Çelik / Steel

Malzeme Özellik Sınıfları / Material Class: 4.6

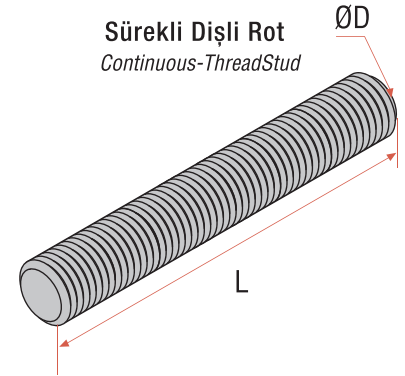
Standart Kaplama / Standard Finish :

Elektro galvaniz

Zinc Plated

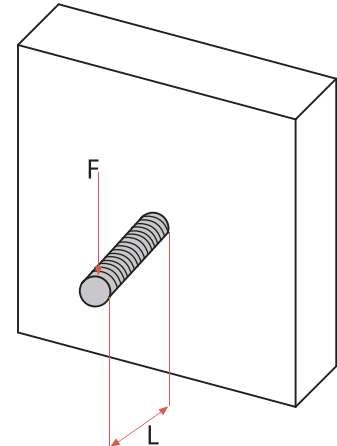
CR Ölçüler / Dimensions

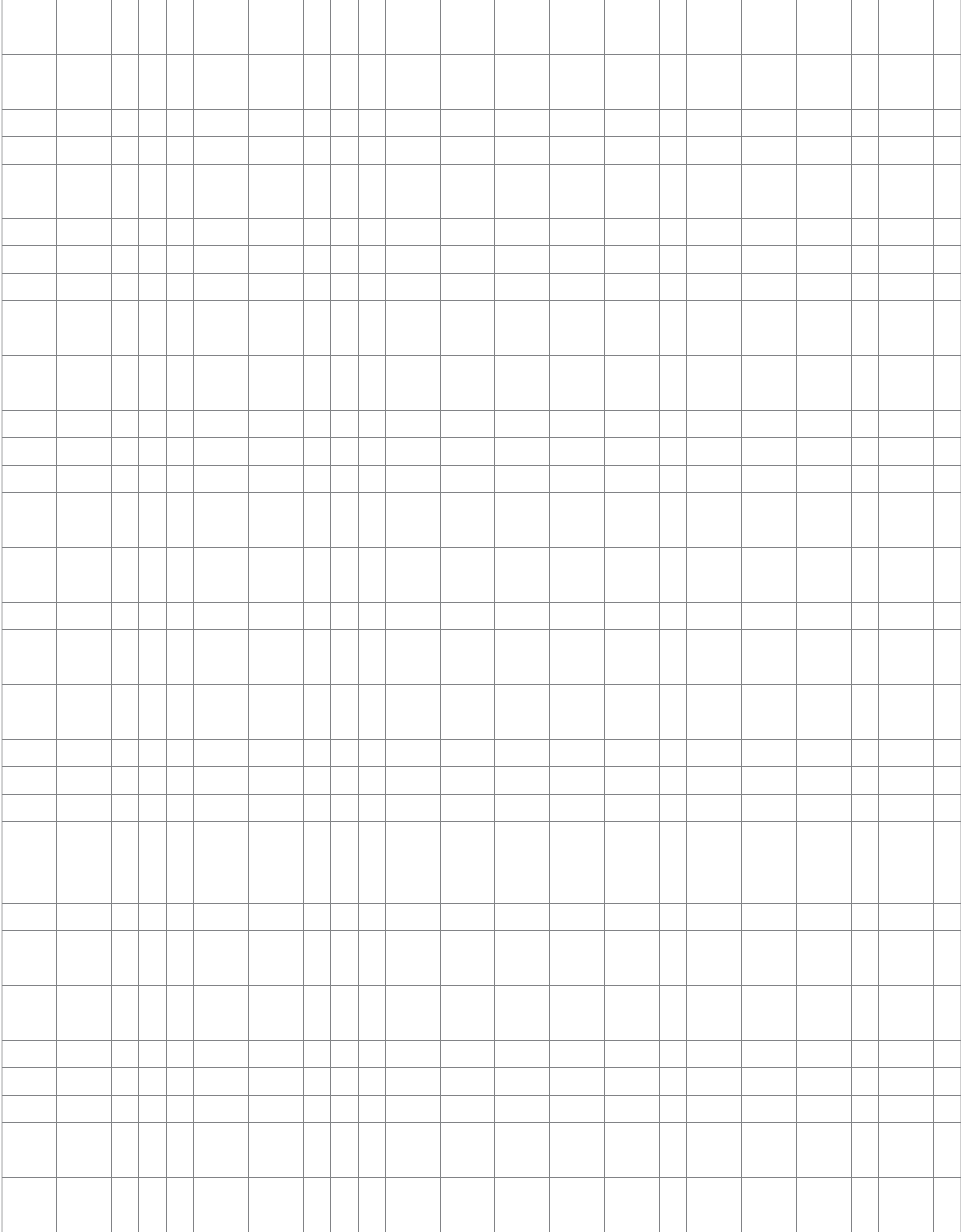
Kod Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yüğü Design Load kN
CR.061000	M.6 x 1000	100	18,70	4,56
CR.062000	M.6 x 2000	100	37,40	4,56
CR.081000	M.8 x 1000	50	17,35	8,15
CR.082000	M.8 x 2000	25	17,35	8,15
CR.101000	M.10 x 1000	25	13,90	12,87
CR.102000	M.10 x 2000	20	22,8	12,87
CR.121000	M.12 x 1000	25	20,00	18,55
CR.122000	M.12 x 2000	15	24,00	18,55
CR.141000	M.14 x 1000	20	22,00	25,41
CR.142000	M.14 x 2000	20	44,00	25,41
CR.161000	M.16 x 1000	10	14,50	33,34
CR.162000	M.16 x 2000	10	29,00	33,34
CR.181000	M.18 x 1000	10	18,50	42,35
CR.182000	M.18 x 2000	10	37,00	42,35
CR.201000	M.20 x 1000	5	11,25	52,12
CR.202000	M.20 x 2000	5	22,50	52,12
CR.221000	M.22 x 1000	5	13,30	63,25
CR.222000	M.22 x 2000	5	26,60	63,25
CR.241000	M.24 x 1000	5	16,30	75,46
CR.242000	M.24 x 2000	5	32,60	75,46
CR.271000	M.27 x 1000	5	21,50	95,79
CR.272000	M.27 x 2000	5	43,00	95,79
CR.301000	M.30 x 1000	5	26,50	118,54
CR.302000	M.30 x 2000	5	53,00	118,54
CR.361000	M.36 x 1000	5	39,50	170,74
CR.362000	M.36 x 2000	5	79,00	170,74
CR.421000	M.42 x 1000	5	48,50	233,11
CR.422000	M.42 x 2000	5	97,00	233,11

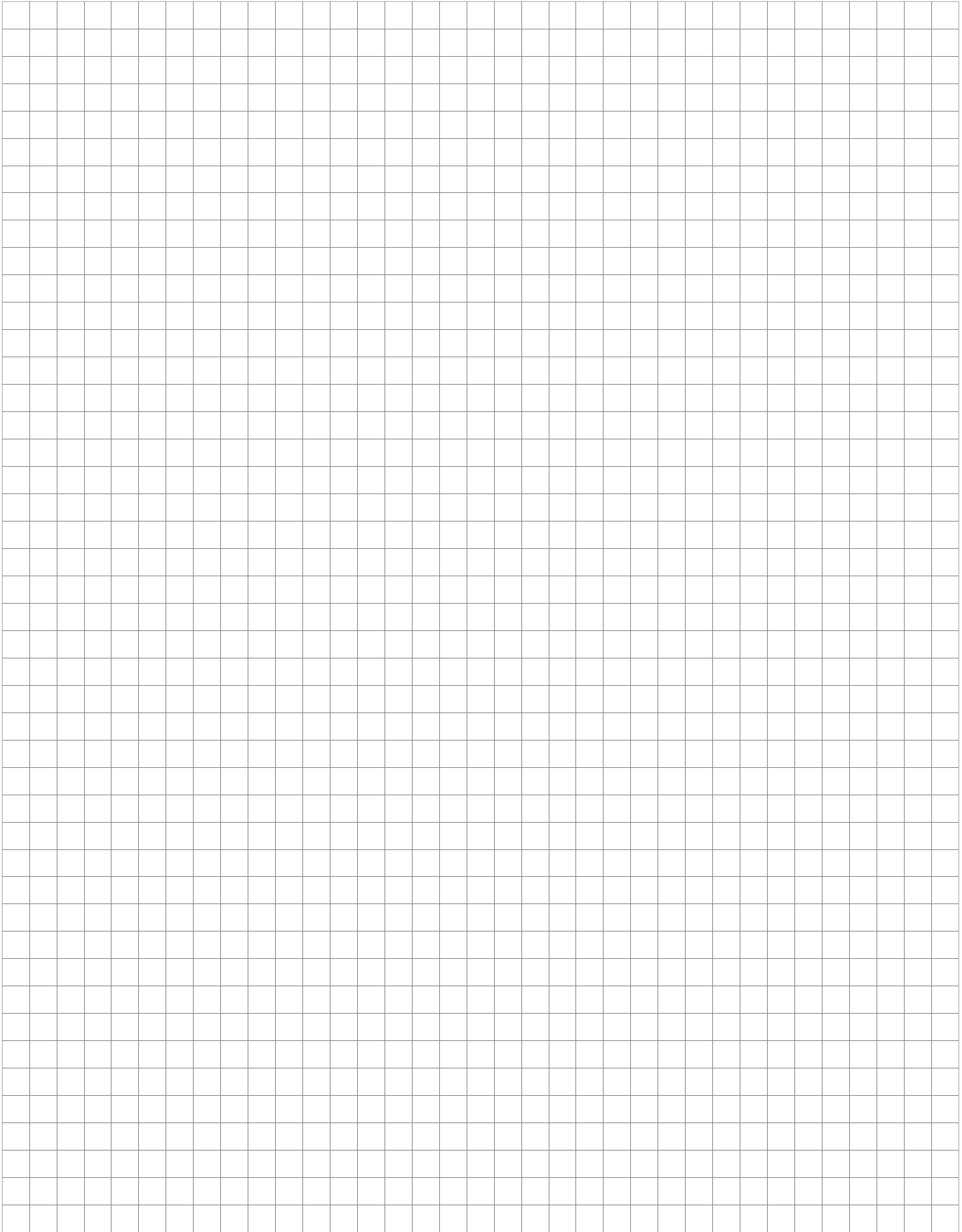


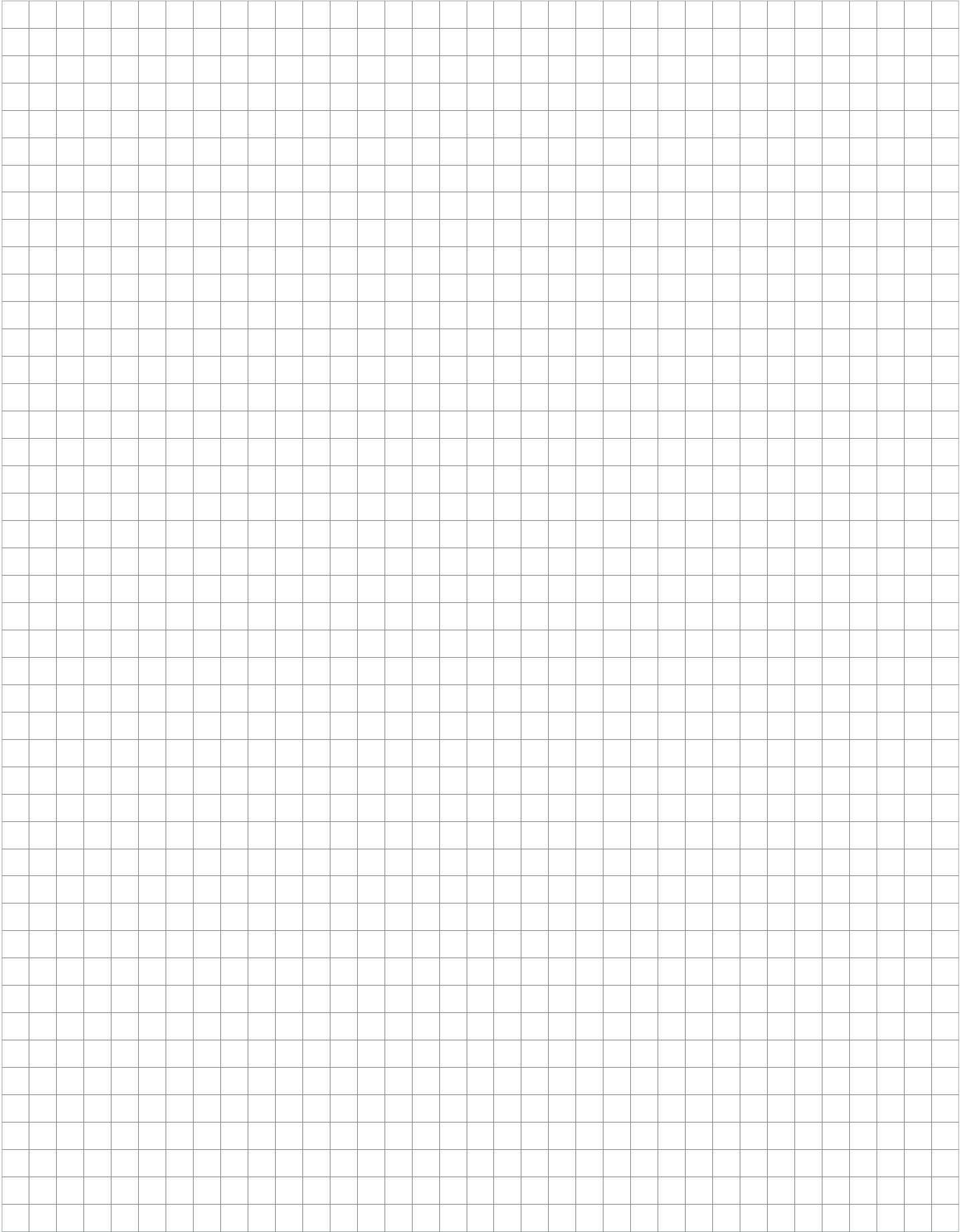
Eğilme Dizayn Yüğü / Bending Design Load(*)				
Uzunluk L mm	M8 F(kN)	M10 F(kN)	M12 F(kN)	M16 F(kN)
50	0,10	0,20	0,34	0,87
100	0,04	0,10	0,17	0,43
150	0,02	0,05	0,11	0,29
200	0,01	0,08	0,06	0,21
250		0,02	0,04	0,15
300		0,01	0,03	0,09
350			0,02	0,07
400			0,01	0,05

(*)Emniyet Faktörü / Safety Factor: 1.5

Max. Sehim / Max. Deflection $f=L/150$ 









LINK

we link the world

Ađır Y¼k Mod¼ler Profil Sistemi
Heavy Duty Modular Profile System

ProMEGA KATALOĐU

ProMEGA CATALOG

İçindekiler Contents

Sayfa / Page

2-3	LINK YAPI
4-5	ProMEGA Nedir? / <i>What is ProMEGA?</i>
6-7	Kaplama, Sertifikalar, Danışmanlık / <i>Coating, Certificate, Consultancy</i>
8-9	İndeks / <i>Index</i>
10-13	ProMEGA Profiller / <i>ProMEGA Profiles</i>
14	Profil Bağlantı Detayı / <i>Profile Connection Details</i>
15	EPKC Kolay Cıvata / <i>Easy-to-Install Self-Threading Bolt</i>
16-17	PM-HK ProMEGA Hazır Konsollar / <i>ProMEGA Consoles</i>
18	PM-TTA / PM-TEA Taban ve Tavan Ayağı / <i>Base and Ceiling Support</i>
19	PM-KA Konsol Bağlantı Braketi / <i>Console Bracket</i>
20-21	PM-KD Köşe Bağlantı Parçaları / <i>Corner Fittings</i>
22	PM-MEG / PM-MFS Ayarlanabilir Mafsal Ayağı / <i>Adjustable Hinge Fitting</i>
23	PM-DDE / PM-KDE Plaka Tipi Bağlantı Parçası / <i>Plate Fitting</i> PM-TDE Toplayıcı Köşe Elemanı / <i>Outer Corner Fittings</i>
24	PM-PLT Plakalar / <i>Plates</i>
25	PM-GB G Profil Adaptörü / <i>G Profile Adaptor</i>
26	PM-UK Uzatma Kaplini / <i>Extension Coupling</i>
27	PM-BE Birleştirme Elemanı / <i>Joint Fitting</i>
28	PM-TA U Bağlantı Atkısı / <i>U Shape Fitting</i>
29	PM-UD Polimer U Destek Elemanı / <i>Polymer U Support Fitting</i> PM-UDP Ayarlanabilir U Destek Elemanlı Ayak / <i>Adjustable Base with U Support Fitting</i>
30	UKP U Bolt Askı Kelepçesi / <i>U Bolt Pipe Clamp</i>
31	PM-UBB U Bolt Bağlantı Braketleri / <i>U Bolt Connection Brackets</i>
32	NPI2 / PM-KB / MZL Kiriş Kenetleri / <i>Beam Clamps</i>
33	PM-PC Plastik Kapak / <i>Plastic Cover</i>
34-35	DN5L / DN5K / DN6 / DN5 Kelepçeler / <i>Clamps</i>
36	PLGMK Kelepçe Bağlantı Somunu / <i>Split Clamp Fitting</i>
37-38	PAT A / PAT C İzolasyon Takozları / <i>Insulation Supports</i>
39	PM-SKP Somunlu Bağlantı Plakası / <i>Split Clamp Fitting</i>
40	PM-AKP Ağır Yük Kelepçe Plakası / <i>Heavy Duty Clamp Plate</i>
41	MDN / MTK Manşonlu Kelepçeler / <i>Pipe Clamp with Coupling</i>
42	SDNA Ağır Yük Askı Kelepçesi / <i>Heavy Duty Pipe Clamp</i>
43-48	LKYM/ PM-KY/ KYM4/ EKY1/ EKY2/ EKYA Kayar Yataklar / <i>Sliding Frames</i>
49	PM-EFPA Sabit Nokta Kelepçesi / <i>Fixed Point Clamp</i>
50-53	LC / LTS / LT / R-KER Dübeller / <i>Anchors</i>
54-56	Bağlantı ve Dişli Aksesuarlar / <i>Connection & Threaded Accessories</i>
57	Polimer Beton Ayaklar / <i>Polymer Concrete Bases</i>
58-73	Uygulama Örnekleri / <i>Application Examples</i>
74-75	Nasıl Yapıyoruz? / <i>Business Policy</i>



LINK, Özel Çözümler !

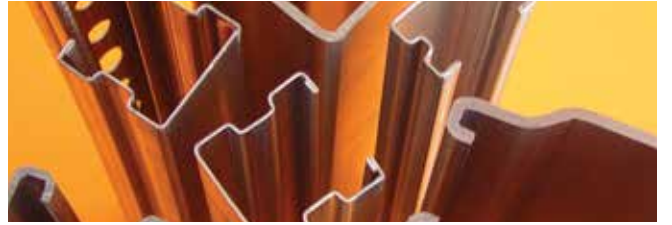
LINK, Customized Solutions!

40 yılı aşkın süredir LINK olarak, Mekanik Tesisat içerisinde yer alabilecek herhangi bir hattın kendi özelliğine uygun olarak yapıya bağlanması için gerekli olan tüm askı ve destek sistemleri ile ilgili çözümler üretiyoruz. Serüvenimize başladığımız ilk günden bu yana, hem müşterilerimizin ihtiyaçlarını hem de içinde bulunduğumuz sürekli değişen pazarların ihtiyaçlarını karşılamak üzere ürün yelpazemizi geliştirmek için pazardaki değişiklikleri sürekli izliyor ve adapte oluyoruz.

Dünyanın bir çok yerinde kullanılan **Boru Askı Destek Sistemleri, Havalandırma Bağlantı Sistemleri, Ses ve Titreşim Yalıtımı Sistemleri, Sismik Sınırlama Sistemleri, Endüstriyel Askı ve Destek Sistemleri, Modüler Profil Sistemleri, Cephe Sistemleri ve Yapı Tespit Sistemlerinde** sağladığımız geniş ürün yelpazemiz bize, projeler için tam entegre bir yaklaşıma sahip olma avantajı sağlamış bu anlamda LINK'i her zaman bir adım önde tutmuştur.

LINK provide solutions for all hanger and support systems required for the connection of Mechanical / Electrical Installation to the structure in accordance with international standarts for more than 40 years. Since the first day we started our adventure, we are constantly monitoring and adapting ourselves to changes in the market to develop our product range to meet both the needs of our customers and the ever-changing needs of the markets we are in.

We offer a wide range of products that are used in many parts of the world such as Pipe Hanger Support Systems, Ventilation Connection Systems, Sound and Vibration Isolation Systems, Seismic Restraint Systems, Industrial Hanger and Support Systems, Modular Profile Systems, Facade Systems and Anchor and Fixing Systems. This wide range approach has always taken LINK a step ahead.



Dünyada LINK

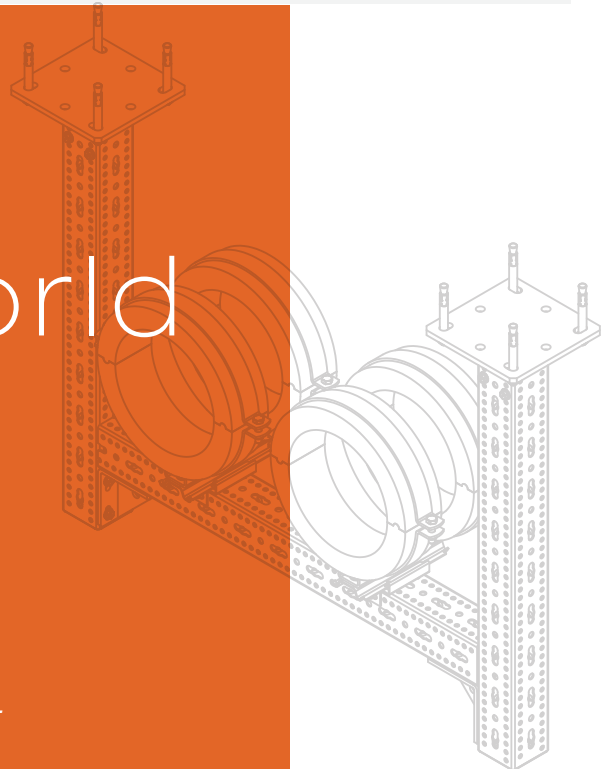
LINK, in the world



we link the world

Bugün, ürünlerimiz tüm dünyada 25'ten fazla ülkede kullanılmaktadır. Polonya, Avustralya, Lübnan, Sri Lanka, Brezilya, Rusya, Pakistan, Azerbaycan, Katar, Kuveyt, Birleşik Arap Emirlikleri, Suudi Arabistan ve İtalya'da seçilmiş distribütörlerimiz ise yerel bazda hizmet vermekte ve bu da globalleşmeye verdiğimiz öneme işaret etmektedir.

Today, our products are used in more than 25 countries all over the world. Selected distributors in Poland, Australia, Lebanon, Sri Lanka, Brazil, Russia, Pakistan, Azerbaijan, Qatar, Kuwait, United Arab Emirates, Saudi Arabia and Italy point out that we are giving service on a local basis and it shows the importance LINK give to the global market.



ProMEGA

Nedir?

What is ProMEGA?

ProMEGA ağır yük destek sistemleri için tasarlanmış, kaynaklı çelik yapılara alternatif modüler bir profil sistemidir. Hızlı montaj imkanı veren, her türlü değişikliğe karşı esnek, modüler ve sağlamlığıyla fark yaratan ProMEGA, sıcak daldırma kaplama yapısıyla ve kullanım kolaylığı sağlayan kılavuz civataları ile alternatiflerine göre ekonomik ve uzun ömürlü bir çözüm sağlar.

Ana kullanım alanı olan boru tesisatı destek sistemleri dışında, hava kanalı ve elektrik tesisatı, endüstriyel destek sistemleri, makine teçhizatına erişim platformları, yürüme yolları, ikincil çelik uygulamaları, cephe ankraj uygulamaları, çatı destek uygulamaları ve cihaz kaide-leri gibi birçok kullanım alanı bulunmaktadır. ProMEGA'nın tüm yükler altındaki hesaplamaları LINK'in uzman mühendis kadrosu tarafından yapılarak değerli müşterilerimize sunulmaktadır.

ProMEGA is a modular profile support system designed for use under heavy loads as an alternative to conventional welded systems. It also provides more economical and long-term solutions compared to alternatives due to its hot-dip galvanized coating and self-threading bolted connection.

In addition to the pipe support system as a main application area, there are many fields of use such as air duct and electrical installation, industrial support systems, access platforms for machine equipment, walkways, secondary steel applications, facade applications, roof support applications and equipment bases.



Neden?

ProMEGA Why ProMEGA?

Şantiye alanında kaynaklı imalata gerek olmadan kılavuz civatalarıyla kolay, hızlı ve güvenilir şekilde montaj edilir.

Kendinden diş açma özelliğine sahip civataları sayesinde ekstra somun – pul veya başka bir eleman kullanımına gerek bırakmadığı gibi dişli pul yapısıyla titreşim ile çözülmeye karşıda yüksek direnç sağlar.

Cıvatalı bağlantı olması sebebiyle proje ve tasarım değişikliklerinde kolaylıkla imalat revizyonuna izin verir ve minimum malzeme sarfiyatı sağlar.

Standart sıcak daldırma galvaniz kaplamasıyla korozyona karşı yüksek direnç sağlar ve uzun ömürlü kullanıma izin verir.

Önceki maddelerde belirtilen sebeplerden dolayı konvansiyonel sistemlere kıyasla %50 ye varan malzeme ve işçilik avantajları sağlanabilir.

Easy, fast and reliable installation with self-threading bolts in the construction site without welding process.

It does not require the use of extra nuts - washers or other items due to its self-threading bolt and provides high self-loosening resistance against vibration with its toothed washer form.

It allows the user make installation revisions easily in case of changes in project and design due to its bolted-connection form and provides minimum material waste.

High corrosion resistance with its standard hot-dip galvanized coating. Therefore, it allows long-term use of product.

Due to the reasons mentioned in the previous articles, it can provide up to 50% material and labor advantages compared to conventional systems.

Hızlı ve kolay kurulum

Quick and very easy to install

Kendinden diş açma özelliğine sahip civatası ile hızlı ve kolay montaj.
Quick and easy installation with self-threading bolt.

Üç ekseninde bağlantı imkanı.
Connection in three-axis.

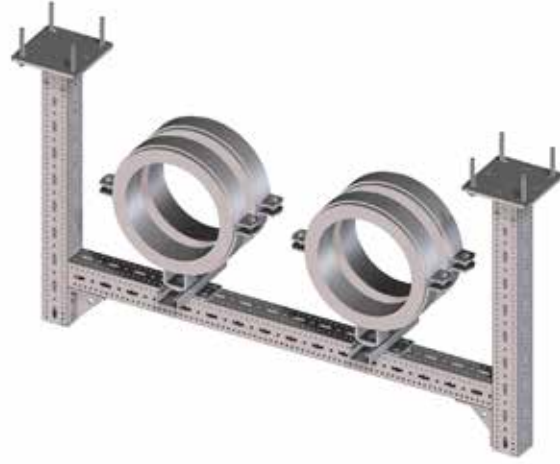


Esnek, modüler ve güçlü

Flexible, modular and strong

Kaynak gerektirmeyen ve demonte edilebilir imalat.
No welding process and demontable installation.

Tüm LINK ürünleri ile uyumludur.
Compatible with all LINK products.



Uygun maliyet

Cost effective

Yüksek kalite daldırma galvaniz kaplaması ile uzun ömür.
Long life due to high quality hot-dipped galvanized coating.

Mühendislik hizmet desteği ile optimum çözüm.
Optimum solution with engineering service.

Güvenli ve iyi

Safe and nice

Kesit formu sayesinde hafif güçlü ve yüksek burulma dayanımlı tasarım.
Lightweight, strong and high torsional capacity design due to section form.

Estetik görünüm.
Eye pleasing view.



Kaplama Standardı Finishes Standard



Elektro galvaniz ISO 2081 Zinc Plated

Güvenilir / *Reliable*
Dayanıklı / *Resistant*
Uygun Maliyetli / *Cost effective*
Estetik / *Aesthetic look*
Bakım gerektirmez. / *No maintenance required.*
Dişli yüzeyler için uygundur. / *Suitable for threaded surfaces.*
Boşluklar ve kenarlar için idealdir, bütünsel kaplama sağlar.
Ideal for gaps and edges, provides holistic coating.
Zamandan tasarruf sağlar. / *Time saving.*
Kendi kendini onarma özelliği / *Self-healing feature*

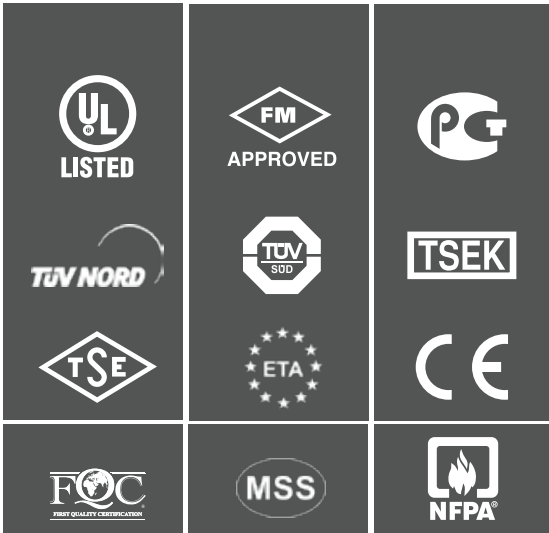


Sıcak daldırma galvaniz EN 1461 Hot dip galvanized

Uzun ömürlü / *Long lasting*
Güvenilir / *Reliable*
Dayanıklı / *Resistant*
Bakım gerektirmez. / *No maintenance required.*
Boşluklar ve kenarlar için idealdir, bütünsel kaplama sağlar.
Ideal for gaps and edges, provides holistic coating.
Zamandan tasarruf sağlar. / *Time saving.*
Kendi kendini onarma özelliği / *Self-healing feature*



Sertifikalar / Certificates



Üretimlerinde ve ithalatlarında öncelikli hedefi kalite olan LINK, tüm ürün gamlarında DW, SMACNA, MSS, UL, FM, NFPA, ANSI-ASHRAE ve TSE gibi hem uluslararası, hem yerel standartlara uygun ürünler üretmektedir.

Bu ürünleri de, GOST, UL, FM, ETA, TÜV, TSE, TSEK, CE belgeleri ile sertifikalandırmakta; İTÜ, GYT, KOSGEB, TUBİTAK-UME gibi ülkemizin önden gelen kamu ya da özel laboratuvarlarında test ettirmekte ve raporlandırmaktadır. Gerektiğinde saha testleri ile ürün yeterliliklerini de ispatlamaktadır.

LINK, which is the primary target quality in its production and imports, produces products that meet both international and local standards such as DW, SMACNA, MSS, UL, FM, NFPA, ANSI-ASHRAE and TSE in all its product ranges.

These products are also certified by GOST, UL, FM, ETA, TÜV, TSE, TSEK, CE documents; İTÜ, GYT, KOSGEB, TUBİTAK-UME in our country's leading public or private laboratories. It also proves product qualifications with field tests when necessary.

Danışmanlık Gücümüz!

Ürün sistemlerimizin birçoğu, kurulum süresini ve dolayısıyla işgücü maliyetlerini azaltmak için yenilikçi anlayış ile tasarlanmıştır. Tüm proje yolculuğu boyunca zamanında lojistik, planlama, projelendirme ve saha yardımına kadar tüm aşamalarda danışmanlık sunmanın karşılığı olarak mükemmel işler başarmak LINK'in en büyük motivasyonudur.

Bir mühendislik projesi sırasında alınacak önemli kararlar ve hassas değerler vardır. Mühendislik ekibimiz, bu projelerdeki müşterilerimizi desteklemek için; tasarım, malzeme, ürün seçimi, montaj ve kullanım konusunda onlara danışmanlık yaparak hizmet anlayışını da farklılaştırmıştır.

Proje desteğimiz şunları içerir:

Projeye özel çözümler
Teknik tasarım hizmeti / 3D tasarımlar
3D Analizler / Hesaplamalar
Danışma ve problem çözme
Yerinde destek /Süpervizörlük
Uygulama kataloğu

Consultancy Power!

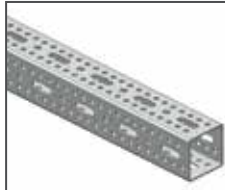
Many of our product systems are designed with innovative insight to reduce the installation time and therefore labor costs. LINK's greatest motivation is to accomplish excellent work by providing timely logistics, planning, projecting and consulting at all stages of the project .

There are important decisions and sensitive values needs to be taken during an engineering project. Our engineering team always supports the customer in design, calculation, product selection, supervising issues.

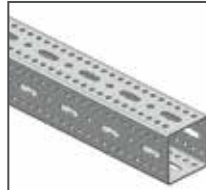
Our project support includes:

*Specific solutions
Technical design service / 3D designs
3D Analysis / Calculations
Consultancy and problem solving
Onsite support / Supervision
Application catalog*





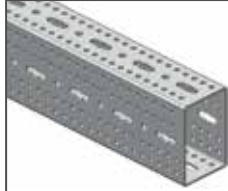
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Sayfa
Page: 10



PMP-100.3
Sayfa
Page: 11



PMP-120.4
Sayfa
Page: 12



PMP-150.4
Sayfa
Page: 13



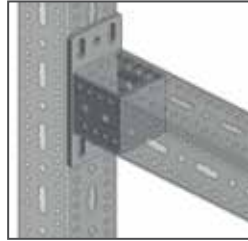
EPKC
Sayfa
Page: 15



PM-HK
Sayfa
Page: 16-17



PM-TTA / PM-TEA
Sayfa
Page: 18



PM-KA
Sayfa
Page: 19



PM-KD
Sayfa
Page: 20-21



PM-MEG
Sayfa
Page: 22



PM-MFS
Sayfa
Page: 22



PM-DDE
Sayfa
Page: 23



PM-KDE
Sayfa
Page: 23



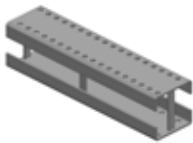
PM-TDE
Sayfa
Page: 23



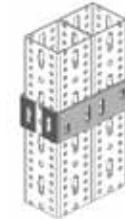
PM-PLT
Sayfa
Page: 24



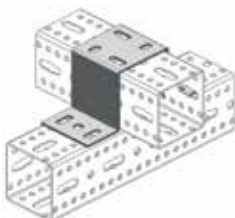
PM-GB
080/100
Sayfa
Page: 25



PM-UK
Sayfa
Page: 26



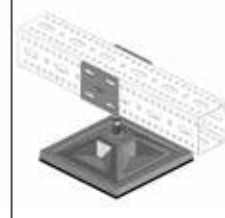
PM-BE
Sayfa
Page: 27



PM-TA
Sayfa
Page: 28



PM-UD
Sayfa
Page: 29



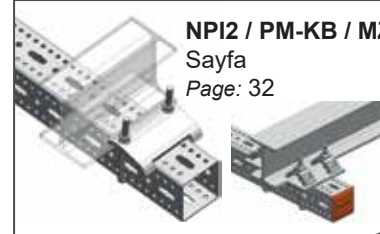
PM-UDP
Sayfa
Page: 29



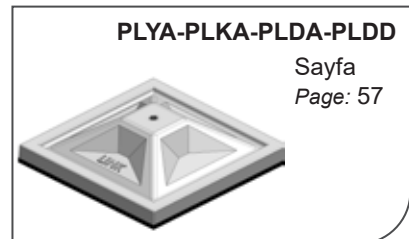
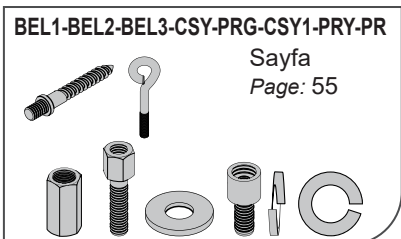
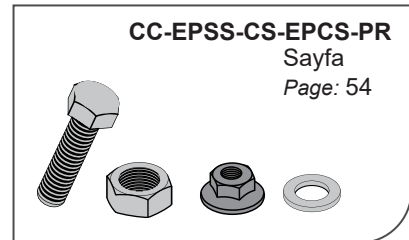
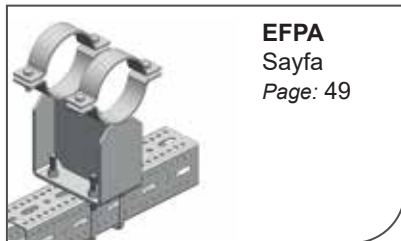
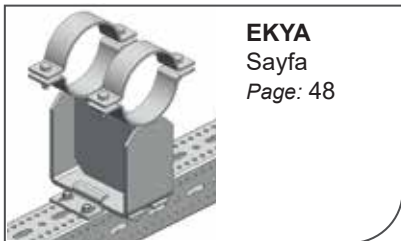
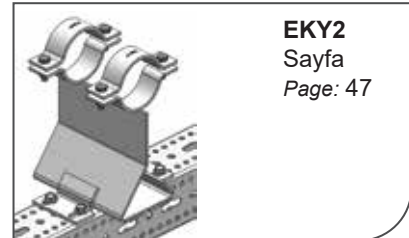
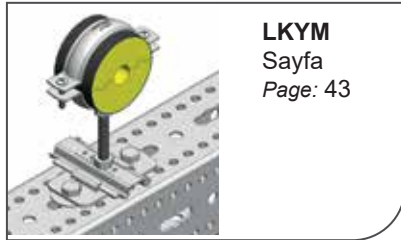
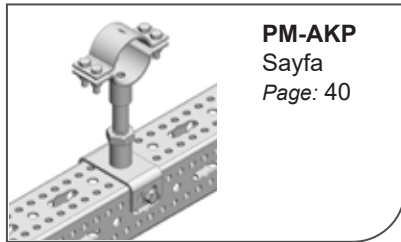
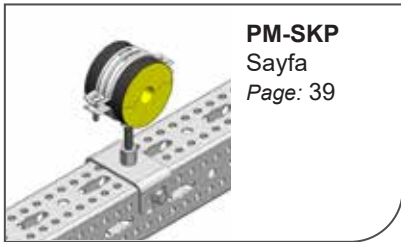
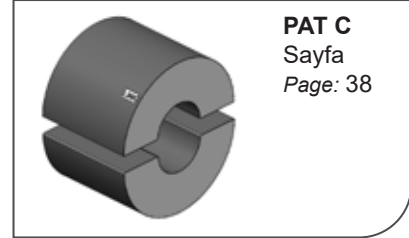
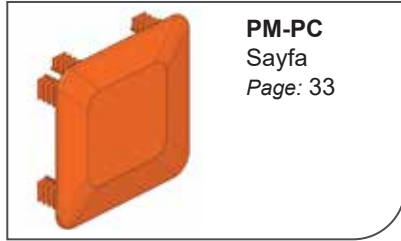
PM-UKP
Sayfa
Page: 30

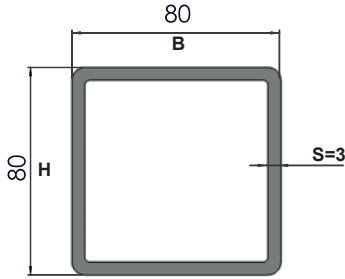
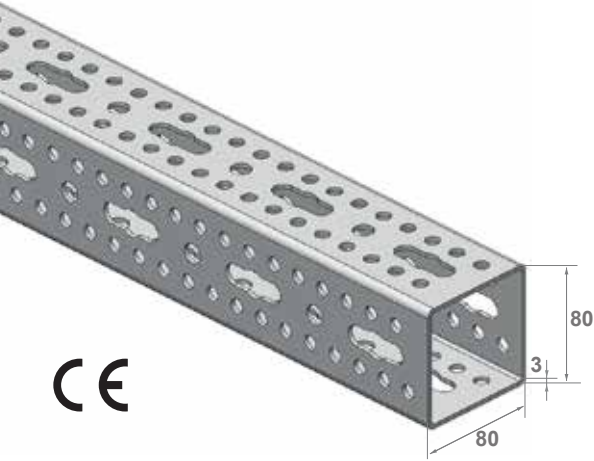


PM-UBB
Sayfa
Page: 31



NPI2 / PM-KB / MZL
Sayfa
Page: 32





Hizmet / Service

Özel tasarımı sayesinde yüksek yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir. *Promega is modular profile system, provide easy installation with self-threading bolt and high load capacity due to its special design.*

Malzeme ve Tipi / Materials and Type:

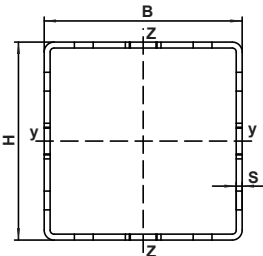
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-080.3	80x80	3	6000



Kesit Özellikleri / Section Properties

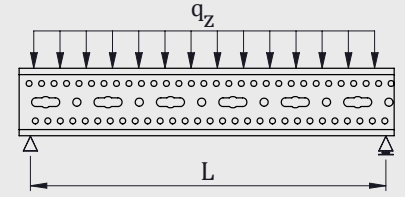
Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modulus (cm ²)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modulus (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
80	80	3	5,74	510,00	35,51	108,82	54,41	54,41	13,60	13,60

■ Kesit özellikleri delikli net kesite göre belirlenmiştir. *The section properties is determined according to the perforated section.*

Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
1000	18,00	18,00
1500	8,00	12,00
2000	3,82	7,64
2500	1,94	4,85
3000	1,10	3,30
3500	0,68	2,38

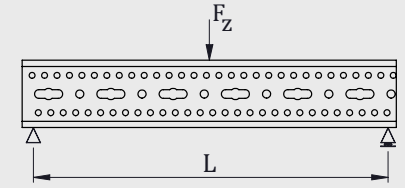
qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L



Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
1000	9,00
1500	6,00
2000	4,44
2500	3,14
3000	2,15
3500	1,54

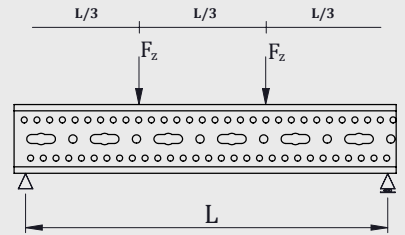
Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2



Çift nokta yük / 2 point loads

Lmax (mm)	Fz, perm kN
1000	6,83
1500	4,50
2000	2,82
2500	1,80
3000	1,21
3500	0,87

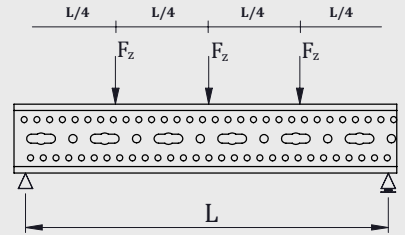
Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3



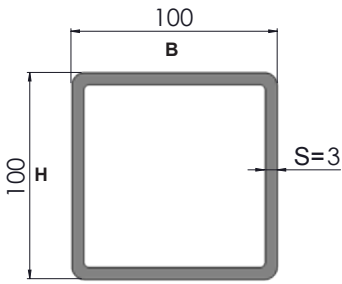
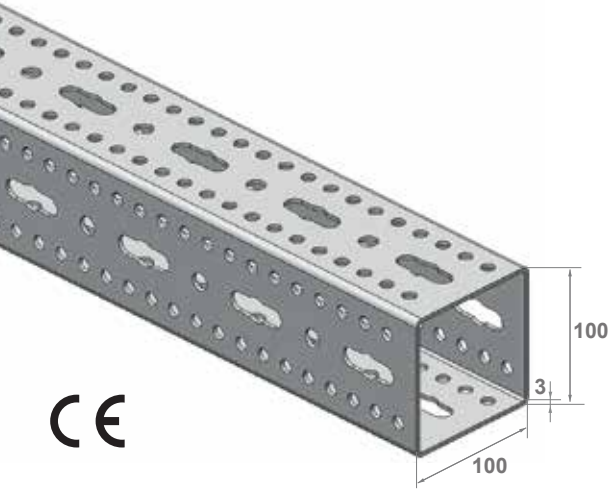
Üç nokta yük / 3 point loads

Lmax (mm)	Fz, perm kN
1000	4,50
1500	3,00
2000	2,00
2500	1,20
3000	0,87
3500	0,60

Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4



- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir. *Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)*
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. / *Self weight considered.*
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. / *Safety factor is taken into account as 1,35.*
- Sehim limit değeri L/200 olarak alınmıştır. / *Deflection limit value is L/200.*



Hizmet / Service

Özel tasarımı sayesinde yüksek yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir. *Promega is modular profile system, provide easy installation with self-threading bolt and high load capacity due to its special design.*

Malzeme ve Tipi / Materials and Type:

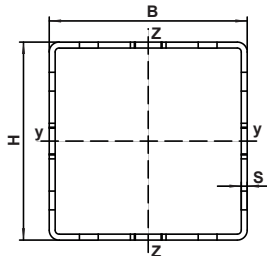
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-100.3	100x100	3	6000



Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
1000	32,00	32,00
2000	8,00	16,00
3000	2,51	7,53
4000	1,03	4,12
5000	0,50	2,50
6000	0,26	1,56

qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L

Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
1000	16,00
2000	7,90
3000	4,70
4000	2,50
5000	1,50
6000	0,99

Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2

Çift nokta yük / 2 point loads

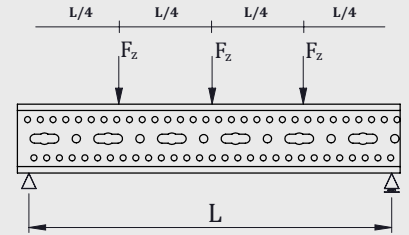
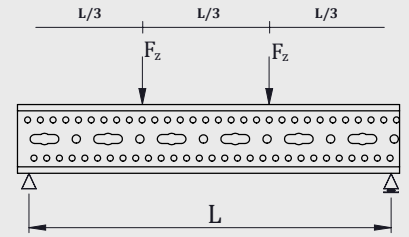
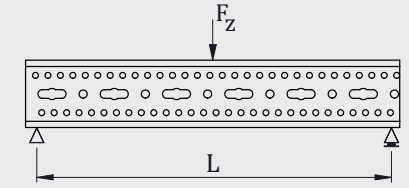
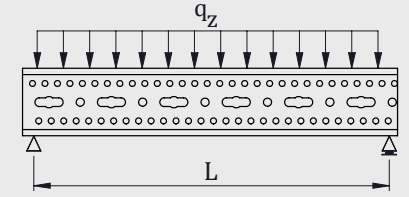
Lmax (mm)	Fz, perm kN
1000	12,00
2000	5,90
3000	2,71
4000	1,52
5000	0,91
6000	0,58

Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3

Üç nokta yük / 3 point loads

Lmax (mm)	Fz, perm kN
1000	8,00
2000	3,90
3000	1,96
4000	1,10
5000	0,65
6000	0,40

Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4

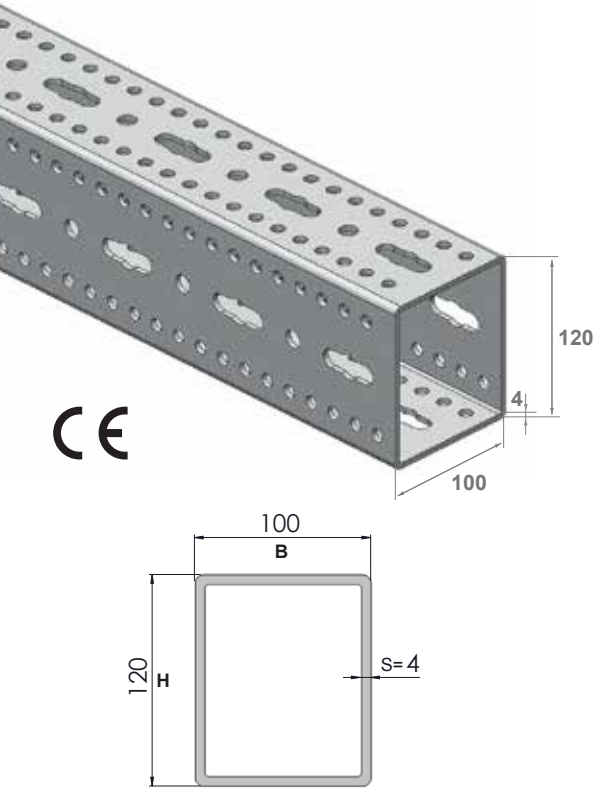


- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir. *Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)*
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. *Self weight considered.*
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. *Safety factor is taken into account as 1,35.*
- Sehim limit değeri L/200 olarak alınmıştır. *Deflection limit value is L/200.*

Kesit Özellikleri / Section Properties

Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modulus (cm ³)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modulus (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
100	100	3	7,3	750,00	56,39	242,23	121,12	121,12	24,22	24,22

- Kesit özellikleri delikli net kesite göre belirlenmiştir. *The section properties is determined according to the perforated section.*



Hizmet / Service

Özel tasarımı sayesinde yüksek yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir. *Promega is modular profile system, provide easy installation with self-threading bolt and high load capacity due to its special design.*

Malzeme ve Tipi / Materials and Type:

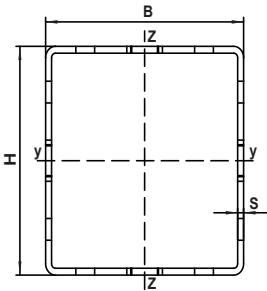
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-120.4	120x100	4	6000



Kesit Özellikleri / Section Properties

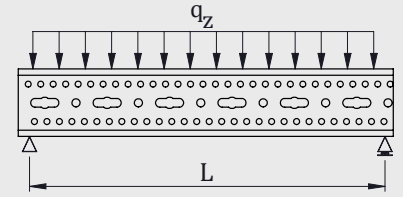
Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modulus (cm ³)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modulus (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
120	100	4	11	1147,00	89,02	435,10	241,92	193,18	40,32	38,64

■ Kesit özellikleri delikli net kesite göre belirlenmiştir. *The section properties is determined according to the perforated section.*

Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
1000	53,00	53,00
2000	13,30	26,60
3000	4,70	14,10
4000	2,00	8,00
5000	0,95	4,75
6000	0,54	3,24

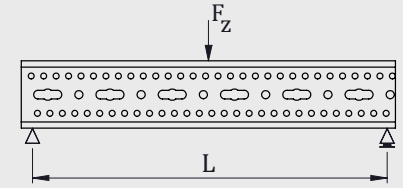
qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L



Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
1000	26,00
2000	13,30
3000	8,08
4000	5,20
5000	3,20
6000	2,10

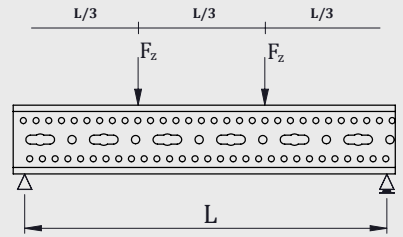
Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2



Çift nokta yük / 2 point loads

Lmax (mm)	Fz, perm kN
1000	20,00
2000	9,90
3000	5,50
4000	3,00
5000	1,80
6000	1,20

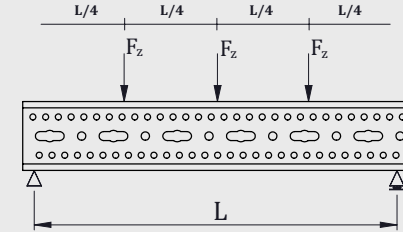
Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3



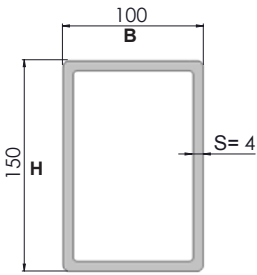
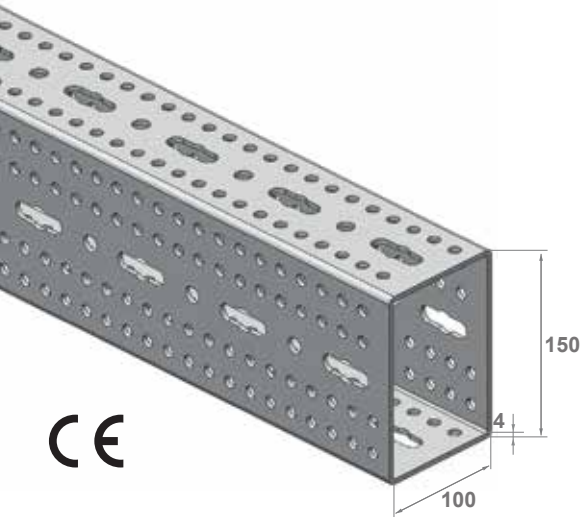
Üç nokta yük / 3 point loads

Lmax (mm)	Fz, perm kN
1000	13,40
2000	6,60
3000	3,90
4000	2,20
5000	1,30
6000	0,86

Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4



- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir. *Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)*
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. *Self weight considered.*
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. *Safety factor is taken into account as 1,35.*
- Sehim limit değeri L/200 olarak alınmıştır. *Deflection limit value is L/200.*



Hizmet / Service

Özel tasarımı sayesinde yüksek yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir.
Promega is modular profile system, provide easy installation with self-threading bolt and high load capacity due to its special design.

Malzeme ve Tipi / Materials and Type:

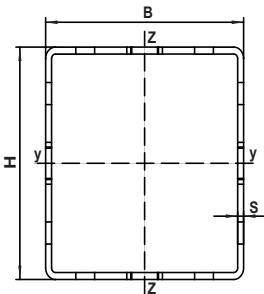
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-150.4	150x100	4	6000



Kesit Özellikleri / Section Properties

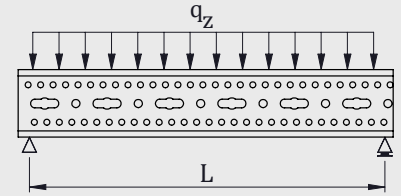
Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modulus (cm ³)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modulus (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
150	100	4	12	1235,00	112,06	618,26	404,80	213,46	53,97	42,69

■ Kesit özellikleri delikli net kesite göre belirlenmiştir.
The section properties is determined according to the perforated section.

Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
1000	71,00	71,00
2000	17,80	35,60
3000	7,90	23,70
4000	3,50	14,00
5000	1,75	8,75
6000	0,97	5,82

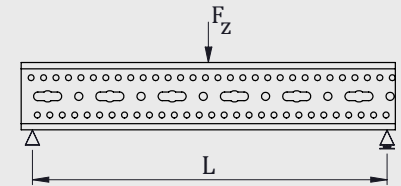
qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L



Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
1000	35,30
2000	17,80
3000	11,60
4000	8,70
5000	5,40
6000	3,60

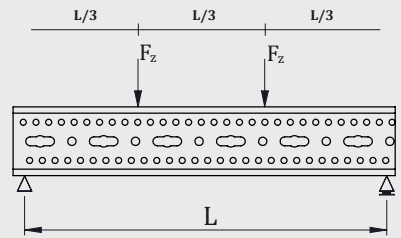
Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2



Çift nokta yük / 2 point loads

Lmax (mm)	Fz, perm kN
1000	26,00
2000	13,30
3000	8,80
4000	5,20
5000	3,10
6000	2,10

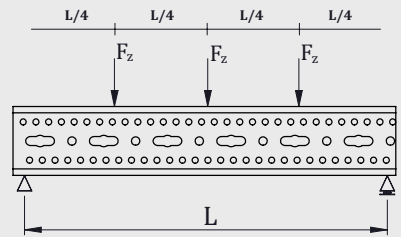
Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3



Üç nokta yük / 3 point loads

Lmax (mm)	Fz, perm kN
1000	17,90
2000	8,90
3000	5,90
4000	3,60
5000	2,30
6000	1,50

Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4



- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir.
Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. / Self weight considered.
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. / Safety factor is taken into account as 1,35.
- Sehim limit değeri L/200 olarak alınmıştır. / Deflection limit value is L/200.

Profil Bağlantı Detayı / Profile Connection Detail

A

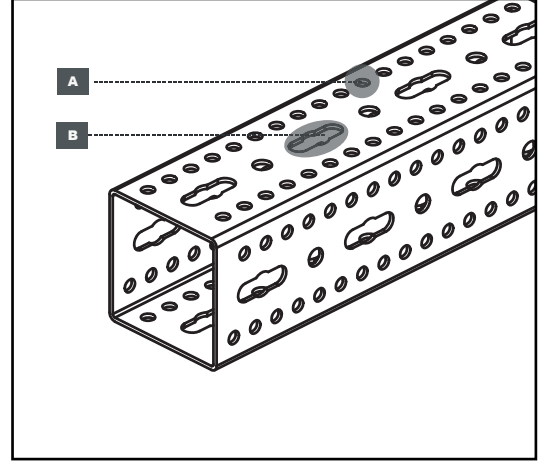
Kendinden diş açma özelliğine sahip cıvata (EPKC), Promega profil yüzeyinin kenarlarında bulunan yuvarlak delikler yardımıyla ($\varnothing 9,5$) konsol bağlantı parçaları, kayar yataklar gibi elemanların bağlantısını sağlar.

The connections of components such as profile fittings and sliding frames can be provided by self-threading bolt (EPKC) which is capable of threading on inner surface of round holes ($\varnothing 9,5$) located on profile's surface.

B

Profilin ortasında bulunan slot delikler sayesinde (18×45) karşıdan karşıya rot bağlantısı ile bağlantı sağlanır.

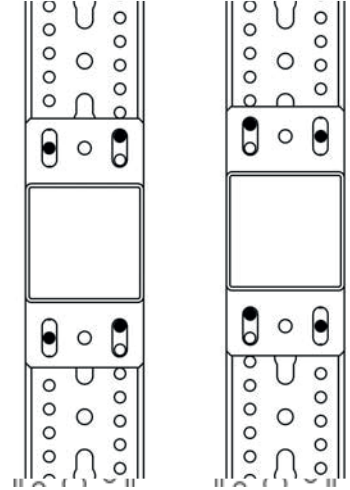
The slot holes in the center of the profile (18×45) allows the connection with rod.



Fittings (Konsol Ayağı vb.) Montajı / Fittings (Past Bases, etc.) Installation

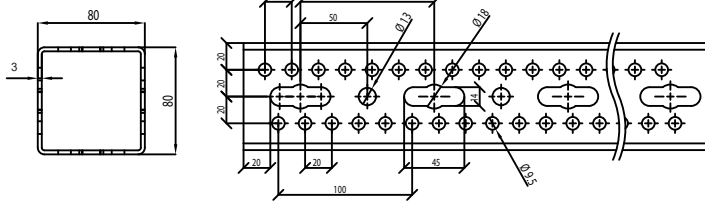
Bağlantı elemanı üzerinde bulunan slot delikler sayesinde düşey eksende sürekli 4 cıvata bağlantısına olanak sağlar.

The slot hole pattern designed specifically on connection fitting provides continuous 4 bolted connection across the vertical entire surface (length) of the profile.

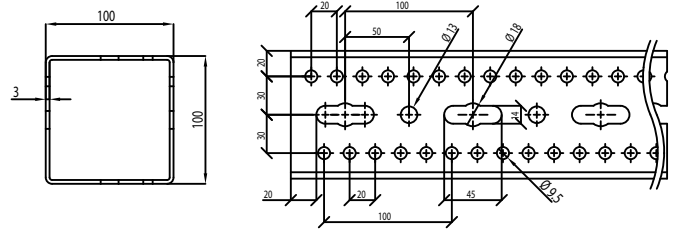


Profil Delik Koordinasyonu / Perforation Pattern of Profile

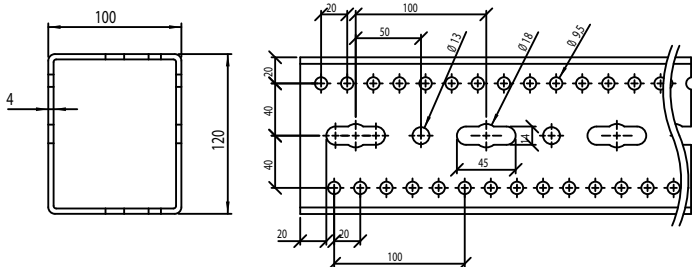
PMP-080.3



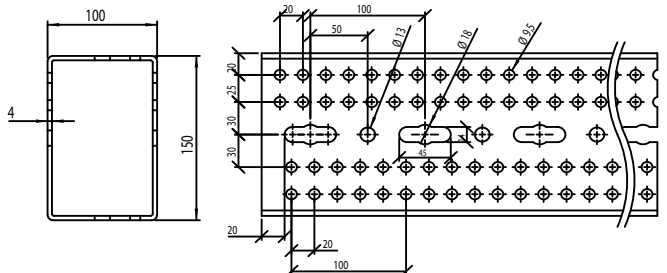
PMP-100.3



PMP-120.4



PMP-150.4



Kolay Cıvata / Easy-to-Install Self-Threading Bolt

EPKC

Hizmet / Service

Özel formu sayesinde delik içerisine, kendinden dış açıp sabitlenen kolay montaj cıvatasıdır.

Easy installation bolt that can create its own thread inside of the hole and provides safe connection due to its special form.

Malzeme ve Tipi / Materials and Type:

Çelik / Steel

Malzeme Sınıf / Material Grade:

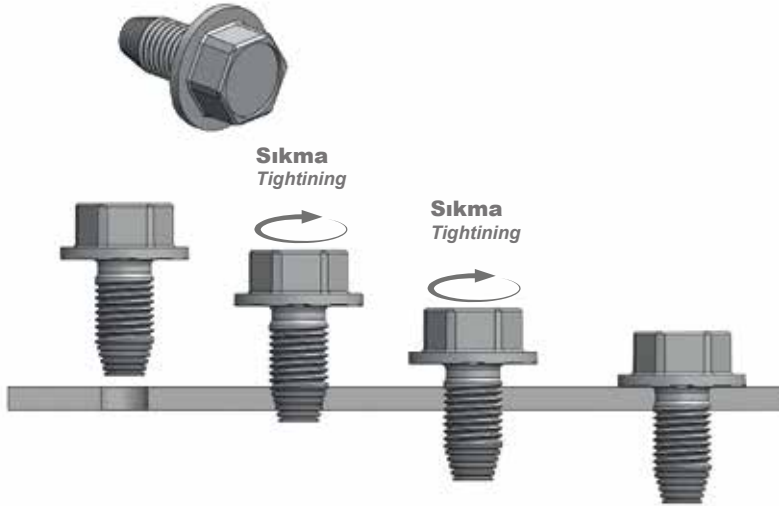
10.9

Standart Kaplama / Coating:

Dacromad / Dacromet

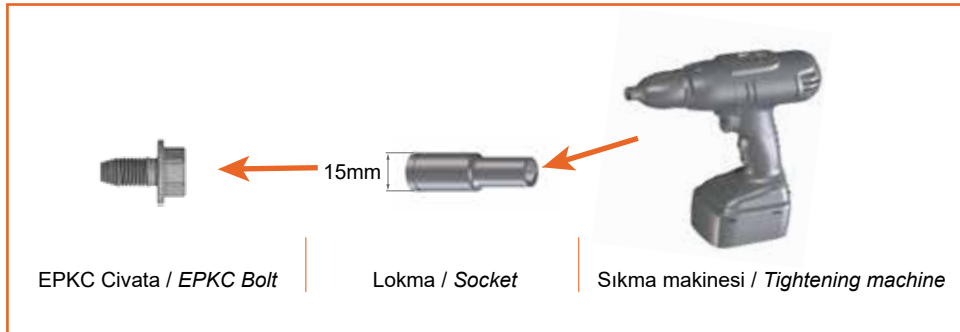
Teknik Bilgi / Technical Data

Kod / Code	Boy / Length (m)
EPKC.1020	M10x20



Cıvata flanşı sac üzerine oturduktan sonra extra sıkma yapılmamalıdır.

*Tightening has to be finished when bolt flange touch sheet metal.
No extra tightening should be made after this contact.*



Hizmet / Service

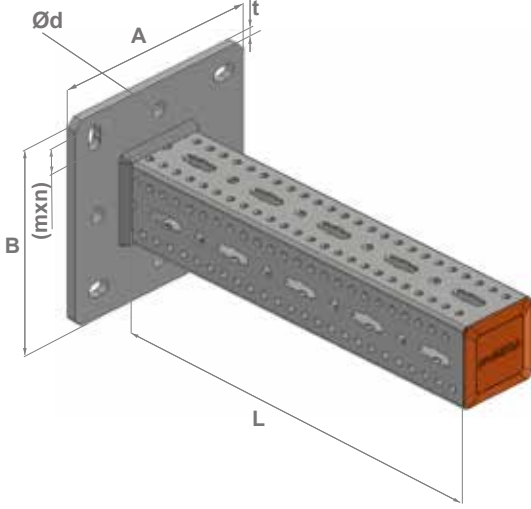
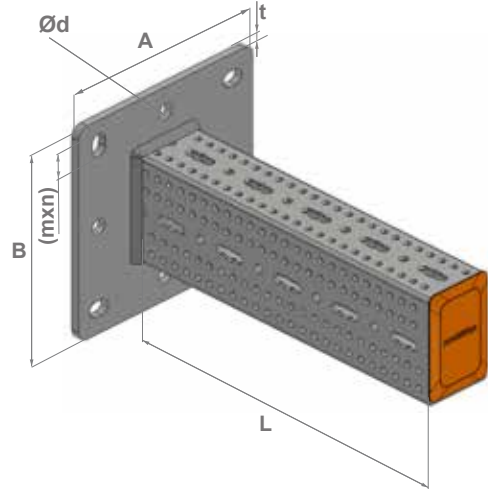
Yapıya bağlantı uygulamalarında kullanılan plaka kaynaklı konsol.
Plate welded support designed for cantilever application.

Malzeme ve Tipi / Materials and Type:

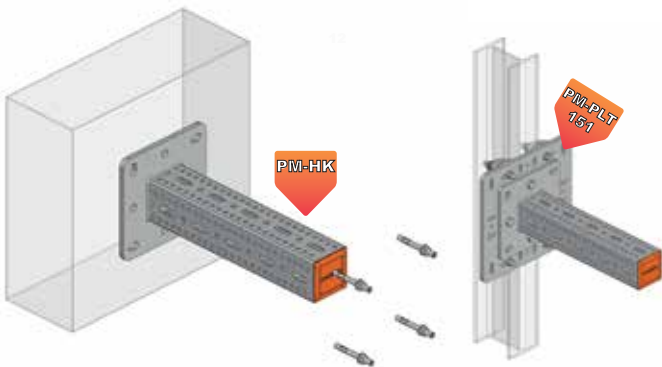
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma dalvaniz
Hot-dip galvanized

PM-HK.080/100/120

PM-HK.150

Teknik Bilgi / Technical Data

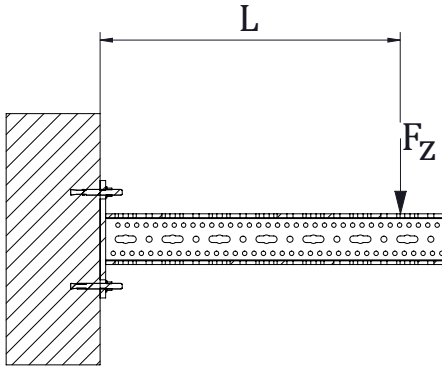
Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Boy / Length (mm)	Profil Tipi / Profile Type
PMHK.080.0500	200	200	10	Ø20	14x25	500	PMP-080.3
PMHK.080.1000	200	200	10	Ø20	14x25	1000	PMP-080.3
PMHK.080.1500	200	200	10	Ø20	14x25	1500	PMP-080.3
PMHK.100.0500	250	250	12	Ø24	18x30	500	PMP-100.3
PMHK.100.1000	250	250	12	Ø24	18x30	1000	PMP-100.3
PMHK.100.1500	250	250	12	Ø24	18x30	1500	PMP-100.3
PMHK.120.0500	250	250	12	Ø24	18x30	500	PMP-120.4
PMHK.120.1000	250	250	12	Ø24	18x30	1000	PMP-120.4
PMHK.120.1500	250	250	12	Ø24	18x30	1500	PMP-120.4
PMHK.150.0500	300	300	12	Ø24	22x32	500	PMP-150.4
PMHK.150.1000	300	300	12	Ø24	22x32	1000	PMP-150.4
PMHK.150.1500	300	300	12	Ø24	22x32	1500	PMP-150.4

Uygulama / Installation

Montaj Detayı / Installation Detail:

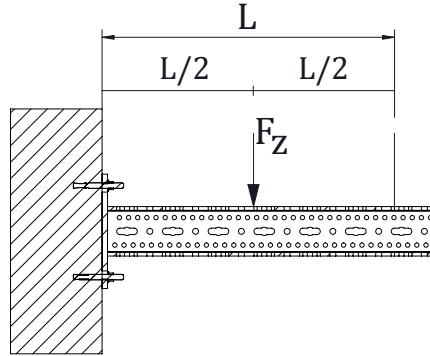
ProMEGA hazır konsol bağlantıları 4 adet kliplsli dübel ile yapılır.
Support is fixed to concrete 4 pcs anchors.

ProMEGA PM-HK Yük Dayanım Tabloları / ProMEGA PM-HK Load Capacity Tables

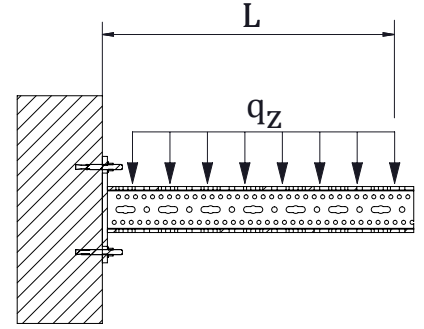
Tek Nokta Yük / Point Load



Orta Yük / Middle Load



Yayıllı Yük / Distributed Load



80x80x3

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
80x80x3	500	4,10	8,20	11,27	5,64
80x80x3	1000	2,24	4,48	3,24	3,24
80x80x3	1500	1,34	2,68	1,32	1,98

100x100x3

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
100x100x3	500	5,35	10,70	14,65	7,33
100x100x3	1000	3,12	6,20	4,20	4,20
100x100x3	1500	1,96	3,92	1,72	2,58

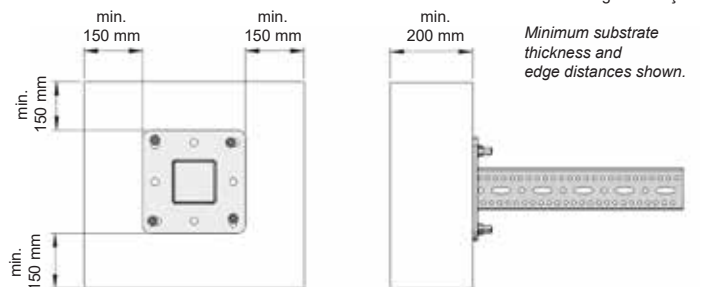
100x120x4

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
100x120x4	500	8,16	16,32	17,2	8,6
100x120x4	1000	4,45	8,90	6,13	6,13
100x120x4	1500	2,64	5,28	2,75	4,13

100x150x4

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
100x150x4	500	9,69	19,38	19,05	9,53
100x150x4	1000	5,28	10,56	6,94	6,94
100x150x4	1500	3,20	6,4	3,72	5,58

- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir.
Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır.
Self weight considered.
- Emniyet faktörü 1,35 olarak hesaba katılmıştır.
Safety factor is taken into account as 1,35.
- Sehim limit değeri L/180 olarak alınmıştır.
Deflection limit value is L/180



Taban ve Tavan Ayağı / Base and Ceiling Support

PM-TTA

Hizmet / Service

Profillerin taban veya tavana bağlanması için tasarlanmıştır.
Designed for connection of profiles to the base or ceiling.

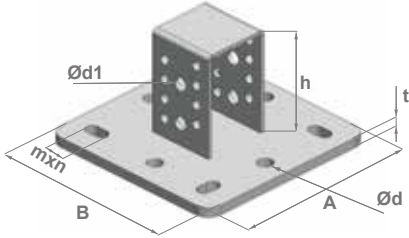
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

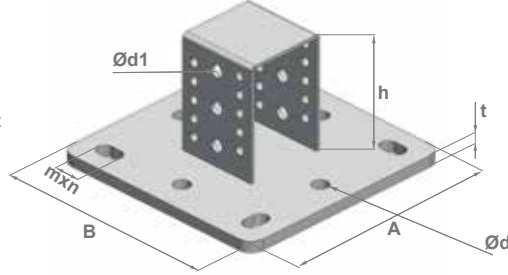
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip Galvanized

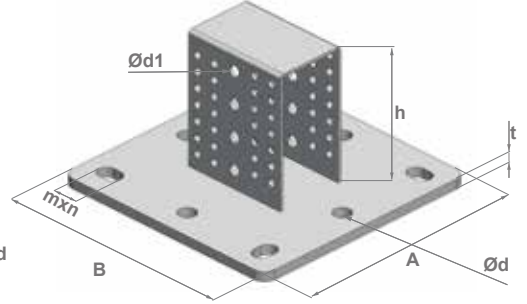
PM-TTA.080



PM-TTA.100 / 120



PM-TTA.150



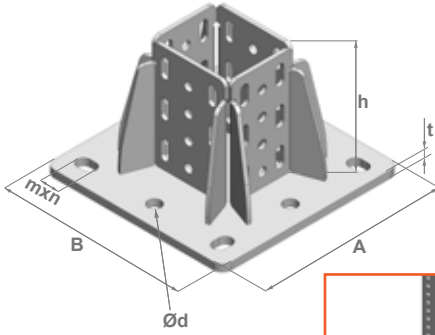
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	Ød1 (mm)	mxn (mm)	h (mm)	Uyumlu Profil Suitable For
PMTTA.080	200	200	10	Ø20	Ø14	14X25	105	PMP-080.3
PMTTA.100	250	250	12	Ø24	Ø14	18X30	125	PMP-100.3
PMTTA.120	250	250	12	Ø24	Ø14	18X30	145	PMP-120.4
PMTTA.150	300	300	12	Ø24	Ø14	22X32	165	PMP-150.4

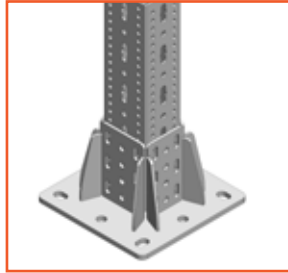
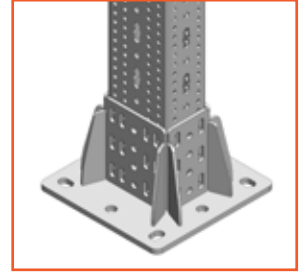
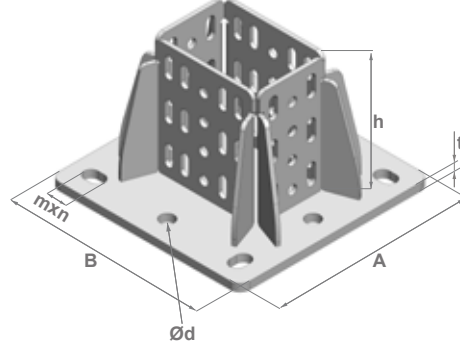
Endüstriyel Tip Taban ve Tavan Ayağı / Industrial Type Base and Ceiling Support

PM-TEA

PM-TEA.120



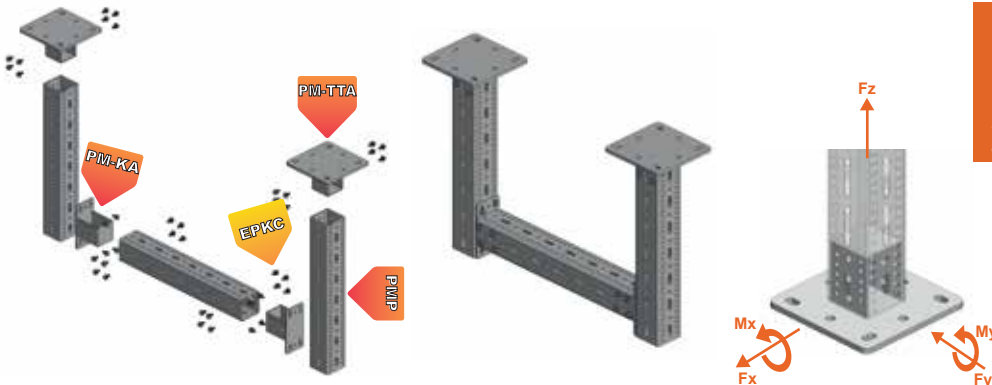
PM-TEA.150



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	Ød1 (mm)	mxn (mm)	h (mm)	Uyumlu Profil Suitable For
PMTEA.120	300	300	15	Ø24	-	22X32	180	PMP-120.4
PMTEA.150	300	300	15	Ø24	-	22X32	180	PMP-150.4

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-TTA ve PM-TEA tavan - taban ayağının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-TTA and PM-TEA base to PMP profile.

PM-TTA.100 Dizaın Yük Kapasitesi Design Load Capacity

MAX. LOAD(KN)	MAX.MOMENT (kNm)
Fx=3.89	Mx=3.08
Fy=42.27	My=0.28
Fz=68.18	-

Yük kapasiteleri TUV-Nord test raporlarına dayanmaktadır.
Load capacities are define by the TUV-Nord test report.

Konsol Bağlantı Braketi / Console Bracket

PM-KA

Hizmet / Service

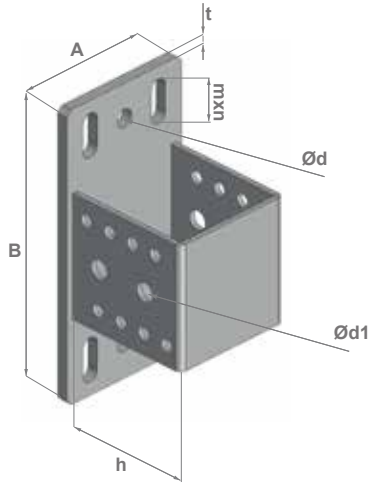
proMEGA konsol ayağı, profillerin birbirine montajı için tasarlanmış, üzerindeki delikler sayesinde kullanılan profiller ile tam uyumlu civatalı imalat sağlayan yapı bağlantı parçalarıdır. Kendi diş açma özelliğine sahip EPKC tipi civatalar ile kullanıma uygundur. Konsol kullanım yeri ve farklı profil tiplerine uygun çeşitleri mevcuttur.

Designed for connection of profile to profile . Direct connection to existing profile with self-threading bolt (EPKC) is possible with the round holes in the base plate. Different types are available in accordance with profile type.

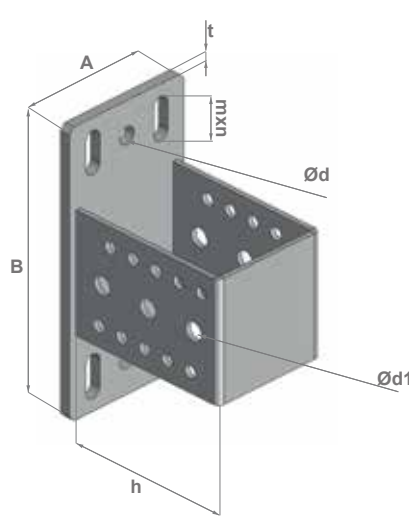
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-KA.080



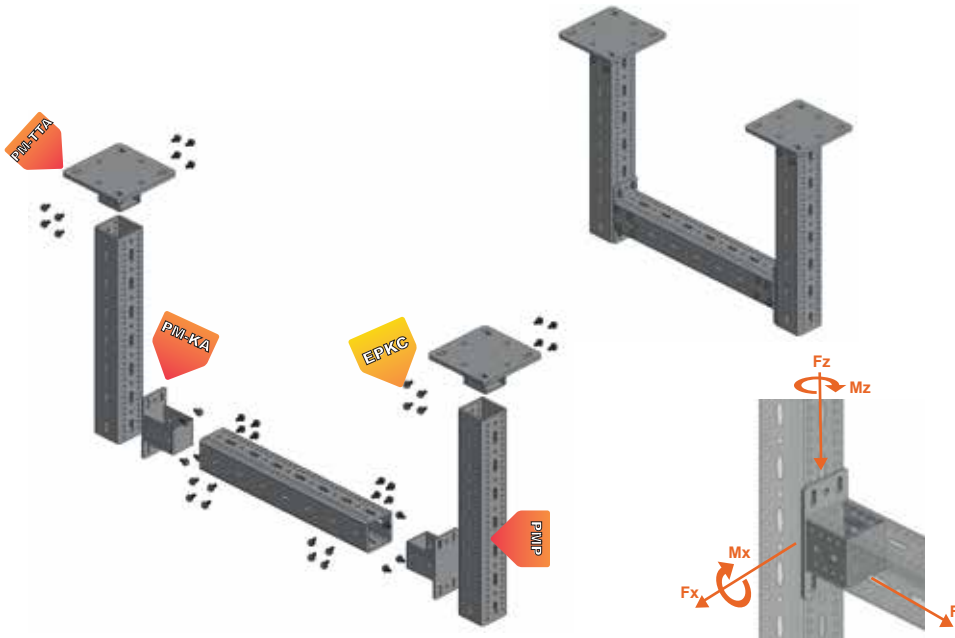
PM-KA.100 / 120



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	Ød1 (mm)	mxn (mm)	h (mm)	Uyumlu Profil / Suitable For
PMKA.080	80	190	6	Ø13	Ø14	11x32	105	PMP-80.3
PMKA.100	100	210	8	Ø13	Ø14	11x32	125	PMP-100.3
PMKA.120	100	230	8	Ø13	Ø14	11x32	145	PMP-120.4

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-KA konsol ayağının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-KA bracket to profile.

PM-KA.100 Dizayn Yük Kapasitesi / Design Load Capacity

MAX. LOAD(KN)	MAX.MOMENT (kNm)
Fx=4.54	Mx=1.66
Fy=20.13	-
Fz=22.74	Mz=0.33

Yük kapasiteleri TUV-Nord test raporlarına dayanmaktadır.
Load capacities are define by the TUV-Nord test report.

Hizmet / Service

Birbirine dik Promega profillerin bağlantısında kullanılan köşe destek elemanıdır. Kendinden dış açma özelliğine sahip EPKC civatalar ile kolay kurulum sağlanmaktadır.

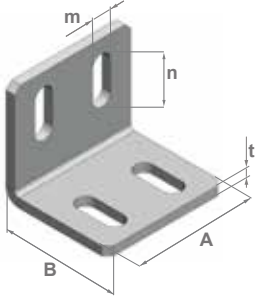
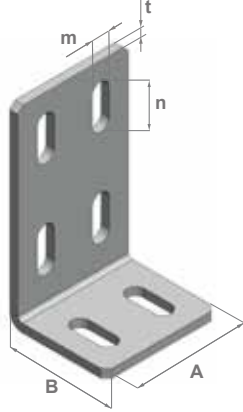
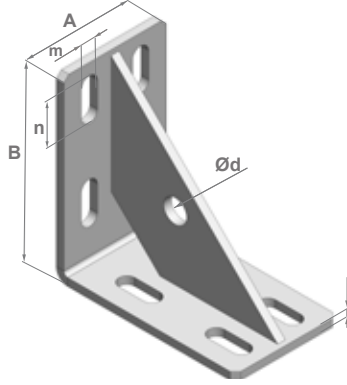
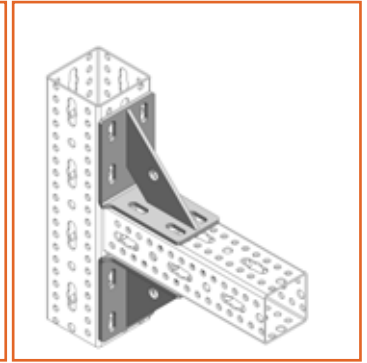
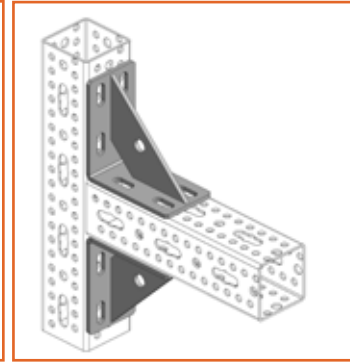
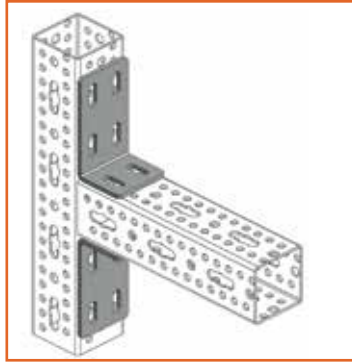
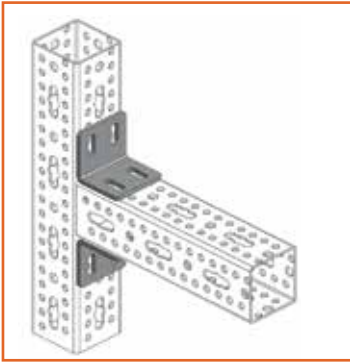
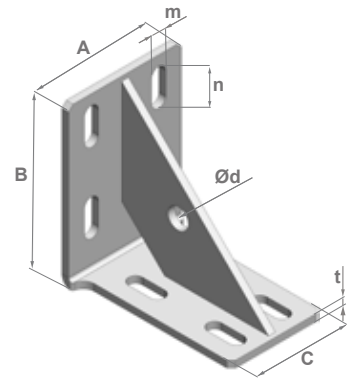
Corner fitting, provides 90° connection of Promega profiles. Easy installation with EPKC self threading bolt.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

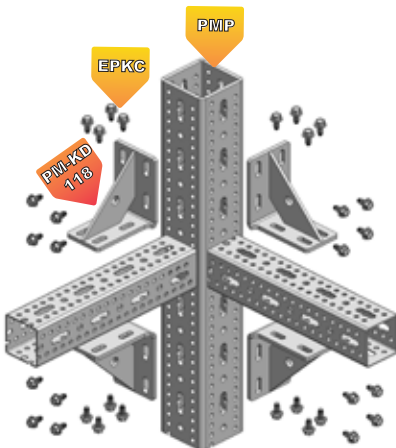
PM-KD.080

PM-KD.081

PM-KD.082

PM-KD.118 (ADAPTÖR)

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMKD.080	80	70	-	6	-	11x32	PMP-80.3
PMKD.081	80	70	-	6	-	11x32	PMP-80.3
PMKD.082	80	140	-	6	Ø18	11x32	PMP-80.3

Geçiş Profili

Transition Profile

PMKD.118	100	140	80	6	Ø18	11x32	PMP-080.3- PMP-100.3
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Uygulama / Installation

Montaj Detayı / Installation Detail:

PM-KD köşe bağlantı parçasının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-KD corner fitting to profile.

Köşe Bağlantı Parçası / Corner Fitting

PM-KD

Hizmet / Service

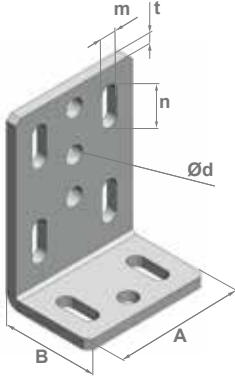
Birbirine dik Promega profillerin bağlantısında kullanılan köşe destek elemanıdır. Kendinden dış açma özelliğine sahip EPKC civatalar ile kolay kurulum sağlanmaktadır.

Corner fitting, provides 90° connection of Promega profiles. Easy installation with EPKC self threading bolt.

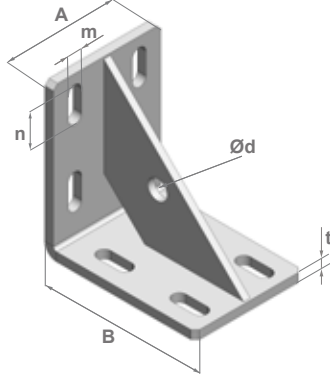
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

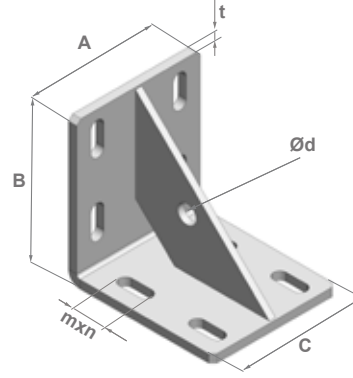
PM-KD.100



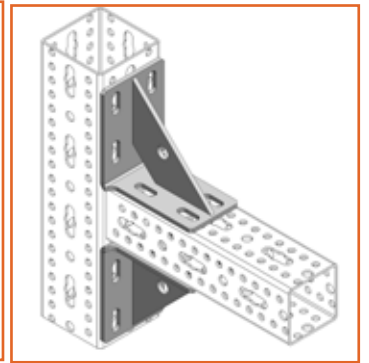
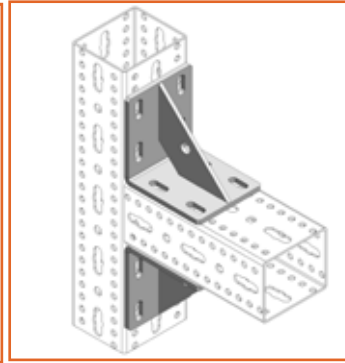
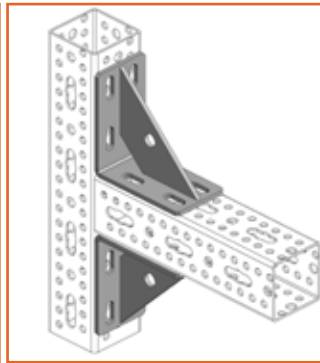
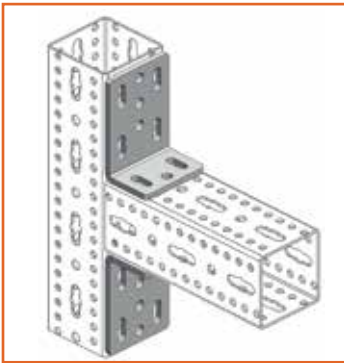
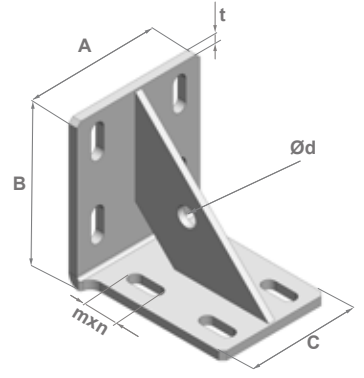
PM-KD.101



PM-KD.120



PM-KD.121 (ADAPTÖR)



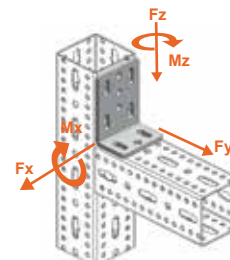
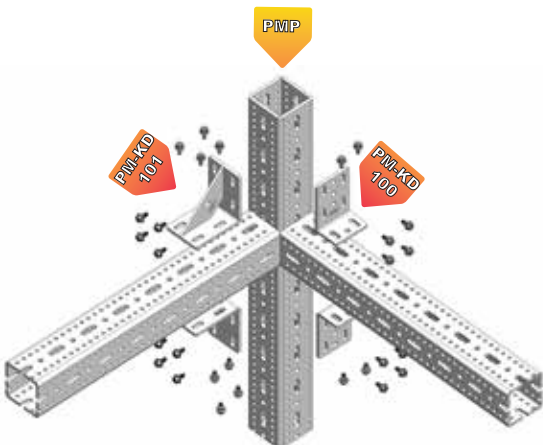
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMKD.100	100	70	-	8	Ø14	11x32	PMP-100.3, PMP-120.4, PMP-150.4
PMKD.101	100	140	-	8	Ø18	11x32	PMP-100.3, PMP-120.4, PMP-150.4
PMKD.120	120	140	120	8	Ø18	11x32	PMP-120.4

Geçiş Profili Suitable For

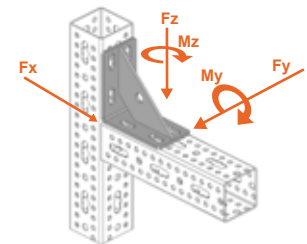
PMKD.121	120	140	100	8	Ø18	11x32	PMP-100.3, PMP-120.4
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Uygulama / Installation



PM-KD.100 Dizayn Yük Kapasitesi
Design Load Capacity

MAX. LOAD(KN)	MAX.MOMENT (kNm)
Fx=21.20	Mx=0.33
Fy=6.33	-
Fz=4.54	Mz=0.95



PM-KD.101 Dizayn Yük Kapasitesi
Design Load Capacity

MAX. LOAD(KN)	MAX.MOMENT (kNm)
Fx=41.97	-
Fy=16.34	My=4.18
Fz=36.36	Mz=1.19

Yük kapasiteleri TUV-Nord test raporlarına dayanmaktadır.
Load capacities are define by the TUV-Nord test report.

Ayarlanabilir Mafsals Ayağı / Adjustable Hinge Fitting

PM-MEG

Hizmet / Service

Promega profillerde açılı destek elemanların bağlantısını sağlayan ara birim elemandır.
It is a fitting that provides connection of angled support Promega profiles

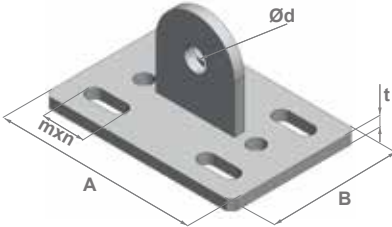
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

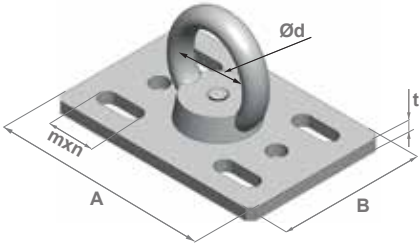
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-MEG.080/100



PM-MEG.081/101



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMEG.080	150	80	6	Ø18	11x32	PMP-080.3
PMMEG.100	150	100	8	Ø18	11x32	PMP-100.3, PMP-120.4, PMP-150.4

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMEG.081	150	80	6	Ø38	11x32	PMP-080.3
PMMEG.101	150	100	8	Ø38	11x32	PMP-100.3, PMP-120.4, PMP-150.4

Ayarlanabilir Mafsals Ayağı / Adjustable Hinge Fitting

PM-MFS

Hizmet / Service

ProMEGA profillerinde açılı destek elemanların bağlantısını sağlayan ara birim elemandır.
It is a fitting that provides connection of angled Promega profiles.

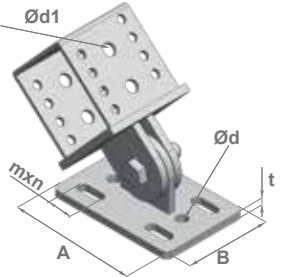
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

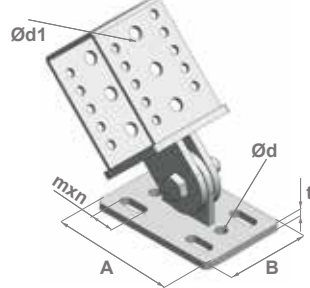
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

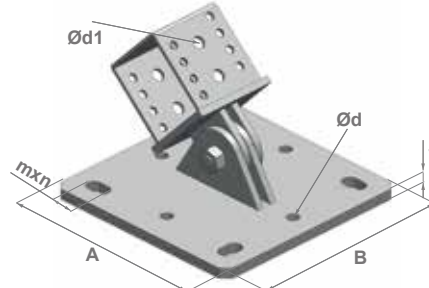
PM-MFS.080



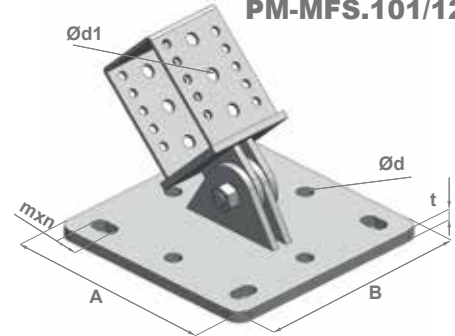
PM-MFS.100/120



PM-MFS.081



PM-MFS.101/121



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	Ød1 (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMFS.080	150	80	6	Ø13	Ø14	11x32	PMP-080.3
PMMFS.081	200	200	10	Ø20	Ø14	14x25	PMP-080.3
PMMFS.100	150	100	8	Ø13	Ø14	11x32	PMP-100.3
PMMFS.101	250	250	12	Ø24	Ø14	18x30	PMP-100.3
PMMFS.120	150	100	8	Ø13	Ø14	11x32	PMP-120.4
PMMFS.121	250	250	12	Ø24	Ø14	18x30	PMP-120.4

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-MEG ve PM-MFS ayarlanabilir mafsals ayaklarının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-MEG and PM-MFS adjustable hinge fittings to profile.



Plaka Tipi Bağlantı Parçası / Plate Fitting

PM-DDE

Hizmet / Service

Promega profillerin birbiriyle bağlantısında kullanılmak üzere tasarlanmıştır.
Designed to be used in connections of Promega profile.

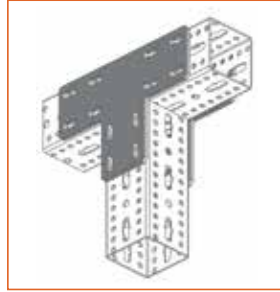
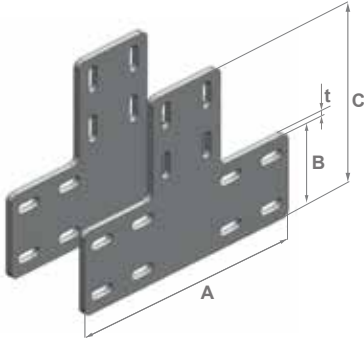
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-DDE.080/100/120



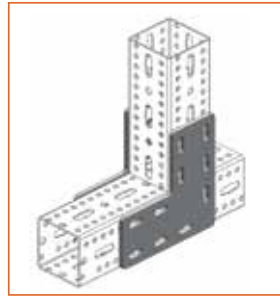
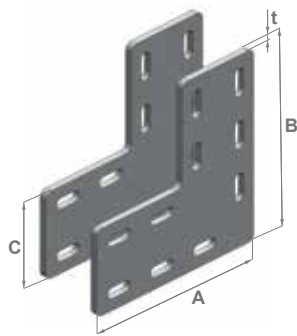
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Uyumlu Profil Suitable For
PMDDE.080	300	80	200	6	PMP-080.3
PMDDE.100	300	100	220	8	PMP-100.3
PMDDE.120	320	120	260	8	PMP-120.4

Plaka Tipi Bağlantı Parçası / Plate Fitting

PM-KDE

PM-KDE.080/100/120



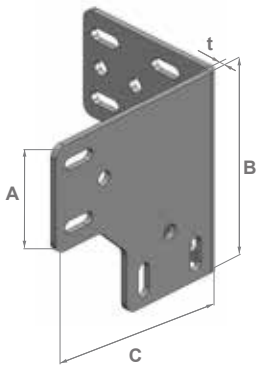
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Uyumlu Profil Suitable For
PMKDE.080	200	200	80	6	PMP-080.3
PMKDE.100	220	220	100	8	PMP-100.3
PMKDE.120	240	240	120	8	PMP-120.4

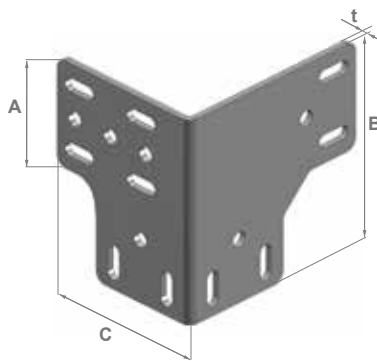
Toplayıcı Köşe Elemanı / Outer Corner Fittings

PM-TDE

PM-TDE.080/100



PM-TDE.081/101

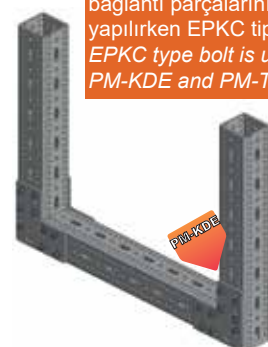
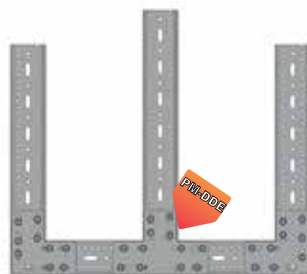


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Uyumlu Profil Suitable For
PMTDE.080	80	190	170	6	PMP-080.3
PMTDE.081	80	190	170	6	PMP-080.3
PMTDE.100	100	190	190	6	PMP-100.3
PMTDE.101	100	190	190	6	PMP-100.3



Uygulama / Installation



Montaj Detayı / Installation Detail:
PM-DDE, PM-KDE ve PM-TDE plaka tipi bağlantı parçalarının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-DDE, PM-KDE and PM-TDE plate fittings to profile.

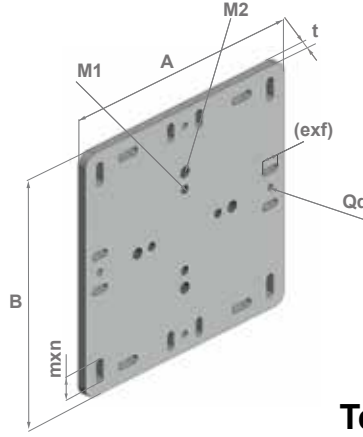
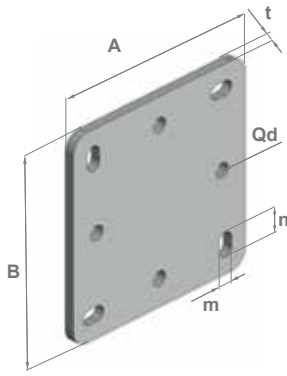
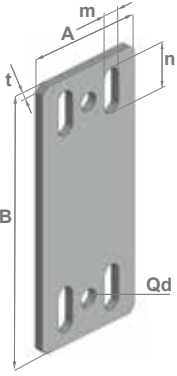
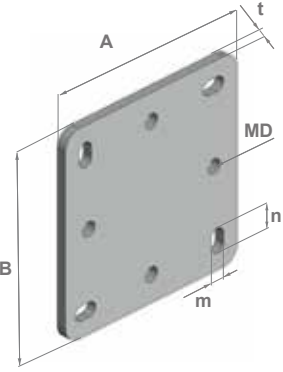
Hizmet / Service

Promega profillerinin yapı ile bağlantısında kullanılmak için tasarlanmış ara birim elemanlarıdır. Slot delikleri sayesinde tüm zemin ve yapı gruplarına uyum sağlayacak şekilde tasarlanmıştır.

*Designed as an interface components for use between building and Promega profiles.
Slot holes allow flexible connection.*

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-PLT.081/101
PM-PLT.080/100/150
PM-PLT.151

PM-PLT.082/102/152


- PM-PLT.082/102/152 Plakalar, zeminden kaynaklanan kot farkının ayarlanması için kullanılmaktadır.
PM-PLT.082/102/152 plates are used for managing for different floor height.

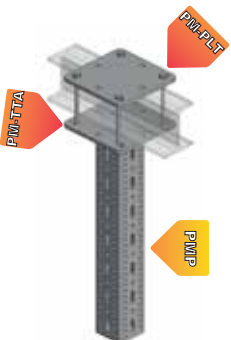
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMPLT.081	80	190	6	Ø13	11x32	PMP-080.3
PMPLT.101	100	210	8	Ø13	11x32	PMP-100.3

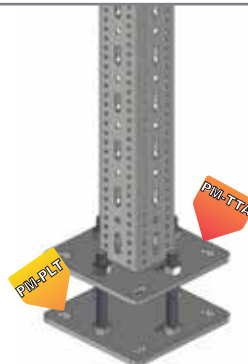
Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMPLT.080	200	200	10	Ø20	14x25	PMP-080.3
PMPLT.100	250	250	12	Ø18	18x30	PMP-100.3, PMP-120.4
PMPLT.150	300	300	12	Ø22	22x32	PMP-150.4

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	M1	M2	mxn (mm)	exf	Uyumlu Profil Suitable For
PMPLT.151	420	420	15	Ø13	M16	M20	18x40	11x32	PMP-100.3, PMP-120.4 PMP-150.4

Kod / Code	A (mm)	B (mm)	t (mm)	MD	mxn (mm)	Uyumlu Profil Suitable For
PMPLT.082	200	200	10	M16	14x25	PMP-080.3
PMPLT.102	250	250	12	M20	18x30	PMP-100.3, PMP-120.4
PMPLT.152	300	300	12	M20	22x32	PMP-150.4

Uygulama / Installation


Montaj Detayı / Installation Detail:
PM-PLT ürünleri saplama ile Promega profillerin yapı profiline bağlantısında kullanılır.
PM-PLT plates can be used for connection of Promega profile to structural profile with threaded rod.



Montaj Detayı / Installation Detail:
PM-PLT.082/102/152 plaka ürünleri üzerinde bulunan dış açılmış delikler sayesinde rot yardımı ile yükseklik ayarı yapmanızı sağlar.
PM-PLT.082/102/152 plates are allow adjusting to height with threaded rods and threaded holes system.

G Profil Adaptörü / G Profile Adaptor

PM-GB

Hizmet / Service

Hafif ve orta seri G profillerin proMEGA ürünleri ile birlikte kullanılmasını sağlamak amacıyla tasarlanmış bağlantı parçalarıdır. proMEGA ürünleri ile yapılan konsollarda hafif ve orta yük sınıfı sistemlerin daha ekonomik çözümlerle taşınmasını sağlamaktadır.

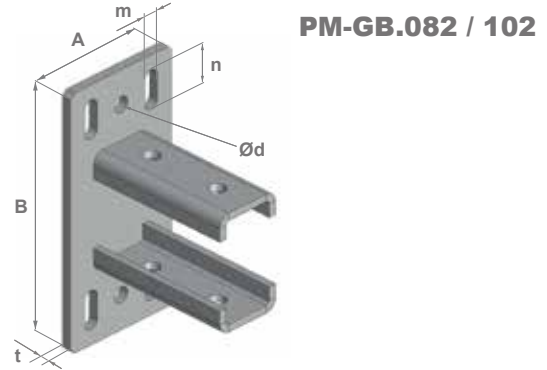
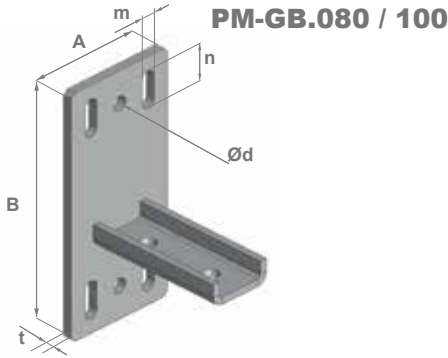
Designed to enable use of light and medium series G profiles in combination with proMEGA products. Light and medium load class systems are supported with more economical solutions in supports designed with proMEGA products.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

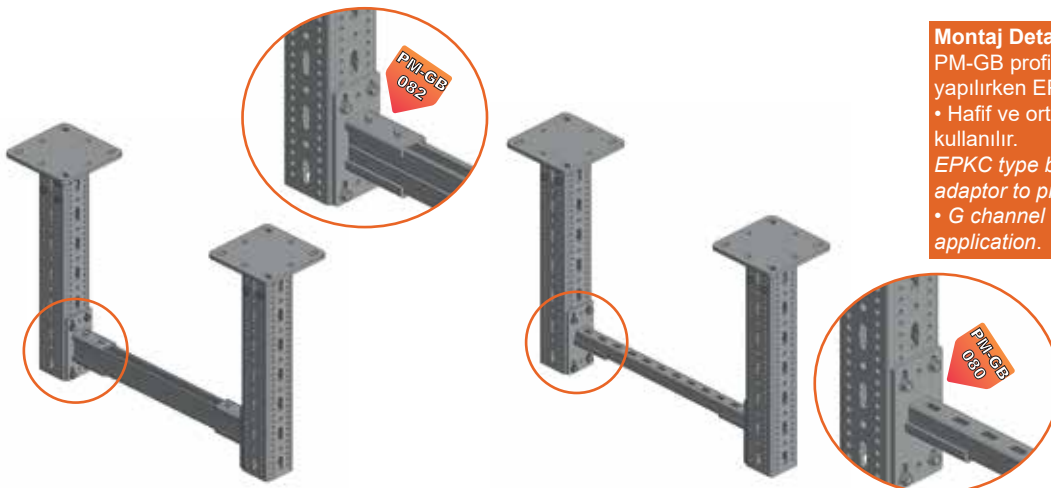
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Promega Profil Suitable For Promega	Uyumlu Prolink G Profil Suitable For Prolink G
PMGB.080	80	190	6	Ø13	11x32	PMP-080.3	PLG 41x41
PMGB.082	80	190	6	Ø13	11x32	PMP-080.3	PLG 41x82
PMGB.100	100	210	8	Ø13	11x32	PMP-100.3, PMP-120.4, PMP-150.4	PLG 41x41
PMGB.102	100	210	8	Ø13	11x32	PMP-100.3, PMP-120.4, PMP-150.4	PLG 41x82

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-GB profil adaptörünün profile montajı yapılırken EPKC tipi civata kullanılır.

• Hafif ve orta sınıf yük taşıyan G profiller ile kullanılır.

EPKC type bolt is used to fix PM-GB channel adaptor to profile.

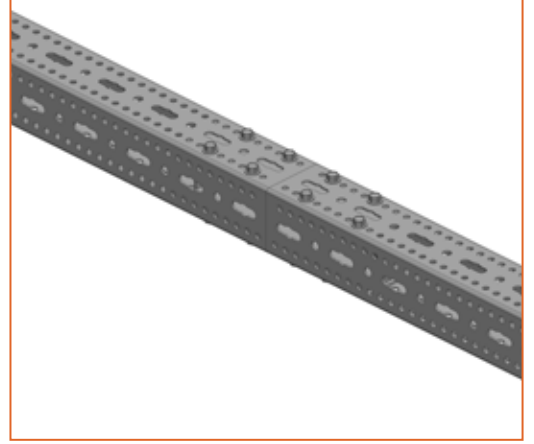
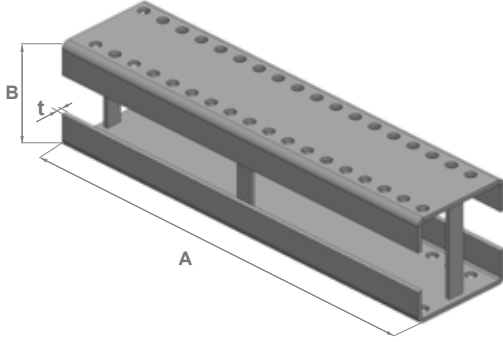
• G channel is for medium and light duty application.

Hizmet / Service

Promega profillerin aksel bağlantısı için tasarlanmıştır.
Designed to be used for axial connections of Promega profile.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

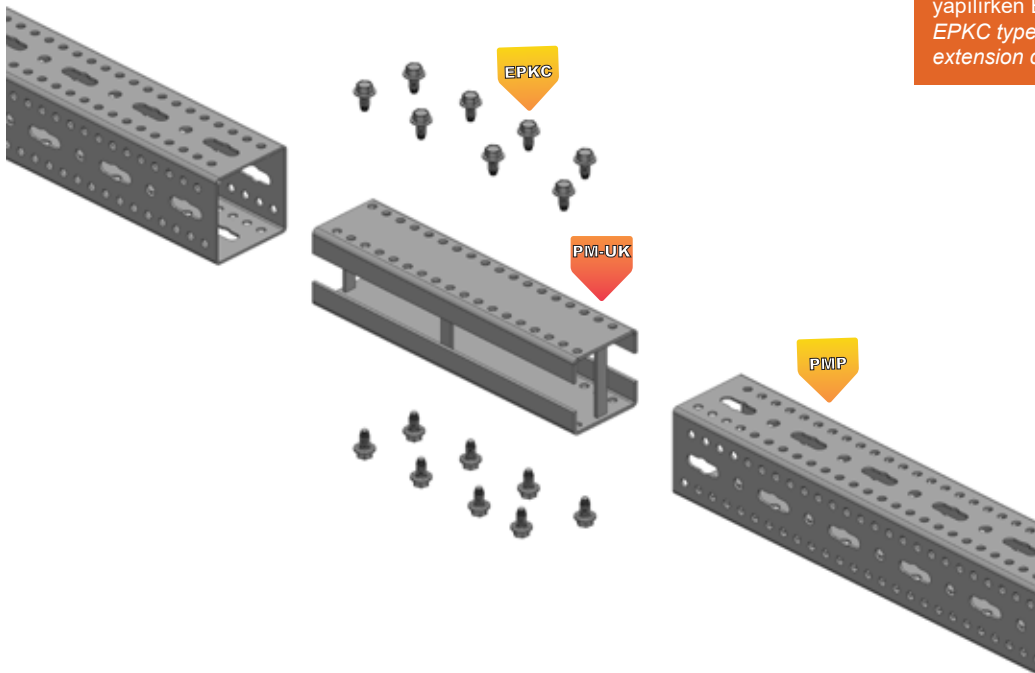
Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Uyumlu Profil Suitable For
PMUK.080	367	70	4	PMP-80.3
PMUK.100	367	90	4	PMP-100.3
PMUK.120	367	110	4	PMP-120.4
PMUK.150	367	140	4	PMP-150.4

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-UK uzatma kaplininin profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-UK extension coupling.

Birleştirme Elemanı / Joint Fitting

PM-BE 100

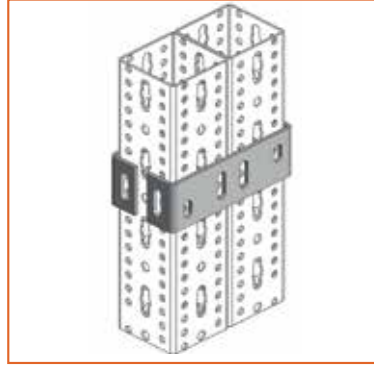
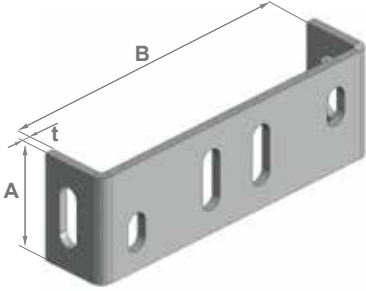
Hizmet / Service

Promega profillerinin paralel bağlantısı için tasarlanmıştır.
Designed to be used for parallel connections of promega profile.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PMBE.100



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Uyumlu Profil Suitable For
PMBE.100	70	200	6	PMP-100.3

Set halinde satılmaktadır.
Set içeriğinde 2 adet PM-BE ürünü bulunmaktadır.
Sales is sets.
One set includes two PM-BE products.

Birleştirme Elemanı / Joint Fitting

PM-BE 101/102

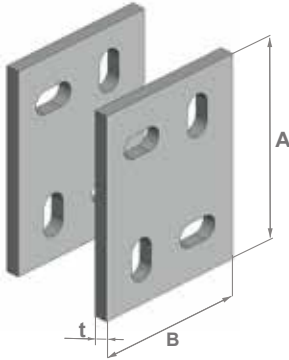
Hizmet / Service

Promega profillerin birleştirilmesini sağlamak için dizayn edilmiştir.
Designed to combine Promega profiles.

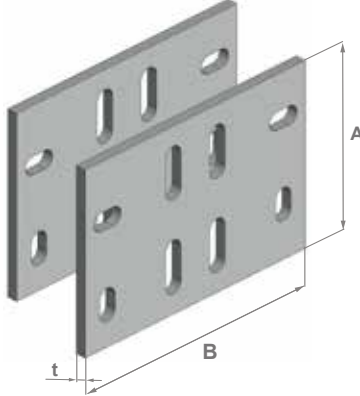
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PMBE.101



PMBE.102

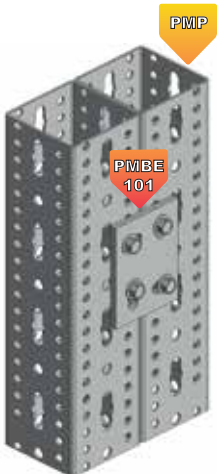


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Uyumlu Profil Suitable For
PMBE.101	120	90	4	TÜM PROFİLLER / ALL
PMBE.102	140	200	4	PMP-100.3

Set halinde satılmaktadır.
Set içeriğinde 2 adet PM-BE ürünü bulunmaktadır.
Sales is sets.
One set includes two PM-BE products.

Uygulama / Installation



Montaj Detayı / Installation Detail:
PM-BE birleştirme elemanının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-BE joining fitting.

U Bağlantı Atkısı / U Shape Fitting

PM-TA

Hizmet / Service

Promega profillerinin birbirleriyle 90 derece açı ile yapmış olduğu bağlantılarda kullanılmak üzere tasarlanmış birleştirme parçalarıdır. Uygun yapı sistemlerinde Promega profillerinin taban plakası kullanılmadan yüzeye paralel olarak bağlantı yapmasını sağlamaktadır.

Designed for 90 degree connection of Promega profiles. In suitable construction systems, the profiles are connected in parallel with the surface without using a base plate.

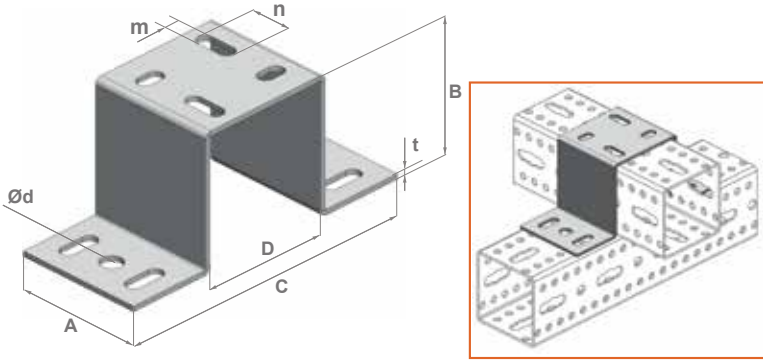
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PMTA.080/100/120/150



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	D (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil / Suitable For
PMTA.080	80	85	200	80	4	Ø13	11x32	PMP-080.3
PMTA.100	100	105	240	100	4	Ø13	11x32	PMP-100.3
PMTA.120	100	105	260	120	6	Ø13	11x32	PMP-120.4
PMTA.150	100	105	280	150	6	Ø13	11x32	PMP-150.4

U Bağlantı Bazası / U Sidewall Connection Base

PM-TA

Hizmet / Service

Promega profillerinin duvar yanına bağlantısında kullanılmak üzere tasarlanmıştır.

Designed for sidewall connection of Promega Profiles.

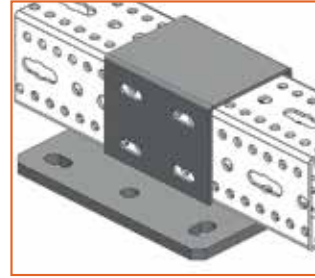
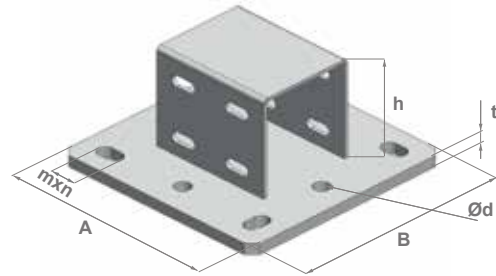
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

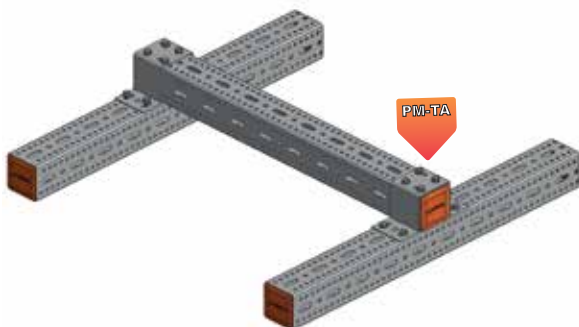
PMTA.081/101/121/151



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	h (mm)	Uyumlu Profil / Suitable For
PMTA.081	200	200	10	Ø20	14x25	86	PMP-080.3
PMTA.101	250	250	12	Ø24	18x30	106	PMP-100.3
PMTA.121	250	250	12	Ø24	18x30	128	PMP-120.4
PMTA.151	300	300	12	Ø24	22x32	158	PMP-150.4

Uygulamalar / Installation



Montaj Detayı / Installation Detail:

PM-TA U bağlantı atkısının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-TA U Shape Fitting

Polimer Beton Ayak U Destek Elemanı / Polymer Concrete Base U Support Fitting **PM-UD**

Hizmet / Service

Promega profillerinin Polimer beton ayaklara bağlantısı için tasarlanmıştır.
Designed for the connection of Promega profiles to polymer concrete base.

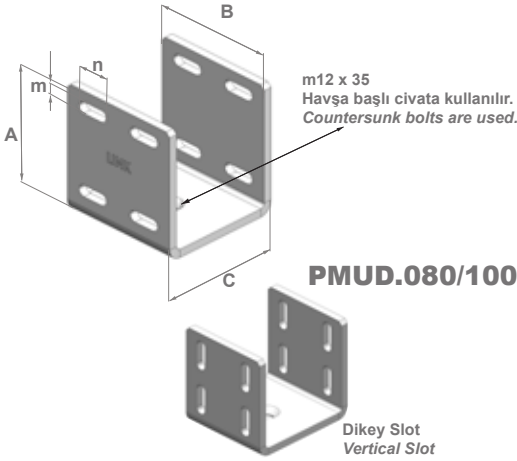
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

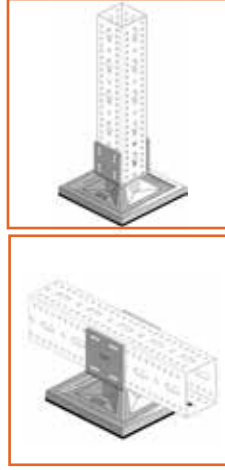
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PMUD.080.1/100.1/120.1



PMUD.080/100/120



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMUD.080	90	100	83	4	11x32	PMP-080.3
PMUD.080.01	82	100	83	4	11x32	PMP-080.3
PMUD.100	110	100	103	4	11x32	PMP-100.3
PMUD.100.01	102	100	103	4	11x32	PMP-100.3
PMUD.120	130	120	103	4	11x32	PMP-120.4
PMUD.120.01	124	120	103	4	11x32	PMP-120.4

Ayarlanabilir U Destek Elemanı Ayak / Adjustable Base with U Support Fitting **PM-UDP**

Hizmet / Service

Promega profillerinin Polimer beton ayaklara ve yükseltilmiş döşeme ayaklarına, ayarlanabilir yüksekliklerde bağlantısı için tasarlanmıştır.
Designed for the connection of Promega profiles to polymer concrete base and raised floor base with adjustable height.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

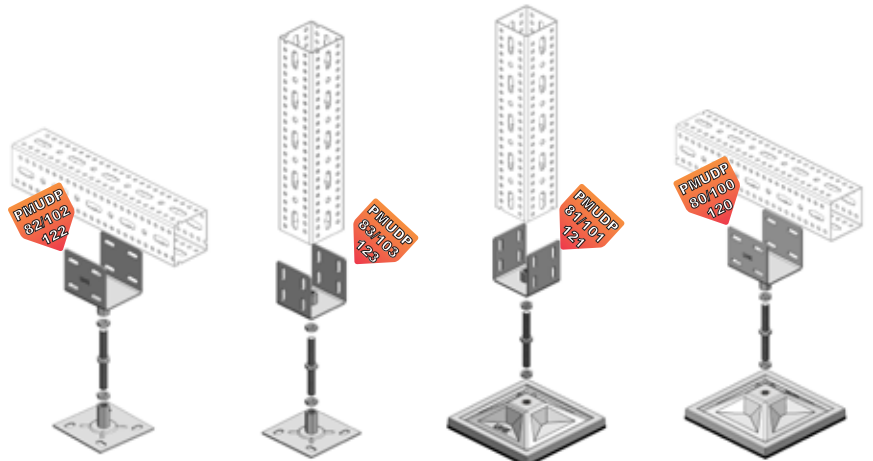
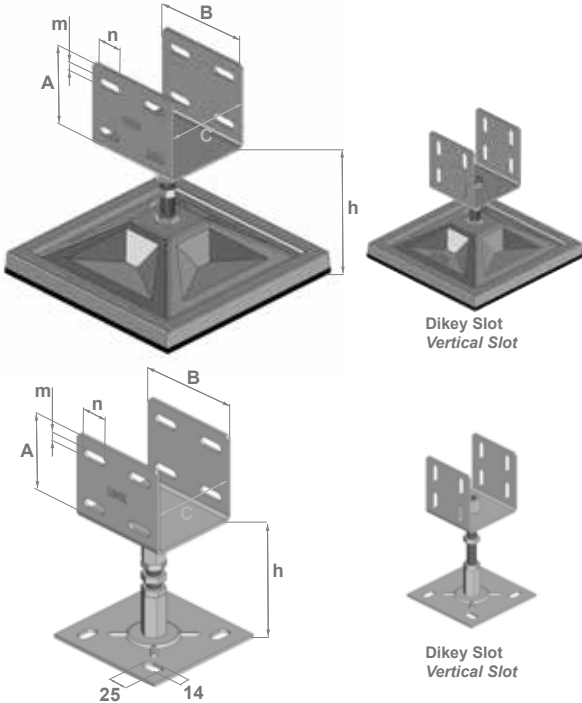
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Polimer Ayak Polymer Base	Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	max. h (mm)	min. h (mm)
Yatay / Horizontal	PMUDP.080	84	120	91	4	11x34	229	161
Dikey / Vertical	PMUDP.081	110	80	91	4	11x32	175	103
Yatay / Horizontal	PMUDP.100	104	120	111	4	11x34	229	161
Dikey / Vertical	PMUDP.101	110	100	111	4	11x32	175	103
Yatay / Horizontal	PMUDP.120	124	120	111	4	11x34	229	161
Dikey / Vertical	PMUDP.121	110	120	111	4	11x32	175	103

Plaka Ayak Plate Base	Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	max. h (mm)	min. h (mm)
Yatay / Horizontal	PMUDP.082	84	120	91	4	11x34	216	148
Dikey / Vertical	PMUDP.083	110	80	91	4	11x32	162	90
Yatay / Horizontal	PMUDP.102	104	120	111	4	11x34	216	148
Dikey / Vertical	PMUDP.103	110	100	111	4	11x32	162	90
Yatay / Horizontal	PMUDP.122	124	120	111	4	11x34	216	148
Dikey / Vertical	PMUDP.123	110	120	111	4	11x32	162	90



Montaj Detayı / Installation Detail:

PM-UD / PM-UDP U destek elemanını profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-UD / PM-UDP U Shape Fitting

Hizmet / Service

Boruların kılavuz, destek veya bağlantısı için dizayn edilmiştir.

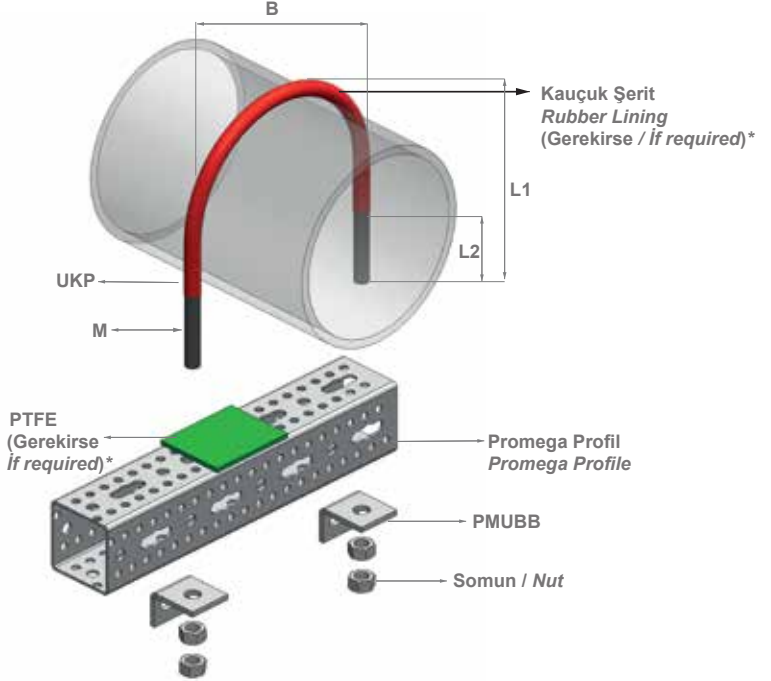
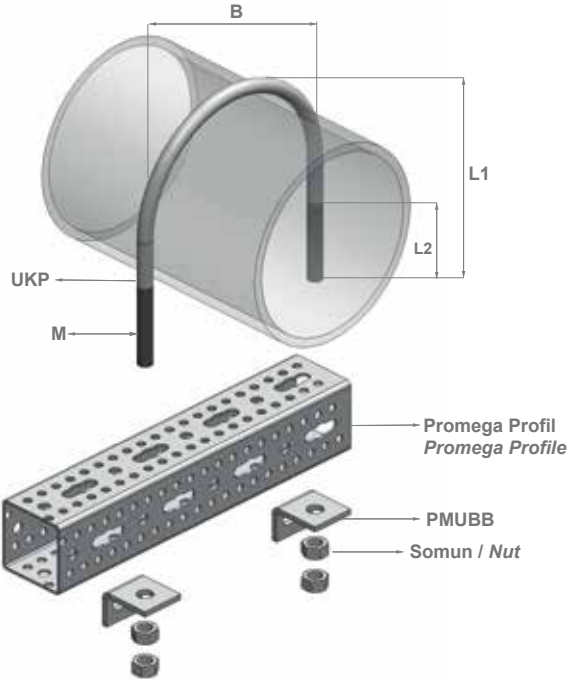
Designed as a support, guide of pipe.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

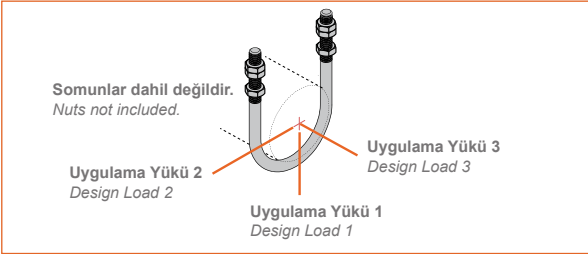
Standart Kaplama / Coating:

Elektro galvaniz ISO 2081
Zinc Plated



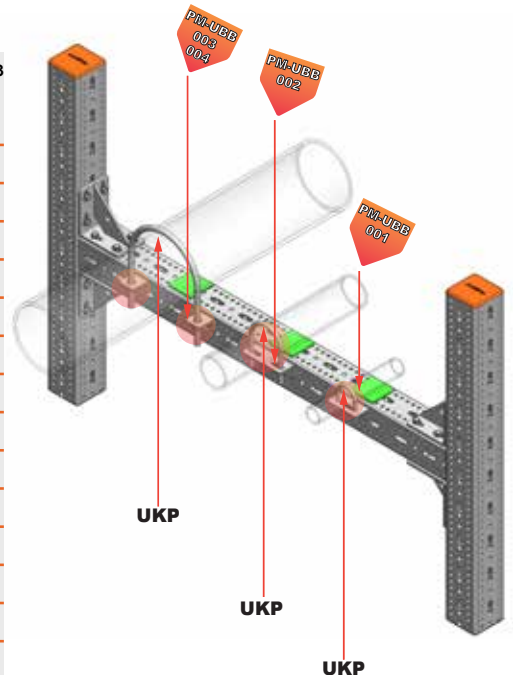
* Eğer boru malzemesi profil ve kelepçeden farklı ise oradaki teması kesmek için PTFE ve kauçuk şerit kullanılabilir. Bu ürünler gerekli ise sipariş için lütfen danışın.

If pipe material is different from profile and clamp materials, PTFE and rubber lining might be used to cut off this contact. If required, please contact for order.



Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		M	B (mm)	L1 (mm)	L2 (mm)	Uygulama Yüğü 1 Design Load 1 kN		Uygulama Yüğü 2 Design Load 2 kN	Uygulama Yüğü 3 Design Load 3 kN
	(Inch.)	(mm)					343 °C	400 °C		
UKP.3090	1/2	15	M.6	24	32	30	2,58	2,02	0,64	1,33
UKP.3091	3/4	20	M.6	30	39	30	2,58	2,02	0,64	1,33
UKP.3092	1	25	M.8	36	44	30	2,58	2,02	0,64	2,67
UKP.3093	1 1/4	32	M.8	46	48	40	2,58	2,02	0,64	2,67
UKP.3094	1 1/2	40	M.8	56	56	50	2,58	2,02	0,64	2,67
UKP.3095	2	50	M.10	68	68	50	6,49	5,09	1,62	3,20
UKP.3096	2 1/2	65	M.10	78	71	50	6,49	5,09	1,62	3,20
UKP.3097	3	80	M.12	94	81	60	12,01	9,40	3,00	4,00
UKP.3098	4	100	M.12	118	89	65	12,01	9,40	3,00	4,00
UKP.3099	5	125	M.12	146	115	65	12,01	9,40	3,00	4,00
UKP.3100	6	150	M.16	172	118	90	18,10	12,25	3,65	4,80
UKP.3101	8	200	M.16	224	142	90	18,10	12,25	3,65	4,80
UKP.3102	10	250	M.16	278	169	100	18,10	12,25	3,65	-
UKP.3103	12	300	M.16	328	200	100	18,10	12,25	3,65	-



U Bolt Bağlantı Braketleri / U Bolt Connection Brackets

PM-UBB

Hizmet / Service

U-Bolt kelepçelerin Promega profillerine montajını gerçekleştirmek üzere tasarlanmış bağlantı ürünleridir. Konsol uygulamalarında kullanılan profillerin yan yüzeyine montaj yapılarak U-Bolt kelepçelerin kolay bağlantısını sağlamaktadır.

Designed to install U-Bolt clamps on Promega profiles. It provides easy connection of U-Bolt clamps by mounting on side surface of profiles used in support applications.

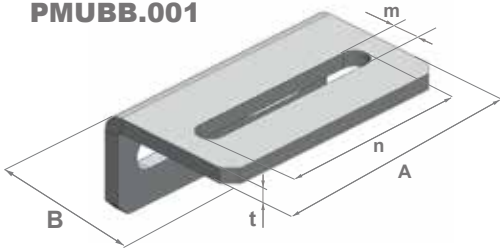
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

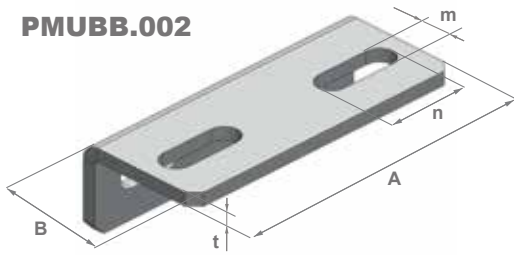
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uygunluk Compliance	Uyumlu U Bolt Suitable U Bolt
PMUBB.001	100	60	6	-	11X80	TÜM PROFİLLER /ALL	1/2"-1½"
PMUBB.002	140	60	6	-	14X40	TÜM PROFİLLER /ALL	2"-3"
PMUBB.003	50	60	6	Ø14	-	TÜM PROFİLLER /ALL	3"-5"
PMUBB.004	50	60	6	Ø18	-	TÜM PROFİLLER /ALL	6"-12"

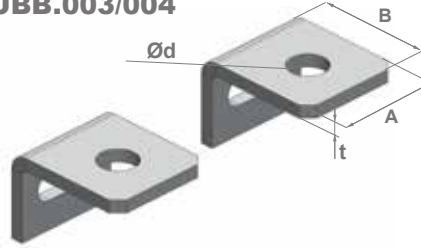
PMUBB.001



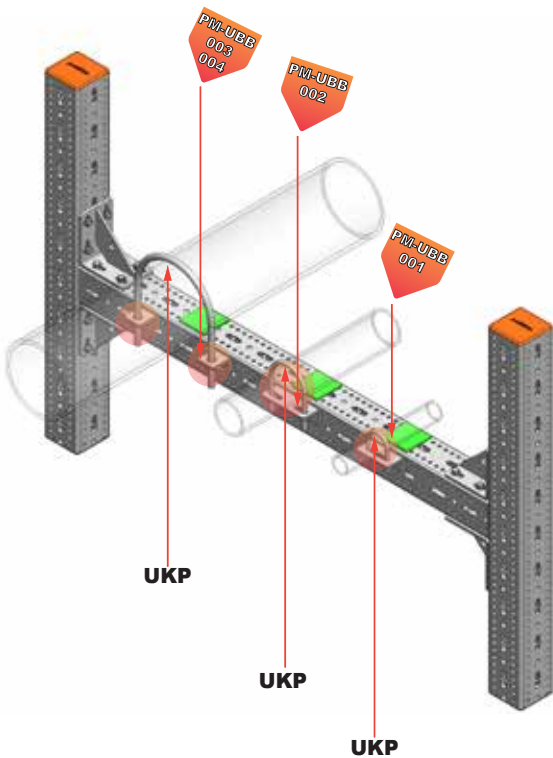
PMUBB.002



PMUBB.003/004



Uygulamalar / Installation



Montaj Detayı / Installation Detail:

PM-UBB U bolt bağlantı braketinin profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-UBB U bolt connection brackets

Kare Bolt Kiriş Kenedi / Square Bolt Beam Clamp

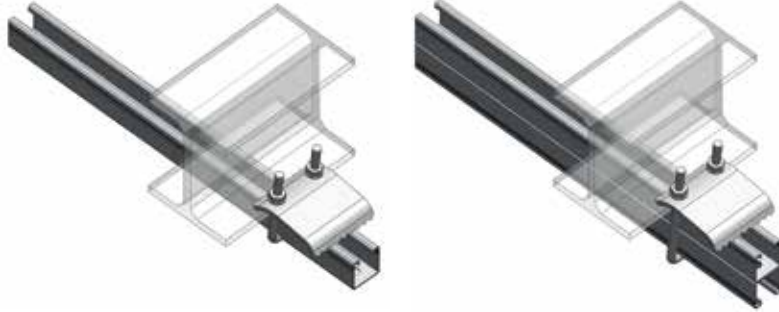
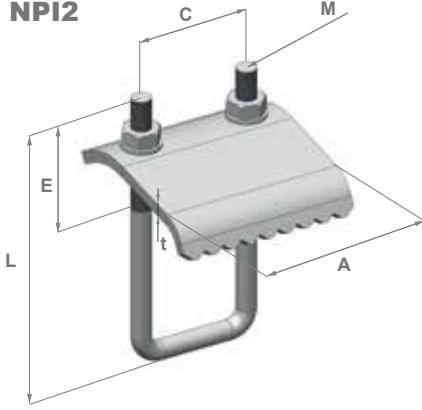
NPI2

Hizmet / Service

NPI/HEA/HEB profillerine askı sistemlerinin uygulanması için dizayn edilmiştir.
Designed for connection of modular profile system to the NPI/HEA/HEB profiles.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

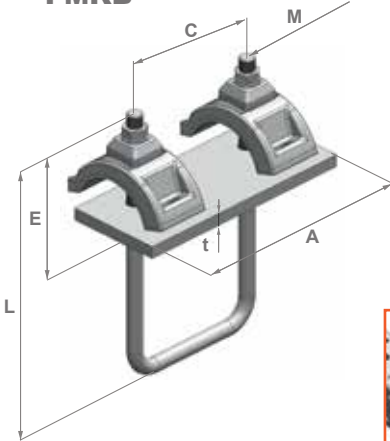
Standart Kaplama / Coating:
Elektro galvaniz ISO 2081
Zinc Plated



Teknik Bilgi / Technical Data

Kod / Code	A	t	C	MxE	L	Uyumlu Profiller Suitable for	
						Tek Profil Single Profile	Çift Profil Double Profile
NPI2.3410	90	6	58	M.10x50	100	PLG 4141 / PLG 4122 PLG 4545 / PLG 4522	PLGD 4142 PLGD 4544
NPI2.3412	90	6	58	M.12x50	150	PLG 4160 PLG 4560	PLGD 4182 PLGD 4590
NPI2.3412.01	90	6	58	M.12x60	180		PLGD 45120 PLGD 41120
PMNPI.080	135	8	96	M.12x60	140	PMP-080.3	
PMNPI.100	155	10	116	M.12x85	190	PMP-100.3	
PMNPI.120	155	10	116	M.12x85	190	PMP-120.4	
PMNPI.150	155	12	120	M.16x90	230	PMP-150.4	

PMKB



Teknik Bilgi / Technical Data

Kod / Code	A	t	C	E	M	L	Uyumlu Profil Suitable For
PMKB.080	170	6	96	85	M12	185	PMP-080.3
PMKB.100	190	8	116	85	M12	205	PMP-100.3
PMKB.120	190	8	116	85	M12	225	PMP-120.4
PMKB.150	190	10	120	85	M16	255	PMP-150.4

I Kiriş Kenedi / Beam Clamp

MZL

Hizmet / Service

NPI/HEA/HEB profillerine askı sistemlerinin uygulanması için dizayn edilmiştir.
Designed for connection of modular profile system to the NPI/HEA/HEB profiles.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized



Teknik Bilgi / Technical Data

Kod / Code	Ød (mm)	Uyumlu Profil Suitable For
MZL.5000	Ø12,5	TÜM PROFİLLER / ALL

Yük kapasiteleri TUV-Nord test raporlarına dayanmaktadır.
Load capacities are define by the TUV-Nord test report.

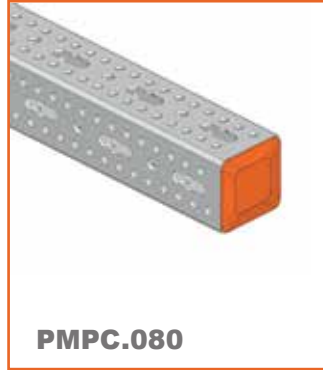
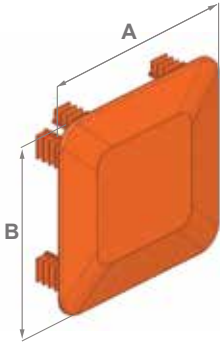
Hizmet / Service

proMEGA modüler profilleriyle yapılan uygulamalarda konsol bitiş noktalarında hem görsel hem de sağlık ve güvenlik gereksinimlerini karşılamak için tasarlanmıştır.

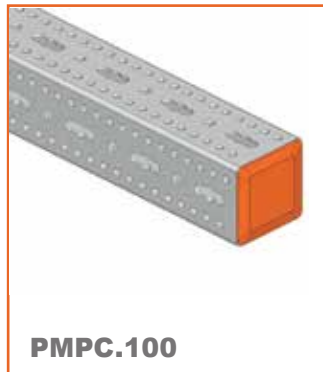
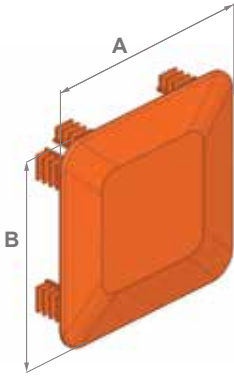
Plastic end cap to close cut ends of proMEGA modular profile to meet both visual and health & safety requirements.

Malzeme ve Tipi / Materials and Type:

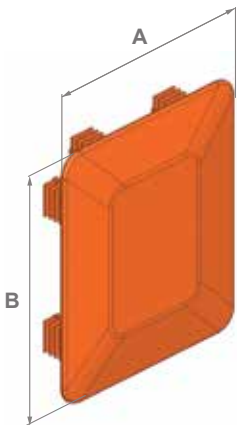
Plastik / Plastic


Teknik Bilgi / Technical Data

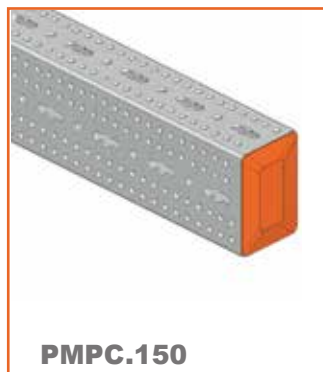
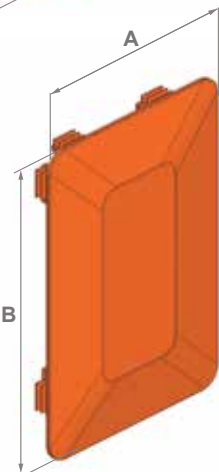
Kod / Code	A (mm)	B (mm)	Renk Color	Uyumlu Profil Suitable For
PMPC.080	80	80	Turuncu / Orange	PMP-080.3


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	Renk Color	Uyumlu Profil Suitable For
PMPC.100	100	100	Turuncu / Orange	PMP-100.3


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	Renk Color	Uyumlu Profil Suitable For
PMPC.120	100	120	Turuncu / Orange	PMP-120.4


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	Renk Color	Uyumlu Profil Suitable For
PMPC.150	100	150	Turuncu / Orange	PMP-150.4

Hizmet / Service

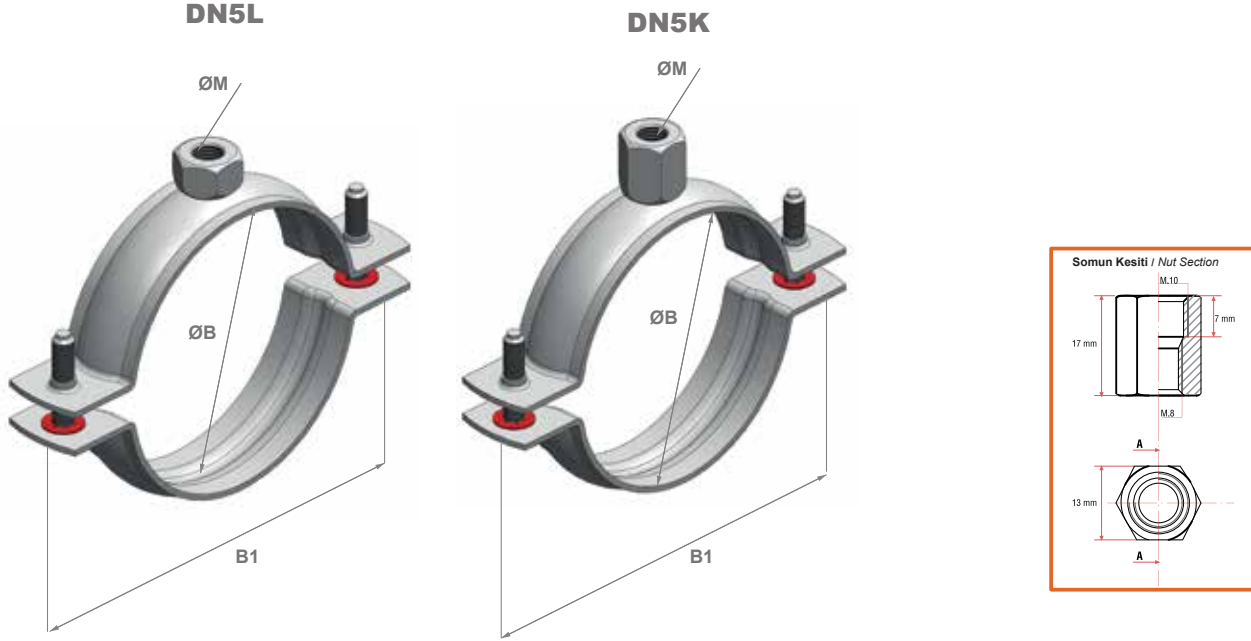
İzolasyon takozları veya şeritleri ile beraber kullanılmak üzere tasarlanmıştır.
Designed to used insulation supports or strips.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081
Zinc Plated


Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		ØB (mm)	B1 (mm)	ØM (mm)
	(Inch)	(DN)			
DN5L.5010	3/8	10	14-18	60	M8
DN5L.5015	1/2	15	20-24	62	M8
DN5L.5020	3/4	20	23-30	65	M8
DN5L.5025	1	25	33-40	75	M8
DN5L.5032	1 ^{1/4}	32	39-44	81	M8
DN5L.5040	1 ^{1/2}	40	44-53	90	M8
DN5L.5053	-	-	53-59	100	M8
DN5L.5050	2	50	56-65	105	M8
DN5L.5062	-	-	62-72	115	M8
DN5L.5063	-	-	71-77	125	M8
DN5L.5065	2 ^{1/2}	65	76-84	131	M8
DN5L.5080	3	80	82-92	140	M10
DN5L.5095	-	-	95-103	150	M8
DN5L.5100	4	100	107-115	160	M10
DN5L.5116	-	-	116-126	180	M10
DN5L.5125	-	-	125-132	190	M10
DN5L.5126	5	125	133-140	190	M10
DN5L.5133	-	-	133-143	190	M10
DN5L.5146	-	-	146-155	207	M12
DN5L.5150	-	-	159-163	215	M12
DN5L.5200	8	200	207-215	283	M12

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		ØB (mm)	B1 (mm)	ØM (mm)
	(Inch)	(DN)			
DN5K.5010	3/8	10	14-18	60	M8-M10
DN5K.5015	1/2	15	20-24	62	M8-M10
DN5K.5020	3/4	20	23-30	65	M8-M10
DN5K.5025	1	25	33-40	75	M8-M10
DN5K.5032	1 ^{1/4}	32	39-44	81	M8-M10
DN5K.5040	1 ^{1/2}	40	44-53	90	M8-M10
DN5K.5053	-	-	53-59	100	M8-M10
DN5K.5050	2	50	56-65	105	M8-M10
DN5K.5062	-	-	62-72	115	M8-M10
DN5K.5063	-	-	71-77	125	M8-M10
DN5K.5065	2 ^{1/2}	65	76-84	131	M8-M10
DN5K.5080	3	80	82-92	140	M8-M10
DN5K.5095	-	-	95-103	150	M8-M10
DN5K.5100	4	100	107-115	160	M8-M10
DN5K.5116	-	-	116-126	180	M8-M10
DN5K.5125	-	-	125-132	190	M8-M10
DN5K.5126	5	125	133-140	190	M8-M10
DN5K.5133	-	-	133-143	190	M8-M10
DN5K.5146	-	-	146-155	207	M8-M10
DN5K.5150	-	-	159-163	215	M8-M10
DN5K.5200	8	200	207-215	283	M8-M10

Kombi Somunlu Kelepçe / Clamp With Combi Nut

DN6

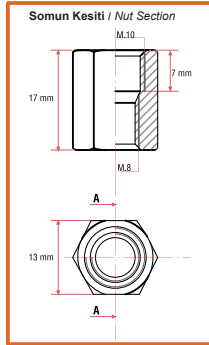
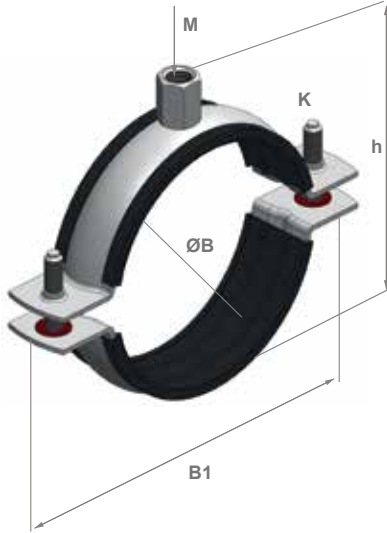
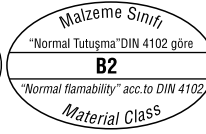
Hizmet / Service

Yatay veya dikey çelik boruların askılanmasında kullanılmak üzere dizayn edilmiştir.
Designed for suspending of vertical and horizontal steel pipes.

Malzeme ve Tipi / Materials and Type: Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating: Elektro galvaniz ISO 2081 / Zinc Plated

İzolasyon Lastikleri Teknik Özellikleri
Isolation Rubber Technical Specification
Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance : -30 °C to + 110 °C



Teknik Bilgi / Technical Data

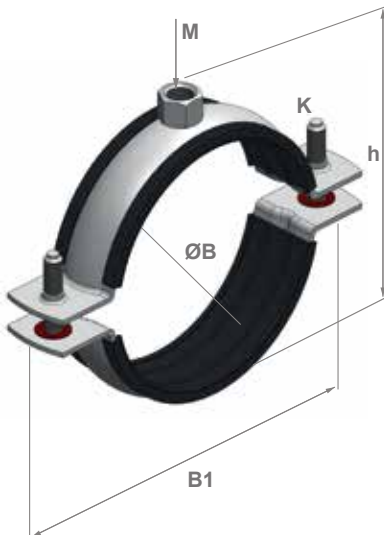
Kod / Code	Boru Ölçüsü Pipe Size (inch.) (mm)	ØB (mm)	B1 (mm)	h (mm)	Civata Bolt Ölçüsü Bolt Size K (mm)	Somun Ölçüsü Nut Size M (mm)	Dizayn Yüğü Design Load (kN)
DN6.3008	1/4 13,5	12-15	56	38	M.6	M.8 / M.10	1,30
DN6.3010	3/8 17,2	15-19	60	41	M.6	M.8 / M.10	1,30
DN6.3015	1/2 21,3	20-24	62	45	M.6	M.8 / M.10	1,30
DN6.3020	3/4 26,9	23-28	71	5	M.6	M.8 / M.10	1,30
DN6.3025	1 33,7	31-36	79	60	M.6	M.8 / M.10	1,30
DN6.3032	1 1/4 42,4	38-44	88	64	M.6	M.8 / M.10	1,60
DN6.3040	1 1/2 48,3	44-50	94	71	M.6	M.8 / M.10	1,60
DN6.3050	2 60,3	59-65	109	87	M.6	M.8 / M.10	1,60
DN6.3065	2 1/2 76,1	74-80	133	103	M.6	M.8 / M.10	2,30
DN6.3080	3 88,9	83-93	145	112	M.6	M.8 / M.10	2,30
DN6.3100	4 114,3	108-118	169	137	M.6	M.8 / M.10	2,30
DN6.3125	5 139,7	132-143	199	162	M.6	M.8 / M.10	2,60
DN6.3150	6 168,3	159-169	229	190	M.6	M.8 / M.10	2,60
DN6.3200	8 219,1	216-225	283	240	M.6	M.8 / M.10	2,62

Somunlu Kelepçe / Clamp With Nut

DN5

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.) (mm)	ØB (mm)	B1 (mm)	h (mm)	Civata Bolt Ölçüsü Bolt Size K (mm)	Somun Ölçüsü Nut Size M (mm)	Dizayn Yüğü Design Load (kN)
DN5.5012	1/4 13,5	12-15	56	26,5	M.6	M.8	1,30
DN5.5016	3/8 17,2	15-19	60	29	M.6	M.8	1,30
DN5.5020	1/2 21,3	20-24	62	33,5	M.6	M.8	1,30
DN5.5025	3/4 26,9	23-28	71	39	M.6	M.8	1,30
DN5.5031	1 33,7	31-36	79	49,5	M.6	M.8	1,30
DN5.5038	1 1/4 42,4	38-44	88	53,5	M.6	M.8	1,60
DN5.5045	1 1/2 48,3	44-50	94	59	M.6	M.8	1,60
DN5.5059	2 60,3	59-65	109	76	M.6	M.8	1,60
DN5.5075	2 1/2 76,1	74-80	133	97	M.6	M.10	2,30
DN5.5084	3 88,9	83-93	145	106	M.6	M.10	2,30
DN5.5110	4 114,3	108-118	169	131	M.6	M.10	2,30
DN5.5137	5 139,7	132-143	199	156	M.6	M.10	2,60
DN5.5163	6 168,3	159-169	229	184	M.6	M.10	2,60
DN5.5207	8 219,1	216-225	283	234	M.6	M.12	2,62



Hizmet / Service

Özel tasarımı sayesinde Promega profillerde "TAK", "ÇEVİR", "SIKIŞTIR" yöntemi ile kolayca uygulama yapılır.

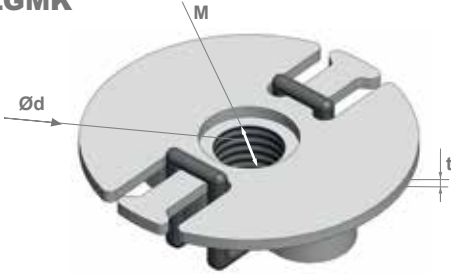
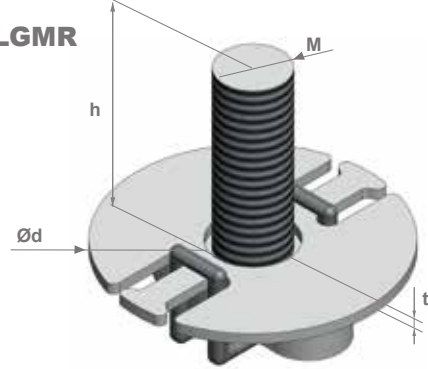
Applicable to all Promega Profiles Series with its special design by "LOCATE" "ROTATE", "TIGHTEN".

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

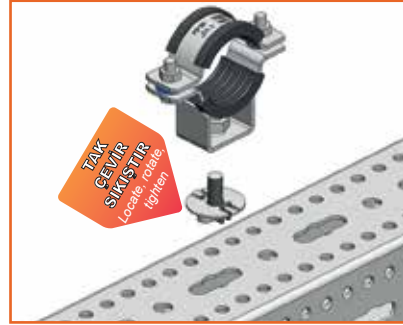
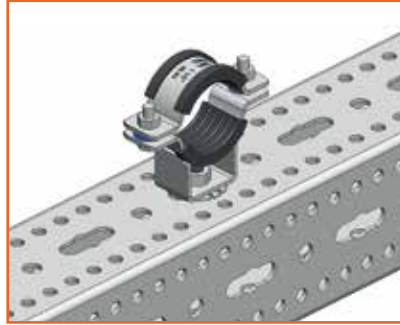
Elektro galvaniz ISO 2081
Zinc Plated

PLGMK

PLGMR

Teknik Bilgi / Technical Data

Kod / Code	Ød	t	M
PLGMK.9000	40	1,5	M8
PLGMK.9100	40	1,5	M10
PLGMK.9120	40	1,5	M12

Teknik Bilgi / Technical Data

Kod / Code	Ød	t	M	h
PLGMR.90030	40	1,5	M8	30
PLGMR.90070	40	1,5	M8	70
PLGMR.91030	40	1,5	M10	30
PLGMR.91070	40	1,5	M10	70
PLGMR.91230	40	1,5	M12	30
PLGMR.91270	40	1,5	M12	70

Uygulama / Installation

Dişli Saplamalar / Thread Stud
Malzeme ve Tipi / Materials and Type:

Çelik / Steel

Malzeme Özellik Sınıfları / Material Class:

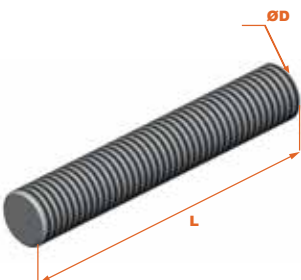
4,6

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081 / Zinc Plated

Teknik Bilgi / Technical Data

Kod / Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yüğü Design Load kN
CR.100035	M.10 x 35	1600	37,28	12,87
CR.100055	M.10 x 55	800	24,48	12,87
CR.100100	M.10 x 100	400	22,24	12,87
CR.120080	M.12 x 80	300	19,20	18,55
CR.120100	M.12 x 100	300	24,00	18,55
CR.120140	M.12 x 140	300	33,60	18,55
CR.160100	M.16 x 100	50	7,25	33,34
CR.160140	M.16 x 140	50	10,10	33,34
CR.160200	M.16 x 200	50	14,50	33,34



Poliüretan İzolasyon Takozu / Polyurethane Insulation Support

PAT A

Hizmet / Service

Isıtma ve soğutma hatlarında kullanılan boruları ses ve ısı izolatörü olarak desteklemesi için dizayn edilmiştir.

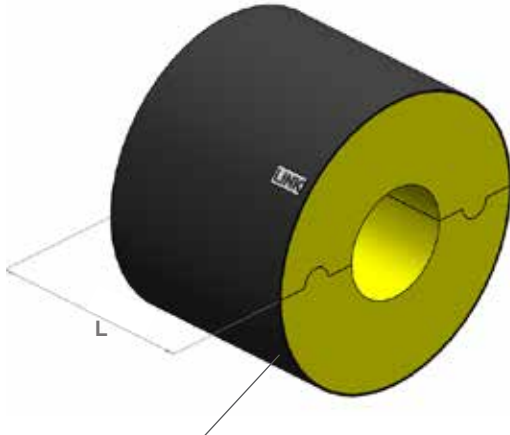
Designed for supporting heating and cooling as a sound and thermal insulation

Malzeme ve Tipi / Materials and Type:

Poliüretan / Polyurethane

Standart Kaplama / Coating:

Kauçuk koruyucu bant / AL- folyo koruyucu bant
Rubber protection tape / AL-Foil protective tape



3/8"-8" Kauçuk /10" ve üstü AL -Folyo Koruyucu Bant
Rubber Protection Cover ,AL- Foil Protective tape

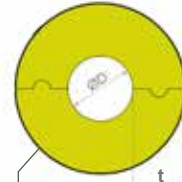
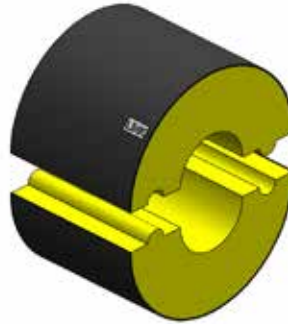
Poliüretan İzolasyon Takozu / Polyurethane Insulation Support

Yoğunluk / Min. Density	80kg/m ³ *	100kg/m ³	145kg/m ³
Sıcaklık Danayımı / Temperature Range	-45°C / +105°C		
Isıl İletkenlik / Thermalconductivity	0,038 W/mK	0,042 W/ mK	0,048 W/ mK
Sıkma Dayanımı / Compressive Strenght	600 kPa	1000 kpa	1500 kPa
Yangın Sınıfı / Fire Properties	DIN 4102 Class B2		
Su buhari Difüzyon Dayanım Katsayısı Water Vapour Diffusion Resistance Coefficient	$\mu > 7.000^{**}$ / $\mu > 18.750^{***}$		

*Standart üretim. Talebe göre farklı yoğunluklarda üretilebilir.
Standart production. If demanded, it can be produced at different densities.

**Kauçuk koruyucu bant için / For rubber protective tape.

***Al-folyo koruyucu bant için / For al-foil protective tape.



Montaj Bantı
Installation Tape

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		t:13 mm		t:20 mm		t:30 mm		t:40 mm		t:50 mm	
	(Inch)	(mm)	Kod / Code	L(mm)	Kod / Code	L(mm)	Kod / Code	L(mm)	Kod / Code	L(mm)	Kod / Code	L(mm)
PATA	3/8	15	01005013	50	01005020	50	01005030	50	01005040	50	-	-
PATA	1/2	22	01505013	50	01505020	50	01505030	50	01505040	50	-	-
PATA	3/4	27	02005013	50	02005020	50	02005030	50	02005040	50	-	-
PATA	1	34	02505013	50	02505020	50	02505030	50	02505040	50	-	-
PATA	1 1/4	43	03205013	50	03205020	50	03205030	50	03205040	50	-	-
PATA	1 1/2	49	04005013	50	04005020	50	04005030	50	04005040	50	-	-
PATA	2	61	05005013	50	05005020	50	05005030	50	05005040	50	-	-
PATA	2 1/2	77	06505013	50	06505020	50	06505030	50	06505040	50	-	-
PATA	3	90	-	-	08005020	50	08005030	50	08005040	50	-	-
PATA	4	115	-	-	10010020	100	10010030	100	10010040	100	10010050	100
PATA	5	145	-	-	-	-	12510030	100	12510040	100	12510050	100
PATA	6	170	-	-	-	-	15010030	100	15010040	100	15010050	100
PATA	8	222	-	-	-	-	20010030	100	20010040	100	20010050	100
PATA	10	275	-	-	-	-	-	-	-	-	25010050	100
PATA	12	326	-	-	-	-	-	-	-	-	30010050	100
PATA	14	370	-	-	-	-	-	-	-	-	35010050	100
PATA	16	410	-	-	-	-	-	-	-	-	40010050	100
PATA	18	450	-	-	-	-	-	-	-	-	45010050	100

Hizmet / Service

Sıcak hatlarda kullanılan boruların ses ve ısı izolatörü olarak desteklenmesi için dizayn edilmiştir.

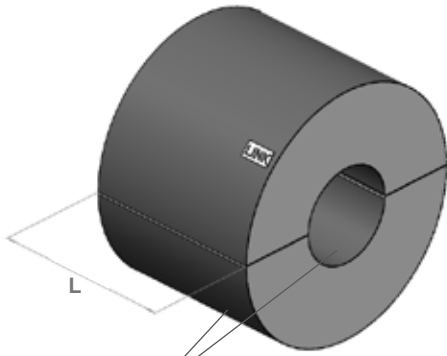
Designed for supporting hot pipes as a sound and thermal insulation.

Malzeme ve Tipi / Materials and Type:

Kalsiyum Slikat / Calcium Silicate

Standart Kaplama / Coating:

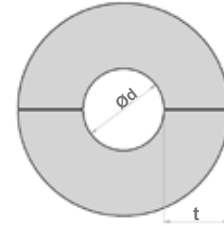
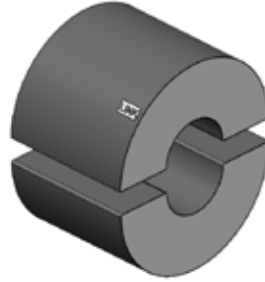
Yoğuşma engelleyici AL-Folyo bant kaplama
AL- Foil tape vapour barrier.



Yoğuşma engelleyici AL-Folyo bant kaplama
AL- Foil tape vapour barrier

Kalsiyum Slikat İzolasyon Takozu / Calcium Silicate Insulation Support

Yoğunluk / Min. Density	220 kg/m ³ *
Sıcaklık Dayanımı / Temperature Range	+150°C / +650°C
Isıl İletkenlik / Thermal Conductivity	38°C - 0,058 W/mK 90°C - 0,059 W/mK 149°C - 0,065 W/mK 204°C - 0,072 W/mK 260°C - 0,079 W/mK 316°C - 0,086 W/mK 371°C - 0,094 W/mK
Sıkma Dayanımı / Compressive Strength	1800 kPa
Yangın Sınıfı / Fire Properties	BS476 Part7 Class1
Su Buharı Difüzyon Dayanım Katsayısı Water Vapour Diffusion Resistance Coefficient	$\mu > 18.750$



Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		t:25 mm		t:50 mm	
	(Inch)	(mm)	Kod / Code	L(mm)	Kod / Code	L(mm)
PATC	1/2	22	015025060	50	015050060	50
PATC	3/4	27	020025060	50	020050060	50
PATC	1	34	025025060	50	025050060	50
PATC	1 1/4	43	032025060	50	032050060	50
PATC	1 1/2	49	040025060	50	040050060	50
PATC	2	61	050025060	50	050050060	50
PATC	2 1/2	77	065025060	50	065050060	50
PATC	3	90	080025060	50	080050060	50
PATC	4	115	100025060	100	100050060	100
PATC	5	145	125025060	100	125050060	100
PATC	6	170	150025060	100	150050060	100
PATC	8	222	200025060	100	200050060	100
PATC	10	275	250025060	100	250050060	100
PATC	12	326	300025060	100	300050060	100
PATC	14	370	350025060	100	350050060	100
PATC	16	410	400025060	100	400050060	100
PATC	18	450	450025060	100	450050060	100

Somunlu Bağlantı Plakası / Split Clamp Fitting

PM-SKP

Hizmet / Service

Yatay ve dikey boruların askılanmasında ve montajında kullanılmak üzere dizayn edilmiştir.
Designed for connection of clamps to Promega profile.

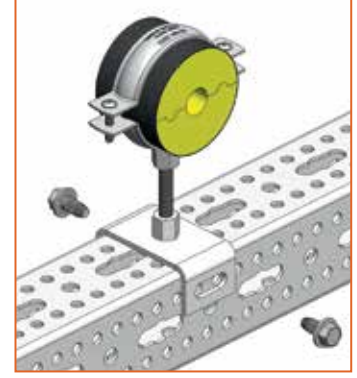
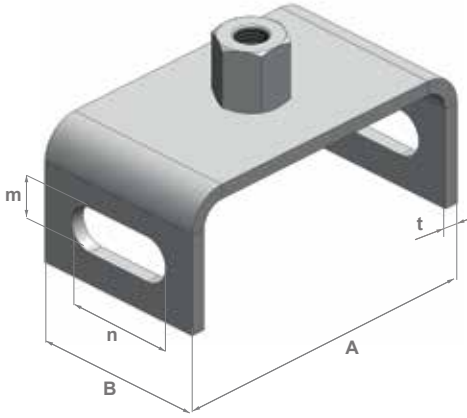
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081
Zinc Plated

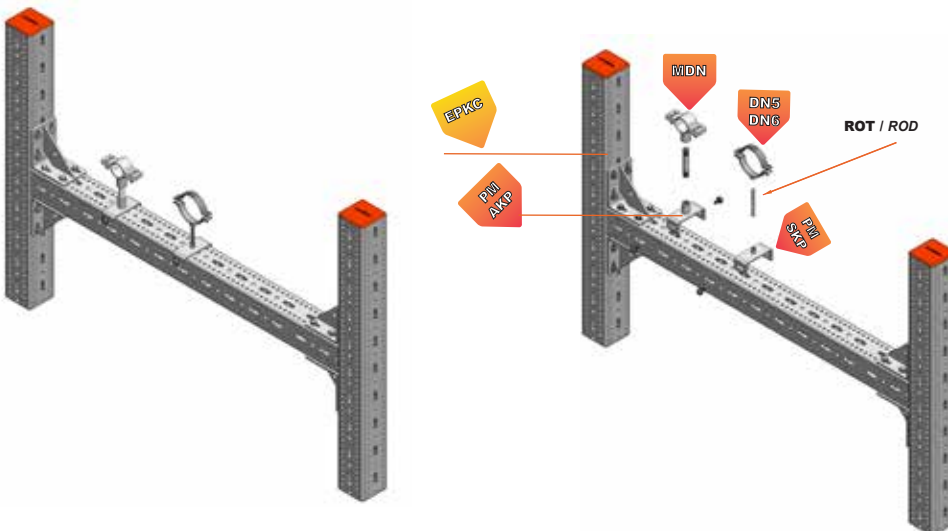
PMSKP.080/081/100/101



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Somun / Nut	mxn (mm)	Uyumlu Profil / Suitable For
PMSKP.080	90	50	4	M8/M10	11X32	PMP-80.3
PMSKP.081	90	50	4	M12	11X32	PMP-80.3
PMSKP.100	115	50	6	M8/M10	11X32	PMP-100.3, PMP-120.4, PMP-150.4
PMSKP.101	115	50	6	M12	11X32	PMP-100.3, PMP-120.4, PMP-150.4

Uygulama / Installation



Montaj Detayı / Installation Detail:
PM-SKP somunlu bağlantı plakasının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-SKP split clamp fitting.

Hizmet / Service

Ağır yük kelepçelerinin betona veya Promega profile bağlantısında kullanılmak üzere dizayn edilmiştir. Bükülme direnci sayesinde bina yapısına uzak mesafelerde yapılan askılamalarda da kullanılır.

Designed for connection of heavy duty clamps to Promega profile or concrete. It is also used for hanging at greater distances from the building structure due to its bending resistance.

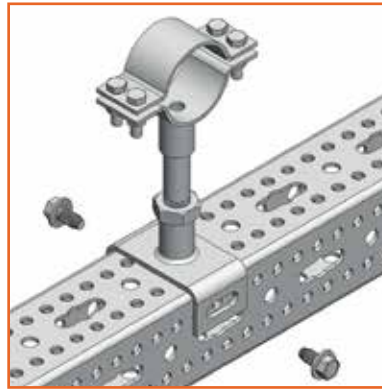
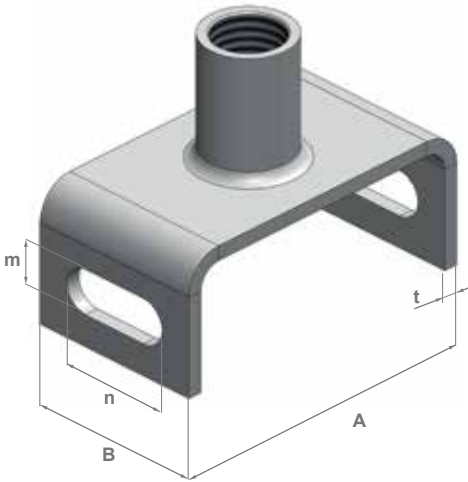
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081 / Zinc Plated

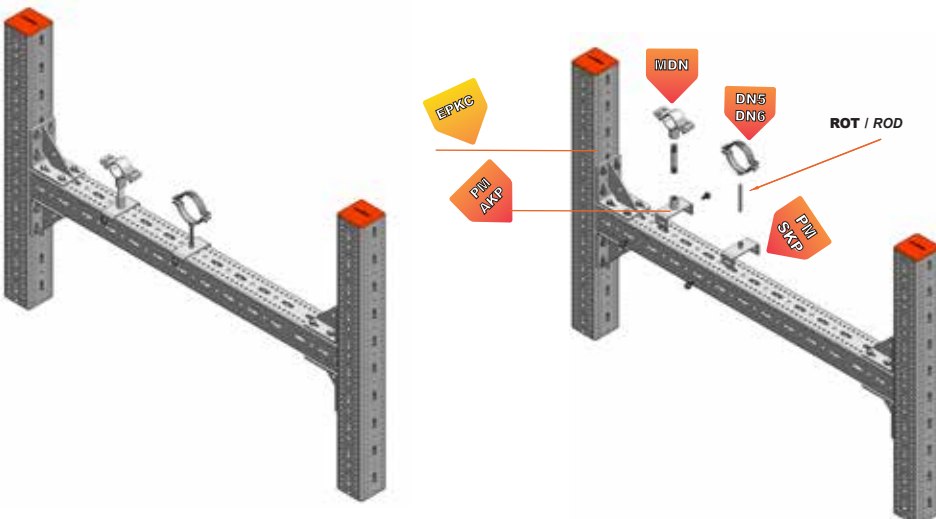
PMAKP.080/081/100/101



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Manşon Sleeve	mxn (mm)	Uyumlu Profil Suitable For
PMAKP.080	90	50	4	1/2"	11x32	PMP-080.3
PMAKP.081	90	50	4	3/4"	11x32	PMP-080.3
PMAKP.100	115	50	6	1/2"	11x32	PMP-100.3, PMP-120.4, PMP-150.4
PMAKP.101	115	50	6	3/4"	11x32	PMP-100.3, PMP-120.4, PMP-150.4

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-AKP ağır yük kelepçe plakasının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-AKP Heavy duty clamp fitting.

Manşonlu Tip Kelepçesi / Pipe Clamp With Coupling (Double Bolt)

MDN

Hizmet / Service

Yatay ve dikey boruların askılanmasında ve montajında kullanılmak üzere dizayn edilmiştir. Bükülme direnci sayesinde bina yapısına uzak mesafelerde yapılan askılamalarda kullanılır.

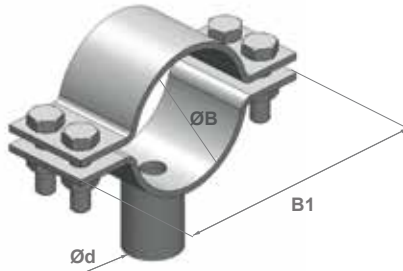
Designed for suspending and fixing of vertical and horizontal pipes. It is also used for hanging at greater distances from the building structure due to its bending resistance.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081 / Zinc Plated



Ağır Yük Kelepçe Plaka Uzatması
LINK tarafından sağlanmamaktadır.
Heavy Duty Clamp Plate Extension
is not supplied by LINK.



Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		ØB (mm)	B1 (mm)	Ød (inch.)
	(inch.)	(DN)			
MDN.301311	1/2	15	20-26	82	1/2
MDN.301411	3/4	20	26-32	104	1/2
MDN.301511	1	25	32-39	99	1/2
MDN.301611	1 ^{1/4}	32	41-48	115	3/4
MDN.301711	1 ^{1/2}	40	46-55	135	3/4
MDN.301811	2	50	56-66	148	1
MDN.301911	2 ^{1/2}	65	72-84	155	1
MDN.302011	3	80	85-94	185	1
MDN.302111	4	100	110-118	214	1 ^{1/4}
MDN.302211	5	125	137-148	230	1 ^{1/4}
MDN.302311	6	150	158-172	262	1 ^{1/2}
MDN.302411	8	200	208-230	335	1 ^{1/2}
MDN.302511	10	250	265-280	405	1 ^{1/2}

Tek Civatalı Manşonlu Kelepçe / Pipe Clamp With Coupling (Single Bolt)

MTK

Hizmet / Service

Yatay, dikey ve büyük çaplı boruların askılanmasında ve montajında kullanılmak üzere dizayn edilmiştir. Bükülme direnci sayesinde bina yapısına uzak mesafelerde yapılan askılamalarda kullanılır.

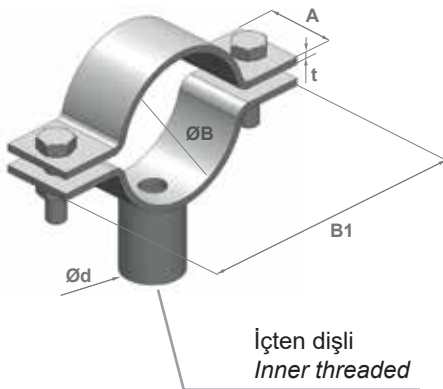
Designed for suspending and fixing of vertical and expanded pipes. It is also used for hanging at greater distances from the building structure due to its bending resistance.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating

Elektro galvaniz ISO 2081 / Zinc Plated



Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.)	ØB (mm)	Çelik Ölçüsü Steel Size		B1	Ød (inch.)	Civata Ölçüsü Bolt Size
			A	t			
MTK.3013	1/2	20-26	30	5	85	1/2	M10*35
MTK.3014	3/4	26-32	30	5	92	1/2	M10*35
MTK.3015	1	32-39	30	5	100	1/2	M10*35
MTK.3016	1 ^{1/4}	41-48	30	5	112	1/2	M10*35
MTK.3017	1 ^{1/2}	46-55	30	5	117	1/2	M10*35
MTK.3018	2	56-66	40	5	139	3/4	M12*40
MTK.3019	2 ^{1/2}	72-84	40	5	156	3/4	M12*40
MTK.3020	3	85-94	40	5	168	3/4	M12*40
MTK.3021	4	110-118	50	5	194	3/4	M12*40
MTK.3022	5	137-148	50	5	220	3/4	M12*40
MTK.3023	6	158-172	50	6	250	3/4	M12*40
MTK.3024	8	208-230	50	6	330	3/4	M12*50

Hizmet / Service

Yatay ve dikey boruların askılanmasında ve montajında kullanılmak üzere dizayn edilmiştir. "U" parça profile civata yardımıyla bağlanır ve yükseklik ayarlanmasını sağlar.

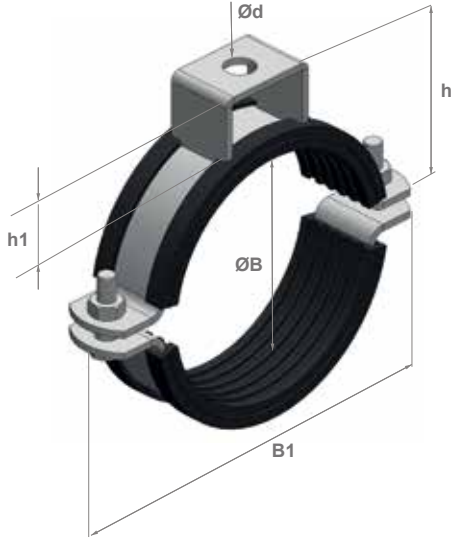
Designed for suspending and fixing of vertical and horizontal pipes. "U" part is connected to the profile with the help of the bolt and allows the height adjustment.

Malzeme ve Tipi Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized



İzolasyon Lastikleri Teknik Özellikleri
Isolation Rubber Technical Specification
Malzeme / Material : EPDM
Sıcaklık Dayanımı / Temperature Resistance :
-30 °C to + 110 °C


Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		ØB (mm)	B1 (mm)	h (mm)	h1 (mm)	Ød (mm)	Dizayn Yüğü Design Load (kN)
	(Inch)	(DN)						
SDNA.2079.DG	1/2	15	20-26	91	37	19	13	3,21
SDNA.2080.DG	3/4	20	25-32	92	37	19	13	3,21
SDNA.2081.DG	1	25	32-39	92	42	22	13	3,21
SDNA.2082.DG	1 ^{1/4}	32	40-47	109	50	23	13	3,21
SDNA.2083.DG	1 ^{1/2}	40	48-54	107	55	25	13	3,21
SDNA.2084.DG	2	50	57-64	118	62	26	13	3,21
SDNA.2085.DG	2 ^{1/2}	65	72-80	137	72	27	13	3,21
SDNA.2086.DG	3	80	88-92	156	78	28	13	3,21
SDNA.2087.DG	4	100	112-118	178	92	28	13	3,21
SDNA.2088.DG	5	125	137-147	222	108	30	18	4,52
SDNA.2089.DG	6	150	164-168	257	120	30	18	4,52
SDNA.2090.DG	8	200	215-230	316	154	36	18	6,63
SDNA.2091.DG	10	250	265-280	366	180	31	18	6,63
SDNA.2092.DG	12	300	310-325	465	217	46	18	12,15
SDNA.2093.DG	14	350	350-365	502	228	40	22	14,37
SDNA.2094.DG	16	400	400-415	556	249	46	22	14,37
SDNA.2095.DG	18	450	445-460	615	289	40	27	27,18
SDNA.2096.DG	20	500	500-515	684	315	46	27	27,18
SDNA.2097.DG	24	600	600-615	703	363	40	27	27,18

Kayar Yatak / Sliding Frame

LKYM

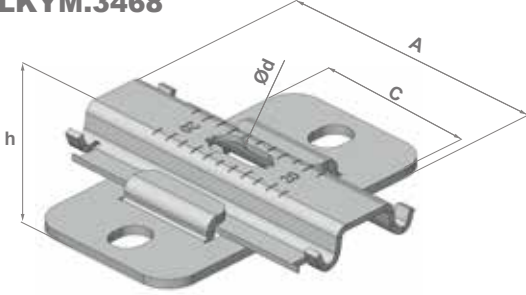
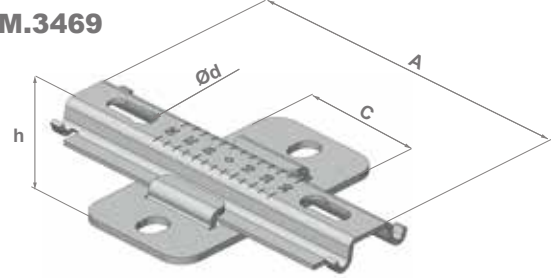
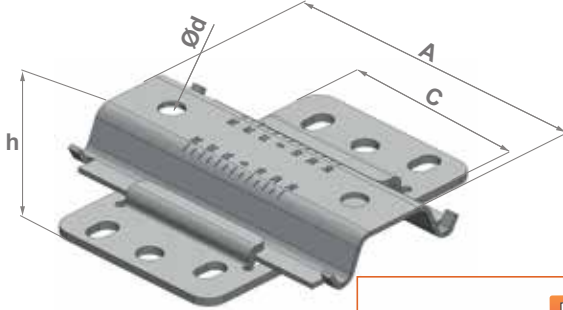
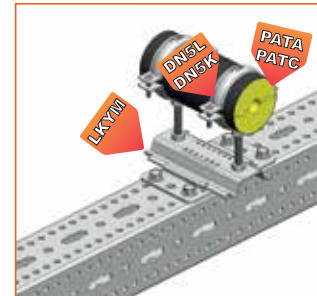
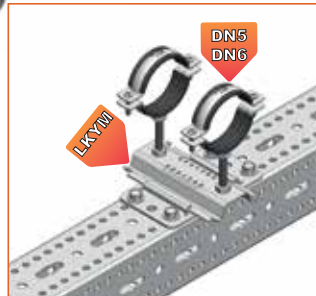
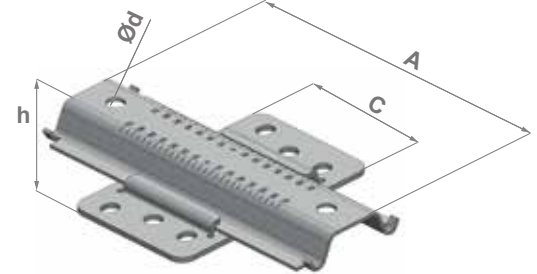
Hizmet / Service

Boruların ısııl genişlemeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmış proMEGA uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur. *Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy installation.*

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Sürtünme Katsayısı (μ)
Static Frictional Coefficient (μ): 0,30

LKYM.3468

LKYM.3469

LKYM.3470

LKYM.3471


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	h (mm)	C (mm)	Ød (mm)	Uyumlu Profil Suitable For	Çalışma Aralığı Travel Range (mm)
LKYM.3468	100	16	55	Ø8,5-Ø10,5	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ	0-55
LKYM.3469	150	16	55	Ø8,5-Ø10,5	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ	0-105
LKYM.3469.1	170	16	55	Ø8,5-Ø10,5	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ	0-125
LKYM.3470	170	26	100	Ø13	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ	0-70
LKYM.3471	240	26	100	Ø13	PMP-080.3, PMP-100.4, PMP-120.4, PMP-150.4 G PROFİL SERİSİ	0-140

Hizmet / Service

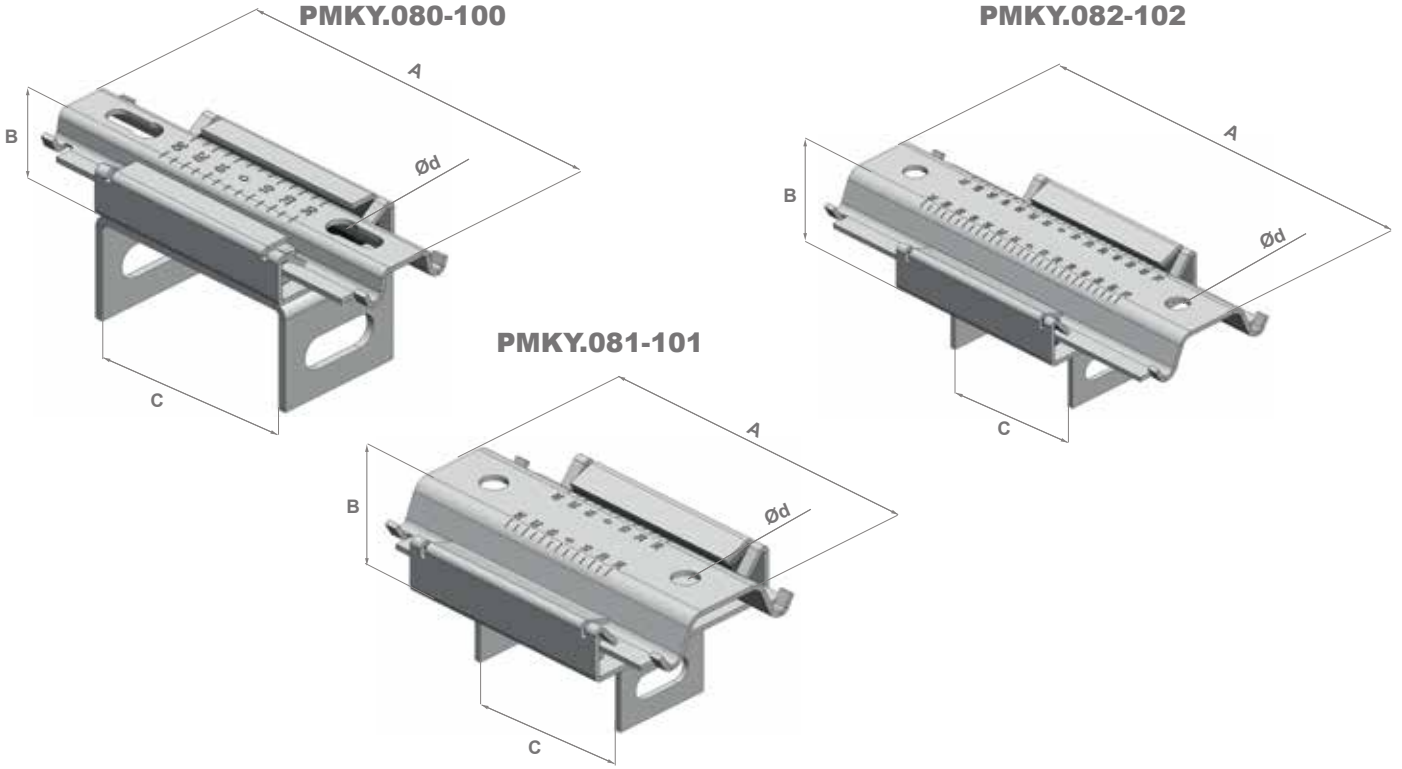
Boruların ısıl genişlemeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmış Promega uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur.

Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy installation.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

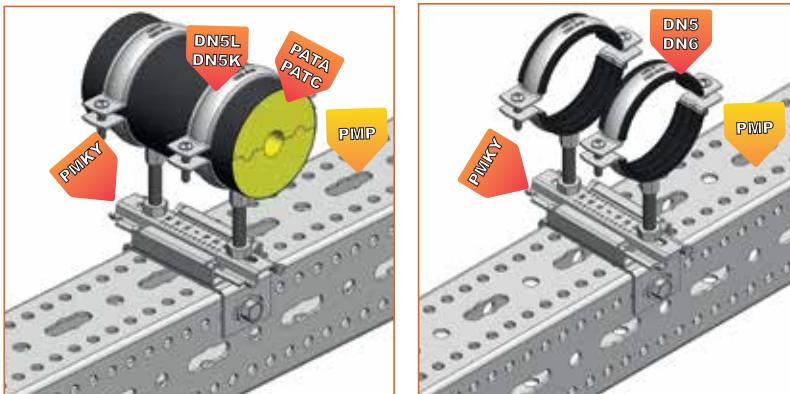
Sürtünme Katsayısı (μ)
Static Frictional Coefficient (μ): 0,20



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	Ød (mm)	Uyumlu Profil Suitable For	Çalışma Aralığı Travel Range (mm)
PMKY.080	150	22	80	Ø8,5X10,5	PMP-080.3	0-54
PMKY.081	170	38	80	Ø13	PMP-080.3	0-48
PMKY.082	240	38	80	Ø13	PMP-080.3	0-118
PMKY.100	150	22	100	Ø8,5X10,5	PMP-100.3, PMP-120.4, PMP-150.4	0-54
PMKY.101	170	38	100	Ø13	PMP-100.3, PMP-120.4, PMP-150.4	0-48
PMKY.102	240	38	100	Ø13	PMP-100.3, PMP-120.4, PMP-150.4	0-118

Uygulama / Installation



Montaj Detayı / Installation Detail:

PMKY ve LKYM kayar yatakların bağlantı ayakları ile Promega profile montajı yapılırken EPKC tipi kendinden dış açma özelliğine sahip civata kullanılır.
EPKC type bolt is used to fix PM-KY and LKYM sliding frame fitting.

Kayar Yatak / Sliding Frame

KYM4

Hizmet / Service

Boruların iki sabit nokta arasındaki ısı genleşmeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmıştır. Sistem bir yapı profiline kaynak yapmadan uygulanabilir.

Designed to carry load and direct the movement of the pipes to thermal expansion. It can be applied to framing channels without welding.

Malzeme ve Tipi / Materials and Type:

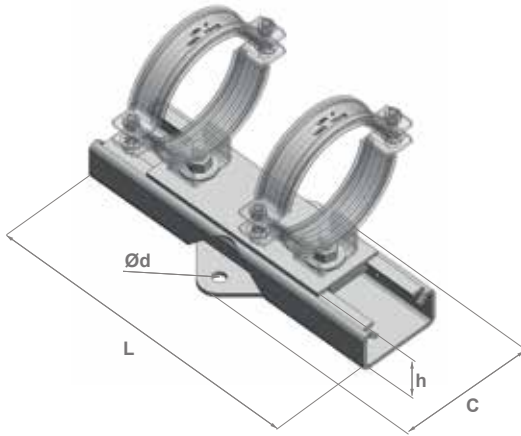
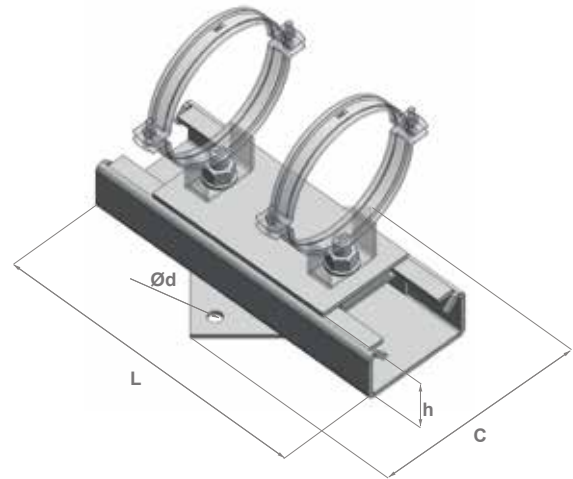
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Sürtünme Katsayısı (μ)

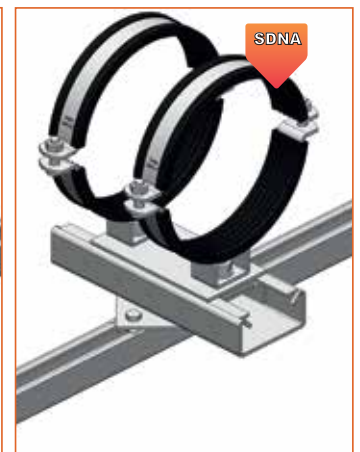
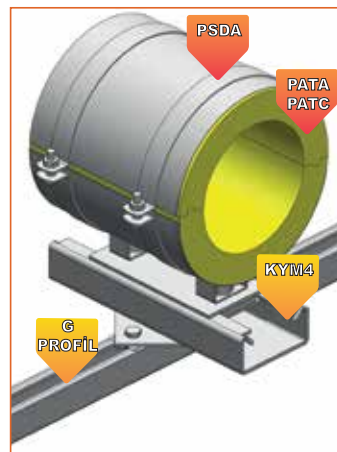
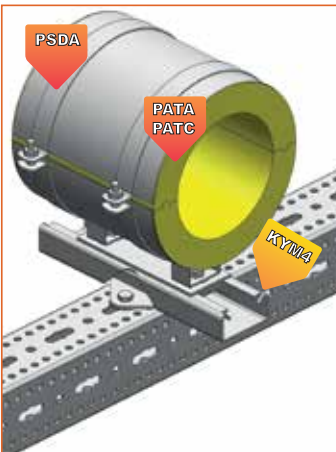
Static Frictional Coefficient (μ): 0,30

KYM4.3474

KYM4.3475


Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.) (mm)		C (mm)	h (mm)	Ød (mm)	L (mm)	Çalışma Aralığı Travel Range (mm)	Uyumlu Profil Suitable For
KYM4.3474.DG	10-14	250-350	139	45	Ø13	270	0-120	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ
KYM4.3475.DG	16-18	400-450	212	60	Ø14	320	0-120	PMP-080.3, PMP-100.3, PMP-120.4, PMP-150.4 G PROFİL SERİSİ

Uygulama / Installation



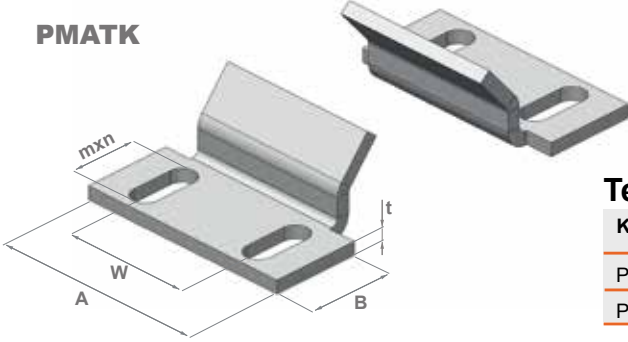
Hizmet / Service

Boruların ısıl genişlemeye dolayı oluşan hareketine izin vererek desteklemek için tasarlanmış Promega uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur.

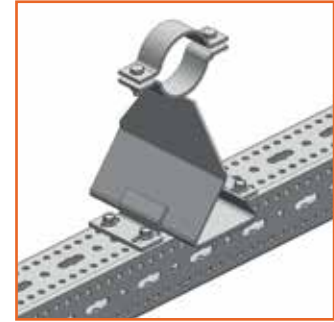
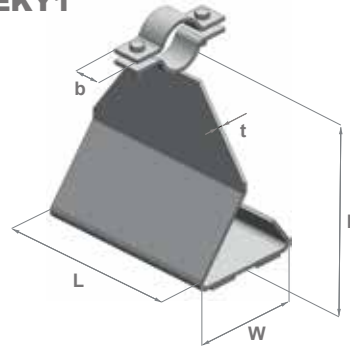
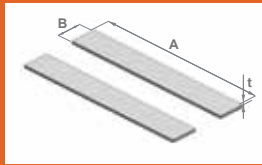
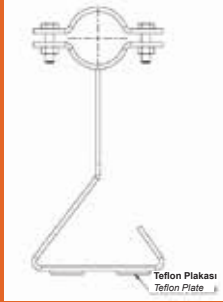
Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy installation.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak Daldırma Galvaniz
Hot-dip galvanized

PMATK

Teknik Bilgi / Technical Data

Kod / Code	A	B	mxn	t	W
PMATK.081	80	40	11x32	6	40
PMATK.101	100	40	11x32	6	60

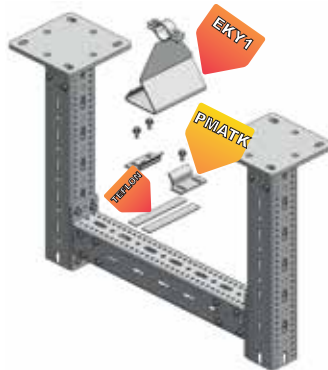
EKY1

Teflon Ölçüleri / Teflon Dimensions


A	B	T	2 adet
200	30	3	

Teflon Dahildir / Teflon Included

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.) (DN)	W (mm)	h (mm)	L (mm)	t	Kelepçe Çelik Ölçüsü Clamp Steel Size	
EKY1.3126	1/2	15	120	191	200	4	25x3
EKY1.3127	3/4	20	120	194	200	4	25x3
EKY1.3128	1	25	120	197	200	4	25x3
EKY1.3129	1 1/4	32	120	201	200	4	25x3
EKY1.3130	1 1/2	40	120	204	200	4	25x3

Uygulama / Installation

Montaj Detayı / Installation Detail:

EKY1 Endüstriyel tip kayar yatakların Promega profile montajı yapılırken EPKC tipi kendinden dış açma özelliğine sahip civata kullanılır. EPKC type bolt is used to fix EKY1 Industrial sliding frame.

Ağır Yük Endüstriyel Tip Kayar Yatak / Heavy Duty Industrial Type Sliding Frame

EKY2

Hizmet / Service

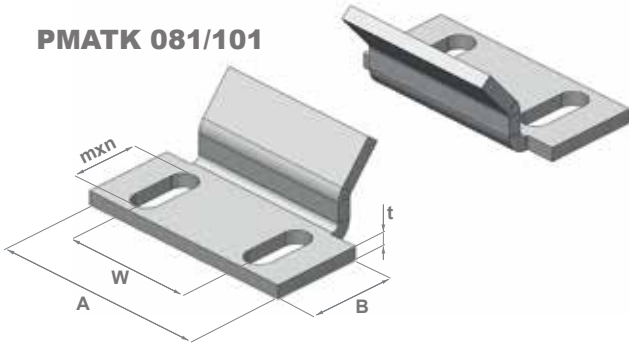
Boruların ısıl genişlemeye bağlı olarak oluşan hareketine izin vererek desteklemek için tasarlanmış Promega uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur.

Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy installation.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak Daldırma Galvaniz
Hot-dip galvanized

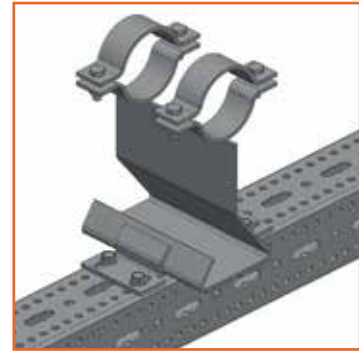
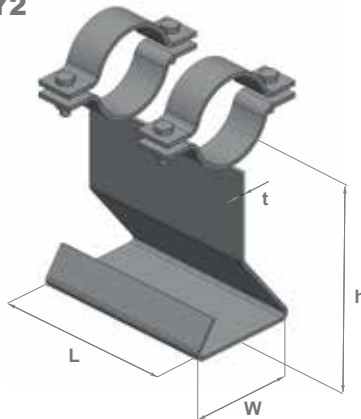
PMATK 081/101



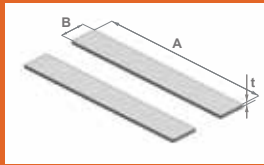
Teknik Bilgi / Technical Data

Kod / Code	A	B	mxn	t	W
PMATK.081	80	40	11x32	6	40
PMATK.101	100	40	11x32	6	60

EKY2



Teflon Ölçüleri / Teflon Dimensions



A	B	T	Adet
200	30	3	2 adet

Teflon Dahildir / Teflon Included

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.)	DN	W (mm)	h (mm)	L (mm)	t	Kelepçe Çelik Ölçüsü Clamp Steel Size
EKY2.3131	2	50	120	210	200	5	25x6
EKY2.3132	2 1/2	65	120	218	200	5	25x6
EKY2.3133	3	80	120	225	200	5	25x6

Uygulama / Installation



Montaj Detayı / Installation Detail:

EKY2 Endüstriyel tip kayar yatakların Promega profile montajı yapılırken EPKC tipi kendinden dış açma özelliğine sahip civata kullanılır.
EPKC type bolt is used to fix EKY2 Industrial sliding frame.

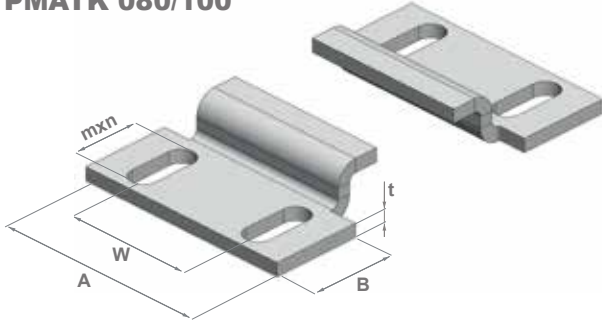
Hizmet / Service

Boruların ısıl genişlemeye dolayı oluşan hareketine izin vererek desteklemek için tasarlanmış Promega uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur.

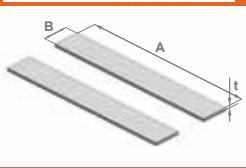
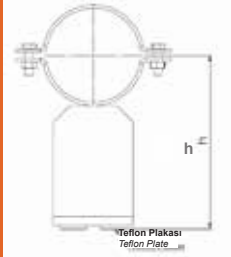
Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy connection.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak Daldırma Galvaniz
Hot-dip galvanized

PMATK 080/100

Teknik Bilgi / Technical Data

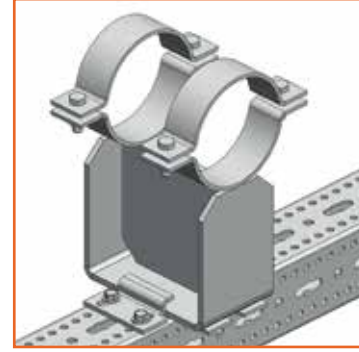
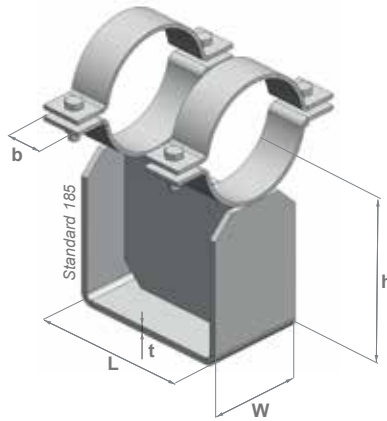
Kod / Code	A	B	mxn	t	W
PMATK.080	80	40	11x32	6	40
PMATK.100	100	40	11x32	6	60

Teflon Ölçüleri / Teflon Dimensions


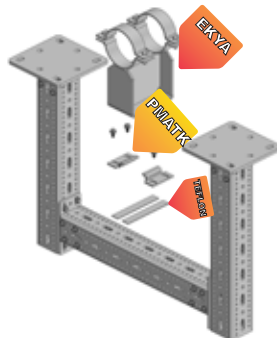
Inch. mm

4-8	30x200x3	2 adet
10-14	40x250x4	2 adet
16-20	50x300x5	2 adet

Teflon Dahildir / Teflon Included


Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.) (DN)		W (mm)	h (mm)	L (mm)	t	Kelepçe Çelik Ölçüsü Clamp Steel Size
EKYA.3134	4	100	120	237	200	8	35x6
EKYA.3135	5	125	120	250	200	8	35x6
EKYA.3136	6	150	120	264	200	8	40x10
EKYA.3137	8	200	120	290	200	8	40x10
EKYA.3138	10	250	140	317	250	8	50x12
EKYA.3139	12	300	140	342	250	8	50x12
EKYA.3140	14	350	140	358	250	8	60x12
EKYA.3141	16	400	200	383	300	10	60x12
EKYA.3142	18	450	200	409	300	10	60x15
EKYA.3143	20	500	200	434	300	10	60x15

Uygulama / Installation

Montaj Detayı / Installation Detail:

EKYA Endüstriyel tip kayar yatakların Promega profile montajı yapılırken EPKC tipi kendinden dış açma özelliğine sahip civata kullanılır. EPKC type bolt is used to fix EKYA Industrial sliding frame.

Sabit Nokta Kelepçesi / Fixed Point Clamp

PM-EFPA

Hizmet / Service

Boru hatlarında, uzamalarda istenmeyen malzeme gerilmesini ve koç darbesinden kaynaklanan beklenmedik yer değiştirmeleri önlemek için dizayn edilmiştir.

Designed for protect piping at "changes-in-direction" from excessive bending stress and undesirable movement caused by water hammer.

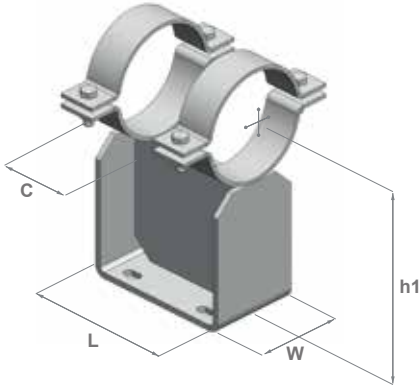
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

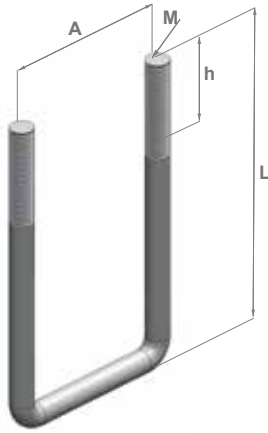
Standart Kaplama / Coating:

Sıcak Daldırma Galvaniz
Hot-dip galvanized

PMEFPA



PMKBT



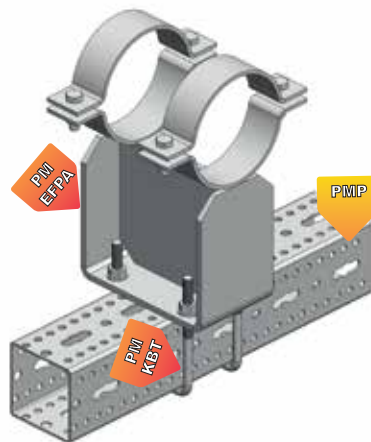
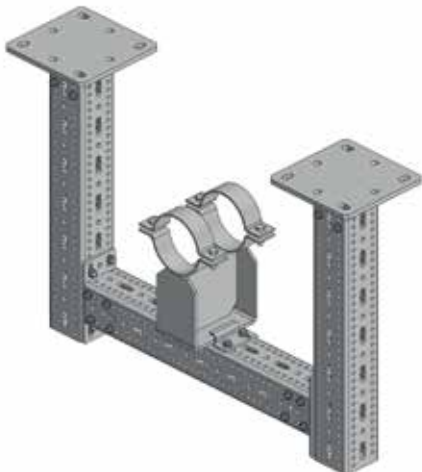
Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size (inch.) (DN)		L	C	W	h1
PMEFPA.015	1/2	15	160	110	50	91
PMEFPA.020	3/4	20	160	110	50	93
PMEFPA.025	1	25	160	110	50	97
PMEFPA.032	1 1/4	32	160	110	50	101
PMEFPA.040	1 1/2	40	160	110	60	114
PMEFPA.050	2	50	210	110	60	120
PMEFPA.065	2 1/2	65	210	110	60	128
PMEFPA.080	3	80	210	110	60	135
PMEFPA.100	4	100	210	150	100	167
PMEFPA.125	5	125	210	130	100	180
PMEFPA.150	6	150	210	130	100	195
PMEFPA.200	8	200	270	170	150	220

Teknik Bilgi / Technical Data

Kod / Code	A	L	h	M	Uygun Profil Suitable For
PMKBT.080	96	140	60	M.12	PMP-080.3
PMKBT.100	116	160	60	M.16	PMP-100.3
PMKBT.120	116	180	60	M.16	PMP-120.4
PMKBT.150	120	210	60	M.16	PMP-150.4

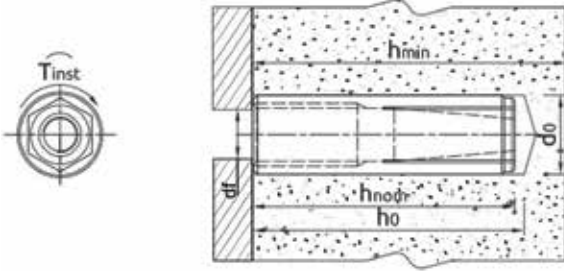
Uygulama / Installation





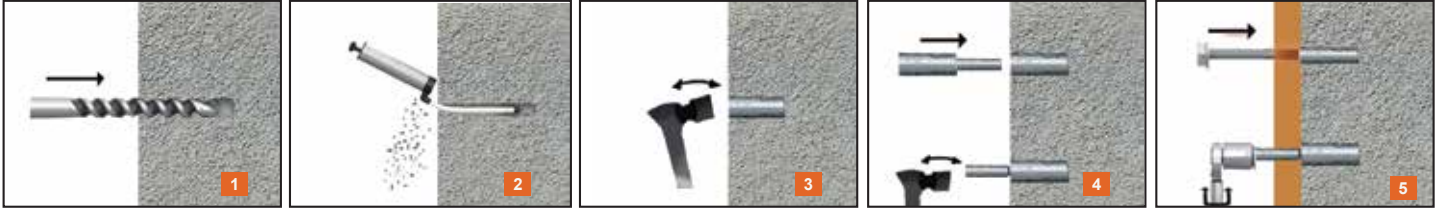
Ürün Özellikleri - Avantajları / Features and Benefits

- Çatlaklı ve çatlaksız betonlarda yüksek performans ETA tarafından onaylanmıştır. *High performance in cracked and non-cracked concrete confirmed by ETA.*
- Ürün yangına dayanıklılık gerektiren uygulamalar için önerilir. *Product recommended for applications requiring fire resistance.*
- Rot veya cıvata ile birlikte kullanılabilir. *Internally threaded to be used with threaded rod bolt.*
- Çekiç ile kolay montaj. *Easy to install by hammer action.*
- Oluklü manşon ve iç kama bileşenleri montajı kolaylaştırır. *Slotted sleeve and internal drop in component together facilitate easy setting and expansion.*



Uygulama Adımları / Installation Guide

- 1 Belirtilen çap ve derinlikte delik deliniz. *Drill a hole of required diameter and depth.*
- 2 Delme deliğindeki tozu ve kalıntıları temizleyiniz (Hava pompası veya eşdeğer yöntem kullanarak) *Clear the hole of drilling dust and debris (Using blowpump or equivalent method).*
- 3 Pimli dübeli deliğin içine yerleştirin. *Insert wedge anchor, slotted end first.*
- 4 İstenen derinliğe gelene kadar montaj elemanlarını kullanarak dübeli sabitleyiniz. *Use the setting tool to drive the internal wedge into the anchor.*
- 5 Önerilen montaj tork değerine göre sıkıştırınız. *Insert bolt or stud through fixture and tighten to the recommended torque.*

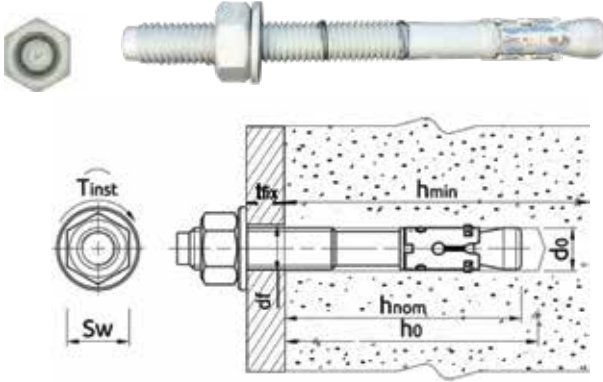


Ürün Bilgisi / Product Information

Ölçü / Size	Ürün Kodu Product Code	Dübel / Anchor				Fikstür / Fixture
		Çap / Dia	Dış Çap Outer Dia	Diş Boyu Thread Diameter	Uzunluk Length	Delik Çapı Hole Dia.
		d (mm)	d _{nom} (mm)	lg (mm)	L (mm)	d _f (mm)
M8	LC-08-30	8	10	13	30	9
M10	LC-10-40	10	12	15	40	12
M12	LC-12-50	12	15	20	50	14
M16	LC-16-65	16	20	25	65	18

Kurulum Bilgileri / Installation Data

Ölçü / Size			M8	M10	M12	M16
Diş çapı / Thread diameter	d	(mm)	8	10	12	16
Yapıdaki delik çapı / Hole diameter in substrate	d ₀	(mm)	10	12	15	20
Kurulum tork / Installation torque	T _{inst}	(Nm)	12	22	38	98
Min. Yapı delik derinliği / Min. Hole depth in substrate	h ₀	(mm)	15	42	53	70
Kurulum derinliği / Installation depth	h _{nom}	(mm)	20	40	50	65
Min. Yapı kalınlığı / Min. Substrate thickness	h _{min}	(mm)	20	80	100	130
Min. Aralık / Min. Spacing	s _{min}	(mm)	105	220	220	220
Min. Kenar mesafesi / Min. Edge distance	C _{min}	(mm)	105	220	220	220

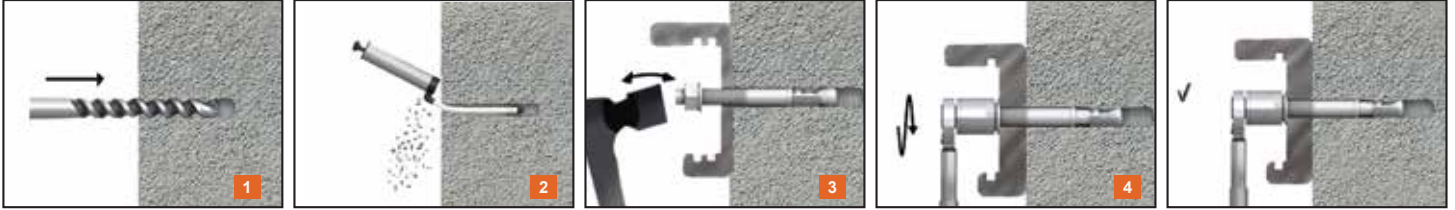


Ürün Özellikleri - Avantajları / Features and Benefits

- Çatlaklı ve çatlaksız betonlarda yüksek performans ETA Option 1 tarafından onaylanmıştır. *High performance in cracked and non-cracked concrete confirmed by ETA Option 1.*
- Sismik yüklemeye altında C1, C2 performans kategorileri için kullanılabilirliği onaylanmıştır. *Approved for use under seismic loading performance categories C1, C2.*
- Ürün yangına dayanıklılık gerektiren uygulamalar için önerilir. *Product recommended for applications requiring fire resistance.*
- Rod veya civata ile birlikte kullanılabilir. *Internally threaded to be used with threaded stud or bolt.*
- Çekiş ile kolay montaj. *Easy to install by hammer action.*
- Oluklu manşon ve iç kama bileşenleri montajı kolaylaştırır. *Slotted sleeve and internal wedge component together facilitate easy setting and expansion.*

Uygulama Adımları / Installation Guide

- 1 Gerekli çap ve derinlikte delik açınız. *Drill a hole of required diameter and depth.*
- 2 Delikteki tozu ve atığı temizleyiniz (hava pompası veya benzer yöntem kullanarak) *Clean / the hole of drilling dust and debris (using blowpump or equivalent method)*
- 3 Dübeli deliğe doğru, sabitleme derinliğine ulaşıncaya kadar bir çekiş ile hafifçe vurunuz. *Lightly tap the throughbolt through the fixture into hole with a hammer, until fixing depth is reached.*
- 4 Önerilen tork değerine kadar sıkınız. *Tighten to the recommended torque.*

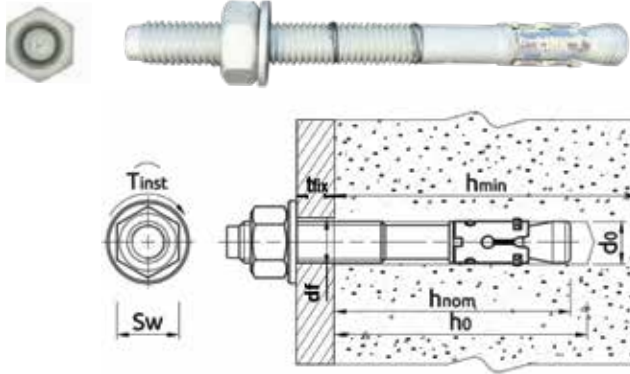


Ürün Bilgisi / Product Information

Ölçü / Size	Ürün Kodu Product Code	Dübel / Anchor		Fikstür / Fixture		Delik Çapı Hole Dia.
		Çap / Dia	Uzunluk Lenght	Max. Kalınlık Max. Thickness for t_{fix}		
		d (mm)	L (mm)	$h_{nom,r}$ (mm)	$h_{nom,s}$ (mm)	d_f (mm)
M8	LTS-08080/15	8	80	30	15	9
M10	LTS-10080/20	10	80	20	-	11
	LTS-10115/35	10	115	55	35	11
M12	LTS-12120/25	12	120	45	25	13
M16	LTS-16140/20	16	140	40	20	18

Kurulum Bilgileri / Installation Data

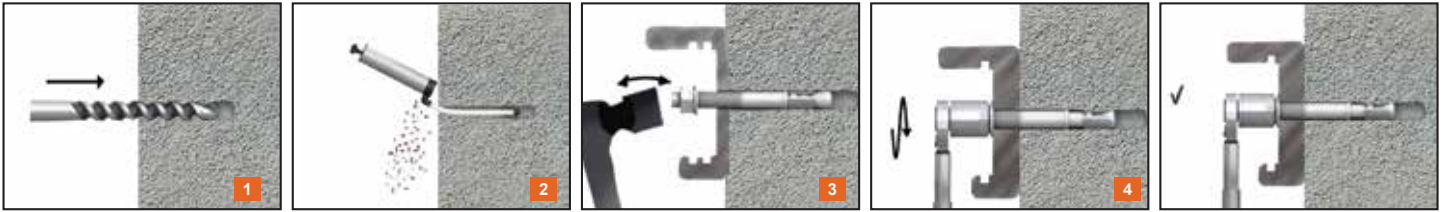
		Standart / Standard				İndirgenmiş / Reduced			
		M8	M10	M12	M16	M8	M10	M12	M16
Diş çapı / Thread diameter	d (mm)	8	10	12	16	8	10	12	16
Yapıdaki delik çapı / Hole diameter in substrate	d_0 (mm)	8	10	12	16	8	10	12	16
Kurulum tork / Installation torque	T_{inst} (Nm)	10	20	40	100	10	20	40	100
ANKRAJ DERİNLİĞİ / EMBEDMENT DEPTH									
Min. Yapı delik derinliği / Min. Hole depth in substrate	$h_{0,s-r}$ (mm)	65	79	90	110	50	59	70	90
Kurulum derinliği / Installation depth	$h_{nom,s-r}$ (mm)	55	69	80	100	40	49	60	80
Min. Yapı kalınlığı / Min. Substrate thickness	$h_{min,s-r}$ (mm)	100	120	140	170	100	100	100	130
Min. Aralık (çatlaksız) / Min. Spacing (Non-cracked concrete)	$s_{min,s-r}$ (mm)	50	70	90	160	55	75	150	190
Min. Aralık (çatlaklı) / Min. Spacing (Cracked concrete)	$s_{min,s-r}$ (mm)	50	70	90	160	55	75	150	190
Min. Kenar mesafesi (çatlaksız) / Min. Edge distance (Non-cracked)	$c_{min,s-r}$ (mm)	40	50	65	100	45	60	100	125
Min. Kenar mesafesi (çatlaklı) / Min. Edge distance (Cracked concrete)	$c_{min,s-r}$ (mm)	40	45	65	90	40	50	80	110


Ürün Özellikleri - Avantajları / Features and Benefits


- Çatlaksız betondaki yüksek performansı ETA Option 7 tarafından onaylanmıştır. / High performance in non-cracked concrete confirmed by ETA Option 7.
- Maliyet etkinliği ile yüksek kalite. / High quality with cost effectiveness.
- Ankraj derinliği işaretlemeleri, dübelin kusursuz bir şekilde kurulum sağlanmasına yardımcı olur. / Embedment depth markings help to ensure precise installation of the anchor.
- Tasarım, doğrudan fikstür boyunda delinmesine ve kurulmasına izin vererek kurulum gücünü azaltmaya yardımcı olur. / Design allows drilling and installing directly through the fixture and helps to reduce installation effort.
- Soğuk şekillendirilmiş gövde, boyutsal doğruluk sağlar. / Cold formed body ensures consistent dimensional accuracy.
- Kolay kurulum / Simple through-installation.

Uygulama Adımları / Installation Guide

- 1 Gerekli çap ve derinlikte delik açınız. / Drill a hole of required diameter and depth.
- 2 Delikteki tozu ve atığı temizleyiniz (hava pompası veya benzer yöntem kullanarak) / Clear hole of drilling dust and debris (using blowpump or equivalent method)
- 3 Dübeli deliğe doğru, sabitleme derinliğine ulaşıncaya kadar bir çekiç ile hafifçe vurunuz. / Lightly tap the throughbolt through the fixture into hole with a hammer, until fixing depth is reached.
- 4 Önerilen tork değerine kadar sıkınız. / Tighten to the recommended torque.


Ürün Bilgisi / Product Information

Ölçü / Size	Ürün Kodu Product Code	Dübel / Anchor		Fikstür / Fixture		Delik Çapı Hole Dia.
		Çap / Dia d (mm)	Uzunluk Lenght L (mm)	Max. Kalınlık Max. Thickness for t_{fix}		
				$h_{nom,r}$ (mm)	$h_{nom,s}$ (mm)	
M8	LT-08080/15	8	80	30	30	9
M10	LT-10115/45	10	115	55	55	11
M12	LT-12120/25	12	120	45	45	13

Kurulum Bilgileri / Installation Data

			Standart / Standard			İndirgenmiş / Reduced		
			M8	M10	M12	M8	M10	M12
Diş çapı / Thread diameter	d	(mm)	8	10	12	8	10	12
Yapıdaki delik çapı / Hole diameter in substrate	d_0	(mm)	8	10	12	8	10	12
Kurulum tork / Installation torque	T_{inst}	(Nm)	15	30	50	15	30	50
ANKRAJ DERİNLİĞİ / EMBEDMENT DEPTH								
Min. Yapı delik derinliği / Min. Hole depth in substrate	$h_{0,s-r}$	(mm)	55	59	80	40	49	60
Kurulum derinliği / Installation depth	$h_{nom,s-r}$	(mm)	55	59	80	40	49	60
Min. Yapı kalınlığı / Min. Substrate thickness	$h_{min,s-r}$	(mm)	100	100	136	100	100	100
Min. Aralık / Min. Spacing	$s_{min,s-r}$	(mm)	50	55	75	45	55	100
Min. Kenar mesafesi / Min. Edge distance	$c_{min,s-r}$	(mm)	40	50	65	40	65	100

Çatlaklı ve Çatlaksız Betonda Kullanım Onaylı Yüksek Performanslı Vinylester Reçine
High Performance Vinylester Resin Approved for Use in Cracked and non-Cracked



Ürün Özellikleri - Avantajları / Features and Benefits

- Çatlaklı ve çatlaksız betonlarda dişli rotlar ile kullanımı onaylıdır. / *Approved for use with threaded rods for use in cracked and non-cracked concrete (EAD 330499-00-0601)*
- Düşük sıcaklıklarda (-20 °C ye kadar) kullanıma uygundur. / *Suitable for use in low temperatures (down to -20°C for winter option) enables use througho ut the year.*
- Kuru ve ıslak yüzeyler ile su dolu deliklerde kullanıma uygundur. / *Suitable for use in dry or wet substrates and water filled hole..*
- Hızlı bağlanma süresi ile hızlı montaja izin verir. / *Rapid bonding time enables quick execution of works.*
- Yüksek yük dayanımı. / *Very high load capacity*
- Dübel, yapıda gerilimler oluşturmadığı için daha küçük dübel aralıklarına ve kenar mesefelerine izin verir. / *Anchor does not generate tensions in the sub strate which enables R-KER to be specified where closer edge and spacing distances are required.*



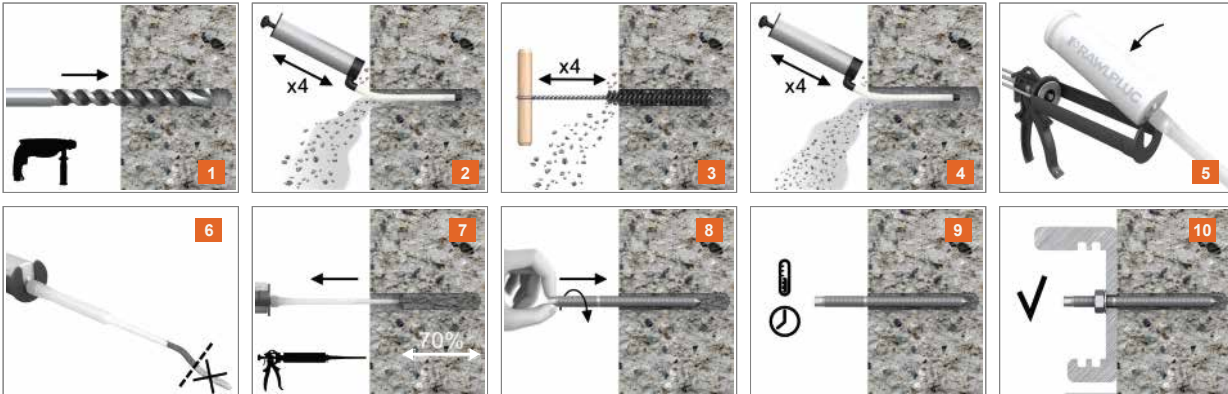
Uygulamalar / Applications

- Perde duvar / *Curtain walling*
- Korkuluk / *Handrails*
- Tente / *Canopies*
- Panel güçlendirme sistemi / *Large panel reinforcing system*
- Kablo boruları ve tavaları / *Cable conduits and trays*
- Çit ve kapı uygulamaları / *Fencing & gates manufacturing and installation*
- Boru kanal askıları / *Pipework/ductwork supports*
- Platformlar / *Platforms*
- Boru hattı sistemleri / *Pipelines systems*
- Asansörler / *Passenger lifts*

Yapı Materyalleri / Base Materials

- Kullanımı onaylı / *Approved for use in:*
- Çatlaklı beton / *Cracked concret C20/25-C50/60e*
- Çatlaksız beton / *non- Cracked concrete C20/25-C50/60*

Uygulama Adımları / Installation Guide



Teknik Bilgi / Technical Data

Kod / Code	Reçine Resin	Açıklama / Reçine Tipi Description / Resin Type	Hacim Volume
R-KER-300	R-KER	Stiren İçermeyen Vinilester Reçine Styrene Free Vinylester Resin	300
R-KER-345			345
R-KER-380			380
R-KER-400			400

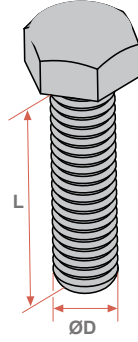
Altı Köşe Civata
Hexagon Head Bolt
CC
Malzeme / Material
 Çelik / Steel

Standart Kaplama / Standart Finish
 Elektro galvaniz / Zinc Plated

Malzeme Özellik Sınıfları / Material Class
 8.8

CC Ölçüler / Dimensions

Kod / Code	Civata Ölçüsü / Bolt Size D x L mm
CC.800825	M.8x25
CC.800850	M.8x50
CC.801025	M.10x25
CC.801035	M.10x35
CC.801050	M.10x50
CC.801225	M.12x25
CC.801235	M.12x35
CC.801250	M.12x50
CC.801635	M.16x35
CC.801650	M.16x50
CC.801670	M.16x70
CC.802040	M.16x40

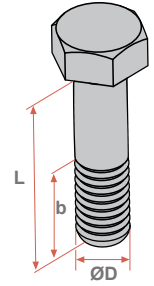

DIN 933
ISO 4017
Altı Köşe Civata
Hexagon Head Bolt
EPSS
Malzeme / Material
 Çelik / Steel

Standart Kaplama / Standart Finish
 Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

Malzeme Özellik Sınıfları / Material Class
 8.8

EPSS Ölçüler / Dimensions

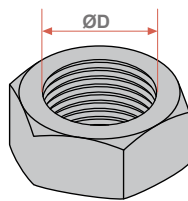
Kod / Code	Civata Ölçüsü / Bolt Size D x L mm
EPSS.21214	M.12x140
EPSS.21217	M.12x170
EPSS.22016	M.20x160
EPSS.22024	M.20x240


DIN 931
ISO 4014
Altı Köşe Somun
Hexagon Head Nut
CS
Malzeme / Material
 Çelik / Steel

Standart Kaplama / Standart Finish
 Elektro galvaniz / Zinc Plated

CS Ölçüler / Dimensions

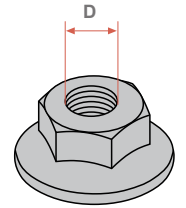
Kod / Code	Somun Ölçüsü / Nut Size D mm
CS.8808	M.8
CS.8810	M.10
CS.8812	M.12
CS.8816	M.16
CS.8820	M.20


DIN 934
Altı Köşe Flanşlı Somun
Hexagonal Flange Nut
EPCS
Malzeme / Material
 Çelik / Steel

Standart Kaplama / Standart Finish
 Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

EPCS Ölçüler / Dimensions

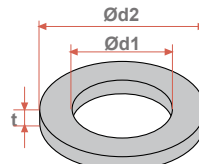
Kod / Code	Somun Ölçüsü / Nut Size D mm
EPCS.0212	M.12
EPCS.0220	M.20


DIN 6923
Düz Pul
Flat Washer
PR
Malzeme / Material
 Çelik / Steel

Standart Kaplama / Standart Finish
 Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

PR Ölçüler / Dimensions

Kod / Code	Anma Çapı / Thread Size mm	Ød1 mm	Ød2 mm	tmin mm
PR.0212	M.12	13.0	24.0	2.3
PR.0220	M.20	21.0	37.0	2.7


DIN 125

Bağlantı ve Dişli Aksesuarlar / Connection & Threaded Accessories

Çeşitli Dişli Bağlantı Elemanları Various Other Connection & Threaded Accessories

Malzeme / Material : Çelik / Steel

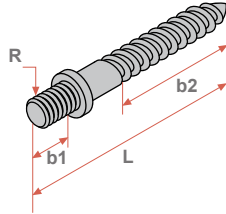
Standart Kaplama / Standart Finish

Elektro galvaniz / Zinc Plated

BEL1

Trifon / Threaded Lag Screw

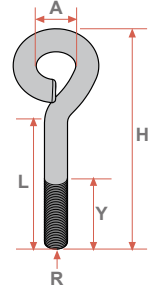
Kod / Code	Rot Ölçüsü Rod Size R x L mm	b1 mm	b2 mm
BEL1.5106	M.8x50	15	30
BEL1.5107	M.8x65	15	45
BEL1.5108	M.10x80	20	50



BEL2

Göz Rot-2 / Linked Eye Rod-2

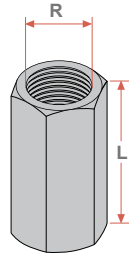
Kod / Code	A mm	Rot Ölçüsü Rod Size R	L mm	Y mm	H mm
BEL2.5410	30	M.8	160	100	200
BEL2.5411	40	M.10	210	100	250
BEL2.5412	50	M.12	240	100	300
BEL2.5413	50	M.16	290	100	350



BEL3

Uzatma Manşonu / Steel Rod Coupling

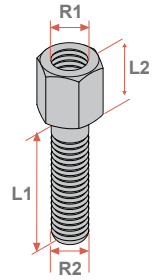
Kod / Code	R	L mm	Dizayn Yüklü Design Load kN
BEL3.5108	M.8	40	1,33
BEL3.5110	M.10	40	2,11
BEL3.5112	M.12	40	3,25
BEL3.5116	M.16	40	6,00
BEL3.5120	M.20	40	9,61
BEL3.5124	M.24	40	14,37



CSY

Adaptör Cıvata / Adaptor Bolt

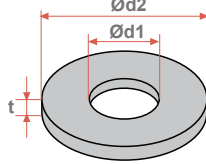
Kod / Code	R1 x R2	L1 mm	L2 mm
CSY.8320	M.8xM.8	20	40
CSY.8321	M.8xM.10	20	40
CSY.8322	M.10xM.8	20	40
CSY.8323	M.10xM.10	20	40
CSY.8324	M.10xM.12	20	40
CSY.8325	M.12xM.8	25	40
CSY.8326	M.12xM.10	25	40
CSY.8327	M.12xM.12	25	40



PRG

Geniş Düz Pul / Large Size Washer

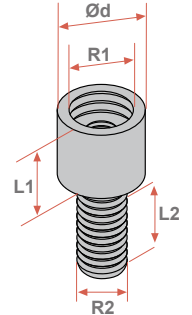
Kod / Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	t mm
PRG.8808	M.8	8,4	24,0	2,5
PRG.8810	M.10	10,5	30,0	3,0
PRG.8812	M.12	13,0	37,0	3,0
PRG.8816	M.16	17,0	50,0	4,0



CSY1

Adaptör Cıvata / Adaptor Bolt

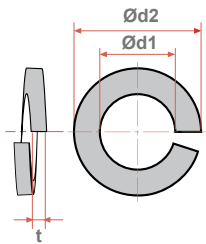
Kod / Code	R1 x R2	Ød mm	L1 mm	L2 mm
CSY1.8347	M.8 x M.10	15	30	40
CSY1.8348	M.10 x M.12	18	30	40
CSY1.8349	M.12 x M.16	20	40	40
CSY1.8350	M.16 x M.20	27	40	40



PRY

Yaylı Rondela / Spring Lock Washer

Kod / Code	Anma Çapı Thread Size mm	D1 mm	D2 mm	t mm
PRY.8808	M.8	8,5	14,8	1,9
PRY.8810	M.10	10,5	18,1	2,1
PRY.8812	M.12	12,5	21,1	2,4
PRY.8816	M.16	16,5	27,4	3,3
PRY.8820	M.20	20,5	33,6	3,8

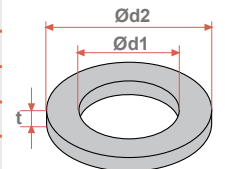


DIN 127

PR

Düz Pul / Flat Washer

Kod / Code	Anma Çapı Thread Size mm	D1 mm	D2 mm	t mm
PR.8808	M.8	8,4	16,0	1,4
PR.8810	M.10	10,5	20,0	1,8
PR.8812	M.12	13,0	24,0	2,3
PR.8816	M.16	17,0	30,0	2,7
PR.8820	M.20	21,0	37,0	2,7



DIN 125

Teknik Bilgi / Technical Data

Kod / Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yüğü Design Load kN
CR.060060	M.6 x 60	2000	22,40	4,56
CR.060080	M.6 x 80	2000	29,80	4,56
CR.080035	M.8 x 35	2000	24,20	8,15
CR.080055	M.8 x 55	1200	22,80	8,15
CR.080100	M.8 x 100	600	20,82	8,15
CR.100035	M.10 x 35	1600	37,28	12,87
CR.100055	M.10 x 55	800	24,48	12,87
CR.100100	M.10 x 100	400	22,24	12,87
CR.120080	M.12 x 80	300	19,20	18,55
CR.120100	M.12 x 100	300	24,00	18,55
CR.120140	M.12 x 140	300	33,60	18,55
CR.140100	M.14 x 100	50	5,50	25,41
CR.140140	M.14 x 140	50	7,70	25,41
CR.160100	M.16 x 100	50	7,25	33,34
CR.160140	M.16 x 140	50	10,10	33,34
CR.160200	M.16 x 200	50	14,50	33,34
CR.180140	M.18 x 140	20	5,40	42,35
CR.180200	M.18 x 200	20	7,50	42,35
CR.200150	M.20 x 150	20	6,80	52,12
CR.200200	M.20 x 200	20	9,00	52,12

Kod / Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yüğü Design Load kN
CR.061000	M.6 x 1000	100	18,70	4,56
CR.062000	M.6 x 2000	100	37,40	4,56
CR.081000	M.8 x 1000	50	17,35	8,15
CR.082000	M.8 x 2000	25	17,35	8,15
CR.101000	M.10 x 1000	25	13,90	12,87
CR.102000	M.10 x 2000	20	22,8	12,87
CR.121000	M.12 x 1000	25	20,00	18,55
CR.122000	M.12 x 2000	15	24,00	18,55
CR.141000	M.14 x 1000	20	22,00	25,41
CR.142000	M.14 x 2000	20	44,00	25,41
CR.161000	M.16 x 1000	10	14,50	33,34
CR.162000	M.16 x 2000	10	29,00	33,34
CR.181000	M.18 x 1000	10	18,50	42,35
CR.182000	M.18 x 2000	10	37,00	42,35
CR.201000	M.20 x 1000	5	11,25	52,12
CR.202000	M.20 x 2000	5	22,50	52,12
CR.221000	M.22 x 1000	5	13,30	63,25
CR.222000	M.22 x 2000	5	26,60	63,25
CR.241000	M.24 x 1000	5	16,30	75,46
CR.242000	M.24 x 2000	5	32,60	75,46
CR.271000	M.27 x 1000	5	21,50	95,79
CR.272000	M.27 x 2000	5	43,00	95,79
CR.301000	M.30 x 1000	5	26,50	118,54
CR.302000	M.30 x 2000	5	53,00	118,54
CR.361000	M.36 x 1000	5	39,50	170,74
CR.362000	M.36 x 2000	5	79,00	170,74
CR.421000	M.42 x 1000	5	48,50	233,11
CR.422000	M.42 x 2000	5	97,00	233,11

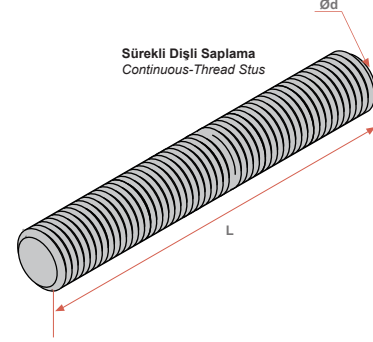
Dişli Saplamalar / Thread Stud

Malzeme / Material : Çelik / Steel

CR

Standart Kaplama / Standart Finish Grade

Elektro Galvaniz / Zinc Plated



Dişli Askı Rotları / Thread Hanging Rods

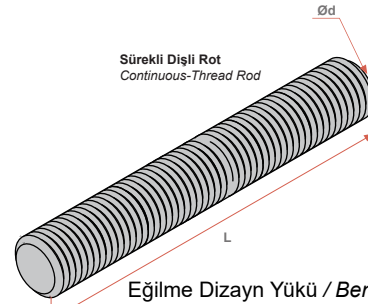
Malzeme / Material : Çelik / Steel

CR

Malzeme Özellik Sınıfları / Material Class: 4.6

Standart Kaplama / Standart Finish Grade

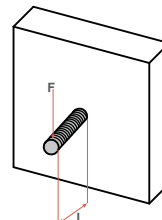
Elektro Galvaniz / Zinc Plated



Eğilme Dizayn Yüğü / Bending Design Load (*)

Uzunluk L mm	M8 F(kN)	M10 F(kN)	M12 F(kN)	M16 F(kN)
50	0,10	0,20	0,34	0,87
100	0,04	0,10	0,17	0,43
150	0,02	0,05	0,11	0,29
200	0,01	0,08	0,06	0,21
250		0,02	0,04	0,15
300		0,01	0,03	0,09
350			0,02	0,07
400			0,01	0,05

(*)Emniyet Faktörü/ Safety Factor: 1.5
Max. Sehım / Max. Deflection f=L/150



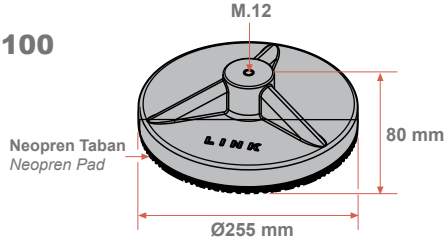
Polimer Beton Ayaklar / Polymer Concrete Bases

Hizmet / Service

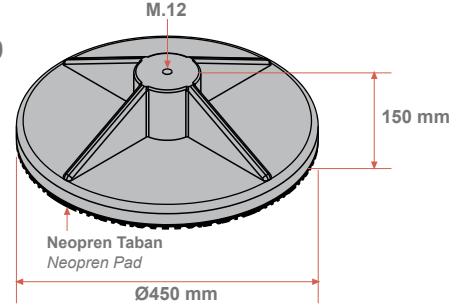
Çatıdaki izolasyona zarar vermeden, delik delmeden; boru, kanal, elektrik tavası ve ekipmanların istenen yükseklik ve genişlikte desteklenme sistemlerinin uygulanabilmesi için dizayn edilmiştir.

The bases are designed to support piping, ducting, cable tray and equipments at any specified height or width, with allowing installation without roof penetrations, flashings or damage to the roofing material.

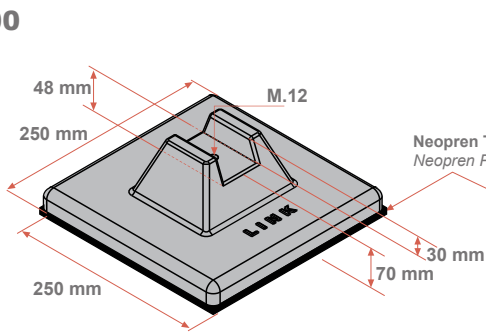
PLYA.100



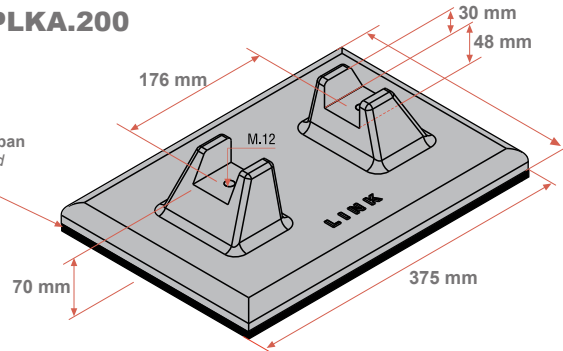
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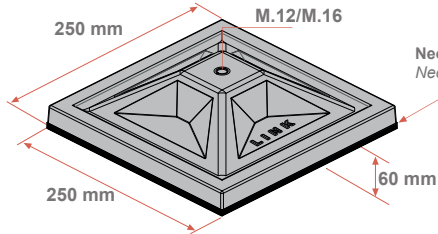
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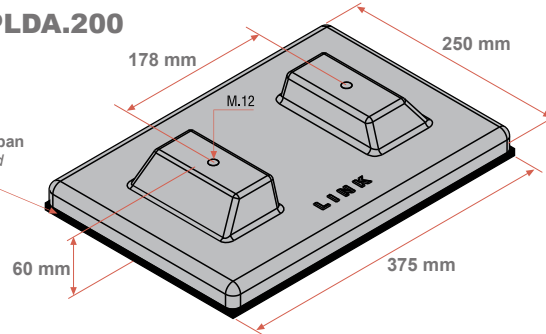
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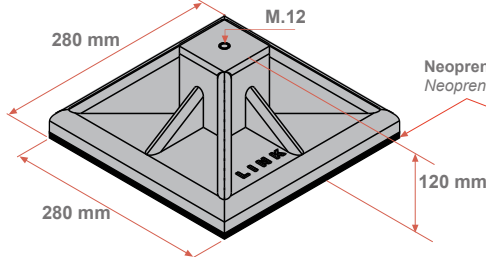
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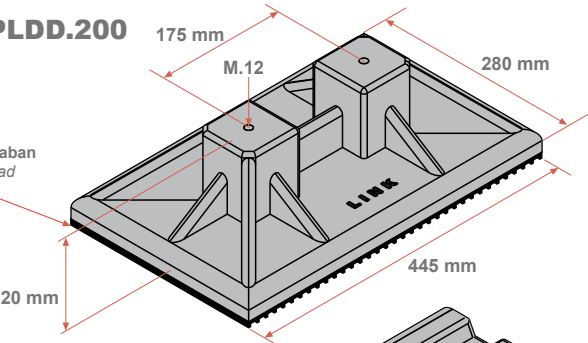
PLDA.200



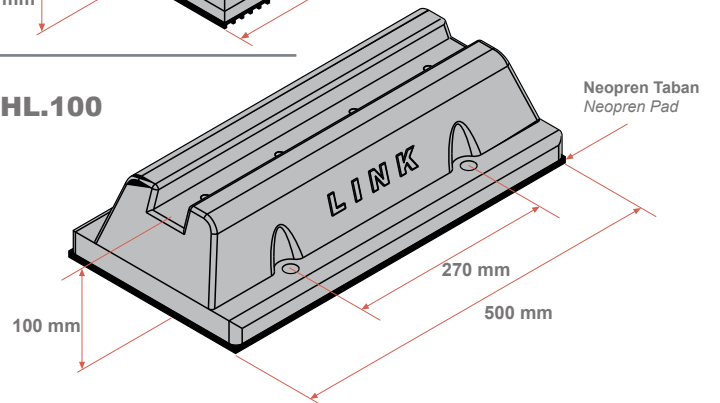
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PLDD.200



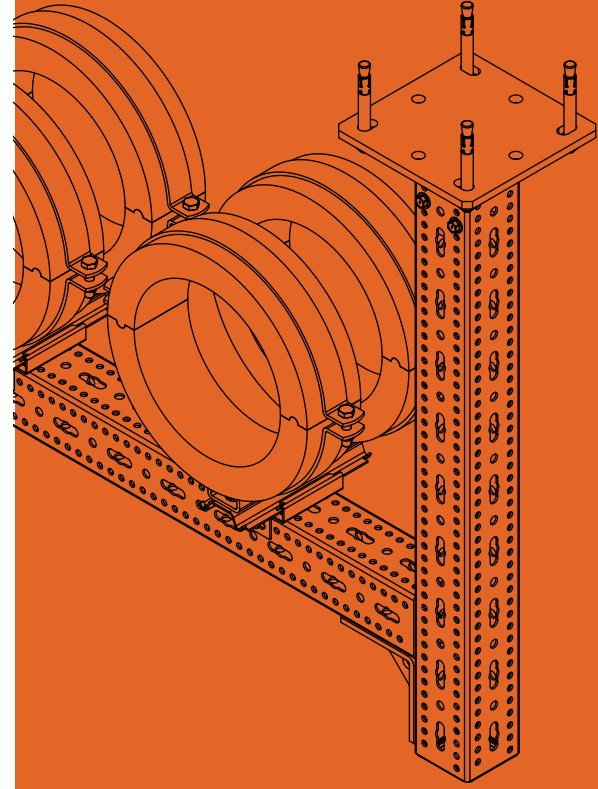
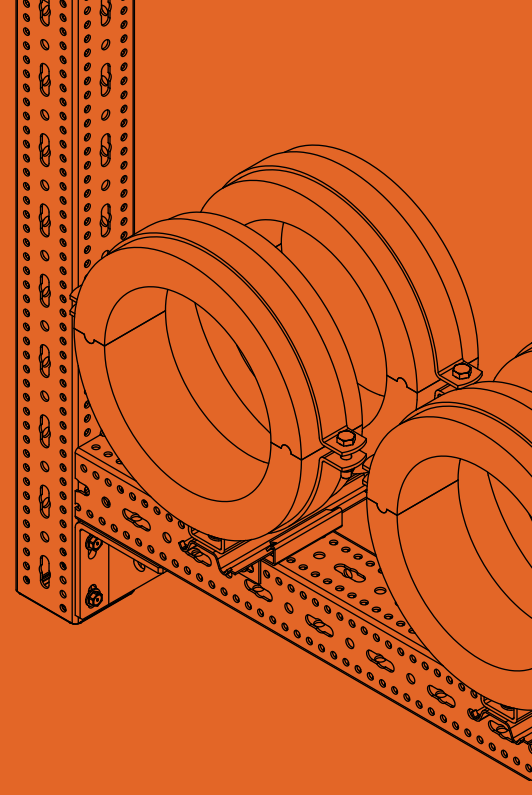
PLHL.100



Uygulama örneği sayfa:64/69
Applications example page: 64/69

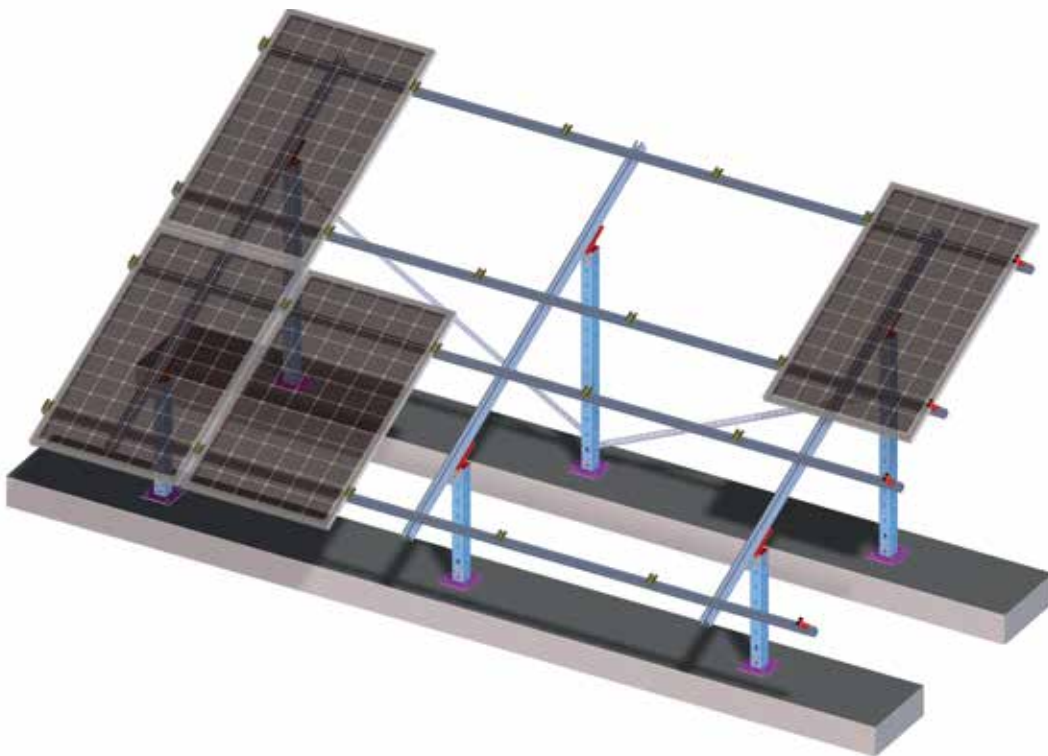
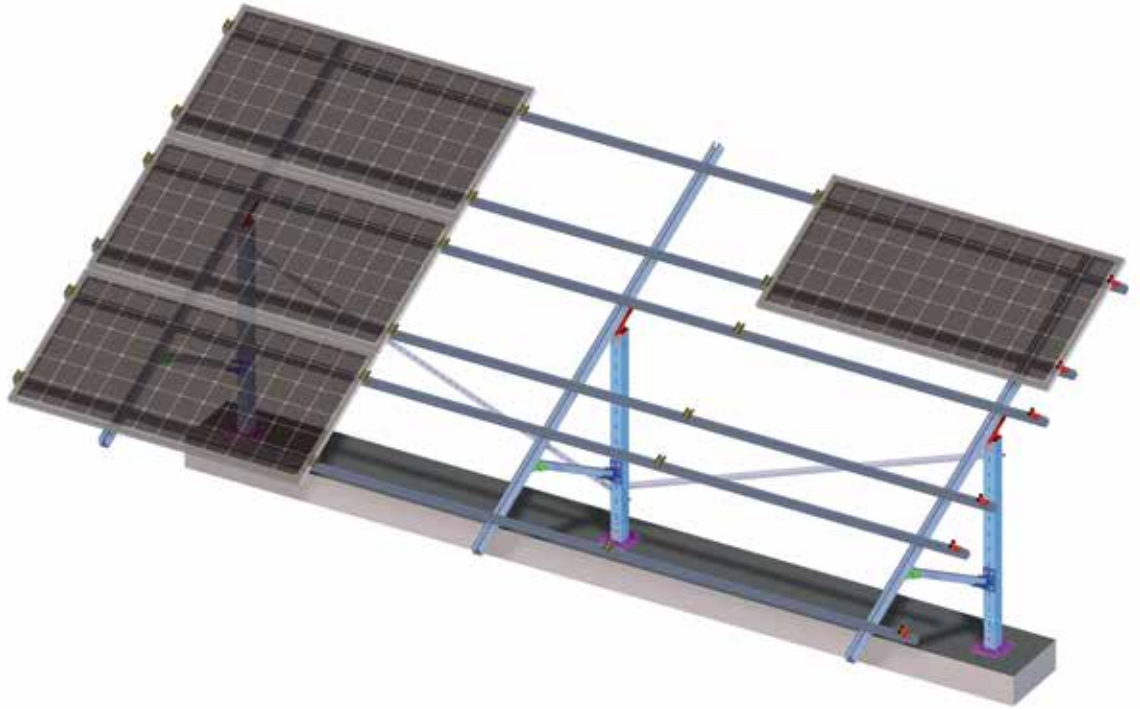
Uygulama Örnekleri

Application Examples

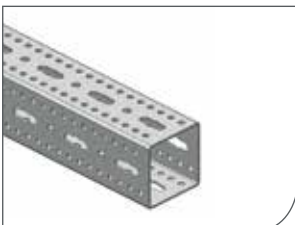


Solar Sistem

Solar System



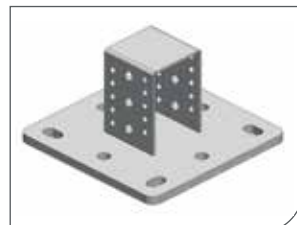
PMP-100.3



PM-MFS.080/100



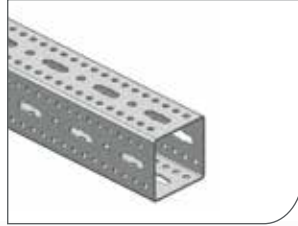
PM-TTA



Platform - 1

Platform

PMP-100.3



PM-HK



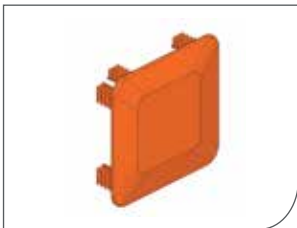
EPKC



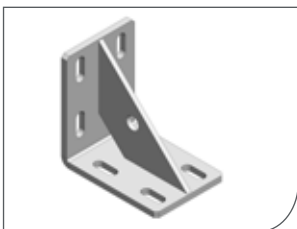
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PM-PC



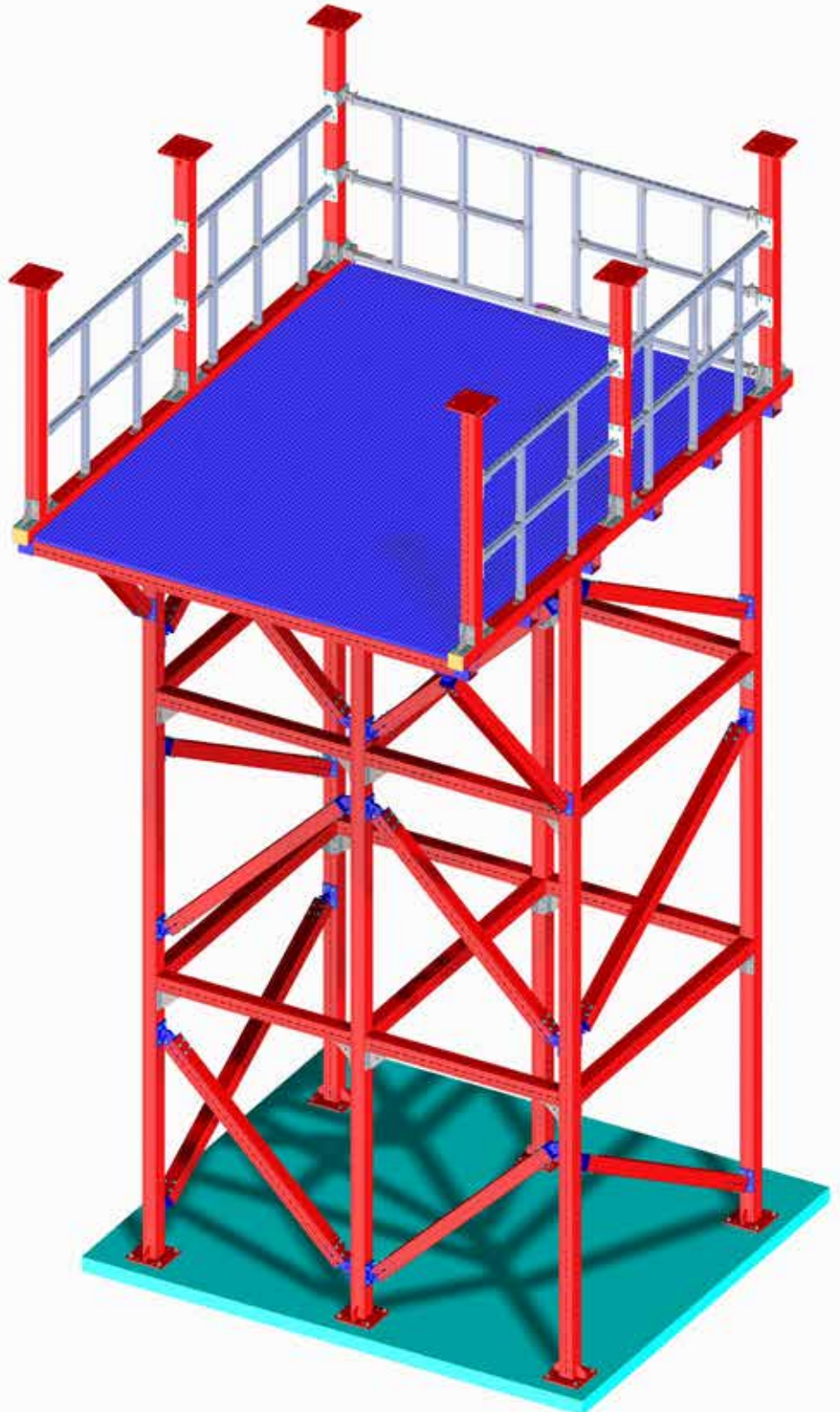
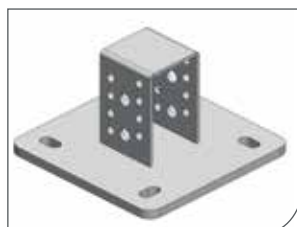
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PM-MFS



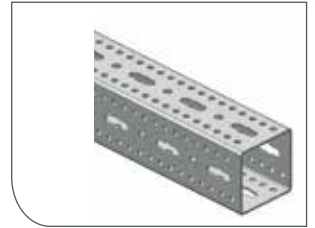
PM-TTA



Platform- 2

Platform

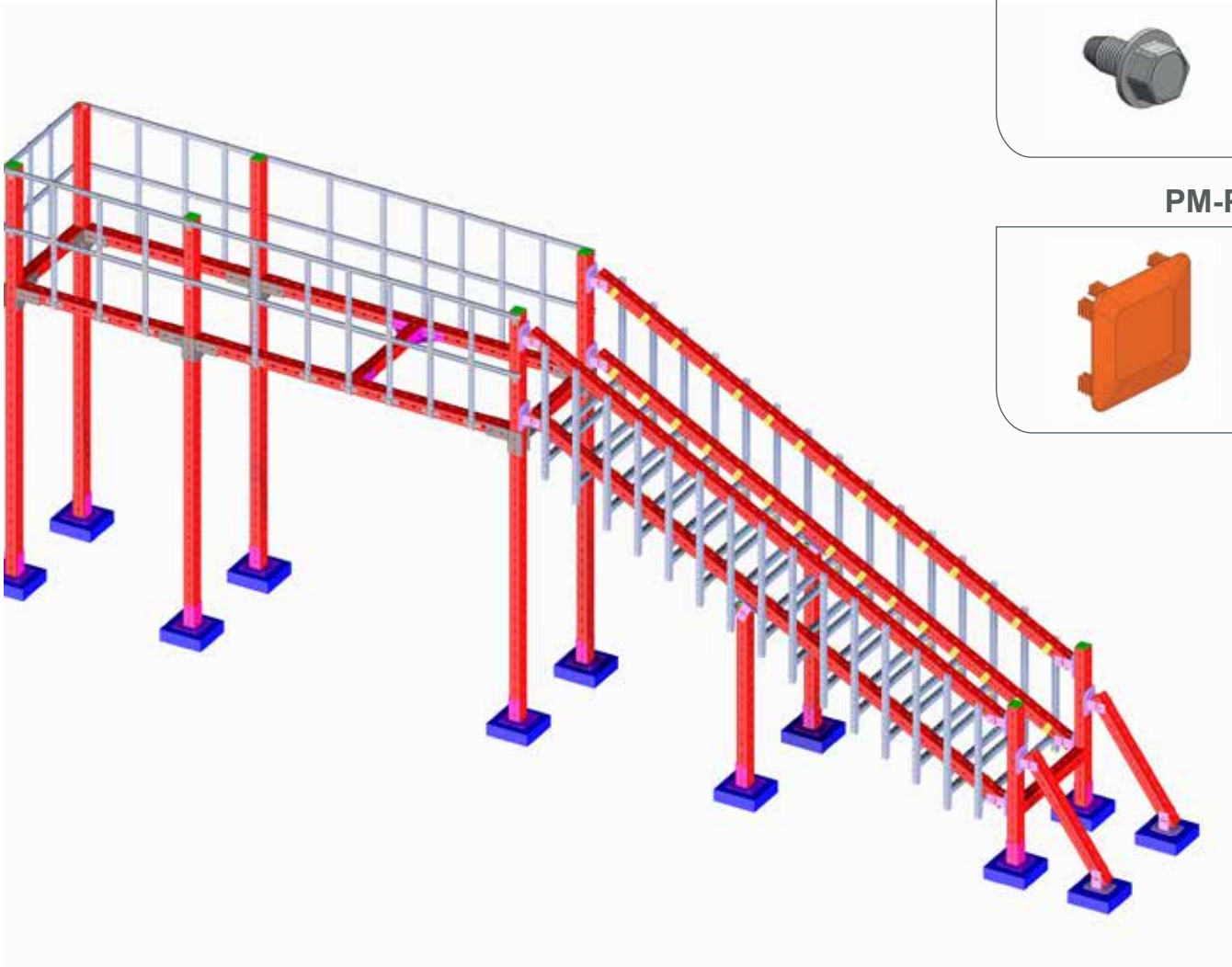
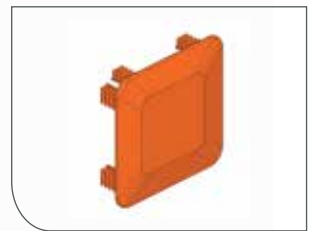
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EPKC



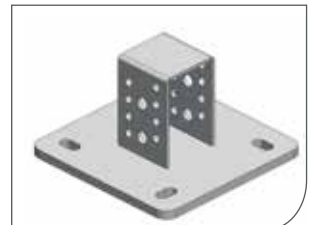
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PM-KD



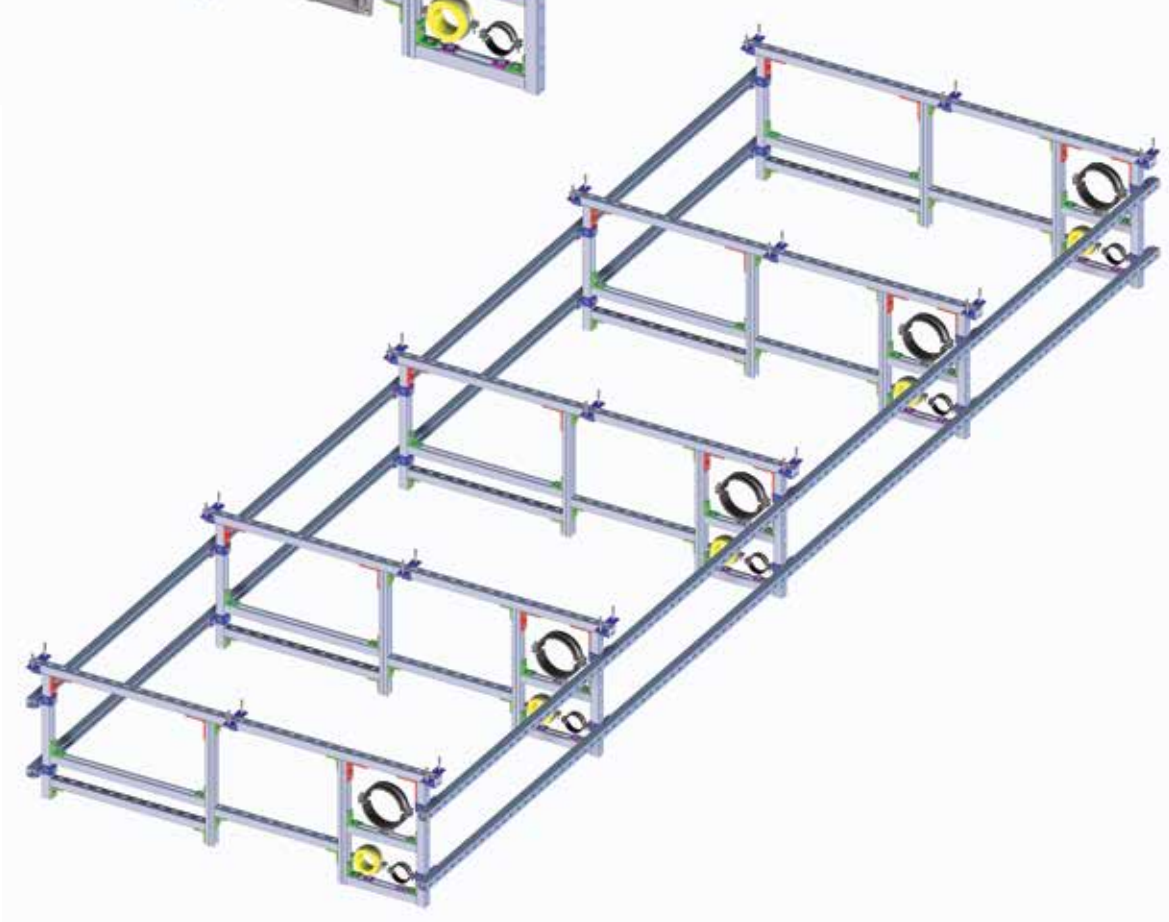
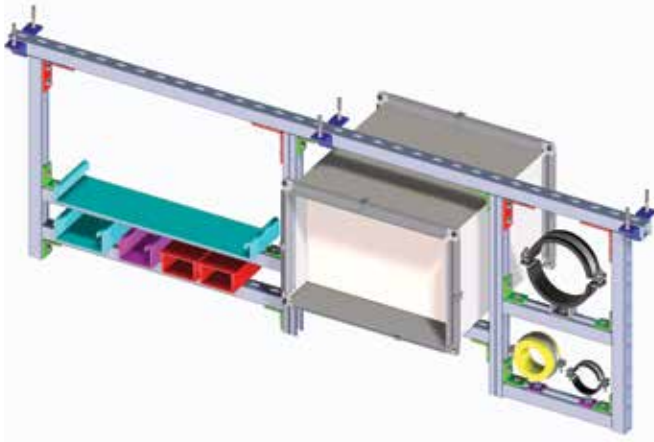
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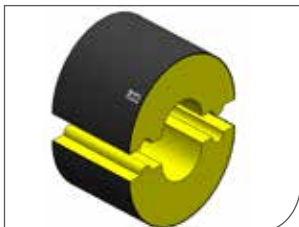
Boru Askı Modülleri

Pipe / Duct Support Modules

LTS



PAT A



DN5



SDNA

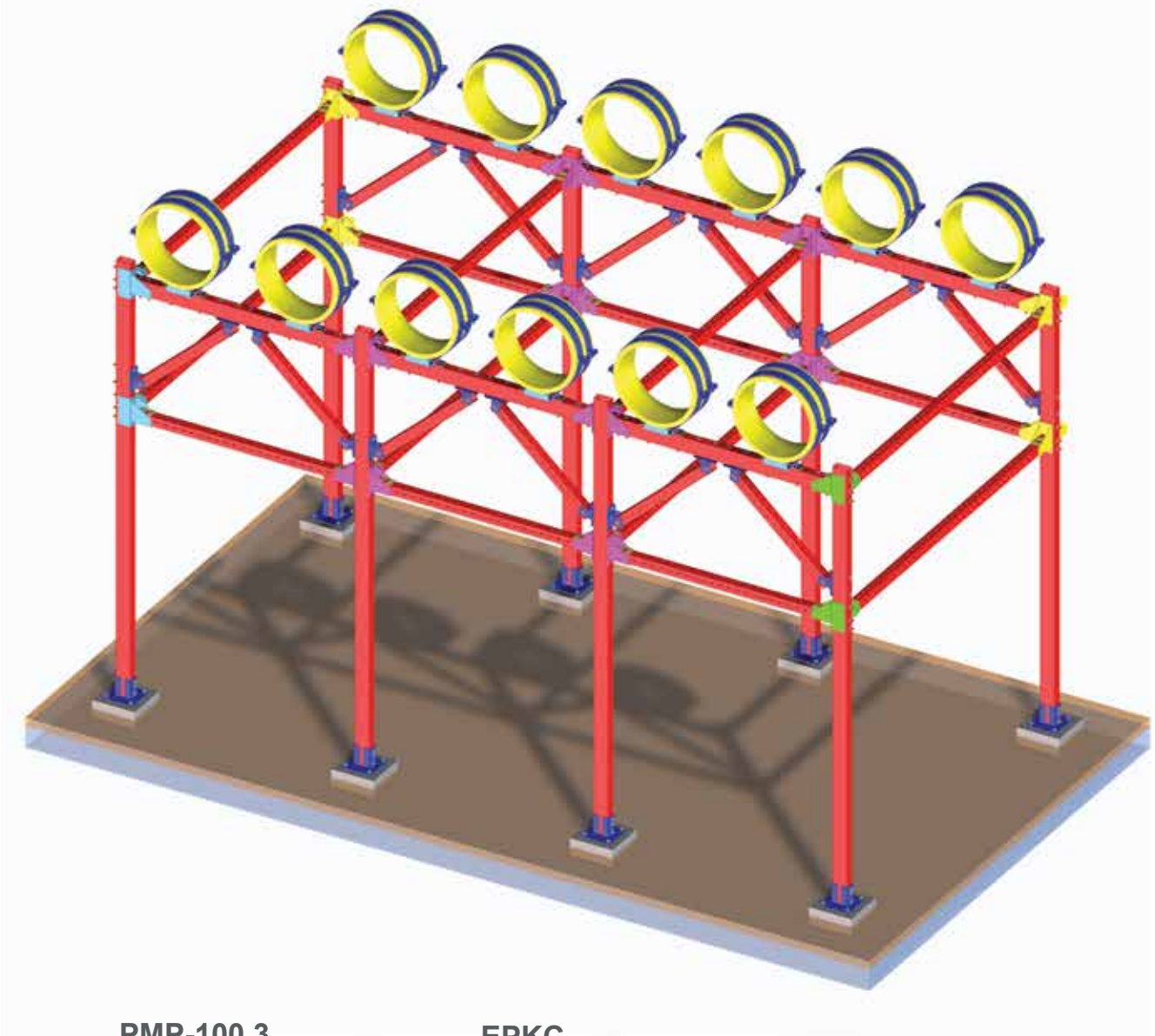


DN5L

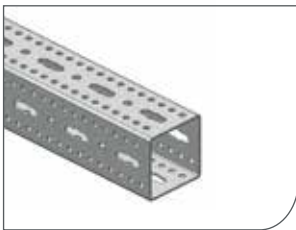


Boru Köprüsü

Pipe Rack



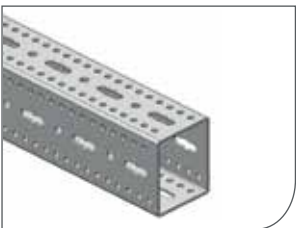
PMP-100.3



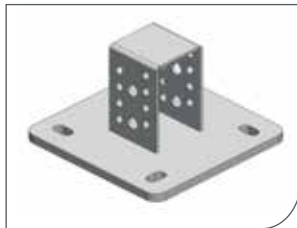
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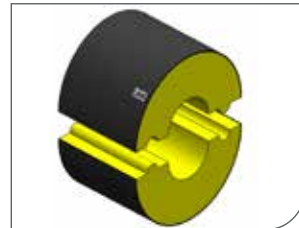
PMP-120.4



PM-TTA



PAT A

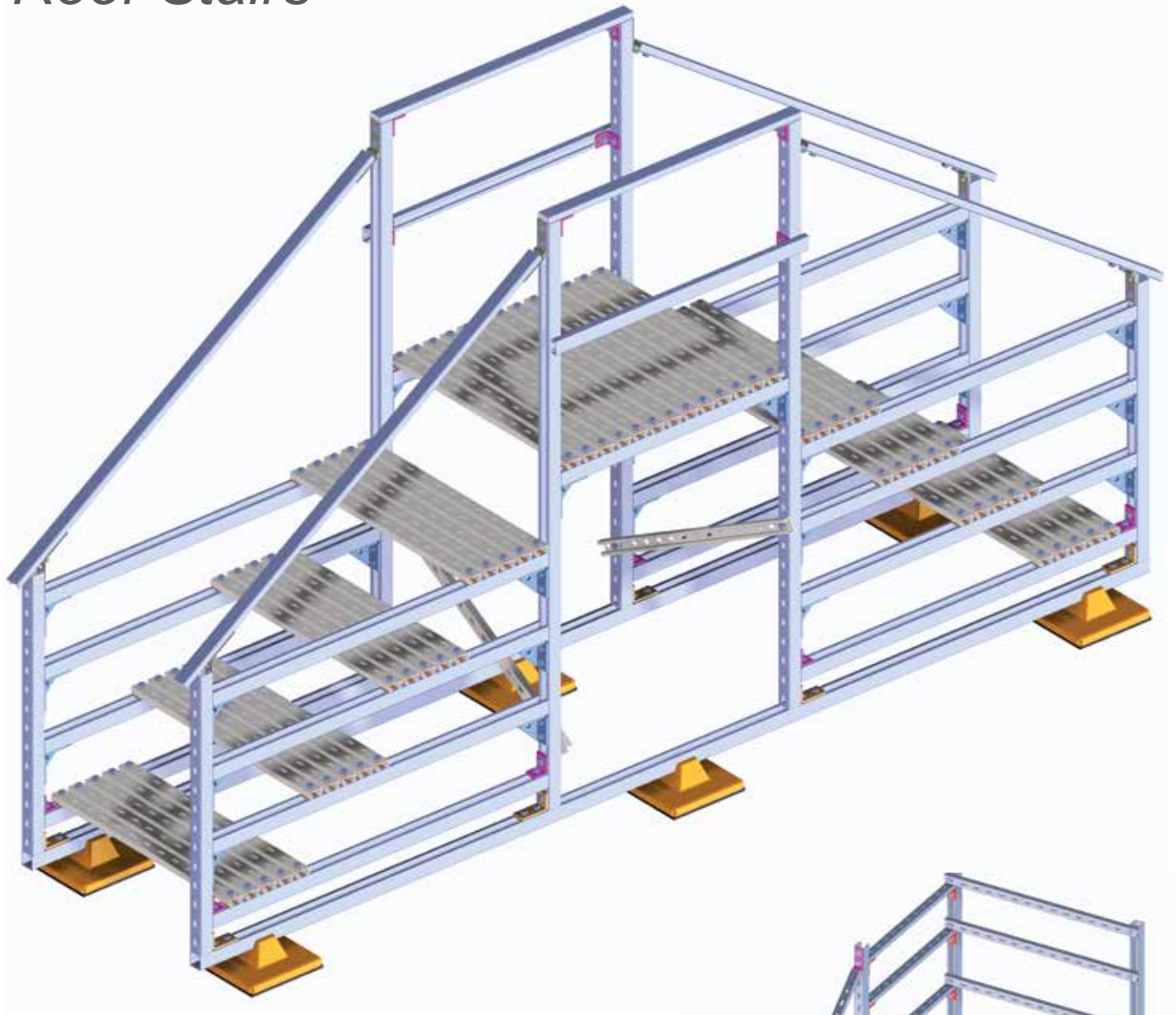


EKYA

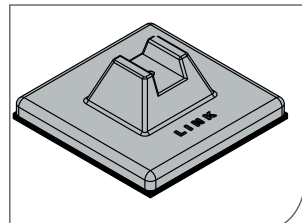


Çatı-Merdiven Örneği

Roof-Stairs



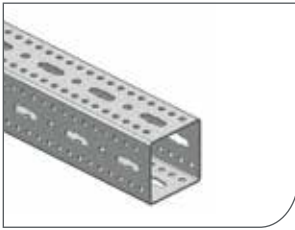
PLKA.100



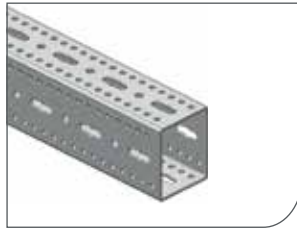
Baca, Kafes Örneği

Modular Steel Frame for Chimney

PMP-100.3



PMP-120.4



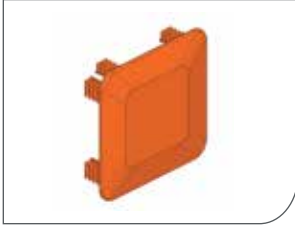
EPKC



PM-HK



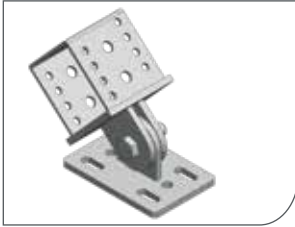
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PM-KD



PM-MFS



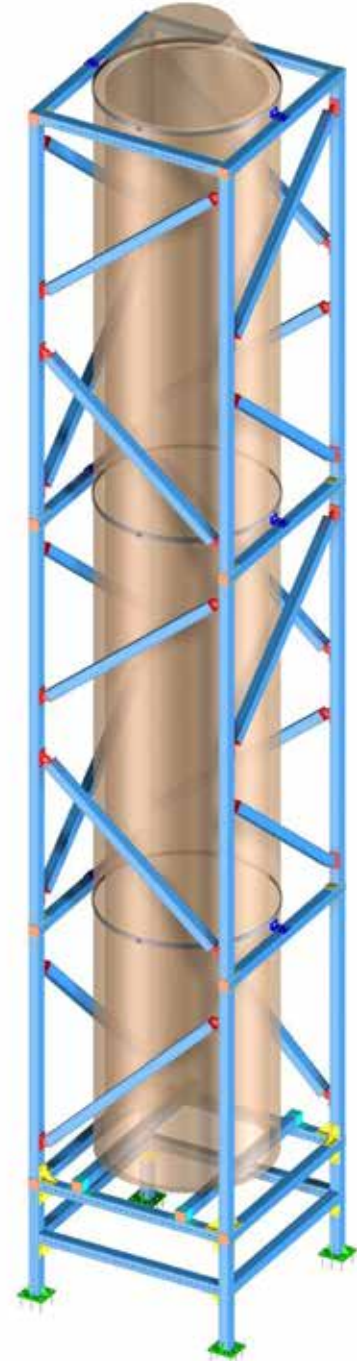
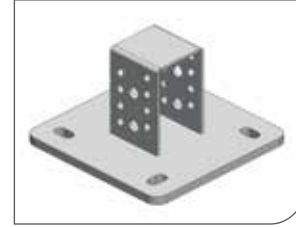
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PM-TA

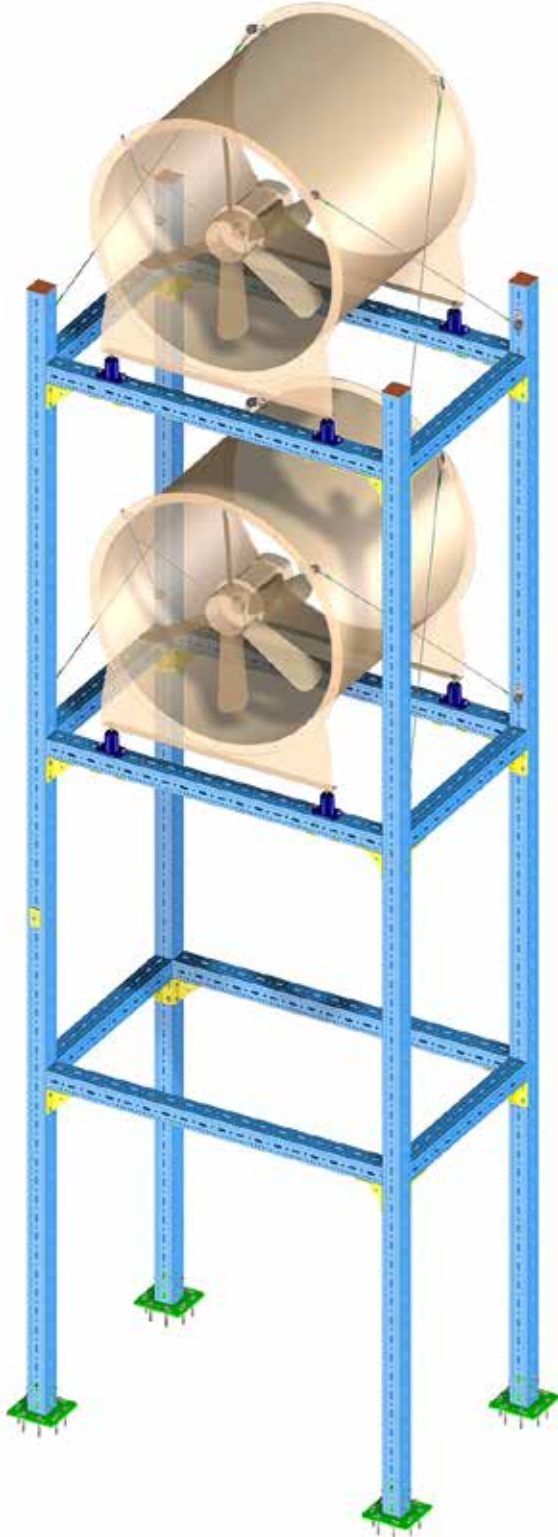


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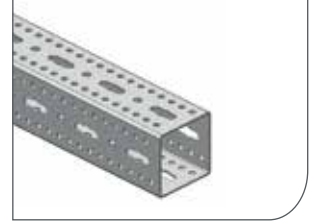


Cihaz Kaidesi-Sismik Sınırlama ve Titreşim İzolasyonu

Equipment Base-Seismic Restraining and Vibration Isolation



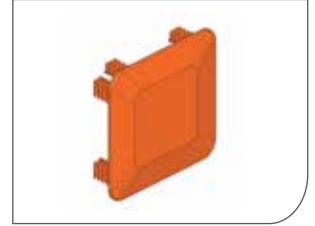
PMP-100.3



EPKC



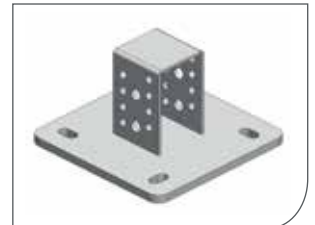
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PM-KD



PM-TTA



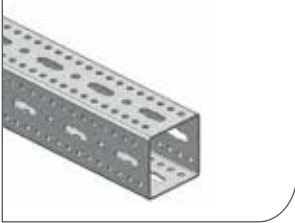
LTS



Mekanik Servis Hatları

Mechanical Utility Lines

PMP-100.3



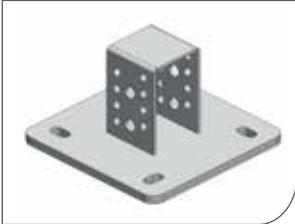
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PM-PC



PM-TTA



PM-KD



PM-TA



PMKY



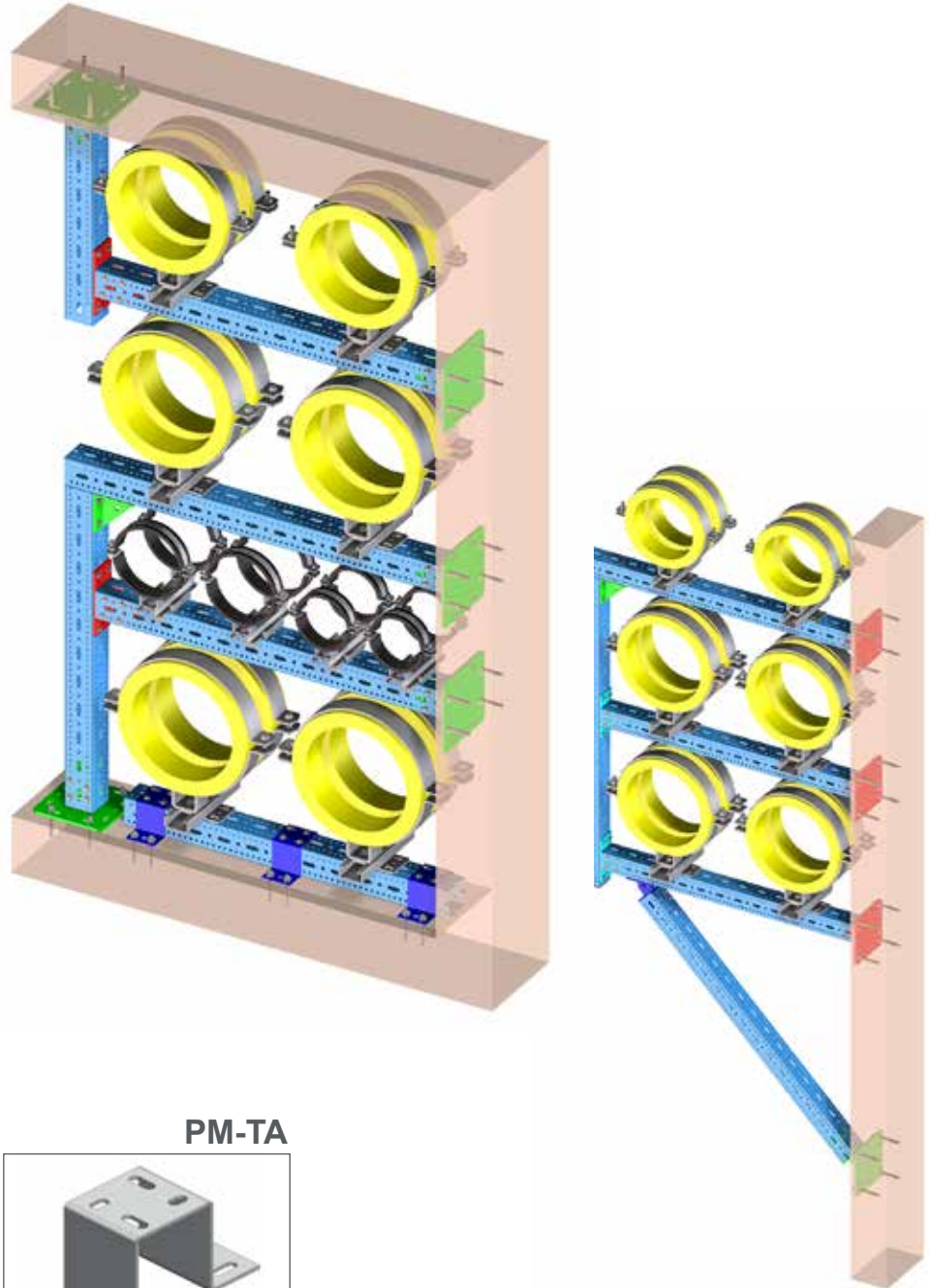
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KYM4

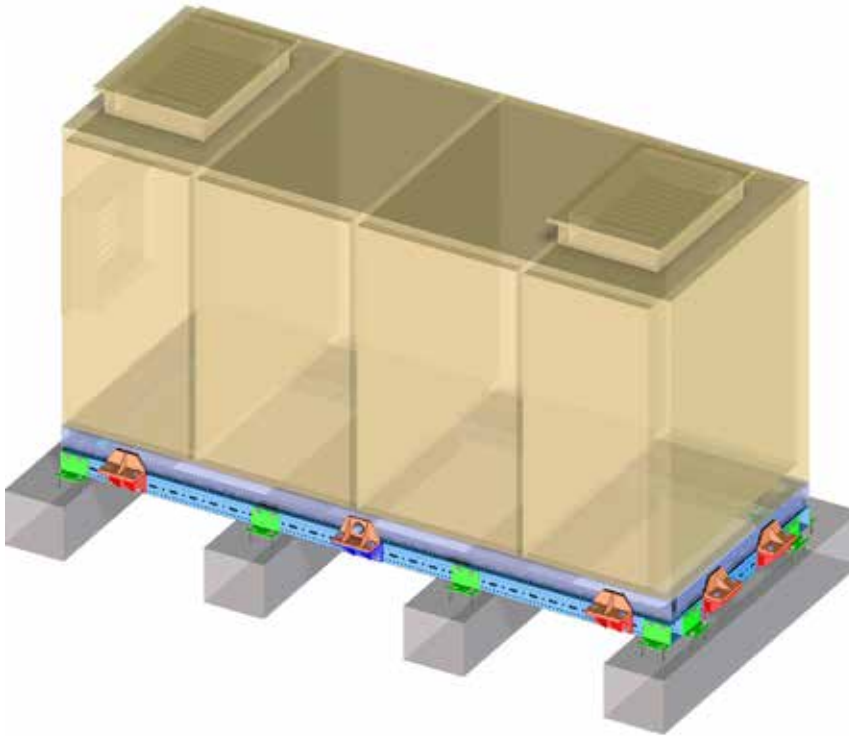
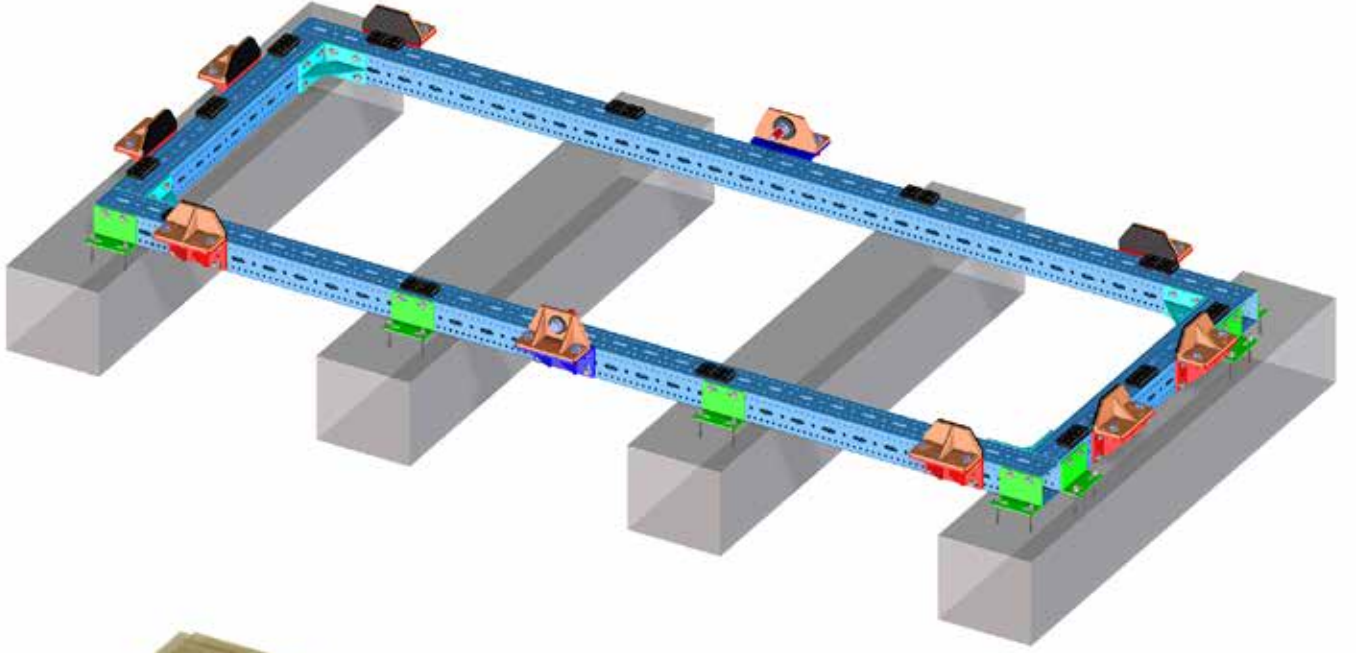


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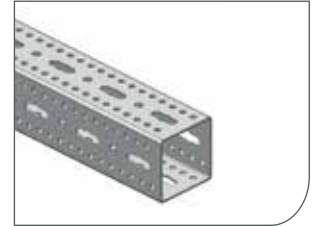


Cihaz, Kaide ve Sismik Sınırlama

Equipment, Bases and Seismic Restraint



PMP-100.3



EPKC



LTS

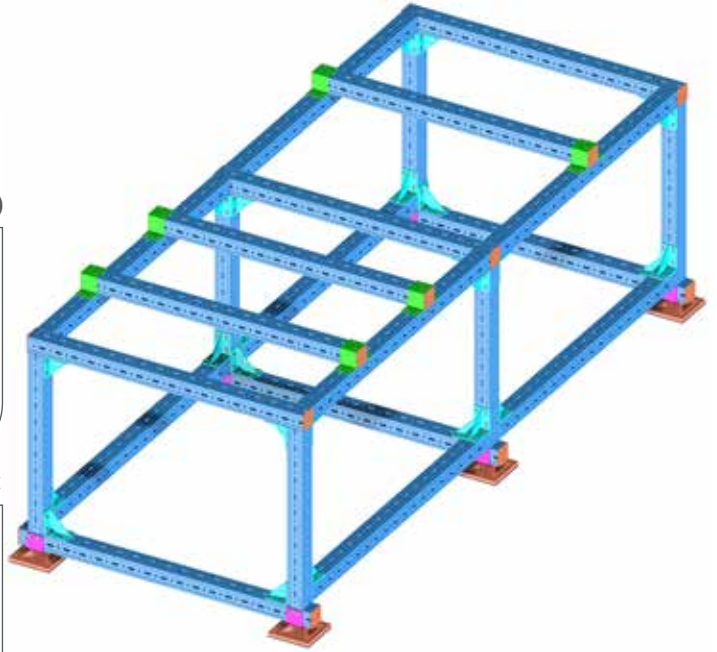
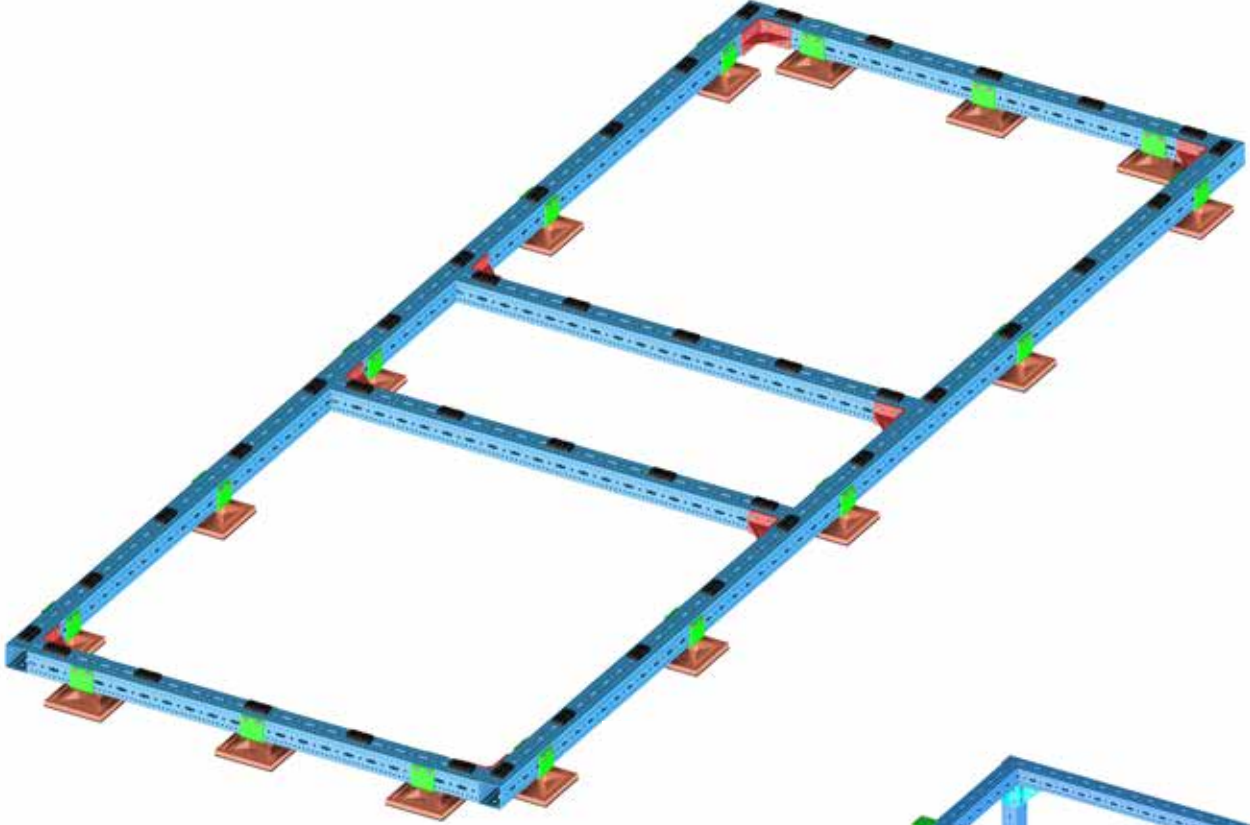
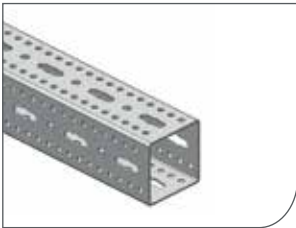
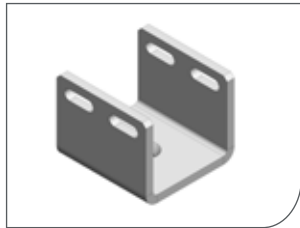
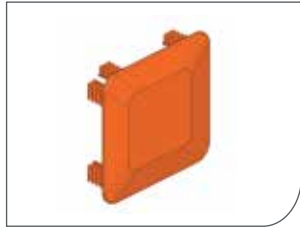
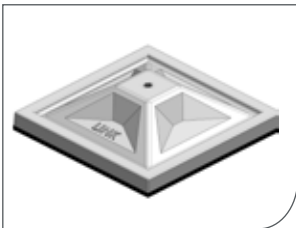


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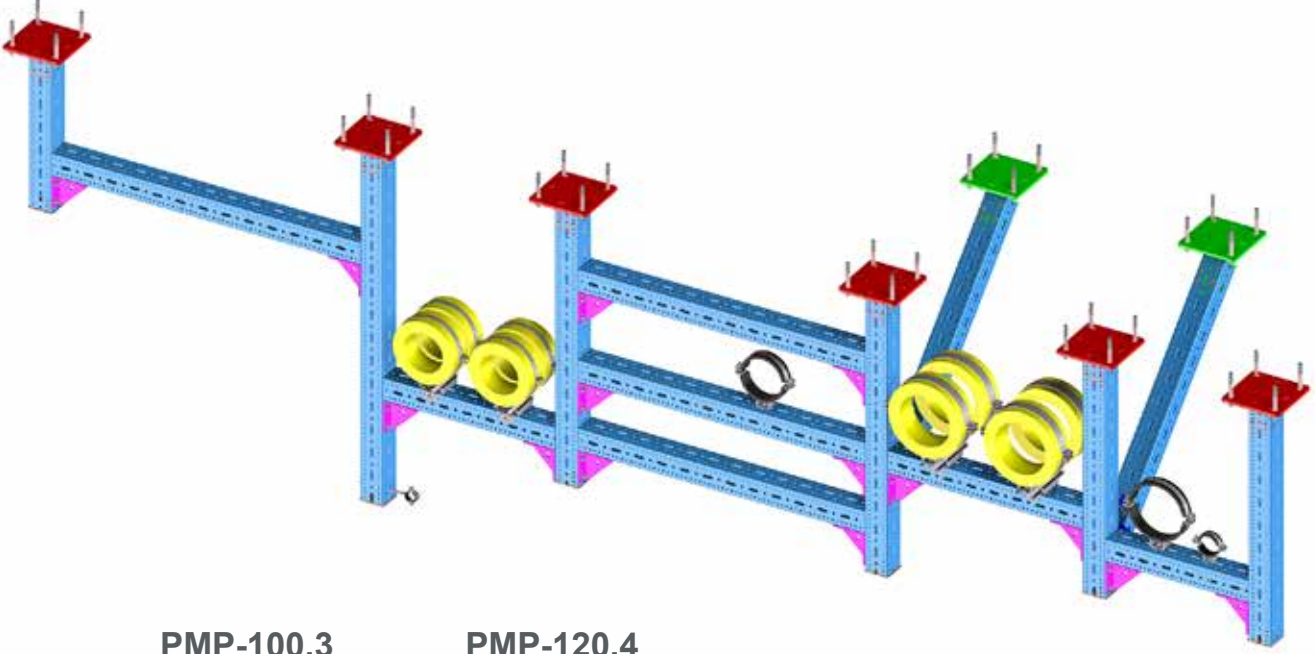
Modüler Kaide ve Titreşim İzolasyonu

Modular Base and Vibration Isolation

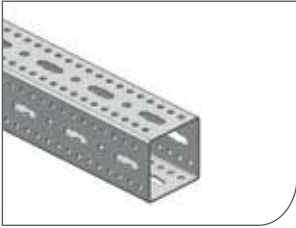
**PMP-100.3****PM-UD****EPKC****PM-PC****PLDA.100****PM-KD****PM-TA**

Konsol Örneđi -1

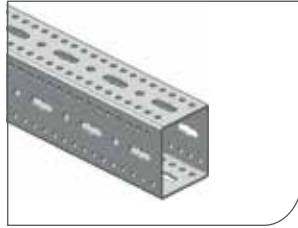
Pipe Support



PMP-100.3



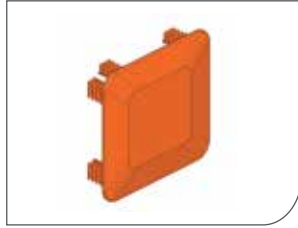
PMP-120.4



EPKC



PM-PC



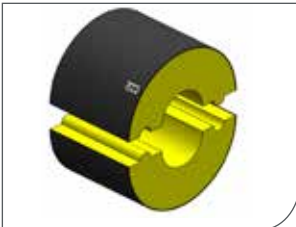
PM-MFS.080/100



PM-MFS.101



PAT A



DN5L



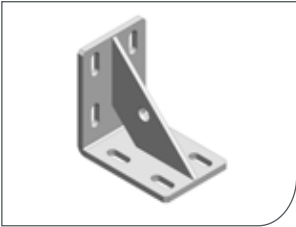
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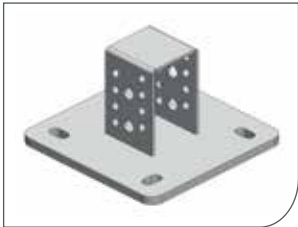
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PM-KD



PM-TTA

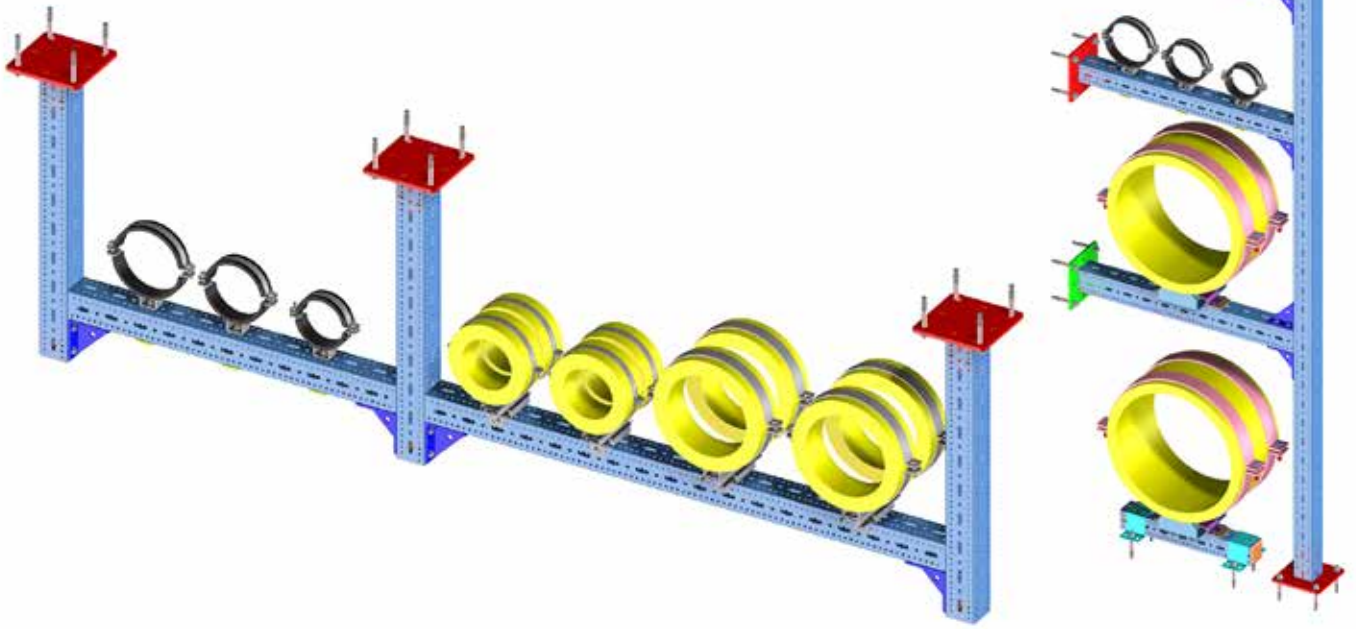


LTS

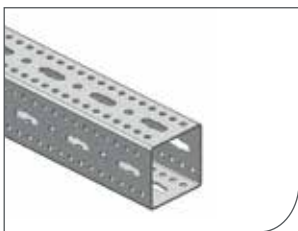


Konsol Örneği - 2

Pipe Support



PMP-100.3



DN5L

EPKC



SDNA

PM-PC



PMKY

EKYA



PAT A



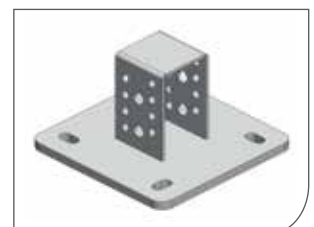
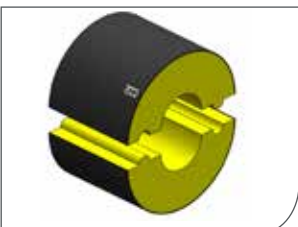
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LTS

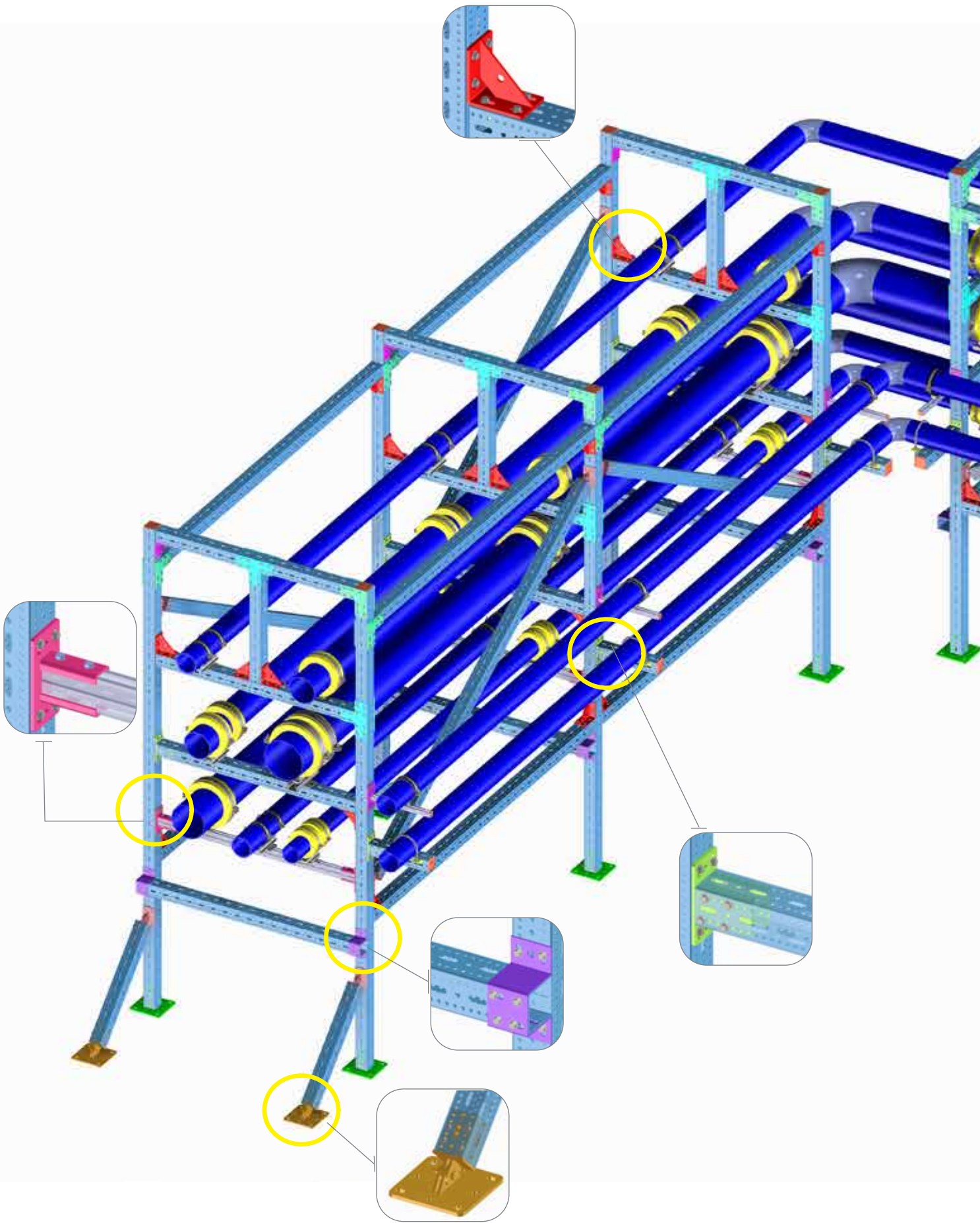


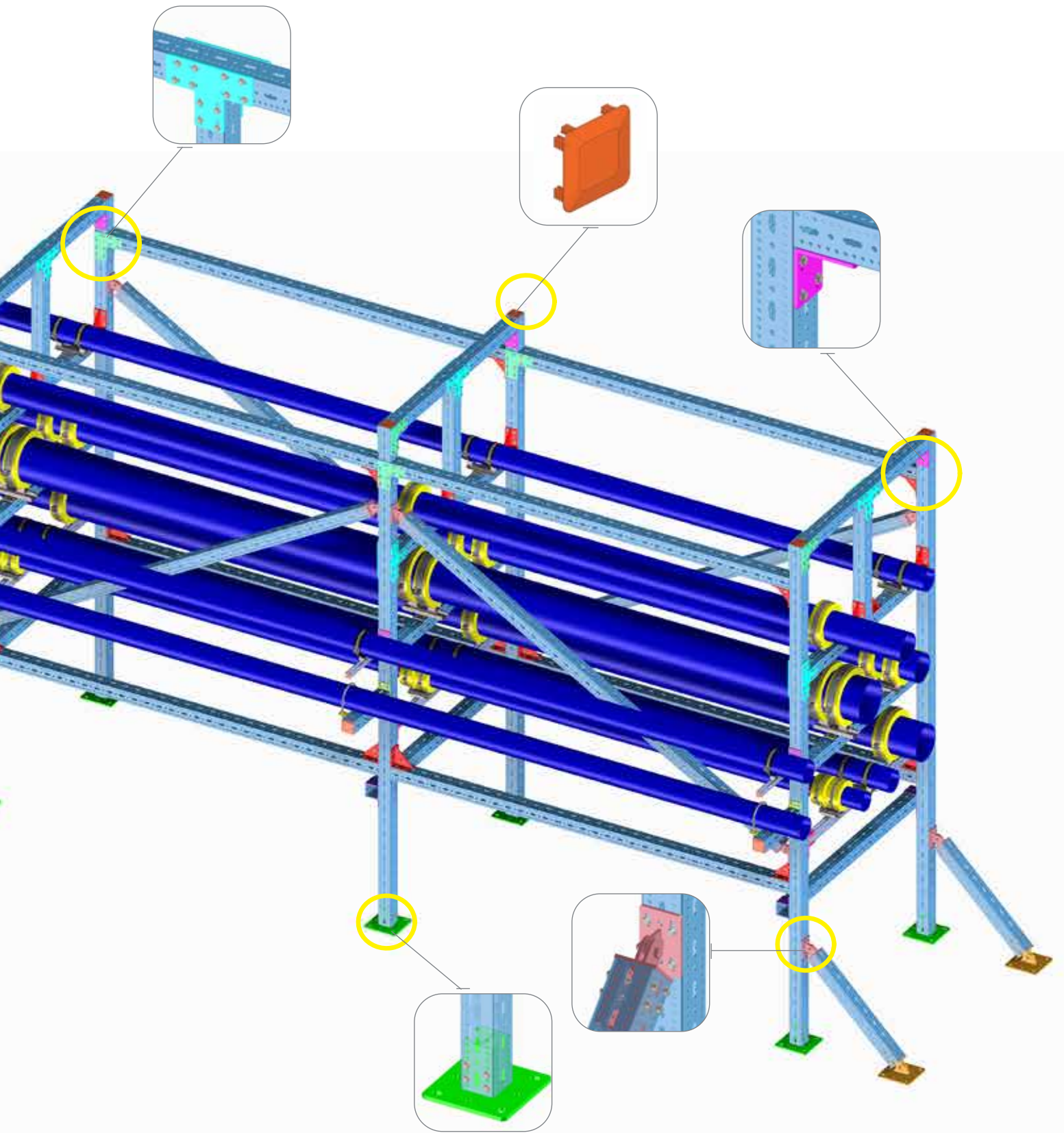
PM-TTA



ProMEGA Bağlantı Elemanları

ProMEGA Fittings







Nasıl Yapıyoruz? / Business Policy

Müşterilerimiz için ilk temas noktası, tüm proje geliştirme için temel oluşturan satış organizasyonumuzdur. Projenin karmaşıklığına dayanarak, detaylar ve gereksinimler satış ve onların destek ekipleri tarafından mühendislik grubuna iletilmektedir.

Proje özelliklerini anlamak ve bilgi paylaşımında bulunmak için genellikle müşterimizin ilgili departmanı ile doğrudan iletişim kurarız. Daha sonra, elde edilen tüm bilgiler ile mühendislerimiz genel proje kapsamı için en iyi çözümü sunar ve onay için müşterimize iletiriz. Tüm bilgilerin en erişilebilir şekilde sunulmasını sağlamak amacı ile pazarlama ve ürün uzmanlarımız da mühendislik ekibimize destek vermektedir.

Şirket kültürümüzde var olan hassas bir yaklaşımla her bir projeyi tasarım aşamasından itibaren ele alıp uygulama ve denetim aşamalarının sonuna kadar dikkatle ele alır, planlama, üretim ve lojistik birimlerimiz ile zamanında teslimat ve üst kalitede ürün tedariki için çalışırız. LINK bünyesinde ki her bir departman ve sahip olduğu ekipler 360 derece hizmet anlayışımızın birer parçasıdır.

The first contact point for our customers is our sales organization, which is the basis for all project development. Based on the complexity of the project, details and requirements are communicated to the engineering group by the sales and support teams.

We usually work directly with the relevant department of our client to understand project characteristics and share information. Then, with all the information obtained, our engineers provide the best solution for the overall project scope and communicate to our customer for approval. Our marketing team and product specialists are support to engineering team for provide all informations clearly.

LINK takes care of every project from design stage up to the end of application and supervision stages with a sensitive approach, and we work with our planning, production and logistics units to deliver on time delivery and top quality products. Each department and team within Link has are part of our 360 degree service.



Projeye Özel Çözümler / Customized Solutions



Danışmanlık Gücümüz
Consultancy Power

Ürün sistemlerimizin birçoğu, kurulum süresini ve dolayısıyla işgücü maliyetlerini azaltmak için yenilikçi anlayış ile tasarlanmıştır. Tüm proje yolculuğu boyunca zamanında lojistik, planlama, projelendirme ve saha yardımına kadar tüm aşamalarda danışmanlık sunmanın karşılığı olarak mükemmel işler başarmak LINK'in en büyük motivasyonudur.

Bir mühendislik projesi sırasında alınacak önemli kararlar ve hassas değerler vardır. Mühendislik ekibimiz, bu projelerdeki müşterilerimizi desteklemek için; tasarım, malzeme, ürün seçimi, montaj ve gelecekteki kullanım için onlara danışmanlık yaparak hizmet anlayışını da farklılaştırmıştır.

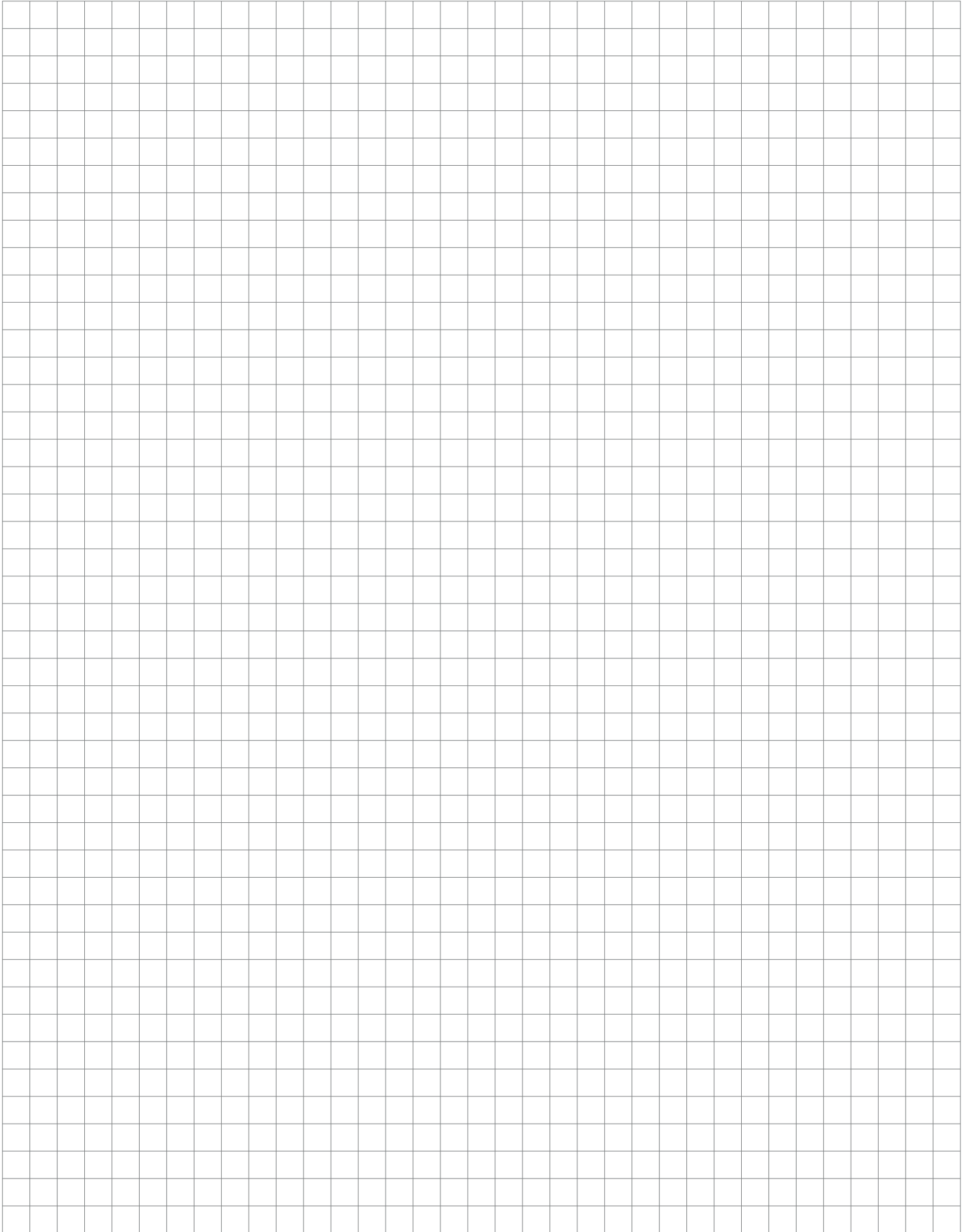
Many of our product systems are designed with innovative insight to reduce the installation time and therefore labor costs. LINK's greatest motivation is accomplish excellent work as a counterpart in providing timely logistics, planning, projecting and consulting at all stages of the project journey to the field assistance .

There are important decisions and sensitive values to be taken during an engineering project. In order to support our customers in these projects; design, materials, product selection, installation and use of them by advising them to differentiate the service concept.

Proje desteğimiz şunları içerir: Our project support includes:



- Projeye özel çözümler / *Specific solutions*
- Teknik tasarım hizmeti - 3D tasarımlar / *Technical design service - 3D designs*
- 3D Analizler - Hesaplamalar / *3D Analysis- Calculations*
- Danışma ve problem çözme / *Consultancy and problem solving*
- Yerinde destek /Süpervizörlük / *Onsite support - Supervision*
- Uygulama kataloğu / *Application catalog*





LINK

we link the world

Orta Yk Modler Kutu Profil Sistemi
Medium Duty ,Closed Frame Modular Systems

ProMEGA KATALOĐU *ProMEGA CATALOG*

40 / 50 mm
Profiller / Profiles

İçindekiler Contents

Sayfa / Page

2-3	LINK YAPI
4-5	ProMEGA Nedir? / <i>What is ProMEGA?</i>
6-7	Kaplama, Sertifikalar, Danışmanlık / <i>Coating, Certificate, Consultancy</i>
8-9	İndeks / <i>Index</i>
10-11	ProMEGA Profiller / <i>ProMEGA Profiles</i>
12	Profil Bağlantı Detayı / <i>Profile Connection Details</i>
13	EPKC Kolay Cıvata / <i>Easy-to-Install Self-Threading Bolt</i>
14-15	PM-HK ProMEGA Hazır Konsollar / <i>ProMEGA Consoles</i>
16	PM-TTA Taban ve Tavan Ayağı / <i>Base and Ceiling Support</i>
17	PM-TTY Yönlü Bağlantı Parçası / <i>Wing Shape Fittings</i>
18-19	PM-KD Köşe Bağlantı Parçaları / <i>Corner Fittings</i>
20	PM-TDE Toplayıcı Köşe Elemanı / <i>Outer Corner Fittings</i>
21	PM-MEG / PM-MFS Ayarlanabilir Mafsal Ayağı / <i>Adjustable Hinge Fitting</i>
22	PM-DDE / PM-KDE Plaka Tipi Bağlantı Parçası / <i>Plate Fitting</i>
23	PM-PLT Plakalar / <i>Plates</i>
24	PM-TA U Bağlantı Atkısı / <i>U Shape Fitting</i>
25	UKP U Bolt Askı Kelepçesi / <i>U Bolt Pipe Clamp</i>
26	PM-UBB U Bolt Bağlantı Braketleri / <i>U Bolt Connection Brackets</i>
27	NPI2 / PM-KB / MZL Kiriş Kenetleri / <i>Beam Clamps</i>
28	PM-PC Plastik Kapak / <i>Plastic Cover</i>
29	PM-KY Kayar Yataklar / <i>Sliding Frames</i>
30	PM-SKP Somunlu Bağlantı Plakası / <i>Split Clamp Fitting</i>



LINK, Özel Çözümler !

LINK, Customized Solutions!

40 yılı aşkın süredir LINK olarak, Mekanik Tesisat içerisinde yer alabilecek herhangi bir hattın kendi özelliğine uygun olarak yapıya bağlanması için gerekli olan tüm askı ve destek sistemleri ile ilgili çözümler üretiyoruz. Serüvenimize başladığımız ilk günden bu yana, hem müşterilerimizin ihtiyaçlarını hem de içinde bulunduğumuz sürekli değişen pazarların ihtiyaçlarını karşılamak üzere ürün yelpazemizi geliştirmek için pazardaki değişiklikleri sürekli izliyor ve adapte oluyoruz.

Dünyanın bir çok yerinde kullanılan **Boru Askı Destek Sistemleri, Havalandırma Bağlantı Sistemleri, Ses ve Titreşim Yalıtımı Sistemleri, Sismik Sınırlama Sistemleri, Endüstriyel Askı ve Destek Sistemleri, Modüler Profil Sistemleri, Cephe Sistemleri ve Yapı Tespit Sistemlerinde** sağladığımız geniş ürün yelpazemiz bize, projeler için tam entegre bir yaklaşıma sahip olma avantajı sağlamış bu anlamda LINK'i her zaman bir adım önde tutmuştur.

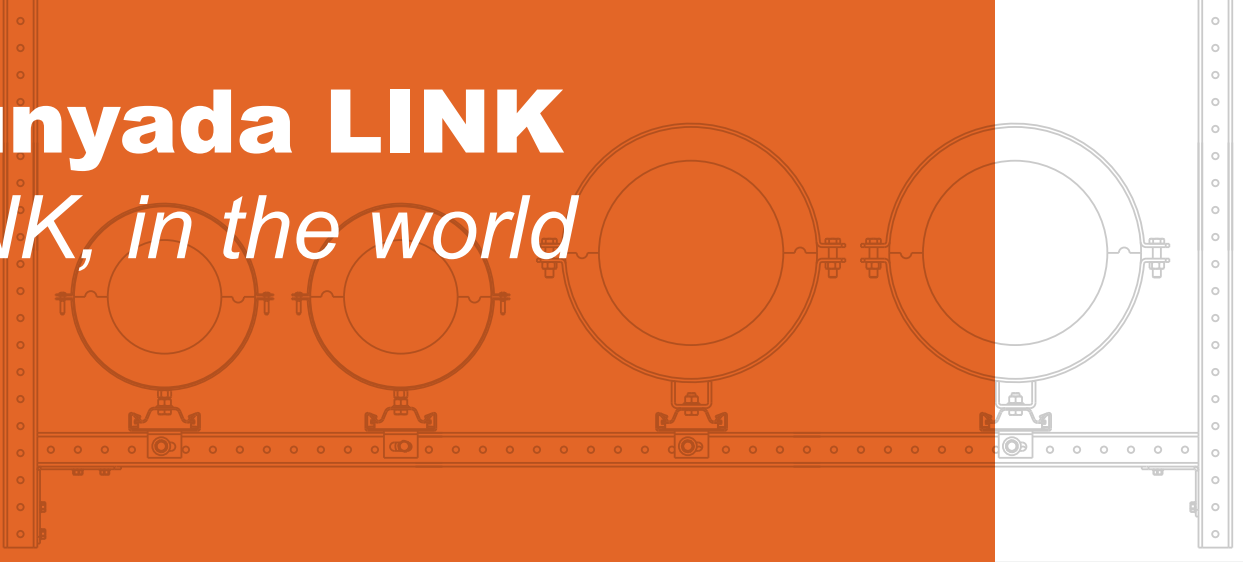
LINK provide solutions for all hanger and support systems required for the connection of Mechanical / Electrical Installation to the structure in accordance with international standards for more than 40 years. Since the first day we started our adventure, we are constantly monitoring and adapting ourselves to changes in the market to develop our product range to meet both the needs of our customers and the ever-changing needs of the markets we are in.

We offer a wide range of products that are used in many parts of the world such as Pipe Hanger Support Systems, Ventilation Connection Systems, Sound and Vibration Isolation Systems, Seismic Restraint Systems, Industrial Hanger and Support Systems, Modular Profile Systems, Facade Systems and Anchor and Fixing Systems. This wide range approach has always taken LINK a step ahead.



Dünyada LINK

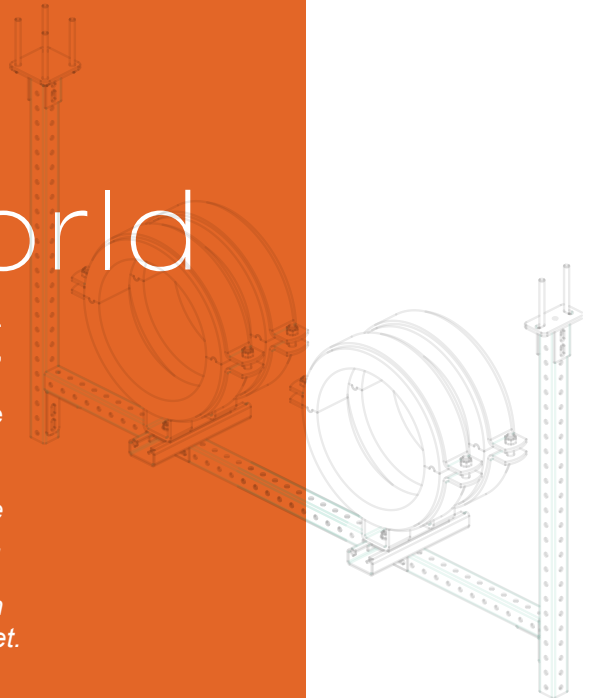
LINK, in the world



we link the world

Bugün, ürünlerimiz tüm dünyada 25'ten fazla ülkede kullanılmaktadır. Polonya, Avustralya, Lübnan, Sri Lanka, Brezilya, Rusya, Pakistan, Azerbaycan, Katar, Kuveyt, Birleşik Arap Emirlikleri, Suudi Arabistan ve İtalya'da seçilmiş distribütörlerimiz ise yerel bazda hizmet vermekte ve bu da globalleşmeye verdiğimiz öneme işaret etmektedir.

Today, our products are used in more than 25 countries all over the world. Selected distributors in Poland, Australia, Lebanon, Sri Lanka, Brazil, Russia, Pakistan, Azerbaijan, Qatar, Kuwait, United Arab Emirates, Saudi Arabia and Italy point out that we are giving service on a local basis and it shows the importance LINK give to the global market.



ProMEGA

Nedir?

What is ProMEGA?

ProMEGA orta yük modüler kutu profil sistemleri için tasarlanmış, kaynaklı çelik yapılara alternatif modüler bir profil sistemidir. Hızlı montaj imkanı veren, her türlü değişikliğe karşı esnek, modüler ve sağlamlığıyla fark yaratan ProMEGA, sıcak daldırma kaplama yapısıyla ve kullanım kolaylığı sağlayan kılavuz cıvataları ile alternatiflerine göre ekonomik ve uzun ömürlü bir çözüm sağlar.

Ana kullanım alanı olan boru tesisatı destek sistemleri dışında, hava kanalı ve elektrik tesisatı, endüstriyel destek sistemleri, makine teçhizatına erişim platformları, yürüme yolları, ikincil çelik uygulamaları, cephe ankraj uygulamaları, çatı destek uygulamaları ve cihaz kaide-leri gibi birçok kullanım alanı bulunmaktadır. ProMEGA'nın tüm yükler altındaki hesaplamaları LINK'in uzman mühendis kadrosu tarafından yapılarak değerli müşterilerimize sunulmaktadır.

ProMEGA is a medium duty, closed frame modular profile support system designed for use under medium loads as an alternative to conventional welded systems. It also provides more economical and long-term solutions compared to alternatives due to its hot-dip galvanized coating and self-threading bolted connection.

In addition to the pipe support system as a main application area, there are many fields of use such as air duct and electrical installation, industrial support systems, access platforms for machine equipment, walkways, secondary steel applications, facade applications, roof support applications and equipment bases.



Neden?

ProMEGA

Why ProMEGA?

Şantiye alanında kaynaklı imalata gerek olmadan kılavuz cıvatalarıyla kolay, hızlı ve güvenilir şekilde montaj edilir.

Kendinden diş açma özelliğine sahip cıvataları sayesinde ekstra somun – pul veya başka bir eleman kullanımına gerek bırakmadığı gibi dişli pul yapısıyla titreşim ile çözülmeye karşıda yüksek direnç sağlar.

Cıvatalı bağlantı olması sebebiyle proje ve tasarım değişikliklerinde kolaylıkla imalat revizyonuna izin verir ve minimum malzeme sarfiyatı sağlar.

Standart sıcak daldırma galvaniz kaplamasıyla korozyona karşı yüksek direnç sağlar ve uzun ömürlü kullanıma izin verir.

Önceki maddelerde belirtilen sebeplerden dolayı konvansiyonel sistemlere kıyasla %50 ye varan malzeme ve işçilik avantajları sağlanabilir.

Easy, fast and reliable installation with self-threading bolts in the construction site without welding process.

it does not require the use of extra nuts - washers or other items due to its self-threading bolt and provides high self-loosening resistance against vibration with its toothed washer form.

it allows the user make installation revisions easily in case of changes in project and design due to its bolted-connection form and provides minimum material waste.

High corrosion resistance with its standard hot-dip galvanized coating. Therefore , it allows long-term use of product.

Due to the reasons mentioned in the previous articles, it can provide up to 50% material and labor advantages compared to conventional systems.

Hızlı ve kolay kurulum

Quick and very easy to install

Kendinden diş açma özelliğine sahip cıvatası ile hızlı ve kolay montaj.
Quick and easy installation with self-threading bolt.

Üç ekseninde bağlantı imkanı.
Connection in three-axis.

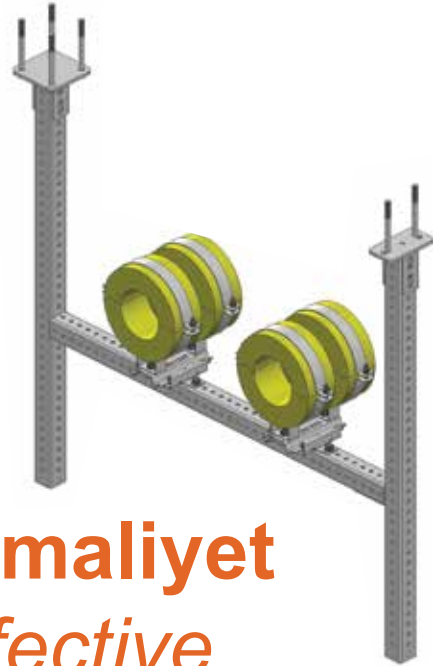


Esnek, modüler ve güçlü

Flexible, modular and strong

Kaynak gerektirmeyen ve demonte edilebilir imalat.
No welding process and demontable installation.

Tüm LINK ürünleri ile uyumludur.
Compatible with all LINK products.



Uygun maliyet

Cost effective

Yüksek kalite daldırma galvaniz kaplaması ile uzun ömür.
Long life due to high quality hot-dipped galvanized coating.

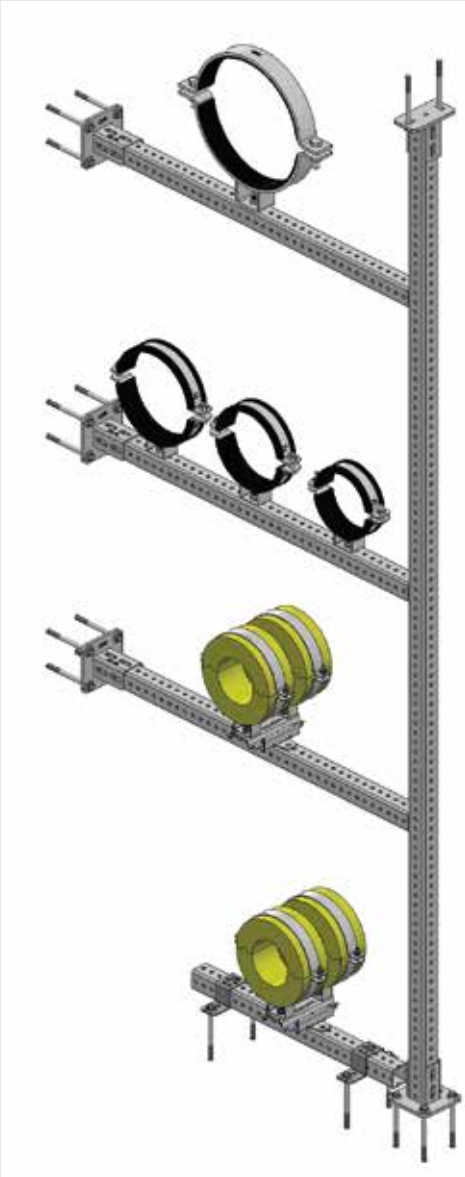
Mühendislik hizmet desteği ile optimum çözüm.
Optimum solution with engineering service.

Güvenli ve iyi

Safe and nice

Kesit formu sayesinde hafif güçlü ve yüksek burulma dayanımlı tasarım.
Lightweight, strong and high torsional capacity design due to section form.

Estetik görünüm.
Eye pleasing view.





Elektro galvaniz ISO 2081 Zinc Plated

Güvenilir / *Reliable*
Dayanıklı / *Resistant*
Uygun Maliyetli / *Cost effective*
Estetik / *Aesthetic look*
Bakım gerektirmez. / *No maintenance required.*
Dişli yüzeyler için uygundur. / *Suitable for threaded surfaces.*
Boşluklar ve kenarlar için idealdir, bütünsel kaplama sağlar.
Ideal for gaps and edges, provides holistic coating.
Zamandan tasarruf sağlar. / *Time saving.*
Kendi kendini onarma özelliği / *Self-healing feature*



Sıcak daldırma galvaniz EN 1461 Hot dip galvanized

Uzun ömürlü / *Long lasting*
Güvenilir / *Reliable*
Dayanıklı / *Resistant*
Bakım gerektirmez. / *No maintenance required.*
Boşluklar ve kenarlar için idealdir, bütünsel kaplama sağlar.
Ideal for gaps and edges, provides holistic coating.
Zamandan tasarruf sağlar. / *Time saving.*
Kendi kendini onarma özelliği / *Self-healing feature*



Sertifikalar / Certificates



Üretimlerinde ve ithalatlarında öncelikli hedefi kalite olan LINK, tüm ürün gamlarında DW, SMACNA, MSS, UL, FM, NFPA, ANSI-ASHRAE ve TSE gibi hem uluslararası, hem yerel standartlara uygun ürünler üretmektedir.

Bu ürünleri de, GOST, UL, FM, ETA, TÜV, TÜVNORD, ETA, TSE, TSEK, CE, EUROCODE 3 belgeleri ile sertifikalandırmakta; İTÜ, GYT, KOSGEB, TUBİ-TAK-UME gibi ülkemizin önden gelen kamu ya da özel laboratuvarlarında test ettirmekte ve raporlandırmaktadır. Gerekliğinde saha testleri ile ürün yeterliliklerini de ıspatlamaktadır.

LINK, which is the primary target quality in its production and imports, produces products that meet both international and local standards such as DW, SMACNA, MSS, UL, FM, NFPA, ANSI-ASHRAE and TSE in all its product ranges.

These products are also certified by GOST, UL, FM, ETA, TÜV, TÜVNORD, ETA, TSE, TSEK, CE, EUROCODE 3 documents; İTU, GYT, KOSGEB, TUBİ-TAK-UME in our country's leading public or private laboratories. It also proves product qualifications with field tests when necessary.

Danışmanlık Gücümüz!

Ürün sistemlerimizin birçoğu, kurulum süresini ve dolayısıyla işgücü maliyetlerini azaltmak için yenilikçi anlayış ile tasarlanmıştır. Tüm proje yolculuğu boyunca zamanında lojistik, planlama, projelendirme ve saha yardımına kadar tüm aşamalarda danışmanlık sunmanın karşılığı olarak mükemmel işler başarmak LINK'in en büyük motivasyonudur.

Bir mühendislik projesi sırasında alınacak önemli kararlar ve hassas değerler vardır. Mühendislik ekibimiz, bu projelerdeki müşterilerimizi desteklemek için; tasarım, malzeme, ürün seçimi, montaj ve kullanım konusunda onlara danışmanlık yaparak hizmet anlayışını da farklılaştırmıştır.

Proje desteğimiz şunları içerir:

Projeye özel çözümler
Teknik tasarım hizmeti / 3D tasarımlar
3D Analizler / Hesaplamalar
Danışma ve problem çözme
Yerinde destek /Süpervizörlük
Uygulama kataloğu

Consultancy Power!

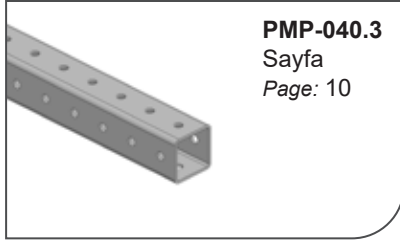
Many of our product systems are designed with innovative insight to reduce the installation time and therefore labor costs. LINK's greatest motivation is to accomplish excellent work by providing timely logistics, planning, projecting and consulting at all stages of the project .

There are important decisions and sensitive values needs to be taken during an engineering project. Our engineering team always supports the customer in design, calculation, product selection, supervising issues.

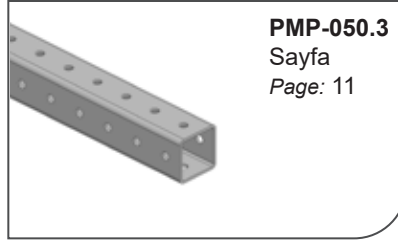
Our project support includes:

*Specific solutions
Technical design service / 3D designs
3D Analysis / Calculations
Consultancy and problem solving
Onsite support / Supervision
Application catalog*





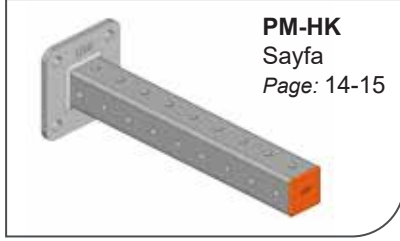
PMP-040.3
Sayfa
Page: 10



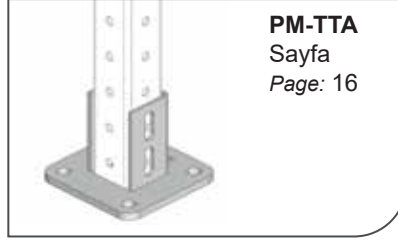
PMP-050.3
Sayfa
Page: 11



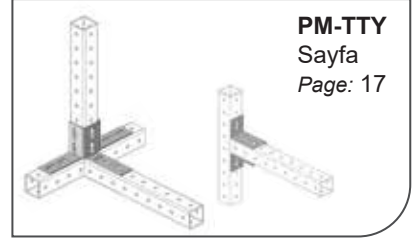
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Sayfa
Page: 13



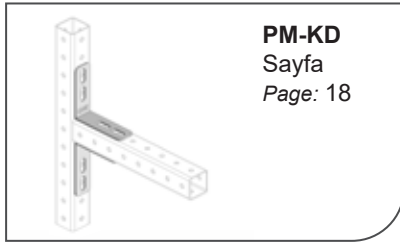
PM-HK
Sayfa
Page: 14-15



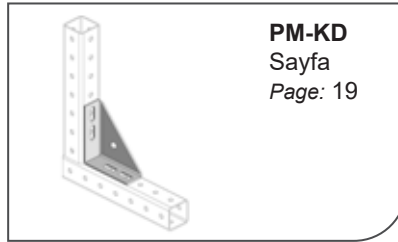
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Sayfa
Page: 16



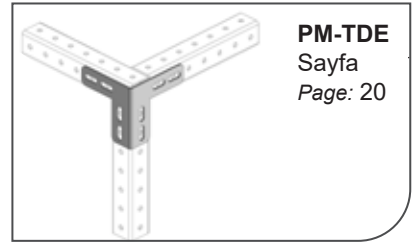
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Sayfa
Page: 17



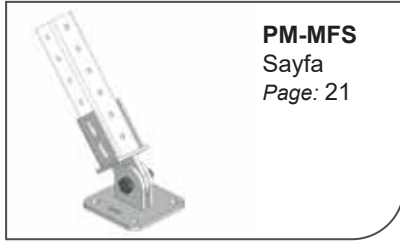
PM-KD
Sayfa
Page: 18



PM-KD
Sayfa
Page: 19



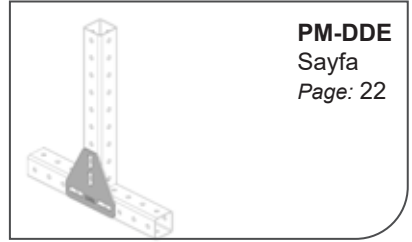
PM-TDE
Sayfa
Page: 20



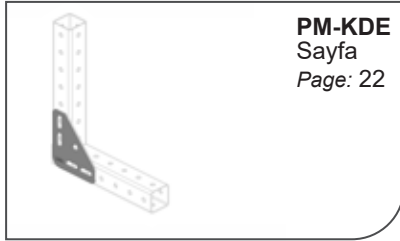
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Sayfa
Page: 21



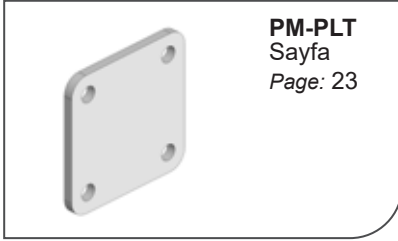
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Sayfa
Page: 21



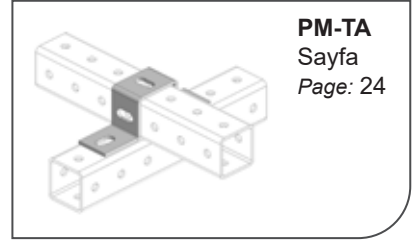
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Sayfa
Page: 22



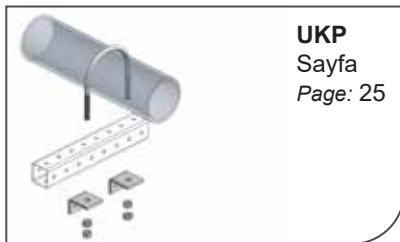
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Sayfa
Page: 22



PM-PLT
Sayfa
Page: 23



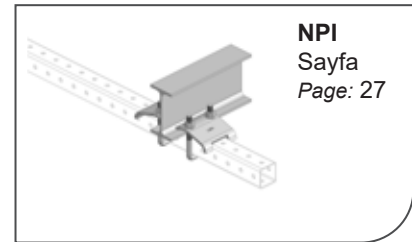
PM-TA
Sayfa
Page: 24



UKP
Sayfa
Page: 25



PM-UBB
Sayfa
Page: 26



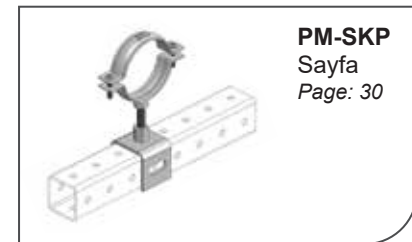
NPI
Sayfa
Page: 27



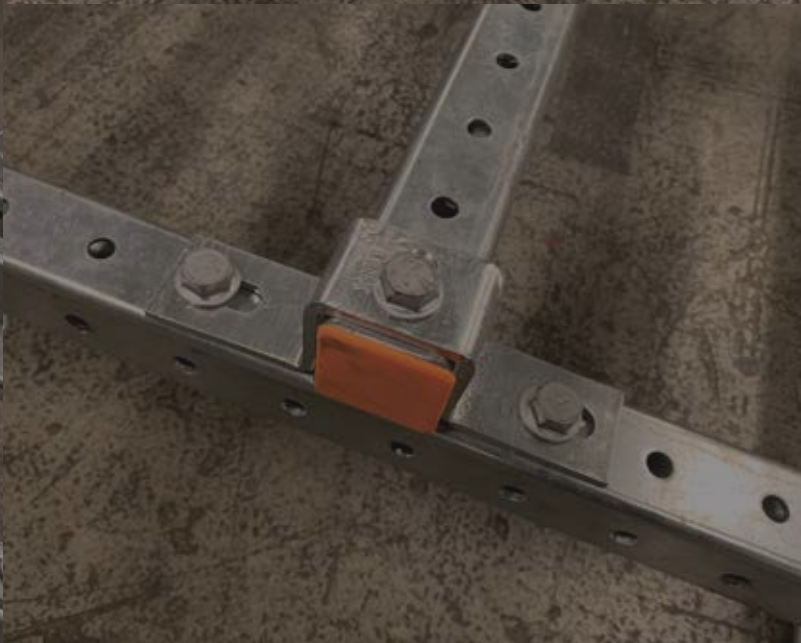
PM-PC
Sayfa
Page: 28

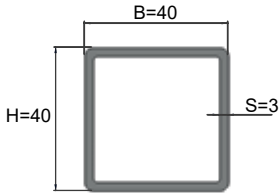
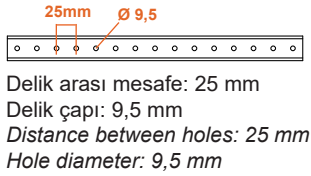
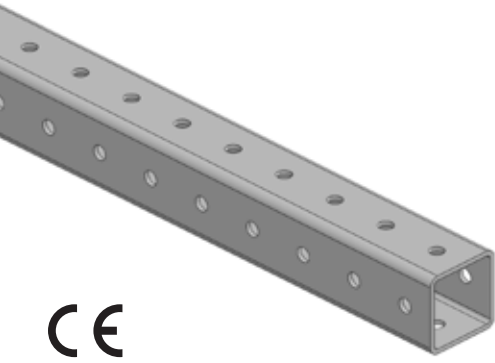


PM-KY
Sayfa
Page: 29



PM-SKP
Sayfa
Page: 30





Hizmet / Service

Özel tasarımı sayesinde orta segment yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir. *Promega is modular profile system, provide easy installation with self-threading bolt and medium load capacity due to its special design.*

Malzeme ve Tipi / Materials and Type:

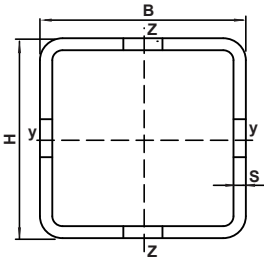
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-040.3	40x40	3	6000



Kesit Özellikleri / Section Properties

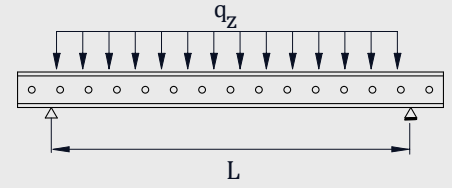
Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modules (cm ²)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modules (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
40	40	3	3,10	309,00	8,13	14,77	7,38	7,38	3,69	3,69

■ Kesit özellikleri delikli net kesite göre belirlenmiştir.
The section properties is determined according to the perforated section.

Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
500	20,00	10,00
1000	4,15	4,15
1500	1,20	1,80
2000	0,50	1,00
2500	0,25	0,63

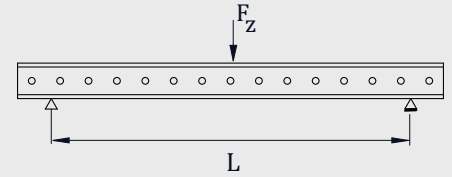
qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L



Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
500	4,80
1000	2,40
1500	1,15
2000	0,63
2500	0,37

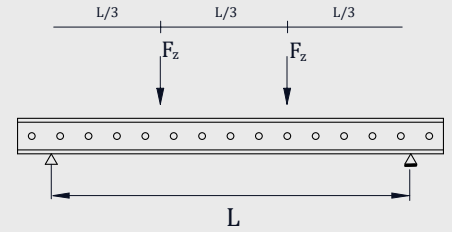
Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2



Çift nokta yük / 2 Point loads

Lmax (mm)	Fz, perm kN
500	3,70
1000	1,50
1500	0,65
2000	0,36
2500	0,22

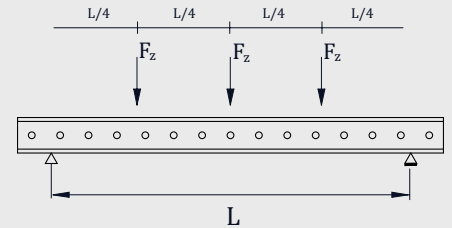
Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3



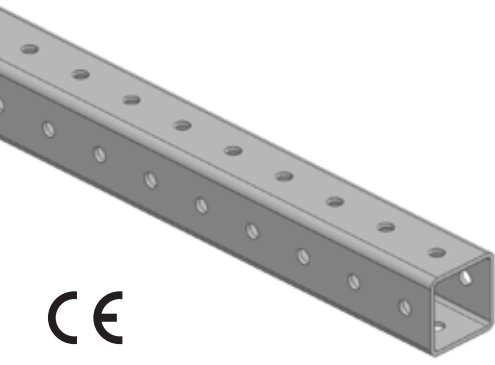
Üç nokta yük / 3 Point loads

Lmax (mm)	Fz, perm kN
500	2,5
1000	1,10
1500	0,48
2000	0,26
2500	0,16

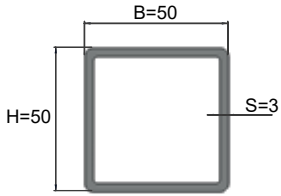
Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4



- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir. *Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)*
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. / *Self weight considered.*
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. / *Safety factor is taken into account as 1,35.*
- Sehim limit değeri L/200 olarak alınmıştır. / *Deflection limit value is L/200.*



Delik arası mesafe: 25 mm
Delik çapı: 9,5 mm
Distance between holes: 25 mm
Hole diameter: 9,5 mm



Hizmet / Service

Özel tasarımı sayesinde orta segment yük taşıma kapasitesine sahip, uygulama için belli aralıklarda montaj delikleri ve kendinden dış açabilen vidasıyla pratik montaj sağlayan modüler profillerdir. *Promega is modular profile system, provide easy installation with self-threading bolt and medium load capacity due to its special design.*

Malzeme ve Tipi / Materials and Type:

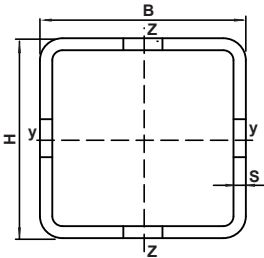
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

Teknik Bilgi / Technical Data

Kod / Code	HxB (mm)	S (mm)	Boy / Length (mm)
PMP-050.3	50x50	3	6000



Kesit Özellikleri / Section Properties

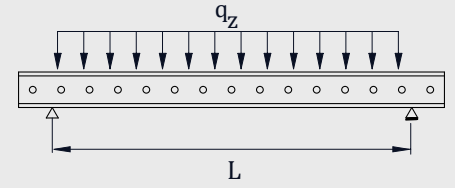
Profil Boyu / Profil Size (mm)			Birim Ağırlık / Unit Weight (kg)	Kesit Alanı / Cross Section Area (mm ²)	Burulma Modülü / Torsional Section Modules (cm ²)	Atalet Burulma Momenti / Torsion Moment of Inertia (cm ⁴)	Kesit Atalet Momenti / Moment of Inertia (cm ⁴)		Kesit Mukavemet Momenti / Section Modules (cm ³)	
H	B	S		A	Wp	Ip	Iy	Iz	Wy	Wz
50	50	3	4,00	432,00	13,19	33,07	16,53	16,53	6,61	6,61

■ Kesit özellikleri delikli net kesite göre belirlenmiştir.
The section properties is determined according to the perforated section.

Yayıllı yük / Distributed load

Lmax (mm)	qz, perm kN/m	Fz, (qz,perm *L) kN
1000	8,5	8,5
1500	2,7	4,05
2000	1,1	2,2
2500	0,56	1,4
3000	0,31	0,93
3500	0,19	0,665

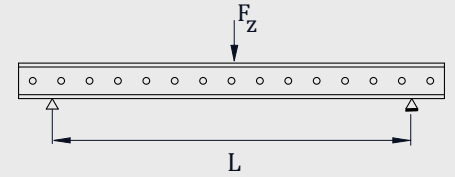
qz[kN/m]L üzerindeki sabit yük
qz[kN/m] as permanent load at L



Tek nokta yük / Point load

Lmax (mm)	Fz, perm kN
1000	4,3
1500	2,6
2000	1,4
2500	0,91
3000	0,61
3500	0,39

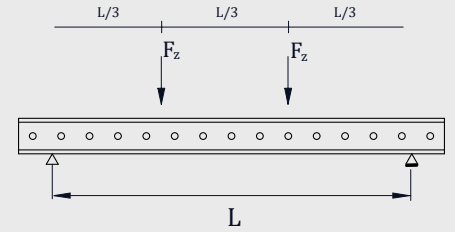
Fz[kN] L/2 üzerindeki sabit yük
Fz[kN] as permanent load at L/2



Çift nokta yük / 2 Point loads

Lmax (mm)	Fz, perm kN
1000	3,2
1500	1,5
2000	0,8
2500	0,52
3000	0,34
3500	0,24

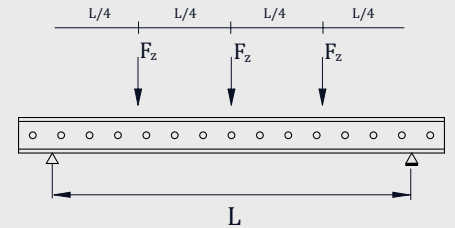
Fz[kN] L/2 ve 2*L/3 üzerindeki sabit yük
Fz[kN] as permanent load at L/2 and 2*L/3



Üç nokta yük / 3 Point loads

Lmax (mm)	Fz, perm kN
1000	2,4
1500	1,1
2000	0,6
2500	0,35
3000	0,26
3500	0,17

Fz[kN] L/4, L/2 ve 3*L/4 üzerindeki sabit yük
Fz[kN] as permanent load at L/4, L/2 and 3*L/4



- Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir. *Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)*
- Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır. / *Self weight considered.*
- Emniyet faktörü 1,35 olarak hesaba katılmıştır. / *Safety factor is taken into account as 1,35.*
- Sehim limit değeri L/200 olarak alınmıştır. / *Deflection limit value is L/200.*

Bağlantı
Parçaları
Fittings



Hizmet / Service

Özel formu sayesinde delik içerisine, kendinden dış açıp sabitlenen kolay montaj cıvatasıdır.

Easy installation bolt that can create its own thread inside of the hole and provides safe connection due to its special form.

Malzeme ve Tipi / Materials and Type:

Çelik / Steel

Malzeme Sınıf / Material Grade:

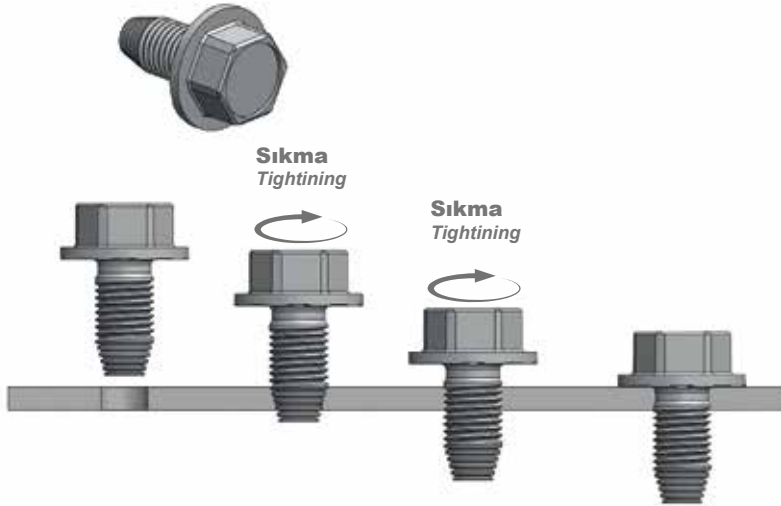
10.9

Standart Kaplama / Coating:

Dacromad / Dacromet

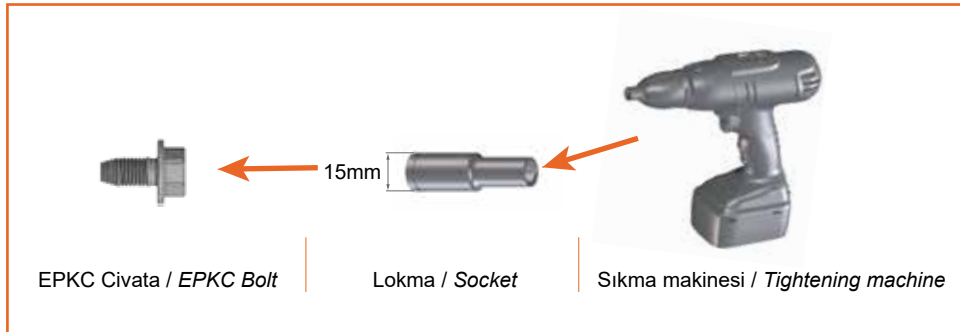
Teknik Bilgi / Technical Data

Kod / Code	Boy / Length (m)
EPKC.1020	M10x20



Cıvata flanşı sac üzerine oturduktan sonra extra sıkma yapılmamalıdır.

*Tightening has to be finished when bolt flange touch sheet metal.
No extra tightening should be made after this contact.*



EPKC Cıvata / EPKC Bolt

Lokma / Socket

Sıkma makinesi / Tightening machine

Hizmet / Service

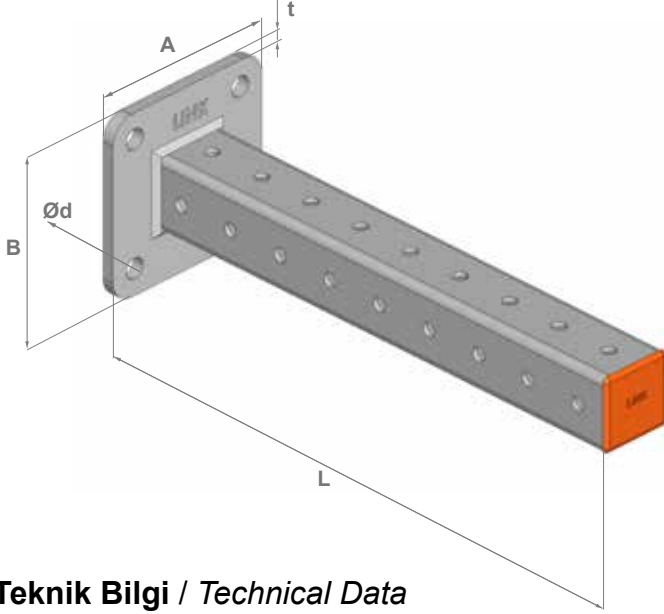
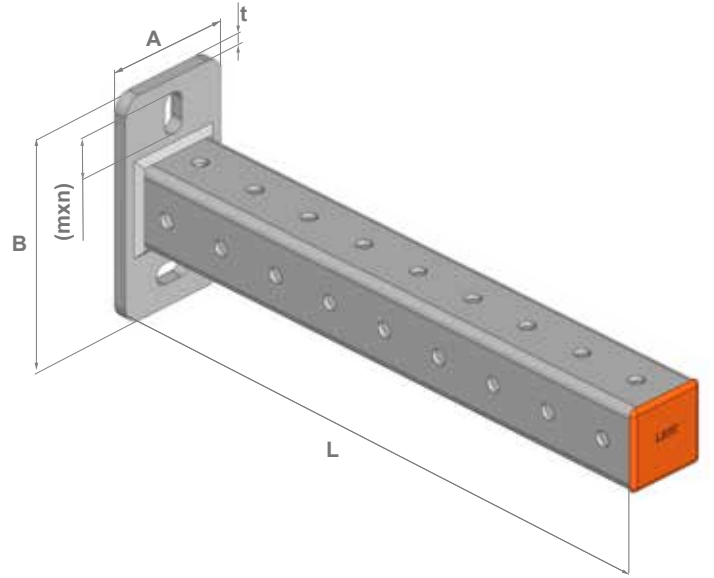
Yapıya bağlantı uygulamalarında kullanılan plaka kaynaklı konsol.
Plate welded support designed for cantilever application.

Malzeme ve Tipi / Materials and Type:

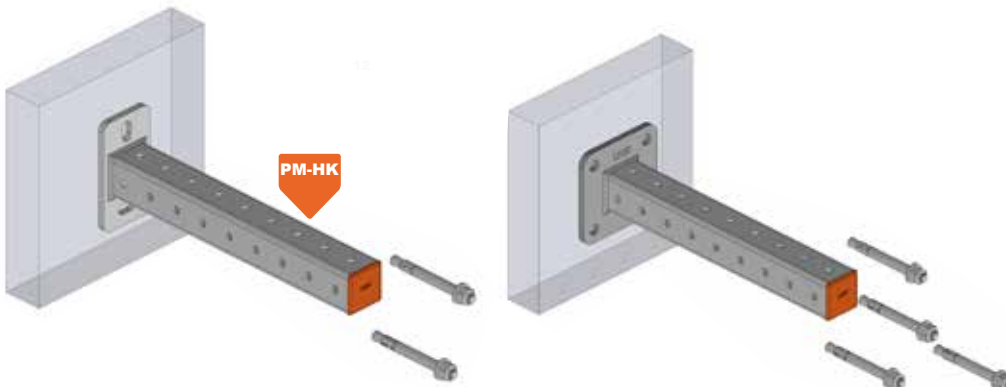
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma dalvaniz
Hot-dip galvanized

PM-HK.040 / 050

PM-HK.041 / 051

Teknik Bilgi / Technical Data

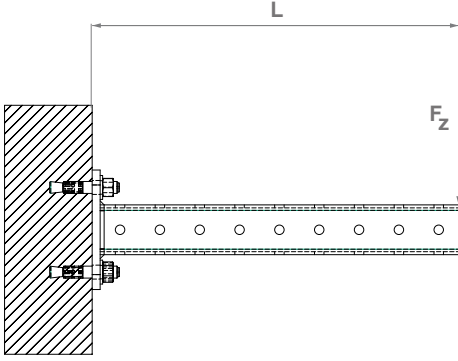
Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Boy / Length (mm)	Profil Tipi / Profile Type
PMHK.040.0500	125	125	8	Ø14	-	500	PMP-040.3
PMHK.040.1000	125	125	8	Ø14	-	1000	PMP-040.3
PMHK.040.1500	125	125	8	Ø14	-	1500	PMP-040.3
PMHK.050.0500	125	125	8	Ø14	-	500	PMP-050.3
PMHK.050.1000	125	125	8	Ø14	-	1000	PMP-050.3
PMHK.050.1500	125	125	8	Ø14	-	1500	PMP-050.3
PMHK.041.0500	70	135	8	-	13x25	500	PMP-040.3
PMHK.041.1000	70	135	8	-	13x25	1000	PMP-040.3
PMHK.041.1500	70	135	8	-	13x25	1500	PMP-040.3
PMHK.051.0500	70	135	8	-	13x25	500	PMP-050.3
PMHK.051.1000	70	135	8	-	13x25	1000	PMP-050.3
PMHK.051.1500	70	135	8	-	13x25	1500	PMP-050.3

Uygulama / Installation


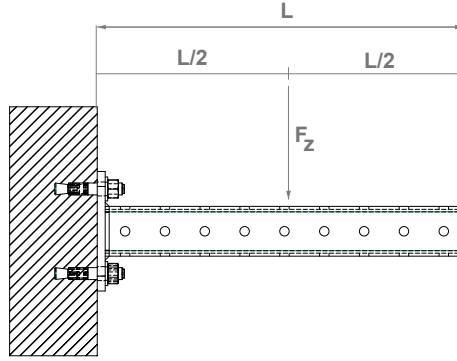
Montaj Detayı / Installation Detail:
ProMEGA hazır konsol bağlantıları 2 veya 4 adet klipsli dübel ile yapılır.
Support is fixed to concrete with 2 or 4 pcs anchors.

ProMEGA PM-HK Yük Dayanım Tabloları / ProMEGA PM-HK Load Capacity Tables

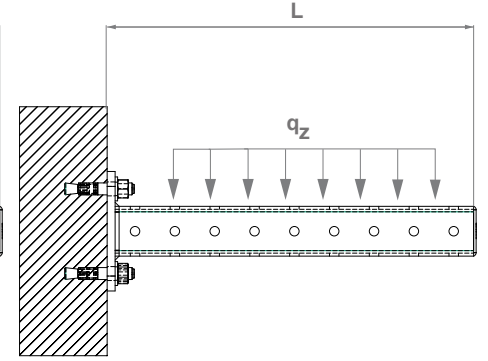
Tek Nokta Yük / Point Load



Orta Yük / Middle Load



Yayıllı Yük / Distributed Load



40x40x3 / Tüm Tipler İçin / For All Types

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
40x40x3	500	0,7	2,3	3,8	1,9
40x40x3	1000	0,17	0,55	0,45	0,45
40x40x3	1500	0,067	0,21	0,12	0,18

50x50x3 - 2 Dübelli / With 2 Anchors

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
50x50x3	500	1,1	2,3	4,6	2,3
50x50x3	1000	0,4	1,1	1	1
50x50x3	1500	0,15	0,5	0,25	0,375

50x50x3 - 4 Dübelli / With 4 Anchors

	Lmax (mm)	Tek Yük Point load (kN)	Orta Yük Middle load (kN)	Yayıllı Yük / Distributed load	
				qz (kN/m)	fz=qzL (kN)
50x50x3	500	1,6	4,3	8,3	4,15
50x50x3	1000	0,4	1,25	1	1
50x50x3	1500	0,15	0,5	0,25	0,375

Yük kapasite hesaplamaları Eurocode 3 (EN 1993) standardına göre belirlenmiştir.

Basis of calculation of the load capacity is accordance with Eurocode 3 (EN 1993)

Sistemi oluşturan elemanların kendi ağırlıkları dikkate alınmıştır.

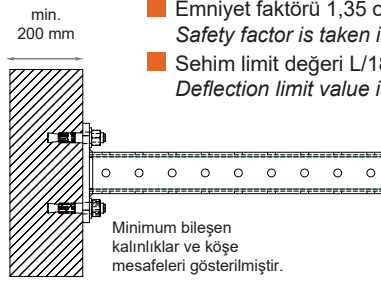
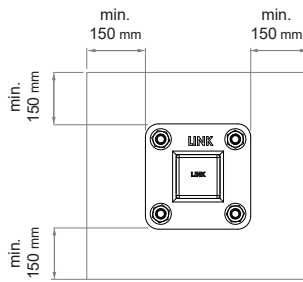
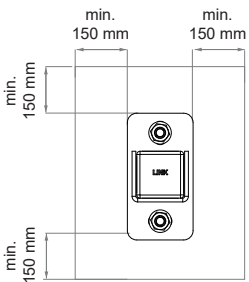
Self weight considered.

Emniyet faktörü 1,35 olarak hesaba katılmıştır.

Safety factor is taken into account as 1,35.

Sehim limit değeri L/180 olarak alınmıştır.

Deflection limit value is L/180



Minimum bileşen kalınlıklar ve köşe mesafeleri gösterilmiştir.

Minimum substrate thickness and edge distances shown.

Hizmet / Service

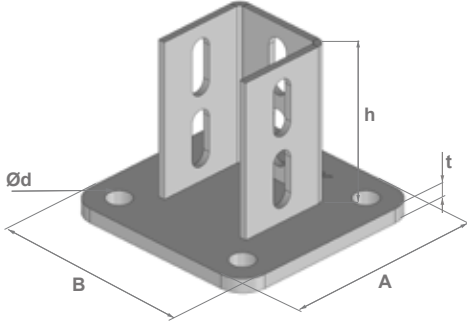
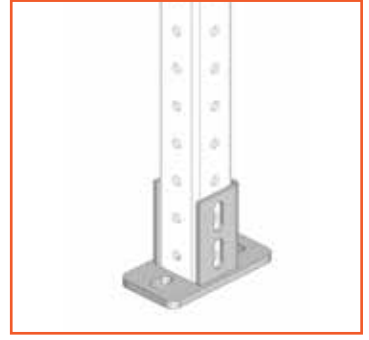
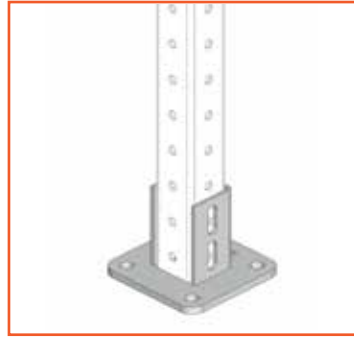
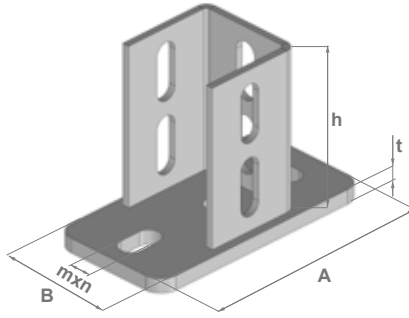
Profillerin taban veya tavana bağlanması için tasarlanmıştır.
Designed for connection of profiles to the base or ceiling.

Malzeme ve Tipi / Materials and Type:

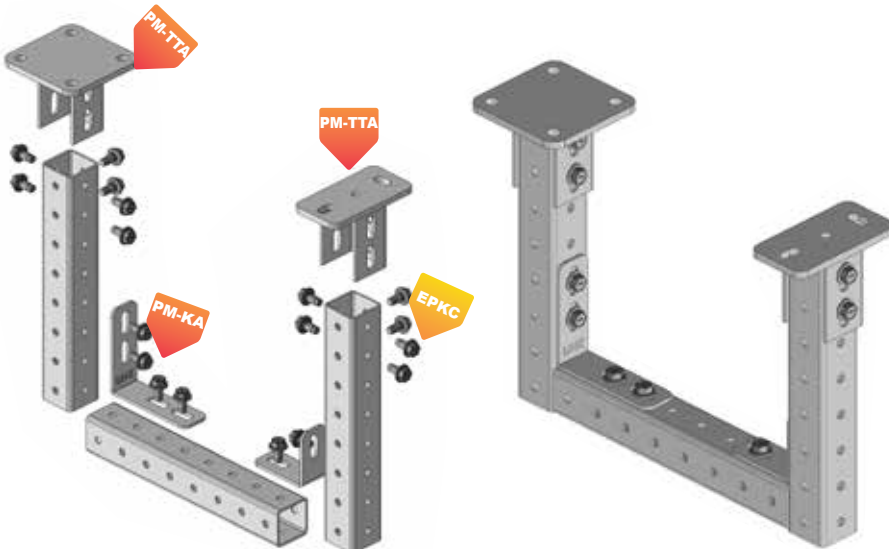
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip Galvanized

PM-TTA.041 / 051

PM-TTA.040 / 050

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil / Suitable For
PMTTA.040	125	125	8	Ø14	-	PMP-040.3
PMTTA.050	125	125	8	Ø14	-	PMP-050.3
PMTTA.041	70	135	8	-	13x25	PMP-040.3
PMTTA.051	70	135	8	-	13x25	PMP-050.3

Uygulama / Installation

Montaj Detayı / Installation Detail:

PM-TTA tavan - taban ayağının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-TTA base to PMP profile.

Yönlü Bağlantı Parçası / Wing Shape Fittings

PM-TTY

Hizmet / Service

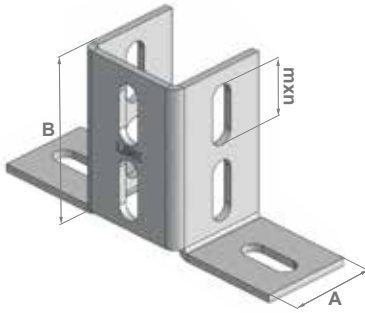
proMEGA yönlü bağlantı parçası, profillerin birbirine montajı için tasarlanmış, üzerindeki delikler sayesinde kullanılan profiller ile tam uyumlu civatalı imalat sağlayan yapı bağlantı parçalarıdır. Kendi diş açma özelliğine sahip EPKC tipi civatalar ile kullanıma uygundur. Konsol kullanım yeri ve farklı profil tiplerine uygun çeşitleri mevcuttur.

Designed for connection of profile to profile . Direct connection to existing profile with self-threading bolt (EPKC) is possible with the round holes in the wing shape fitting. Different types are available in accordance with profile type.

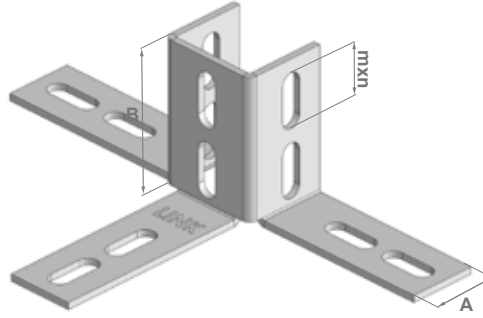
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

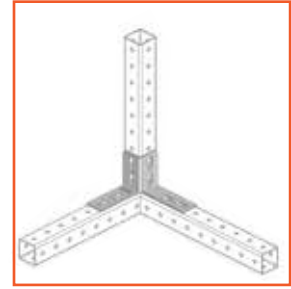
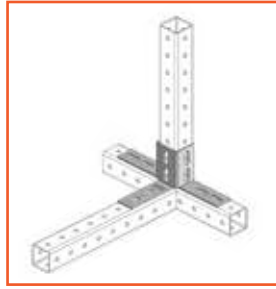
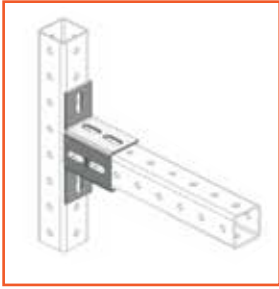
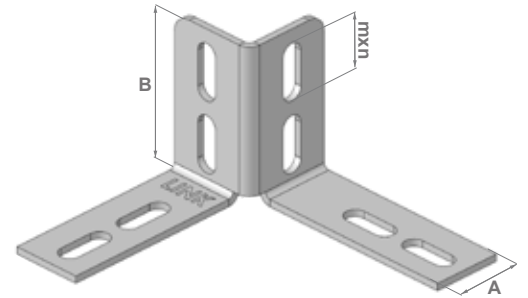
PM-TTY.040 / 050



PM-TTY.041 / 051



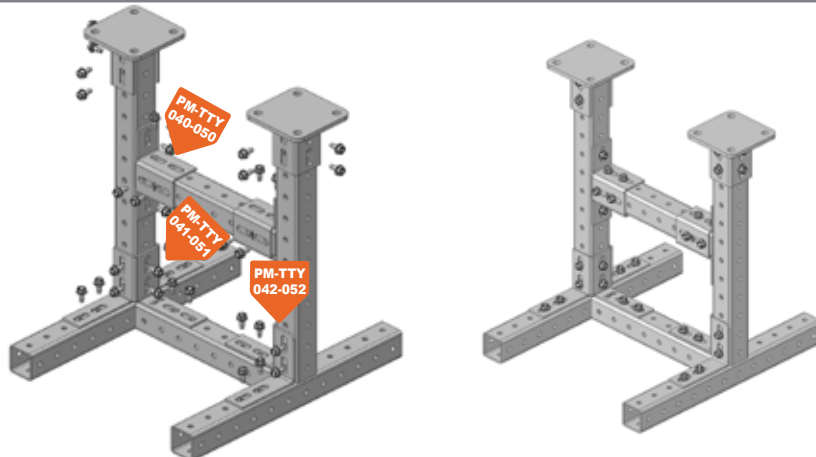
PM-TTY.042 / 052



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMTTY.040	36	96	4	12x35	PMP-040.3
PMTTY.050	48	96	4	12x35	PMP-050.3
PMTTY.041	35	96	4	12x35	PMP-040.3
PMTTY.051	40	96	4	12x35	PMP-050.3
PMTTY.042	32	96	4	12x35	PMP-040.3
PMTTY.052	40	96	4	12x35	PMP-050.3

Uygulama / Installation



Montaj Detayı / Installation Detail:
PM-TTY konsol ayağının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-TTY bracket to profile.

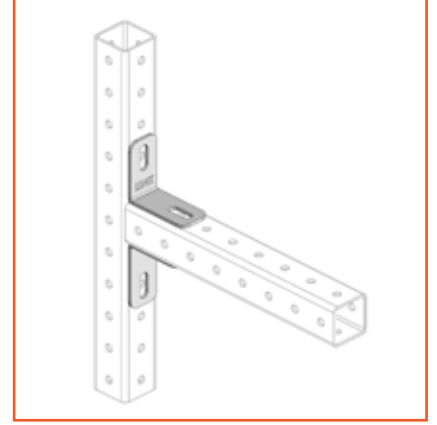
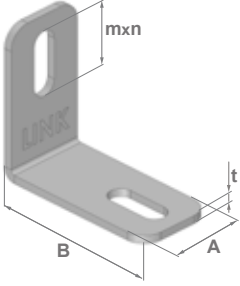
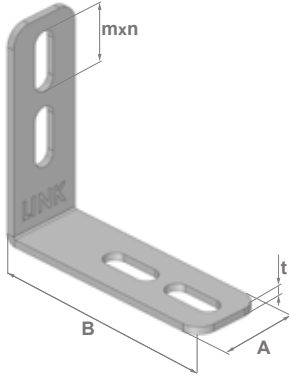
Hizmet / Service

Birbirine dik Promega profillerin bağlantısında kullanılan köşe destek elemanıdır. Kendinden dış açma özelliğine sahip EPKC civatalar ile kolay kurulum sağlanmaktadır.

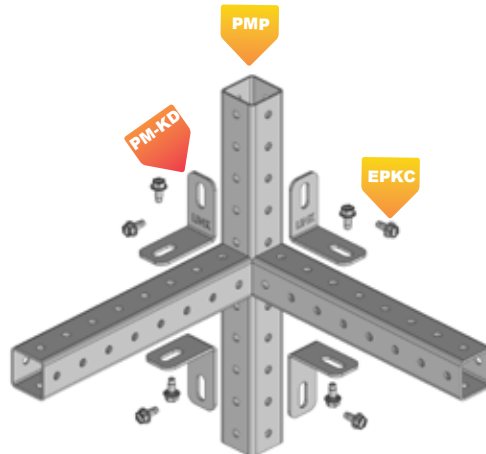
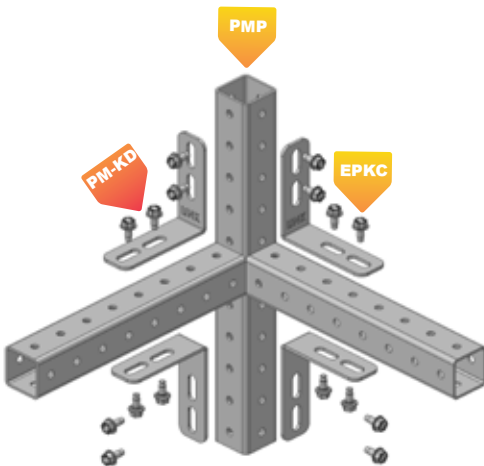
Corner fitting, provides 90° connection of Promega profiles. Easy installation with EPKC self threading bolt.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-KD.451

PM-KD.450

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMKD.045.01	35	61	4	12x35	PMP-040.3 / PMP.050.3
PMKD.045.02	35	104	4	12x35	PMP-040.3 / PMP.050.3

Uygulama / Installation


Montaj Detayı / Installation Detail:
PM-KD köşe bağlantı parçasının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-KD corner fitting to profile.

Köşe Bağlantı Parçası / Corner Fitting

PM-KD

Hizmet / Service

Birbirine dik Promega profillerin bağlantısında kullanılan köşe destek elemanıdır. Kendinden dış açma özelliğine sahip EPKC civatalar ile kolay kurulum sağlanmaktadır.

Corner fitting, provides 90° connection of Promega profiles. Easy installation with EPKC self threading bolt.

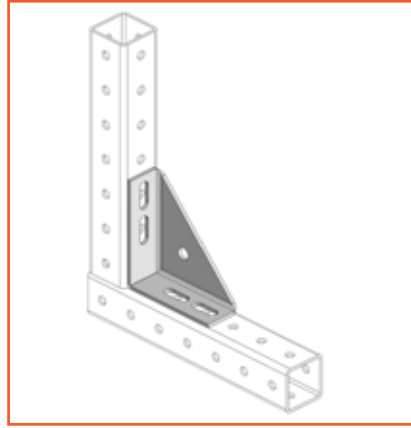
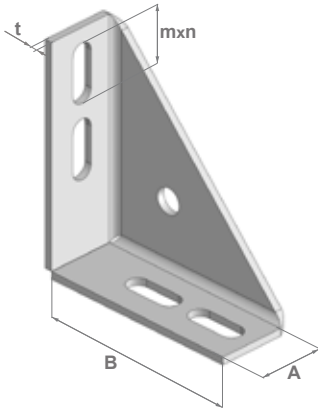
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

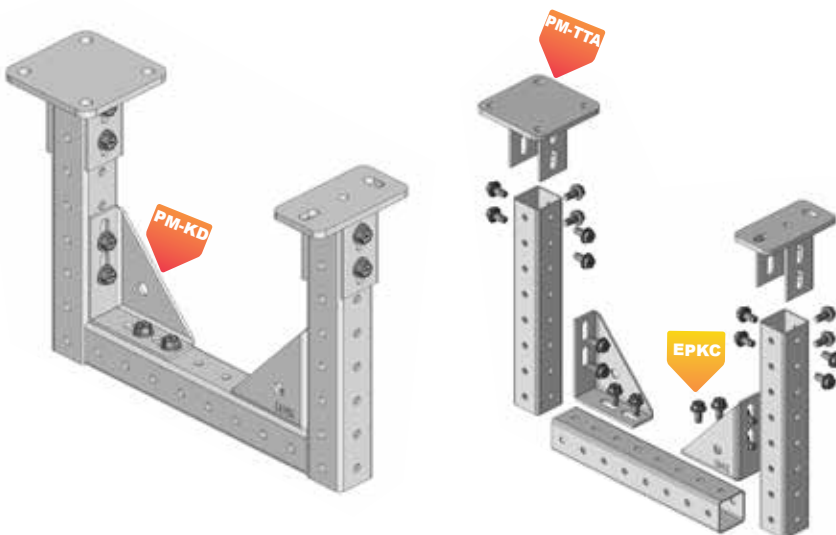
PM-KD.452



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	mxn (mm)	Uyumlu Profil / Suitable For
PMKD.045	26	110	4	12x35	PMP-040.3 / PMP.050.3

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-KD köşe bağlantı parçasının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-KD corner fitting to profile.

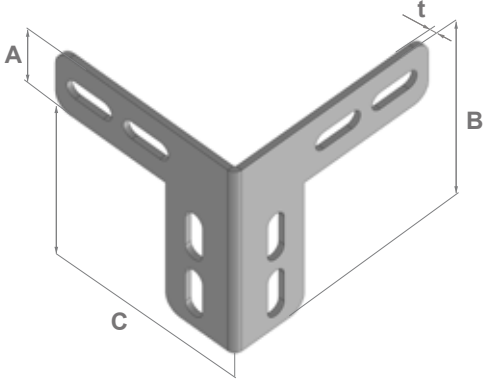
Hizmet / Service

Promega profillerin birbiriyle bağlantısında kullanılmak üzere tasarlanmıştır.
Designed to be used in connections of Promega profile.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

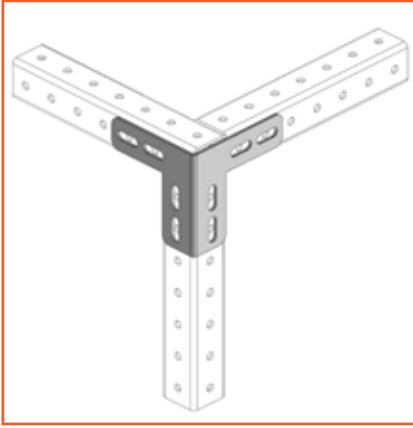
Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-TDE.040 / 050

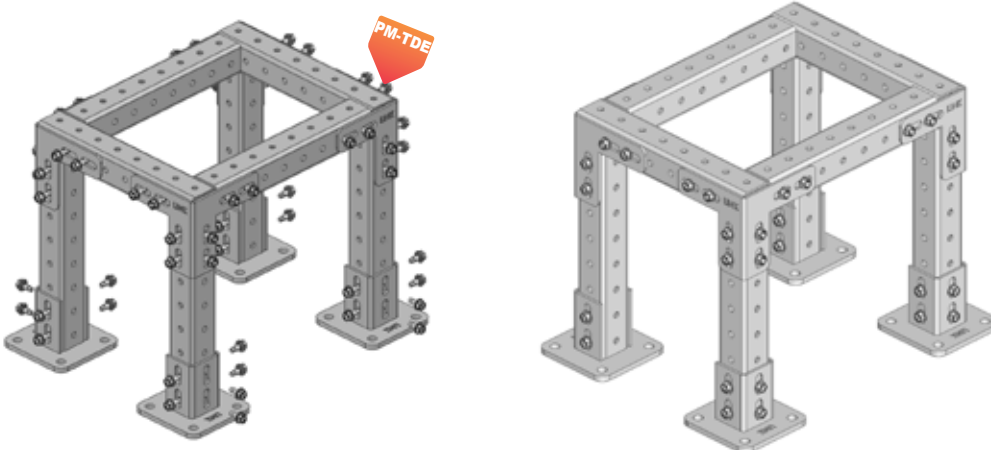


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	Uyumlu Profil Suitable For
PMTDE.040	32	120	127	4	PMP-040.3
PMTDE.050	40	127	128	4	PMP-050.3



Uygulama / Installation



Montaj Detayı / Installation Detail:
PM-TDE Toplayıcı köşe elemanının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-TDE Outer corner fittings.

Ayarlanabilir Mafsal Ayağı / Adjustable Hinge Fitting

PM-MEG

Hizmet / Service

Promega profillerde açılı destek elemanların bağlantısını sağlayan ara birim elemanıdır.
It is a fitting that provides connection of angled support Promega profiles

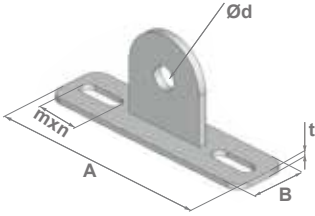
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

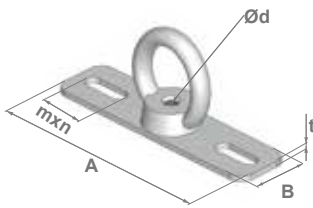
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-MEG.040/050



PM-MEG.041/051



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMEG.040	170	33	4	Ø18	12x35	PMP-040.3
PMMEG.050	170	43	4	Ø18	12x35	PMP-050.3

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMEG.041	170	33	4	Ø38	12x35	PMP-040.3
PMMEG.051	170	43	4	Ø38	12x35	PMP-050.30.4

Ayarlanabilir Mafsal Ayağı / Adjustable Hinge Fitting

PM-MFS

Hizmet / Service

ProMEGA profillerinde açılı destek elemanların bağlantısını sağlayan ara birim elemanıdır.
It is a fitting that provides connection of angled Promega profiles.

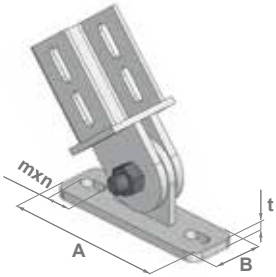
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

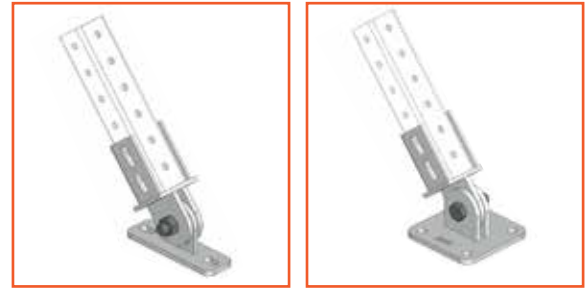
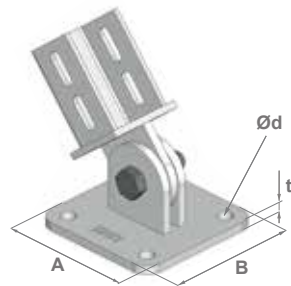
Standart Kaplama / Coating:

Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-MFS.040/050



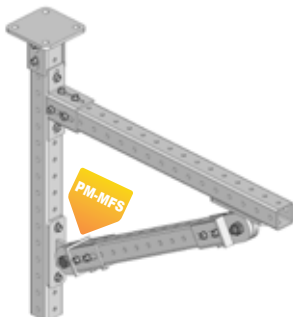
PM-MFS.041/051



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMMFS.040	170	33	4	-	12x35	PMP-040.3
PMMFS.041	125	125	8	Ø14	-	PMP-040.3
PMMFS.050	170	43	4	-	12x35	PMP-050.3
PMMFS.051	125	125	8	Ø14	-	PMP-050.3

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-MEG ve PM-MFS ayarlanabilir mafsal ayaklarının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-MEG and PM-MFS adjustable hinge fittings to profile.

T Tipi Bağlantı Parçası / T Type Plate Fitting

PM-DDE

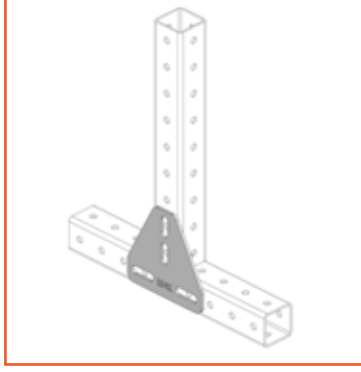
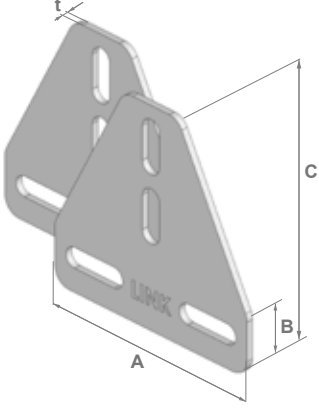
Hizmet / Service

Promega profillerin birbiriyle bağlantısında kullanılmak üzere tasarlanmıştır.
Designed to be used in connections of Promega profile.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-DDE.450



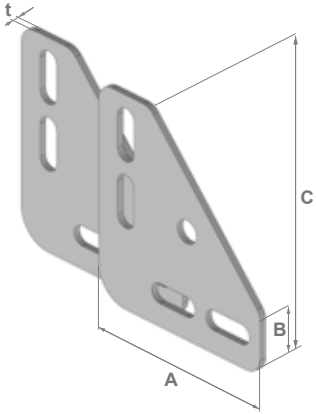
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMDE.450	106	28	127	4	12x35	PMP-040.3 / PMP.050.3

L Tipi Bağlantı Parçası / L Type Plate Fitting

PM-KDE

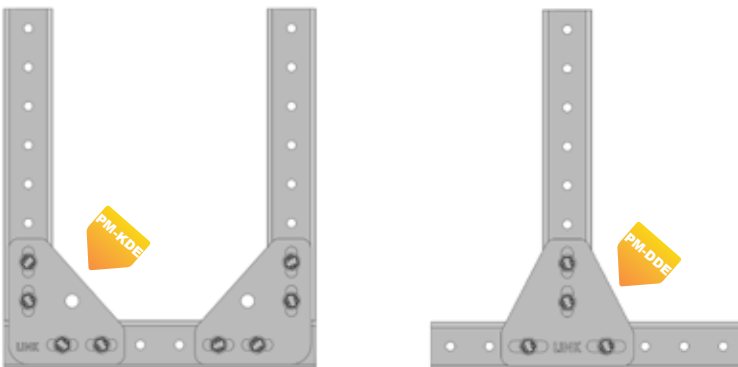
PM-KDE.450



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	Uyumlu Profil Suitable For
PMKDE.045	129	24	129	4	12x35	PMP-040.3 / PMP.050.3

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-DDE ve PM-KDE plaka tipi bağlantı parçalarının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-DDE and PM-KDE plate fittings to profile.

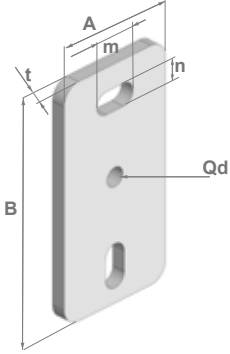
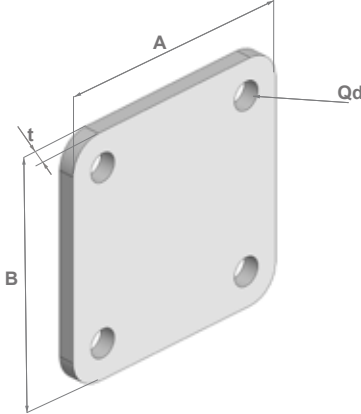
Hizmet / Service

Promega profillerinin yapı ile bağlantısında kullanılmak için tasarlanmış ara birim elemanlarıdır. Slot delikleri sayesinde tüm zemin ve yapı gruplarına uyum sağlayacak şekilde tasarlanmıştır.

*Designed as an interface components for use between building and Promega profiles.
Slot holes allow flexible connection.*

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-PLT.450

PM-PLT.451

Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	m x n (mm)	Uyumlu Profil Suitable For
PMPLT.045	70	135	8	13x25	PMP-040.3 / PMP-050.3

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	Uyumlu Profil Suitable For
PMPLT.045.01	125	125	8	14	PMP-040.3 / PMP.050.3

- PM-PLT.450, PM-PLT.451 Plakalar, zeminden kaynaklanan kot farkının ayarlanması için kullanılabilir. PM-PLT.450, PM-PLT.451 plates are used for managing for different floor height.

Uygulama / Installation

Montaj Detayı / Installation Detail:

PM-PLT plaka ürünleri üzerinde bulunan dış açılmış delikler sayesinde rot yardımı ile yükseklik ayarı yapmanızı sağlar. PM-PLT plates are allow adjusting to height with threaded rods and threaded holes system.

Hizmet / Service

Promega profillerinin birbirleriyle 90 derece açı ile yapmış olduğu bağlantılarda kullanılmak üzere tasarlanmış birleştirme parçalarıdır. Uygun yapı sistemlerinde Promega profillerinin taban plakası kullanılmadan yüzeye paralel olarak bağlantı yapmasını sağlamaktadır.

Designed for 90 degree connection of Promega profiles. In suitable construction systems, the profiles are connected in parallel with the surface without using a base plate.

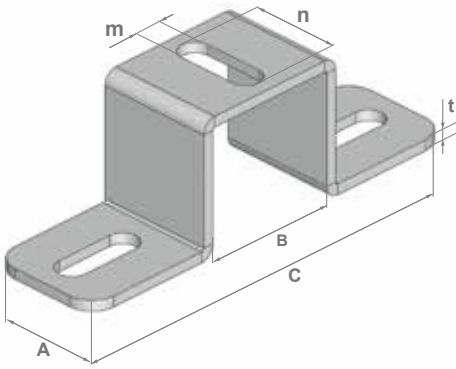
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

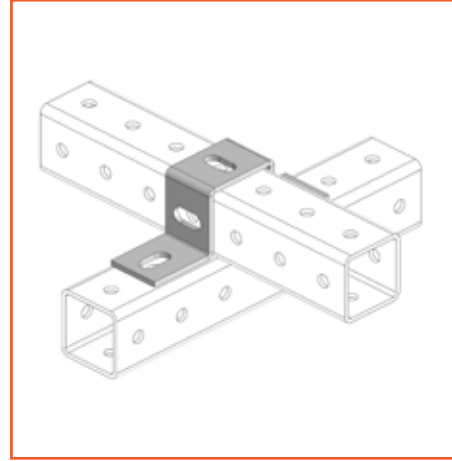
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

PM-TA.040 / 050

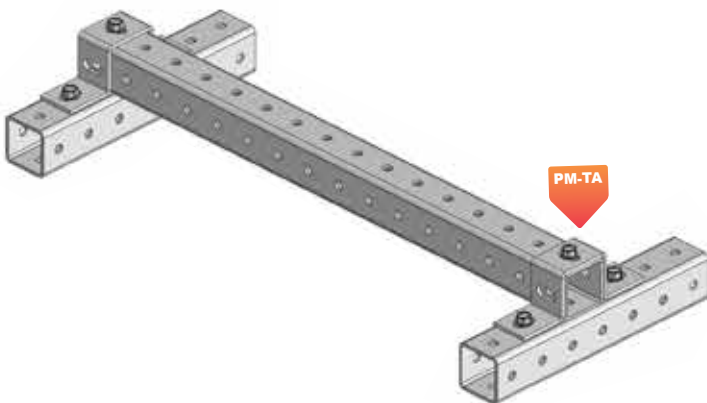


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	C (mm)	t (mm)	mxn (mm)	Uyumlu Profil / Suitable For
PMTA.040	40	42	152	4	12x35	PMP-040.3
PMTA.050	45	52	162	4	12x35	PMP-050.3



Uygulamalar / Installation



Montaj Detayı / Installation Detail:

PM-TA U bağlantı atkısının profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-TA U Shape Fitting

U-Bolt Askı Kelepçesi / U-Bolt Pipe Clamp

UKP

Hizmet / Service

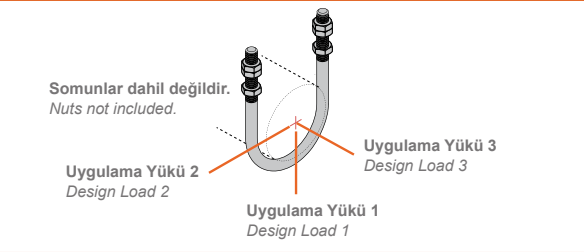
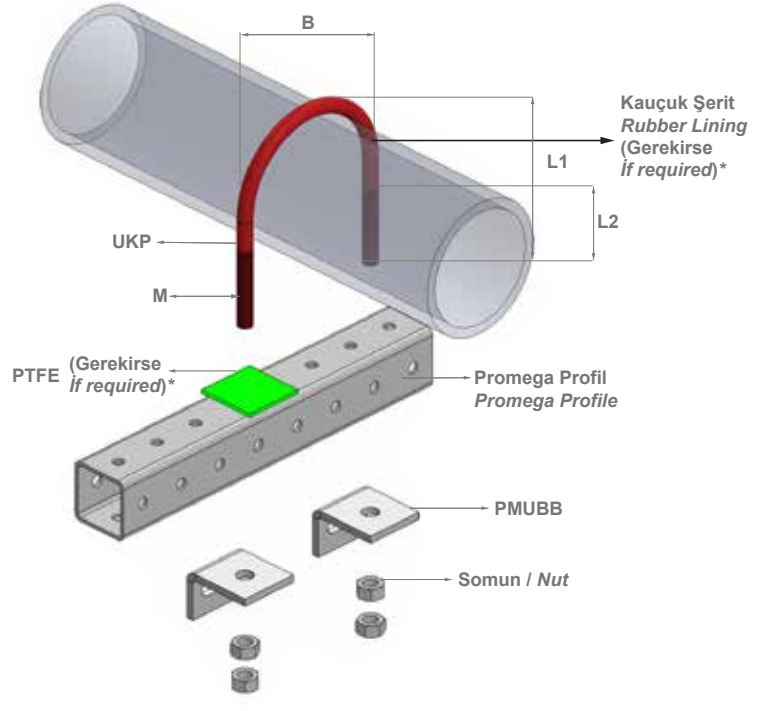
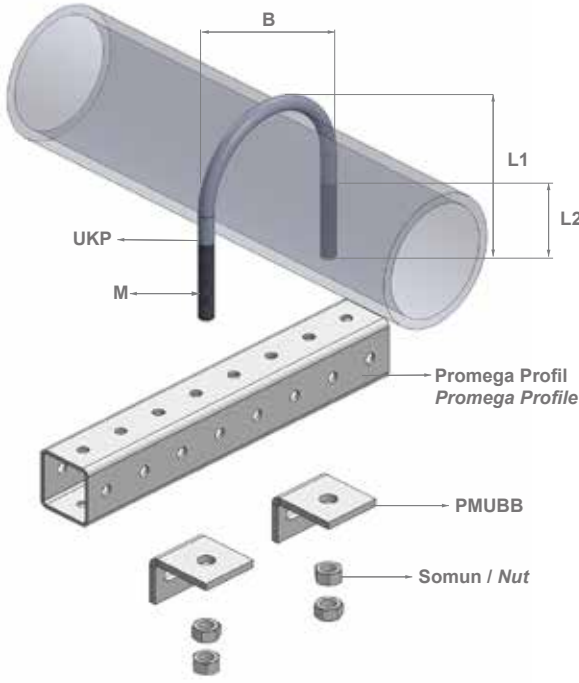
Boruların kılavuz, destek veya bağlantısı için dizayn edilmiştir.
Designed as a support, guide of pipe.

Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081
Zinc Plated



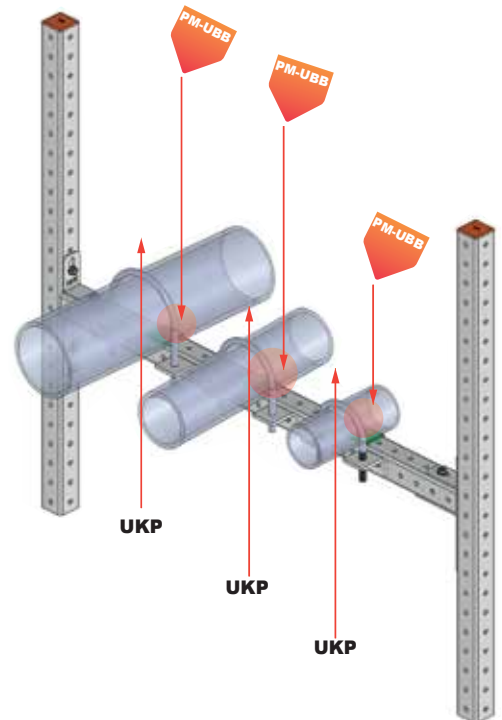
* Eğer boru malzemesi profil ve kelepçeden farklı ise oradaki teması kesmek için PTFE ve kauçuk şerit kullanılabilir. Bu ürünler gerekli ise sipariş için lütfen danışın.

If pipe material is different from profile and clamp materials, PTFE and rubber lining might be used to cut off this contact. If required, please contact for order.

Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		M	B (mm)	L1 (mm)	L2 (mm)	Uygulama Yüğü 1 Design Load 1 kN		Uygulama Yüğü 2 Design Load 2 kN	Uygulama Yüğü 3 Design Load 3 kN
	(Inch.)	(mm)					343 °C	400°C	343 °C	343 °C
UKP.3090	1/2	15	M.6	24	32	30	2,58	2,02	0,64	1,33
UKP.3091	3/4	20	M.6	30	39	30	2,58	2,02	0,64	1,33
UKP.3092	1	25	M.8	36	44	30	2,58	2,02	0,64	2,67
UKP.3093	1 1/4	32	M.8	46	48	40	2,58	2,02	0,64	2,67
UKP.3094	1 1/2	40	M.8	56	56	50	2,58	2,02	0,64	2,67
UKP.3095	2	50	M.10	68	68	50	6,49	5,09	1,62	3,20
UKP.3096	2 1/2	65	M.10	78	71	50	6,49	5,09	1,62	3,20
UKP.3097	3	80	M.12	94	81	60	12,01	9,40	3,00	4,00
UKP.3098	4	100	M.12	118	89	65	12,01	9,40	3,00	4,00
UKP.3099	5	125	M.12	146	115	65	12,01	9,40	3,00	4,00
UKP.3100	6	150	M.16	172	118	90	18,10	12,25	3,65	4,80
UKP.3101	8	200	M.16	224	142	90	18,10	12,25	3,65	4,80
UKP.3102	10	250	M.16	278	169	100	18,10	12,25	3,65	-
UKP.3103	12	300	M.16	328	200	100	18,10	12,25	3,65	-

MSS SP-58 & MSS SP-69 TYPE 24



Hizmet / Service

U-Bolt kelepçelerin Promega profillerine montajını gerçekleştirmek üzere tasarlanmış bağlantı ürünleridir. Konsol uygulamalarında kullanılan profillerin yan yüzeyine montaj yapılarak U-Bolt kelepçelerin kolay bağlantısını sağlamaktadır.

Designed to install U-Bolt clamps on Promega profiles. It provides easy connection of U-Bolt clamps by mounting on side surface of profiles used in support applications.

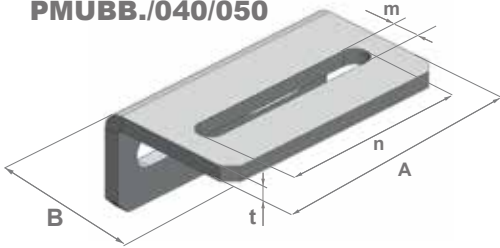
Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

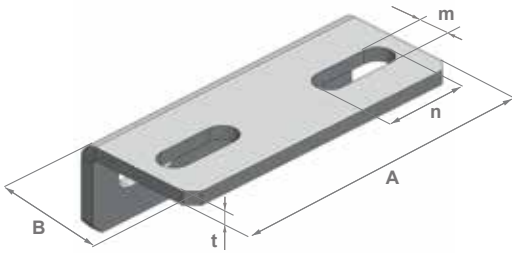
Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Ød (mm)	mxn (mm)	Uygunluk Compliance	Uyumlu U Bolt Suitable U Bolt
PMUBB.040	100	60	4	-	11x80	PMP-040.3	1/2"-1 1/2"
PMUBB.041	140	60	4	-	14x40	PMP-040.3	2"-3"
PMUBB.042	50	60	4	Ø14	-	PMP-040.3	3"-5"
PMUBB.043	50	60	4	Ø18	-	PMP-040.3	6"-12"
PMUBB.050	100	60	4	-	11x80	PMP-050.3	1/2"-1 1/2"
PMUBB.051	140	60	4	-	14x40	PMP-050.3	2"-3"
PMUBB.052	50	60	4	Ø14	-	PMP-050.3	3"-5"
PMUBB.053	50	60	4	Ø18	-	PMP-050.3	6"-12"

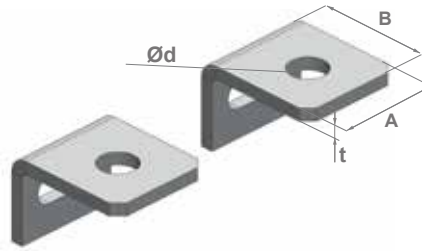
PMUBB./040/050



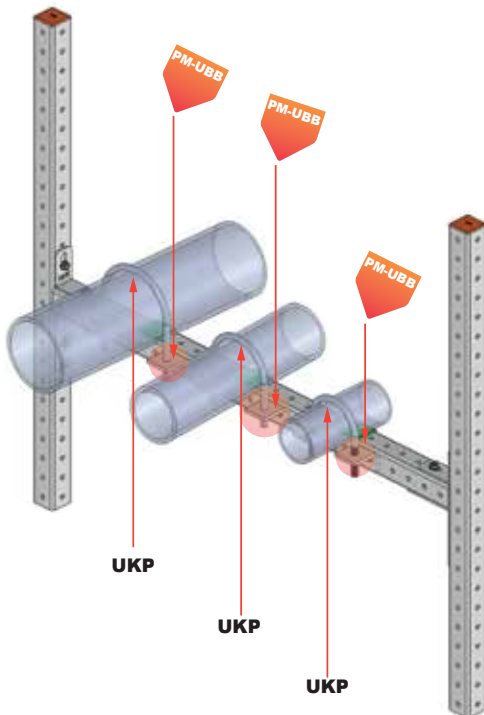
PMUBB./041/051



PMUBB./042/043 - 052/053



Uygulamalar / Installation



Montaj Detayı / Installation Detail:
PM-UBB U bolt bağlantı braketinin profile montajı yapılırken EPKC tipi civata kullanılır.
EPKC type bolt is used to fix PM-UBB U bolt connection brackets

Kare Bolt Kiriş Kenedi / Square Bolt Beam Clamp

PM-NPI

Hizmet / Service

PM-NPI ürünü HEA/HEB yapı çeliklerine modüler profil sistemlerinin montajı için dizayn edilmiştir.
NPI product Designed for connection of modular profile system to the HEA/HEB construction steel.

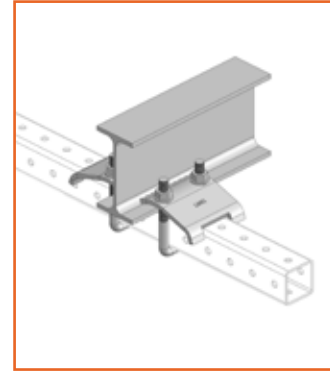
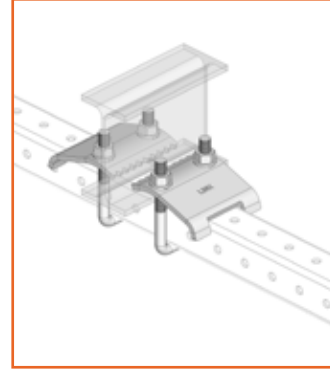
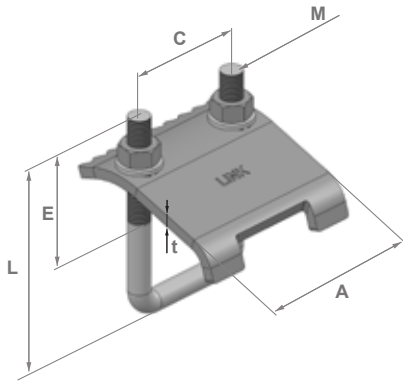
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081 / Sıcak Daldırma Galvaniz
Zinc Plated / Hot Dip Galvanized

PMNPI



Teknik Bilgi / Technical Data

Kod / Code	A	t	C	MxE	L	Uyumlu Profiller Suitable for
PMNPI.050	95	6	65	M.12x60	116	PMP-050.3
PMNPI.040	85	6	55	M.12x60	105	PMP-040.3

Uygulamalar / Installation



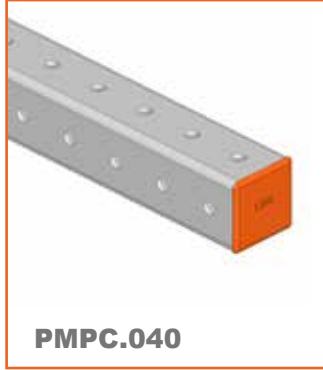
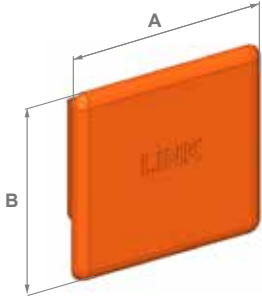
Hizmet / Service

proMEGA modüler profilleriyle yapılan uygulamalarda konsol bitiş noktalarında hem görsel hem de sağlık ve güvenlik gereksinimlerini karşılamak için tasarlanmıştır.

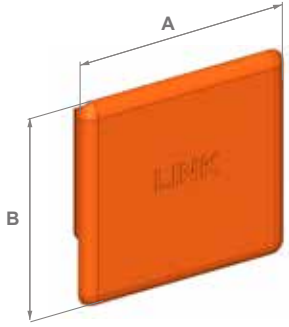
Plastic end cap to close cut ends of proMEGA modular profile to meet both visual and health & safety requirements.

Malzeme ve Tipi / Materials and Type:

Plastik / Plastic


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	Renk / Color	Uyumlu Profil / Suitable For
PMPC.040	40	40	Turuncu / Orange	PMP-040.3


Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	Renk / Color	Uyumlu Profil / Suitable For
PMPC.050	50	50	Turuncu / Orange	PMP-050.3

Polyamid Kayar Yatak / Polyamide Sliding Frame

PM-KY

Hizmet / Service

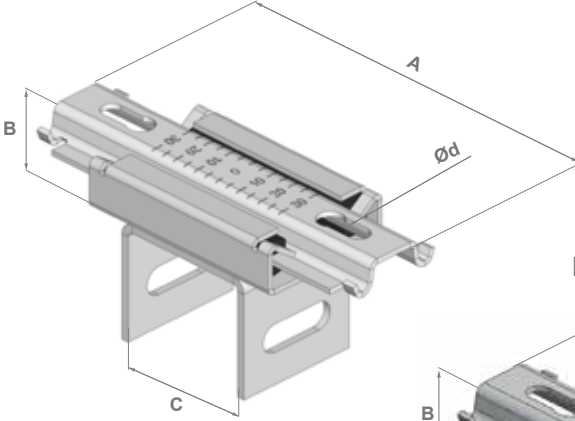
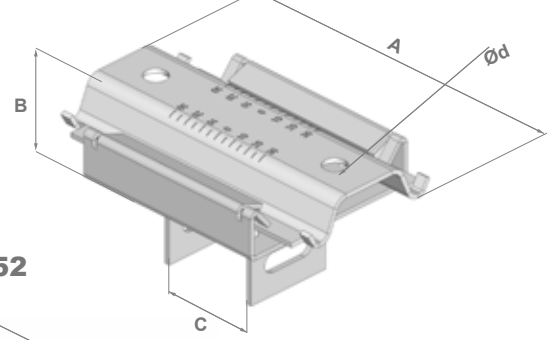
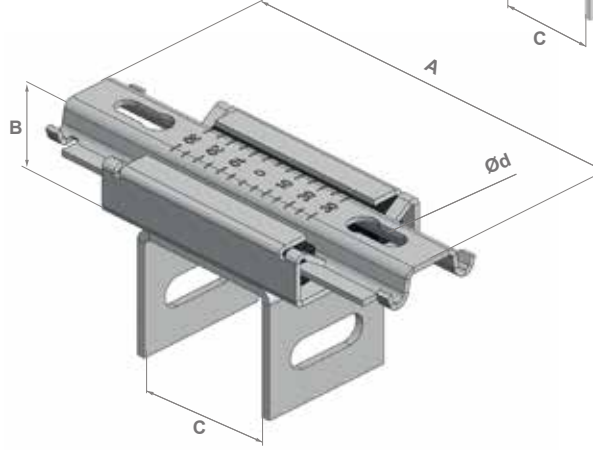
Boruların ısı genleşmeden dolayı oluşan hareketine izin vererek desteklemek için tasarlanmış Promega uyumlu kayar yataklardır. EPKC tipi kendinden dış açma özelliğine sahip civatalar ile kullanıma uygundur.

Designed to carry load and direct the movement of the pipes due to thermal expansion. It is used with EPKC self threading bolt for easy installation.

Malzeme ve Tipi / Materials and Type:
Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:
Sıcak daldırma galvaniz EN 1461
Hot-dip galvanized

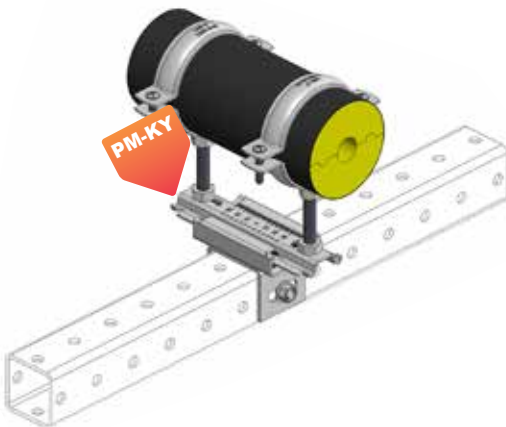
Sürtünme Katsayısı (μ)
Static Frictional Coefficient (μ): 0,20

PMKY.040/050

PMKY.041/051

PMKY.042/052


Teknik Bilgi / Technical Data

Kod / Code	Boru Ölçüsü Pipe Size		A (mm)	B (mm)	C (mm)	Ød (mm)	Uyumlu Profil Suitable For	Çalışma Aralığı Travel Range (mm)
PMKY.040	1/2-3	15-80	150	22	40	Ø8,5X10,5	PMP-040.3	-27 / 0 / +27
PMKY.041	4-6	100-150	170	38	40	Ø13	PMP-040.3	-24 / 0 / +24
PMKY.042	8-10	15-80	240	38	40	Ø13	PMP-040.3	-59 / 0 / +59
PMKY.050	1/2-3	100-150	150	22	50	Ø8,5X10,5	PMP-050.3	-27 / 0 / +27
PMKY.051	4-6	200-250	170	38	50	Ø13	PMP-050.3	-24 / 0 / +24
PMKY.052	8-10	15-80	240	38	50	Ø13	PMP-050.3	-59 / 0 / +59

Uygulama / Installation



Montaj Detayı / Installation Detail:

PMKY kayar yatakların bağlantı ayakları ile Promega profiline montajı yapılırken EPKC tipi kendinden dış açma özelliğine sahip civata kullanılır.
EPKC type bolt is used to fix PM-KY sliding frame fitting.

Somunlu Bağlantı Plakası / Split Clamp Fitting

PM-SKP

Hizmet / Service

Yatay ve dikey boruların askılanmasında ve montajında kullanılmak üzere dizayn edilmiştir.
Designed for connection of clamps to Promega profile.

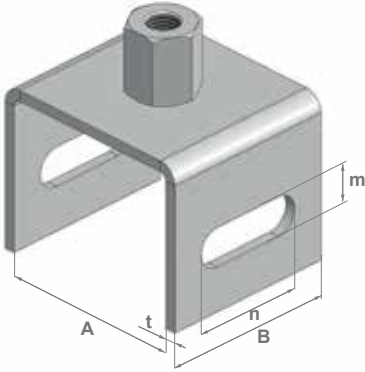
Malzeme ve Tipi / Materials and Type:

Çelik S235 JR / Steel S235 JR

Standart Kaplama / Coating:

Elektro galvaniz ISO 2081
Zinc Plated

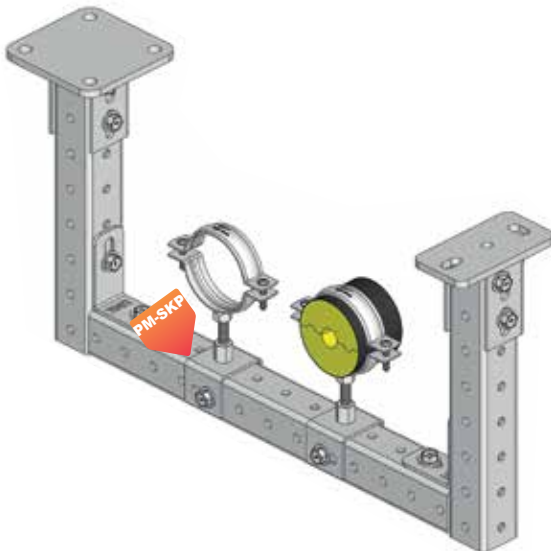
PM-SKP.040/050/041/051



Teknik Bilgi / Technical Data

Kod / Code	A (mm)	B (mm)	t (mm)	Somun / Nut	mxn (mm)	Uyumlu Profil / Suitable For
PMSKP.040	90	50	4	M8/M10	12x32	PMP-040.3
PMSKP.050	90	50	4	M12	12x32	PMP-050.3
PMSKP.041	115	50	4	M8/M10	12x32	PMP-040.3
PMSKP.051	115	50	4	M12	12x32	PMP-050.3

Uygulama / Installation



Montaj Detayı / Installation Detail:

PM-SKP somunlu bağlantı plakasının profile montajı yapılırken EPKC tipi civata kullanılır.

EPKC type bolt is used to fix PM-SKP split clamp fitting.



Nasıl Yapıyoruz? / Business Policy

Müşterilerimiz için ilk temas noktası, tüm proje geliştirme için temel oluşturan satış organizasyonumuzdur. Projenin karmaşıklığına dayanarak, detaylar ve gereksinimler satış ve onların destek ekipleri tarafından mühendislik grubuna iletilmektedir.

Proje özelliklerini anlamak ve bilgi paylaşımında bulunmak için genellikle müşterimizin ilgili departmanı ile doğrudan iletişim kurarız. Daha sonra, elde edilen tüm bilgiler ile mühendislerimiz genel proje kapsamı için en iyi çözümü sunar ve onay için müşterimize iletiriz. Tüm bilgilerin en erişilebilir şekilde sunulmasını sağlamak amacı ile pazarlama ve ürün uzmanlarımız da mühendislik ekibimize destek vermektedir.

Şirket kültürümüzde var olan hassas bir yaklaşımla her bir projeyi tasarım aşamasından itibaren ele alıp uygulama ve denetim aşamalarının sonuna kadar dikkatle ele alır, planlama, üretim ve lojistik birimlerimiz ile zamanında teslimat ve üst kalitede ürün tedariki için çalışırız. LINK bünyesinde ki her bir departman ve sahip olduğu ekipler 360 derece hizmet anlayışımızın birer parçasıdır.

The first contact point for our customers is our sales organization, which is the basis for all project development. Based on the complexity of the project, details and requirements are communicated to the engineering group by the sales and support teams.

We usually work directly with the relevant department of our client to understand project characteristics and share information. Then, with all the information obtained, our engineers provide the best solution for the overall project scope and communicate to our customer for approval. Our marketing team and product specialists are support to engineering team for provide all informations clearly.

LINK takes care of every project from design stage up to the end of application and supervision stages with a sensitive approach, and we work with our planning, production and logistics units to deliver on time delivery and top quality products. Each department and team within Link has are part of our 360 degree service.



Projeye Özel Çözümler / Customized Solutions



Danışmanlık Gücümüz
Consultancy Power

Ürün sistemlerimizin birçoğu, kurulum süresini ve dolayısıyla işgücü maliyetlerini azaltmak için yenilikçi anlayış ile tasarlanmıştır. Tüm proje yolculuğu boyunca zamanında lojistik, planlama, projelendirme ve saha yardımına kadar tüm aşamalarda danışmanlık sunmanın karşılığı olarak mükemmel işler başarmak LINK'in en büyük motivasyonudur.

Bir mühendislik projesi sırasında alınacak önemli kararlar ve hassas değerler vardır. Mühendislik ekibimiz, bu projelerdeki müşterilerimizi desteklemek için; tasarım, malzeme, ürün seçimi, montaj ve gelecekteki kullanım için onlara danışmanlık yaparak hizmet anlayışını da farklılaştırmıştır.

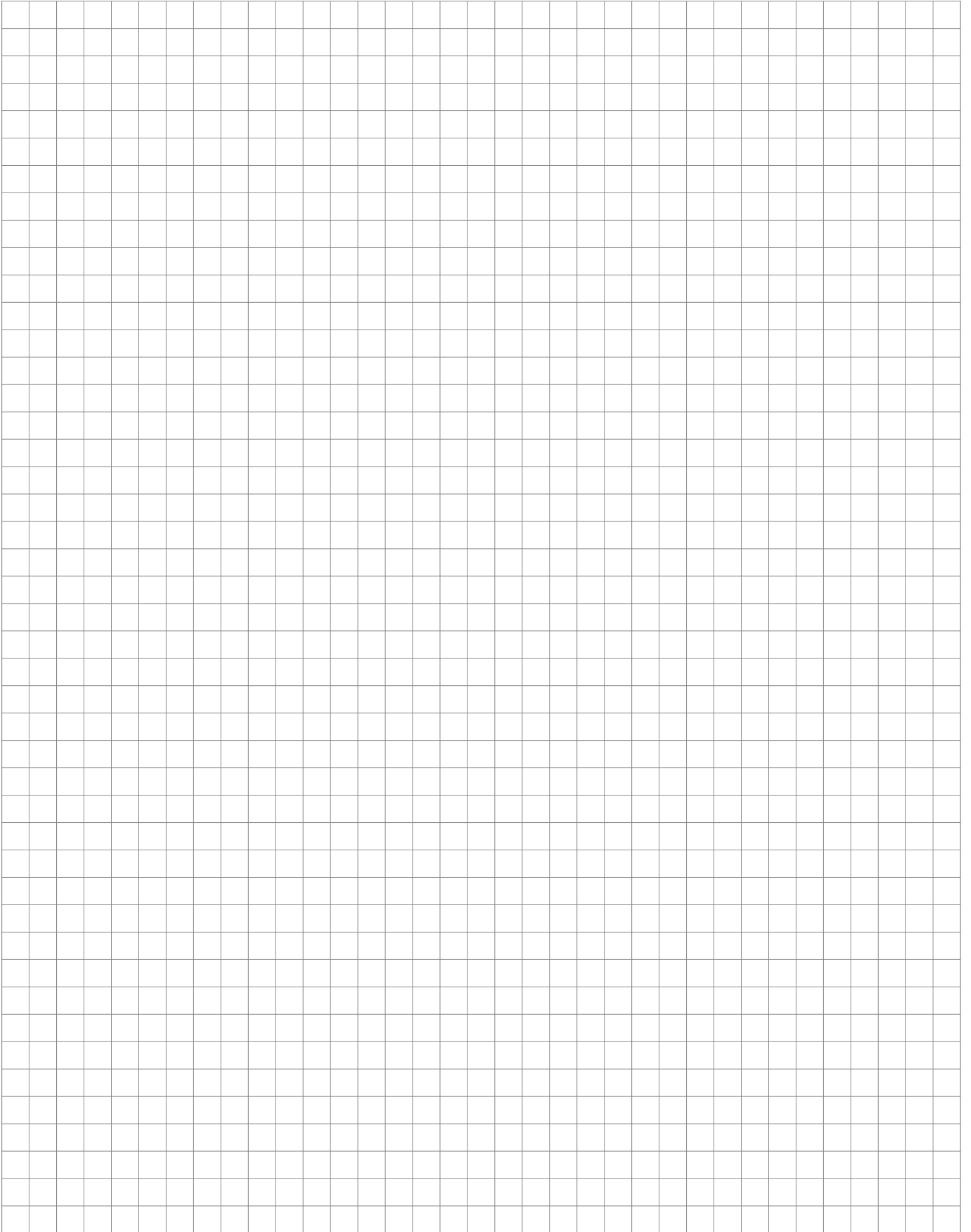
Many of our product systems are designed with innovative insight to reduce the installation time and therefore labor costs. LINK's greatest motivation is accomplish excellent work as a counterpart in providing timely logistics, planning, projecting and consulting at all stages of the project journey to the field assistance .

There are important decisions and sensitive values to be taken during an engineering project. In order to support our customers in these projects; design, materials, product selection, installation and use of them by advising them to differentiate the service concept.

Proje desteğimiz şunları içerir: Our project support includes:



- Projeye özel çözümler / *Specific solutions*
- Teknik tasarım hizmeti - 3D tasarımlar / *Technical design service - 3D designs*
- 3D Analizler - Hesaplamalar / *3D Analysis- Calculations*
- Danışma ve problem çözme / *Consultancy and problem solving*
- Yerinde destek /Süpervizörlük / *Onsite support - Supervision*
- Uygulama kataloğu / *Application catalog*



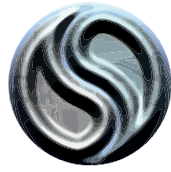


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AIR DUCT CONNECTION SYSTEMS





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<i>Giriş / Introduction</i>	3
<i>HVCA Sertifikasyonu / HVAC Certification</i>	4
TASARIM ESASLARI / DESIGN FUNDAMENTALS	5-23
Montaj Talimatı / Assembly Instructions	6-7
DW-144 Uygunluk / DW-144 Compliance	8
SMACNA Uygunluk / SMACNA Compliance	9
<i>Kanal Basınç Sınıfları / Duct Pressure Classes</i>	10-16
<i>Yapı Profilleri Tablosu / Duct Reinforcement Table</i>	17
<i>Kuvvetlendirici Rot Ölçüleri / Internal Rot Sizes</i>	18
<i>Askı Seçim Tablosu / Hanger Selection Table</i>	19
<i>Uygulama Örnekleri / Application Examples</i>	20-22
ÜRÜNLER / PRODUCTS	23-34
YARDIMCI MALZEMELER / ACCESSORIES	35-54

GLP.20 / GLP.30
Sayfa
Page: 24-25



GLK.204-20 / GLK.204-30
Sayfa
Page: 24-25



LP.20/LP.30/LP.40/LP.25/LP.35
Sayfa
Page: 26-30



LK.204-20 / LK.104-30 / LK.204-30
LK.204-40
Sayfa
Page: 26-28



LK.104-25 / LK.104-35 / LK.204-35
Sayfa
Page: 29-30



LKL
Sayfa
Page: 31



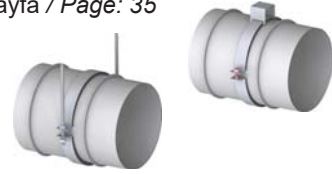
LNC
Sayfa / Page: 32



MST
Sayfa / Page: 33-34



LSK4- LSK5
Sayfa / Page: 35



LME / LVE / ZME / ZVE / NVR
Sayfa / Page: 36



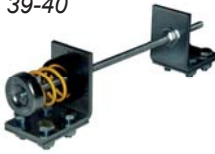
IZL / BANT / ES
Sayfa / Page: 37



HYETA / HYETB / HYETB2
Sayfa / Page: 38



KTR / KON
Sayfa / Page: 39-40



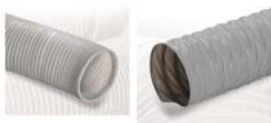
AL-FLEX / SN-FLEX / EKO-FLEX
Sayfa / Page: 41-42



PL-FLEX / POL-FLEX
Sayfa / Page: 43



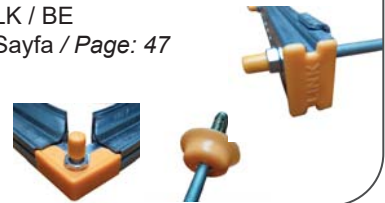
PVC-FLEX / GR-FLEX / PKL-FLEX
Sayfa / Page: 44-45



PROLINK G / PROLINK C
Sayfa / Page: 46



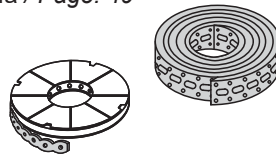
PLCPK / PLGMK / PLCSBR
LK / BE
Sayfa / Page: 47



VT / VTS / VTL
Sayfa
Page: 48



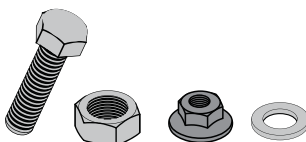
LBT / LABP
Sayfa / Page: 49



LC / LSC / LT / LTS
Sayfa / Page: 50



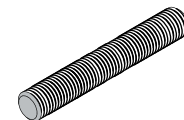
CC / CS / EPSS / EPCS / PR
Sayfa / Page: 51



BEL1 / BEL2 / BEL3 / CSY / PRG
CSY1 / PRY / PR
Sayfa / Page: 52



CR
Sayfa / Page: 53





1978 yılında kimyasal dübel, çelik dübel ve boru askı kelepçesi imalatı ile üretim hayatına başlayan LINK, yenilikçi yaklaşımı ve üstün kalite anlayışı ile Türkiye’de bir çok ilke imza atarak çok kısa sürede Boru Askı Sistemleri olarak bilinen pazarın kurucusu konumuna geldi.

Sektörün eksik ve ihtiyaçlarını doğru ve zamanında tespit eden LINK 1987 yılında yine Türkiye için bir ilk olan Havalandırma Kanalı Flanş Profillerini üretmeye başladı.

Bugün Türkiye’nin en büyük üreticisi konumunda LINK, aynı zamanda 20, 25, 30, 35 ve 40 mm’lik ölçülerde Hava Kanalı Flanş Profili üreten tek firma olma özelliğine sahiptir. Üretimini son teknoloji ürünü makinelerle TSEK standartlarına uygun olarak gerçekleştirmektedir.

Bugün Dünya üzerinde geçerli iki standart olan “SMACNA-HVAC Duct Construction Standard” ve “DW 144 Specification of Sheet Metal Ductwork” teki tüm basınç ve kuvvet sınıflarına cevap verebilecek şekilde geniş bir ürün yelpazesine sahiptir.

In 1978 LINK started to its manufacturing life with steel chemical anchor and pipe clamp. As the first manufacturer of pipe clamp, LINK combine its innovative and quality approach in Turkey and known as creator of pipe hanger and supports market.

LINK determined the needs of market at the right time and started to manufacture air duct flange profiles in 1987.

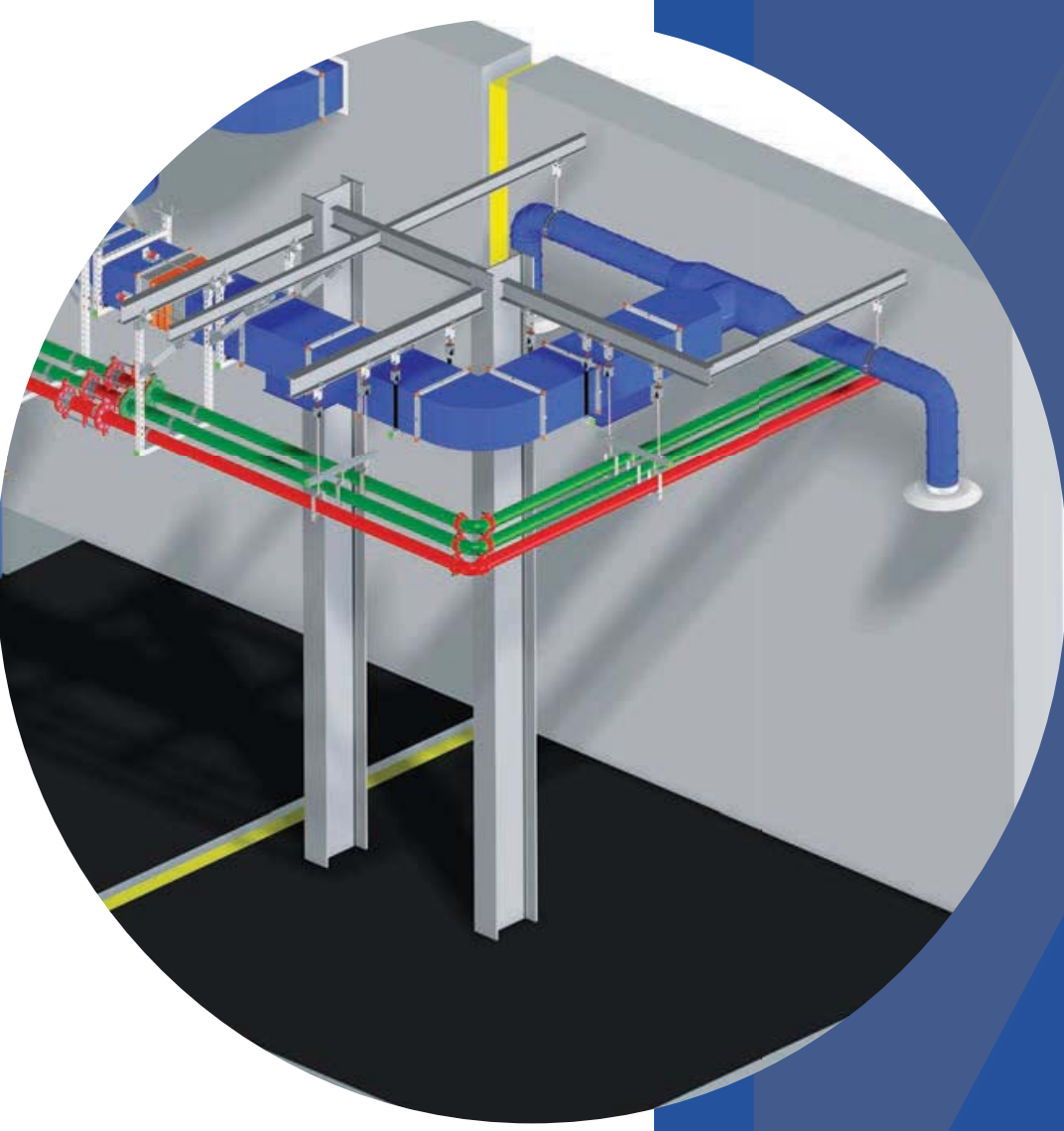
Today as the biggest manufacturer of Turkey, LINK is only manufacturer of 20, 25, 30, 35 and 40 mm sizes at the same time.

LINK has wide range of products that proves the manufacturing process are compatible with the all pressure and joint classes in “SMACNA-HVAC Duct Construction Standard” & “DW 144 Specification of Sheet Metal Ductwork”.



LINK, Hava Kanalı Bağlantı Sistemleri Sertifikaları / LINK, Air Duct Connection Systems Certificates





Tasarım Esasları

Design Fundamentals

Montaj Talimatı / Assembly Instructions

- 1 LINK Flaşı kanalın dış boyundan aşağıdaki tabloda belirtilen ölçülerde kısa kesin.
Always cut LINK Flange shorter according to table below than the outside duct dimension.

Flaş Ölçüsü Flange Size	Kısa Kesilecek Ölçü Cut Length
20	28-30 mm
25	26-28 mm
30	24-26 mm
35	32-34 mm
40	34-36 mm

- 2 LINK köşe parçasını şekilde gösterildiği gibi yerleştirin.
Insert LINK corner piece as shown.

- 3 LINK köşe parçalarını 4 köşeye yerleştirilerek şekildeki gibi çerçeve elde edin. Kanal kesitinin köşesinden tamamlanmış LINK çerçevesini yerleştirmeye başlayın.
Install LINK corner pieces to every 4 corner and complete the frame. Start completed LINK frame at corner of duct section.

- 4 Kanal kesitinin köşesi LINK köşe parçasına tam oturmalıdır. **ÖNEMLİ !!** Eğer kanal kesitinin köşe kenet yeri LINK köşe parçasının altında biterse, çerçeveye dışarıya doğru hafifçe vurarak LINK köşe parçasını geçerek tam oturmasını sağlayın. **ÖNEMLİ !!**
Corner of duct section must clear LINK corner piece.
THIS IS IMPORTANT !!
If the duct section corner of the seam lock ends up under the LINK. Corner, tap the frame outwards to allow the duct section to clear and slide past the LINK corner. THIS IS IMPORTANT !!

- 5 Kanal kesiti kesit boyunca LINK Flaş içerisindeki mastiğe nüfuz edecek şekilde tam olarak oturmalıdır. Kanal kesitinin köşeleri LINK köşelerinin üzerine çıkacaktır. Kanal kesitini yerleştirmek için pvc tokmak kullanın. Tüm flaş profili boyunca metal metale teması sağlayın. Kalıcı bağlantıları atmadan çerçeveyi yerinde tutmak için geçici olarak sabitleyin.
The duct section must be seated into the LINK Flange so that the leading edge of the duct section penetrates the integral mastic sealer. The corners use a pvc to locate the duct section. Establish metal to metal contact along the full length of the flange. Temporarily secure the frame in position while applying permanent fasteners.

LINK Flaşının kanal kesitine flaşın uç noktasından 20 mm mesafe içerisinde sabitlenmesi önerilir.
It is recommended that the LINK Flange is fastened to the duct section within 20mm of the end of the LINK Flange.

Kanal çerçevesi boyunca tek yöne doğru çalışın. DW 144 Tablo 5'te verilen kanal sacı ile flaş profili sabitleme yöntemlerinden seçilen metot ile birbiri ardına sabitleyin.
Flaşlar önce köşelerden başlanarak sabitlenmemelidir. Bu konumlama problemlerine yol açabilir.
Work in one direction around duct locating the frame. Fasten in sequence using chosen method of fixing from Table 5 of DW 144.
Do not fasten Flange at corner first, it can cause location problems.



Montaj Talimatı / Assembly Instructions

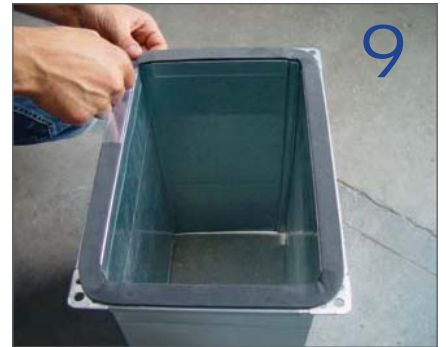
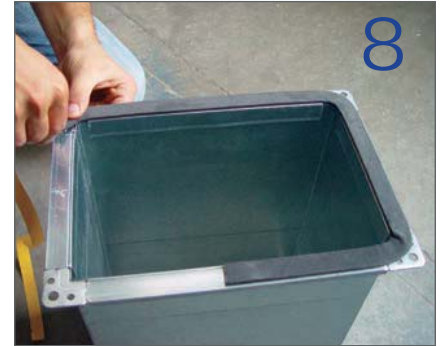
- 6** LINK Flanşları kanal kesitine kolay vidalar veya punta kaynağı ile sabitlenebilir. Daha kaliteli montaj için punta kaynaklı sabitleme önerilir. (Kanalda delik açılmadığı için)
 Tüm basınç sınıfları için merkezden 300 mm aralıklar ile sabitlenmesi önerilir.
*LINK Flange can be fastened to the duct section with self-drilling screws or spot welds. Spot welding is recommended for a superior quality installation (eliminates holes in duct).
 For all pressure classes fastenings are required at 300 mm max. centres.*
- 7** LINK mastiği köşelere şekilde gösterildiği gibi uygulayın. Tüm 8 köşeye de uygulandığından emin olun.
Apply LINK sealer to the corners as shown. Ensure all corners are treated.
- 8** LINK contaı iki köşe noktasının ortasından başlayarak flanş boyunca flanş üzerindeki oluğa denk gelecek şekilde yerleştirin.
Apply LINK gasket tape to the LINK flange starting about half way between two corners. Position along groove in LINK flange as shown.

Kullanılması önerilen conta ölçüleri;
 Gasket Tape size to be used;

Flanş Profili Flange Profile	Conta Ölçüsü Gasket Sizes
LP20	15 x 5 mm
LP25	15 x 5 mm
LP30	20 x 5 mm
LP35	25 x 5 mm
LP40	30 x 5 mm

- 9** Contaı kanal kesitinin köşesini kaplayacak şekilde kavisli olarak ve flanş çerçevesi boyunca tek bir parça halinde uygulayın. Başlangıç noktasında uç uca gelecek şekilde yerleştirin. Arada boşluk kalmadığından emin olun.
*Position gasket tape in an arc to cover the corner of the duct section.
 Apply LINK gasket tape in one piece around the LINK frame and join at the starting point with a firm butt joint, ensuring there is no gap.*
- 10** Kanal kesitleri karşılıklı bir araya getirilip, 4 köşedeki köşe parçalarından civata ve somun ile monte edilerek birleştirilir. Bir anahtar, kavrama veya pense yardımı ile köşe parçaları birbirine değene kadar sıkıştırın. Daha sonra civata ve somunu sıkıştırın. LINK flanş sistemi şekilde görüldüğü gibi vidalı tip klemensler veya sürgülü klemensler ile aşağıdaki tabloda belirtilen sıklıkta uygulanmalıdır.
The duct sections are joined by bringing together the four corners by installing set screws and nuts. Use wrenches, nut driver or adjust a vice grip so that when the gasket tape is compressed, the corner pieces touch. Then tighten the set screw and nut. LINK flange system should be fastened together at the following intervals by cleats or g-clamps as shown.

Basınç Sınıfı Pressure Class	Klemens Aralığı G-Clamp Interval
Düşük / Low	600 mm
Orta / Medium	450 mm
Yüksek / High	300 mm



HVAC - DW/144 DW/TM1 Uygunluk / HVAC - DW/144 DW/TM1 Compliance

Tüm LINK Flaş Profil Sistemleri, İngiliz HVAC-DW/144-DW/TM1 ve Amerikan SMACNA standartlarına uygundur.

HVAC Uygunluğu

Tüm LINK Flaş Profilleri HVAC- Heating and Ventilating Contractors Association tarafından yayınlanan "DW 144 Specification of Sheet Metal Duckwork" standardında atıfta bulunulan "DW/TM1 Acceptance Scheme for New Products - Rectangular Cross Joint Classification" standardına uygun olarak üretilmektedir. Buna göre LINK Flaş sistemlerinin DW/144 ve DW/TM1'e göre sınıf değerleri yandaki tabloda verilmiştir.

All LINK Flange Profiles are produced in accordance with British HVAC-C-DW/144-DW/TM1 and USA SMACNA standards.

HVAC Conformity

All LINK Flange Profiles are fully complied with the requirements contained within the HVAC- Heating and Ventilating Contractors Association Standards "DW 144 Specification of Sheet Metal Duckwork" and "DW/TM1 Acceptance Scheme for New Products - Rectangular Cross Joint Classification". Joint Rating and Pressure Classes of LINK Flange Profiles according to DW/144 and DW/TM1 are given in the following tables.

Basınç Sınıfı A / Pressure Class A-500 Pa

Kanal Uzun Kenarı Duct Longest Side mm	Kalınlık Thickness mm	Bağlatı Sınıfı Joint Rating	Flaş Flange	Kuvvetlendirici Stiffener (1)	Kuvvetlendirici Kullanmadan Max.Boydan Max. Length Without Stiffener mm (2)
400	0.6	J2	20/25	S2	3000
401-600	0.8	J2	20/25	S2	3000
601-800	0.8	J2	20/25	S2	1600
801-1000	0.8	J2	20/25	S2	1250
801-1000	0.8	J3	30/35	S3	1600
1001-1250	1.0	J2	20/25	S2	625
1001-1250	1.0	J3	30/35	S3	1250
1251-1600	1.0	J3	30/35	S3	800
1601-2000	1.0	J4	30/35	S4	800
2001-2500	1.0	J5	40	S5	800
2501-3000	1.2	J5	40	S5	800

over 3000 üstü Lütfen Firmamıza Danışın / Please Contact Our Firm

Basınç Sınıfı B / Pressure Class B-1000 Pa

400	0.6	J2	20/25	S2	3000
401-600	0.8	J2	20/25	S2	1600
601-800	0.8	J2	20/25	S2	1250
601-800	0.8	J3	30/35	S3	1600
801-1000	0.8	J3	30/35	S3	1250
1001-1250	1.0	J3	30/35	S3	800
1251-1600	1.0	J4	30/35	S4	800
1601-2000	1.0	J5	30/35	S5	800
2001-2500	1.0	J5	40	S5	800
2501-3000	1.2	J5	40*	S5	625

over 3000 üstü Lütfen Firmamıza Danışın / Please Contact Our Firm

Basınç Sınıfı C / Pressure Class C-2000 Pa

400	0.8	J2	20/25	S2	3000
401-600	0.8	J2	20/25	S2	1250
601-800	0.8	J2	20/25	S2	800
801-1000	0.8	J3	30/35	S3	800
1001-1250	1.0	J4	30/35	S4	800
1251-1600	1.0	J5	40	S5	800
1601-2000	1.2	J5	40	S5	625
2001-2500	1.2	J6	40*	S6	625

over 2500 üstü Lütfen Firmamıza Danışın / Please Contact Our Firm

(1) Kuvvetlendirme sınıfı için DW144 Sayfa 23, Fig.18-Fig.23
For stiffener rating refer to DW144 Page 23, Fig.18-Fig.23

(2) Bütün maksimum boylar kuvvetlendirilmiş kanallara göre belirtilmiştir.
All maximum lengths are based on stiffened sheet ducts.

*40 güçlendirme rotaları ile / 40 with tie bar

SMACNA Uygunluk / SMACNA Compliance

SMACNA şartları basınç sınıflarına göre Flanş Seçim Tablosu takip eden sayfalarda, bu tablonun kullanım notları da aşağıda verilmiştir.

Basınç Sınıflarına göre Flanş Seçim Tablosu (Tablo 1-7)

Tablo Kullanım Notları:

- 1- LP 25=LINK 25mm Flanş Profili Sistemi
LP 35= LINK 35 mm Flanş Profili Sistemi
- 2- CTR = Kanal birleştirme noktalarının ortasına atılan ara ek bağlantı rotlarını ifade eder.
- 3- A,B,C vb. SMACNA "Hava Kanalı İmalat Standardı" sertlik şartnamelerinde belirtilen flanş bağlantı noktaları ortasındaki güçlendirme sınıfını ifade eder.
- 4- (*) LINK Flanş Profili üzerindeki veya orta güçlendirici üzerindeki ek bağlantı rotlarını ifade eder. (JTR)
- 5- Ölçüler flanş bağlantıları veya güçlendiriciler arası maksimum mesafeleri belirtir.
- 6- CTR'ler sadece pozitif basınç uygulamaların da kullanılmalıdır.

Örnek:

1800 x 300 mm 500 Pa basınçta bir kanal için uygulayıcı birkaç seçeneğe sahiptir.

0,85 mm kalınlıkta bir kanal sacından 1,8 m uzunluğunda iki ucunda LP-35 flanş ve ortasında güçlendirme (CTR veya "H") ile imal edebilir.
veya

0,85 mm kalınlıkta bir kanal sacından 0,9 m uzunluğunda iki ucunda LP-35 flanş ile güçlendirmeye gerek olmadan imal edebilir.
veya

0,85 mm kalınlıkta bir kanal sacından 1,5 m uzunluğunda veya 0,70 mm kalınlıkta bir kanal sacından 1,2 m uzunluğunda iki ucunda LP-35 flanş sistemi ve ortasında güçlendirme (CRT veya "H") ile imal edebilir.

Son olarak

0,85 mm kalınlıkta bir kanal sacından 0,75 m uzunluğunda veya 0,70 mm kalınlıkta bir kanal sacından 0,6 m uzunluğunda iki ucunda LP-35 flanş sistemi ve ortasında güçlendirmeye gerek olmadan imal edebilir.

Flange size selection table for pressure classes according to SMACNA are given to.

Flange Size Selection Table for Pressure Classes (Tablo 1-7)

Tablo Guideline Notes

- 1- LP 25=LINK 25 mm Flange Connection Systems
LP 35= LINK 35 mm Flange Connection Systems
- 2- CTR = Intermediate tie rods in duct, halfway between duct joints.
- 3- A,B,C etc. refer to intermediate reinforcing between joints as per SMACNA "Duct Construction Standards" Rigidity Specifications.
- 4- (*) refer to tie rods at intermediate stiffeners or at the LINK joint. (JTR)
- 5- Dimensions indicate maximum distance between joints or reinforcements.
- 6- CTR's to be used for positive pressure applications only.

Example:

For a 1800 x 300 mm duct @ 500 Pa the contractor has several options.

He can built 1,8 mt sections from 0,85 mm with LP-35 @ each end and an intermediate reinforcement (CTR or "H")

He can also built 0,9 mt sections from 0,85 mm with LP-35 @ each end and no intermediate reinforcement.

He can build 1,5 mt sections from 0,85 mm or 1,2 mt sections from 0,70 mm with LP-35 @ each end and an intermediate reinforcement (CTR or "H")

Finally, he can built 0,75 mt sections from 0,85 mm or 0,6 mt sections from 0,70 mm with LP-35 @ each end and no intermediate reinforcement.

Tablo 1 Dikdörtgen Kanal / Table 1 Rectangular Duct Construction

125 Pa Statik Pozi./Neg. / 125 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
201-250	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
251-300	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
301-350	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
351-400	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
401-450	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
451-500	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
501-550	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
551-600	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
601-650	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
651-700	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
701-750	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
751-900	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
901-1000	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
1001-1200	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
1201-1300	0,85-LP25	0,55-LP25	0,55-LP25	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
1301-1500	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
1501-1800	1,00-LP25	0,85-LP25	0,70-LP25	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"
1801-2100	1,31-LP35	0,85-LP35	0,70-LP35	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"
2101-2400	1,31-LP35*	1,00-LP35*	0,85-LP35*	0,85-LP35	0,85-LP35	0,85-LP35
Over 2400 ve üstü	1,61-LP35*	1,31-LP35*	1,31-LP35*	1,31-LP35	1,31-LP35	1,31-LP35

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

/ = veya / or

Tablo 2 Dikdörtgen Kanal / Table 2 Rectangular Duct Construction

250 Pa Statik Poz./Neg. / 250 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
201-250	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
251-300	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
301-350	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
351-400	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
401-450	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
451-500	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
501-550	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
551-600	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
601-650	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
651-700	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
701-750	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
751-900	0,55-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
901-1000	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
1001-1200	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
1201-1300	1,00-LP35	0,85-LP25	0,70-LP25	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"
1301-1500	1,00-LP35	0,85-LP35	0,70-LP25	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"
1501-1800	1,31-LP35*	1,31-LP35*	0,85-LP35*	0,70-LP35 CTR / "G"	0,70-LP35 CTR / "G"	0,70-LP35 CTR / "G"
1801-2100	1,31-LP35*	1,31-LP35*	1,00-LP35*	0,85-LP35 CTR / "H"	0,85-LP35 CTR / "H"	0,85-LP35 CTR / "H"
2101-2400	1,61-LP35*	1,61-LP35*	1,31-LP35*	1,00-LP35* CTR / "H"	1,00-LP35* CTR / "H"	1,00-LP35* CTR / "H"
Over 2400 ve üstü		1,61-LP35*	1,31-LP35*	1,31-LP35*	1,31-LP35*	1,31-LP35*

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

/ = veya / or

Tablo 3 Dikdörtgen Kanal / Table 3 Rectangular Duct Construction

500 Pa Statik Poz./Neg. / 250 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
201-250	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
251-300	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
301-350	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
351-400	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
401-450	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
451-500	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
501-550	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
551-600	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
601-650	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
651-700	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
701-750	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "C"
751-900	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "D"
901-1000	1,00-LP25 0,85-LP35	0,85-LP25 0,70-LP35	0,70-LP25	0,55-LP25 CTR / "E"	0,70-LP25 CTR / "F"	0,55-LP25 CTR / "E"
1001-1200	1,00-LP25 0,85-LP35	0,85-LP25 0,70-LP35	0,85-LP25 0,70-LP35	0,70-LP25 CTR / "F"	0,70-LP35 CTR / "F"	0,70-LP25 CTR / "E"
1201-1300	1,31-LP35	1,00-LP35	0,70-LP25	0,70-LP35 CTR / "F"	0,70-LP35 CTR / "G"	0,70-LP35 CTR / "F"
1301-1500	1,31-LP35	1,00-LP35	1,00-LP35	0,70-LP35 CTR / "G"	0,85-LP35 CTR / "G"	0,70-LP35 CTR / "F"
1501-1800	1,61-LP35	1,31-LP35	1,00-LP35	0,85-LP35 CTR / "H"	0,85-LP35 CTR / "H"	0,70-LP35 CTR / "H"
1801-2100		1,61-LP35*	1,00-LP35	0,85-LP35* CTR / "I"	1,00-LP35* CTR / "I"	0,85-LP35* CTR / "H"
2101-2400			1,31-LP35*	1,00-LP35* CTR / "I"	1,31-LP35* CTR / "I"	0,85-LP35* CTR / "I"
Over 2400 ve üstü				1,31-LP35* CTR / "I"	1,31-LP35* CTR / "I"	1,31-LP35* CTR / "I"

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

/ = veya / or

Tablo 4 Dikdörtgen Kanal / Table 4 Rectangular Duct Construction

750 Pa Statik Pozi./Neg. /750 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
201-250	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
251-300	0,70-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
301-350	0,70-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
351-400	0,70-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
401-450	0,70-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
451-500	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
501-550	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
551-600	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
601-650	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
651-700	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
701-750	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
751-900	1,31-LP25 1,00-LP35	1,00-LP25 0,85-LP35	0,85-LP25 0,70-LP35	0,70-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
901-1000	1,31-LP25 1,00-LP35	1,00-LP25 0,85-LP35	0,85-LP35	0,70-LP25 CTR / "E"	0,75-LP25 CTR / "E"	0,55-LP25 CTR / "E**"
1001-1200	1,31-LP35*	1,00-LP35*	1,00-LP35*	0,85-LP35 CTR / "F"	0,70-LP25 CTR / "F"	0,55-LP25 CTR / "E"
1201-1300	1,61-LP35*	1,31-LP35*	1,31-LP35*	0,85-LP35 CTR / "G"	0,70-LP35 CTR / "G"	0,70-LP25 CTR / "F"
1301-1500	1,61-LP35*	1,31-LP35*	1,31-LP35*	1,00-LP35 CTR / "G"	0,85-LP35 CTR / "G"	0,70-LP25 CTR / "F"
1501-1800		1,61-LP35*	1,31-LP35*	1,00-LP35* CTR / "G"	0,85-LP35* CTR / "G"	0,70-LP35* CTR / "G"
1801-2100				1,31-LP35* CTR / "I**"	1,00-LP35* CTR / "I**"	0,85-LP35* CTR / "I**"
2101-2400					1,00-LP35* CTR / "I**"	1,00-LP35* CTR / "H**"
Over 2400 ve üstü						

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.
 Please, see page 9 for more information about table notes and details.

/ = veya / or

Tablo 5 Dikdörtgen Kanal / Table 5 Rectangular Duct Construction

1000 Pa Statik Pozi./Neg. / 1000 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
201-250	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
251-300	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
301-350	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
351-400	0,85-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25	0,55-LP25
401-450	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25
451-500	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
501-550	1,00-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
551-600	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
601-650	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
651-700	1,00-LP35	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
701-750	1,31-LP35	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
751-900	1,31-LP35	1,00-LP25	0,85-LP35	0,70-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
901-1000	1,61-LP35	1,31-LP35	1,00-LP35	0,70-LP35 CTR / "E"	0,70-LP35 CTR / "E"	0,55-LP25 CTR / "E"
1001-1200	1,61-LP35*	1,31-LP35*	1,31-LP35*	0,85-LP35* CTR / "F"	0,70-LP35* CTR / "F"*	0,70-LP35* CTR / "F"*
1201-1300	1,61-LP35*	1,31-LP35*	1,31-LP35*	0,85-LP35* CTR / "G"	0,70-LP35* CTR / "G"*	0,70-LP35* CTR / "G"*
1301-1500		1,61-LP35*	1,31-LP35*	0,85-LP35* CTR / "H"	0,70-LP35* CTR / "H"*	0,70-LP35* CTR / "H"*
1501-1800				1,31-LP35* CTR / "I"	1,00-LP35* CTR / "H"*	0,85-LP35* CTR / "I"
1801-2100				1,31-LP35* CTR / "G"	1,00-LP35* CTR / "G"	1,00-LP35* CTR / "G"
2101-2400				1,31-LP35* CTR / "H"	1,00-LP35* CTR / "H"	1,00-LP35* CTR / "H"
Over 2400 ve üstü				1,31-LP35* CTR / "H"	1,00-LP35* CTR / "H"	1,00-LP35* CTR / "H"

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

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Tablo 6 Dikdörtgen Kanal / Table 6 Rectangular Duct Construction

1500 Pa Statik Poz./Neg. / 1500 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	0,70-LP25	0,55-LP25	0,55-LP25	0,55-LP25 CTR / "B"	0,55-LP25 CTR / "B"	0,55-LP25 CTR / "B"
201-250	0,70-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
251-300	0,85-LP25	0,70-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
301-350	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
351-400	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
401-450	1,00-LP25	0,85-LP25	0,70-LP25	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"	0,55-LP25 CTR / "C"
451-500	1,00-LP25	0,85-LP25	0,70-LP25	0,70-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
501-550	1,00-LP25	0,85-LP25	0,70-LP25	0,70-LP25 CTR / "D"	0,55-LP25 CTR / "D"	0,55-LP25 CTR / "D"
551-600	1,00-LP35	0,85-LP35	0,85-LP25	0,70-LP25 CTR / "E"	0,55-LP25 CTR / "E"	0,55-LP25 CTR / "E"
601-650	1,31-LP35	1,00-LP35	0,85-LP25	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"
651-700	1,31-LP35	1,00-LP35	0,85-LP35	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"	0,70-LP25 CTR / "E"
701-750	1,31-LP35	1,31-LP35	0,85-LP35	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"	0,70-LP25 CTR / "F"
751-900	1,61-LP35	1,31-LP35	1,00-LP35	0,85-LP35 CTR / "F"	0,85-LP35 CTR / "F"	0,70-LP25 CTR / "F"
901-1000	1,61-LP35*	1,61-LP35*	1,31-LP35*	1,00-LP35* CTR / "F"*	0,85-LP35* CTR / "F"	0,85-LP35* CTR / "F"*
1001-1200		1,61-LP35*	1,31-LP35*	1,00-LP35* CTR / "G"*	0,85-LP35* CTR / "G"*	0,85-LP35* CTR / "G"*
1201-1300			1,61-LP35*	1,31-LP35* CTR / "I"*	1,00-LP35* CTR / "I"*	0,85-LP35* CTR / "I"*
1301-1500			1,61-LP35*	1,31-LP35* CTR / "I"*	1,00-LP35* CTR / "I"*	0,85-LP35* CTR / "I"*
1501-1800					1,31-LP35* CTR / "J"*	1,00-LP35* CTR / "J"*
1801-2100						
2101-2400						
Over 2400 ve üstü						

Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

/ = veya / or

Tablo 7 Dikdörtgen Kanal / Table 7 Rectangular Duct Construction

2500 Pa Statik Pozi./Neg. / 1500 Pa Static Pos./Neg						
Kanal Ölçüsü Duct Size mm	Güçlendirme Aralığı / Reinforcement Spacing					
	1,80 m	1,50 m	1,20 m	0,90 m	0,75 m	0,60 m
	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm	Sac Kalınlığı Flanş Ölçüsü Duct Sheet Thick. Flange Size mm
200	1,00-LP25	1,00-LP25	1,00-LP25	0,55-LP25 "C"	0,55-LP25 "C"	0,55-LP25 "C"
201-250	1,00-LP25	1,00-LP25	1,00-LP25	0,55-LP25 "C"	0,55-LP25 "C"	0,55-LP25 "C"
251-300	1,00-LP25	1,00-LP25	1,00-LP25	0,55-LP25 "C"	0,55-LP25 "C"	0,55-LP25 "C"
301-350	1,00-LP25	1,00-LP25	1,00-LP25	0,70-LP25 "C"	0,55-LP25 "C"	0,55-LP25 "C"
351-400	1,31-LP25	1,00-LP25	1,00-LP25	0,70-LP25 "D"	0,70-LP25 "D"	0,55-LP25 "D"
401-450	1,31-LP25	1,31-LP25	1,00-LP25	0,70-LP25 "D"	0,70-LP25 "D"	0,55-LP25 "D"
451-500	1,31-LP35	1,31-LP25	1,31-LP25	0,85-LP25 "E"	0,70-LP25 "E"	0,70-LP25 "E"
501-550	1,31-LP35	1,31-LP25	1,31-LP35	0,85-LP25 "E"	0,70-LP25 "E"	0,70-LP25 "E"
551-600	1,31-LP35	1,31-LP35	1,31-LP35	0,85-LP35 "F"	0,70-LP25 "F"	0,70-LP25 "F"
601-650	1,61-LP35	1,31-LP35	1,31-LP35	0,85-LP35 "F"	0,70-LP25 "F"	0,70-LP25 "F"
651-700	1,61-LP35	1,31-LP35	1,31-LP35	0,85-LP35 "F"	0,70-LP35 "F"	0,70-LP35 "F"
701-750	1,61-LP35	1,31-LP35	1,31-LP35	0,85-LP35 "G"	0,70-LP35 "G"	0,70-LP35 "G"
751-900		1,61-LP35*	1,31-LP35*	1,00-LP35* "H"*	0,85-LP35* "H"*	0,70-LP35* "H"*
901-1000		1,61-LP35*	1,31-LP35*	1,31-LP35* "I"*	1,00-LP35* "I"*	0,85-LP35* "I"*
1001-1200			1,61-LP35*	1,31-LP35* "I"*	1,31-LP35* "I"*	0,85-LP35* "I"*
1201-1300				1,31-LP35* "I"*	1,31-LP35* "I"*	0,85-LP35* "I"*
1301-1500						1,00-LP35* "J"*
1501-1800						
1801-2100						
2101-2400						
Over 2400 ve üstü						

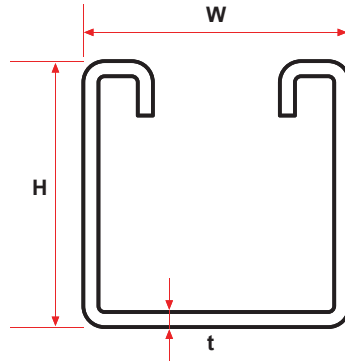
Tablo notları ve detayları için lütfen 9. sayfaya bakınız.

Please, see page 9 for more information about table notes and details.

/ = veya / or

Kanal Güçlendirmesi Olarak Kullanılabilecek Yapı Profilleri Tablosu: Framing Channel (Strut) May Be Used As Duct Reinforcement As Follows:

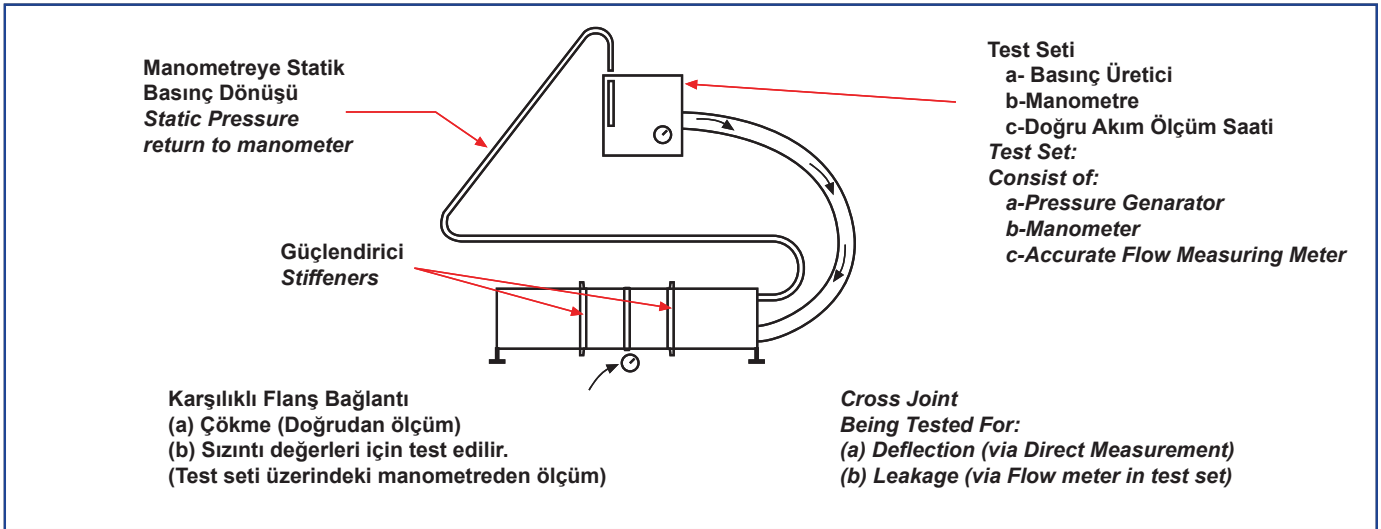
Yapı Profili Channel (Strut)			Güçlendirme Sınıfı SMACNA "Hava Kanalı İmalat Standardı" Tablo 2-29M'ye göre Reinforcement Class Per SMACNA "Duct Construction Standards" Table 2-29M
H mm	W mm	t mm	
22	45	2,0	A, B, C, D
22	45	2,5	D, E
45	45	2,5	F, G
60	45	2,5	H, I, J
60	70	3,0	K, L



Not: Yanda listelenen yapı profilleri ile aynı fiziksel özelliklere sahip, ama daha kalın sacdan imal edilmiş olan profiller daha ince sacdan yapılmış modellerin atıfta bulunduğu güçlendirme sınıfında kullanılabilirler.

Note: Framing Channels having the same physical dimensions as those listed left side, but fabricated from thicker steel maybe used at the reinforcement class assigned to the lighter version.

Test Prosedürü / Test Procedure



Testler yeni ürünlerin hem mukavemet, hem de hava sızdırmazlıklarını aşağıdaki kriterlere göre olduğunu kanıtlamak için tasarlanmıştır:

1. Kanal basınç sınıfı maksimum basınç değerinde olduğu zaman veya merkez güçlendirme rot ile kanal köşesi arası mesafenin 1/250'si kadar mesafede güçlendirme rotları kullanıldığı yerde uygun statik basınç altındaki bağlantının çökme değeri kanalın uzun kenarının 1/250'sini geçmemelidir.

2. Kanaldaki hava kaçak miktarı, DW 144 Tablo 17'de de belirtilen uygun basınç sınıfındaki maksimum izin verilen kaçak miktarının % 40'ını geçmemelidir.

Not:

2. maddede şart koşulmuş olan %40 ifadesi, karşılıklı flanş bağlantı testinin, testin yürütüldüğü laboratuvar şartlarını karşılaması amacı ile kullanılmıştır ve sistemin diğer parçalarının kaçakları normal çevresel çalışma şartlarında çok daha fazla olabilir.

Tests are designed to prove both the strength and air tightness of new products within following criteria:

1. The joint under test at the appropriate static air pressure shall not deflect by more than 1/250 of its longest side when subjected to maximum pressure rating for the duct classification or where tie rods are used 1/250 of the span between central tie rod and the corner of the duct.

2. The air loss from the joint under test shall not exceed 40% of maximum permitted loss for the appropriate pressure class, as indicated in Table 17 of DW/144.

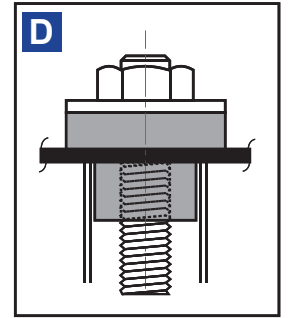
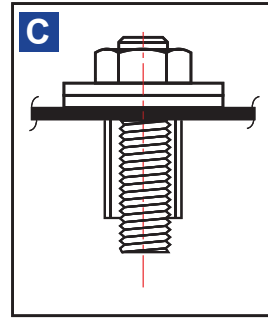
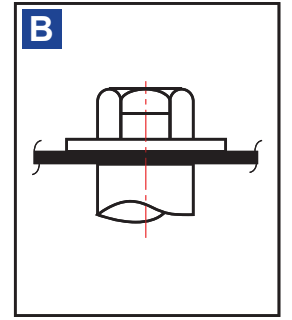
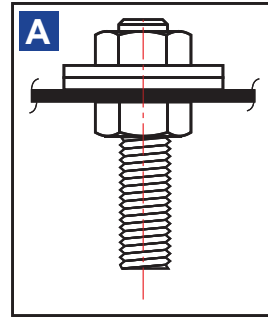
Note:

Note the 40% figure stipulated in 2. above is used for the purpose of the cross joint test only to compensate for the laboratory conditions under which the tests are conducted and the losses from the other parts of the system which may well arise in a normal working environment.

Kuvvetlendirici Rot Ölçüleri (+) Basınç Internal Rod Size (+) Pressure

W mm	RS m	Statik Basınç Sınıfı, Pa Static Pressure Class, Pa						
		125	250	500	750	1.000	1.500	2.500
1200	1,80						M.8	M.10
	1,50							M.8
	1,20							M.8
	0,90							
	0,75							
	0,60							
1350	1,80					M.8	M.8	M.10
	1,50					M.8	M.8	M.10
	1,20							M.8
	0,90							M.8
	0,75							
	0,60							
1500	1,80						M.8	M.10
	1,50						M.8	M.10
	1,20							M.8
	0,90						M.8	M.8
	0,75							M.8
	0,60							
1800	1,80					M.8	M.10	M.12
	1,50						M.8	M.10
	1,20						M.8	M.10
	0,90							M.8
	0,75					M.8		M.8
	0,60					M.8		
2100	1,80			M.8			M.10	M.12
	1,50						M.10	M.12
	1,20						M.8	M.10
	0,90						M.8	M.10
	0,75							M.8
	0,60							M.8
2400	1,80			M.8	M.10	M.10	M.10	M.12
	1,50				M.8	M.10	M.10	M.12
	1,20				M.8	M.8	M.8	M.12
	0,90						M.8	M.10
	0,75							M.8
	0,60							M.8
2700	1,80			M.8	M.10	M.12	M.12	M.16
	1,50			M.8	M.8	M.10	M.10	M.12
	1,20				M.8	M.10	M.10	M.12
	0,90						M.8	M.10
	0,75						M.8	M.10
	0,60							M.8
3000	1,80			M.8	M.10	M.12	M.12	M.16
	1,50			M.8	M.8	M.10	M.10	M.12
	1,20				M.8	M.10	M.10	M.10
	0,90						M.8	M.12
	0,75						M.8	M.10
	0,60							M.8

Kuvvetlendirici Rot Uygulama Tipleri Tie Rod Application Types

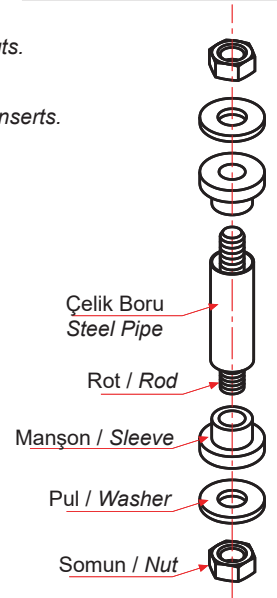
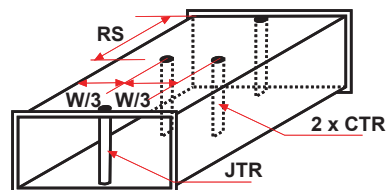
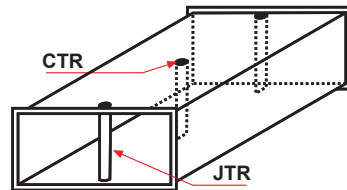
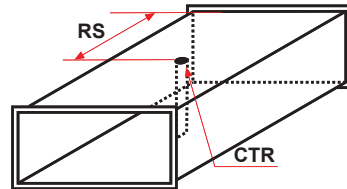


A : İç ve dış destek somunları ile rot.
Rod with internal and external nuts.

B : Ucu dişli boru ile civata.
Tubing or conduit with threaded inserts.

C : Destek borusu ile rot.
Tubing encased rod.

D : Sızdırmazlık manşonu ve destek borusu ile rot.
Tubing encased rod with sleeve.



RS: Güçlendirme Aralığı / Reinforcement Spacing

CTR: Orta Kuvvetlendirici Rot / Center Tie Rod

JTR: Ek Kuvvetlendirici Rot / Joint Tie Rod

CTR ve JTR kullanımının basınç sınıfı ve kanal ölçülerine göre dağılımı SMACNA Kanal Tablolarında belirtilmiştir.

(Tablo 1-7, sayfa 10-16)

Placement of CTR and JTR are defined at SMACNA Rectangular Duct Tables. (Table 1-7, Page 10-16)

Askı Profili Seçim tablosu / Kanal Ölçüleri - Genişlik (a) x Yükseklik (b) (mm) Hanger Profile Selection Table / Duct Dimensions - Width (a) x Height (b) (mm)

Maksimum Askı Aralığı: 2,5 mt / Max. Hanger Distance: 2,5 mt

Hava Kanalı Sac Kalınlığı Duct Sheet Metal Thickness s=0,6 mm	Hava Kanalı Sac Kalınlığı Duct Sheet Metal Thickness s=0,8 mm	Hava Kanalı Sac Kalınlığı Duct Sheet Metal Thickness s=1,0 mm	Hava Kanalı Sac Kalınlığı Duct Sheet Metal Thickness s=1,2 mm	a/b
200	300	400	500	200
300	400	500	600	300
400	500	600	700	400
500	600	700	800	500
600	700	800	900	600
700	800	900	1000	700
800	900	1000	1100	800
900	1000	1100	1200	900
1000	1100	1200	1300	1000
1100	1200	1300	1400	1100
1200	1300	1400	1500	1200
1300	1400	1500	1600	1300
1400	1500	1600	1700	1400
1500	1600	1700	1800	1500
1600	1700	1800	1900	1600
1700	1800	1900	2000	1700
1800	1900	2000	2100	1800
1900	2000	2100	2200	1900
2000	2100	2200	2300	2000
2100	2200	2300	2400	2100
2200	2300	2400	2500	2200
2300	2400	2500	2600	2300
2400	2500	2600	2700	2400
2500	2600	2700	2800	2500
2600	2700	2800	2900	2600
2700	2800	2900	3000	2700
2800	2900	3000		2800
2900	3000			2900
3000				3000

35x21x0,9 mm PROLINK C PROFİL

35x35x1,2 mm PROLINK C PROFİL

45x45x2,5 mm PROLINK G PROFİL

45x60x2,5 mm PROLINK G PROFİL

60x70x3,0 mm PROLINK G PROFİL

80x80x3,0 mm PROMEGA PROFİL

35x21x0,9 mm PROLINK C

35x35x1,2 mm PROLINK C

45x45x2,5 mm PROLINK G

45x60x2,5 mm PROLINK G

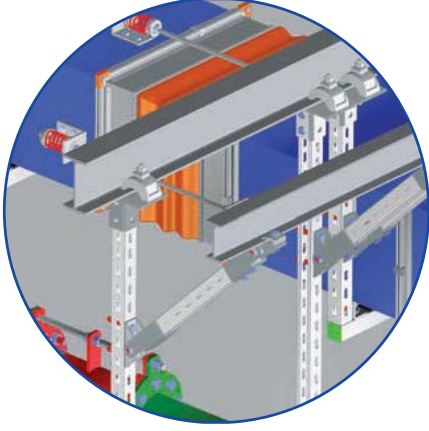
60x70x3,0 mm PROLINK G

80x80x3,0 mm PROMEGA 80

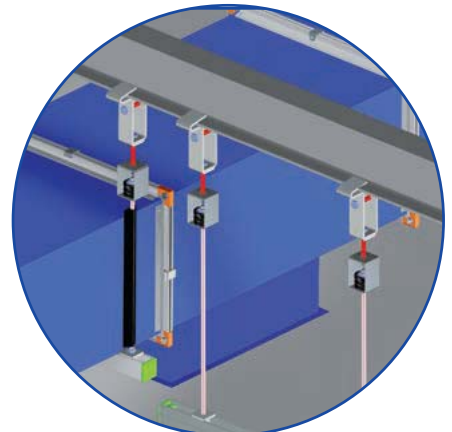
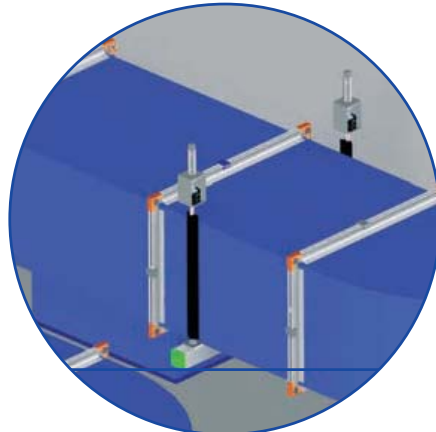
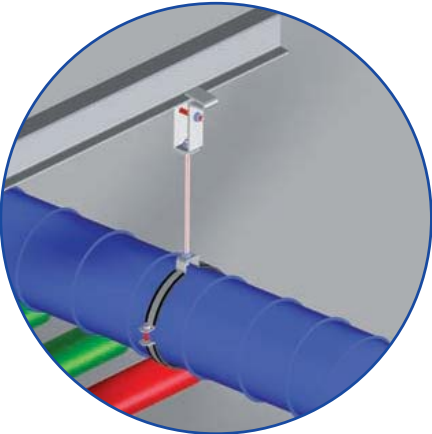
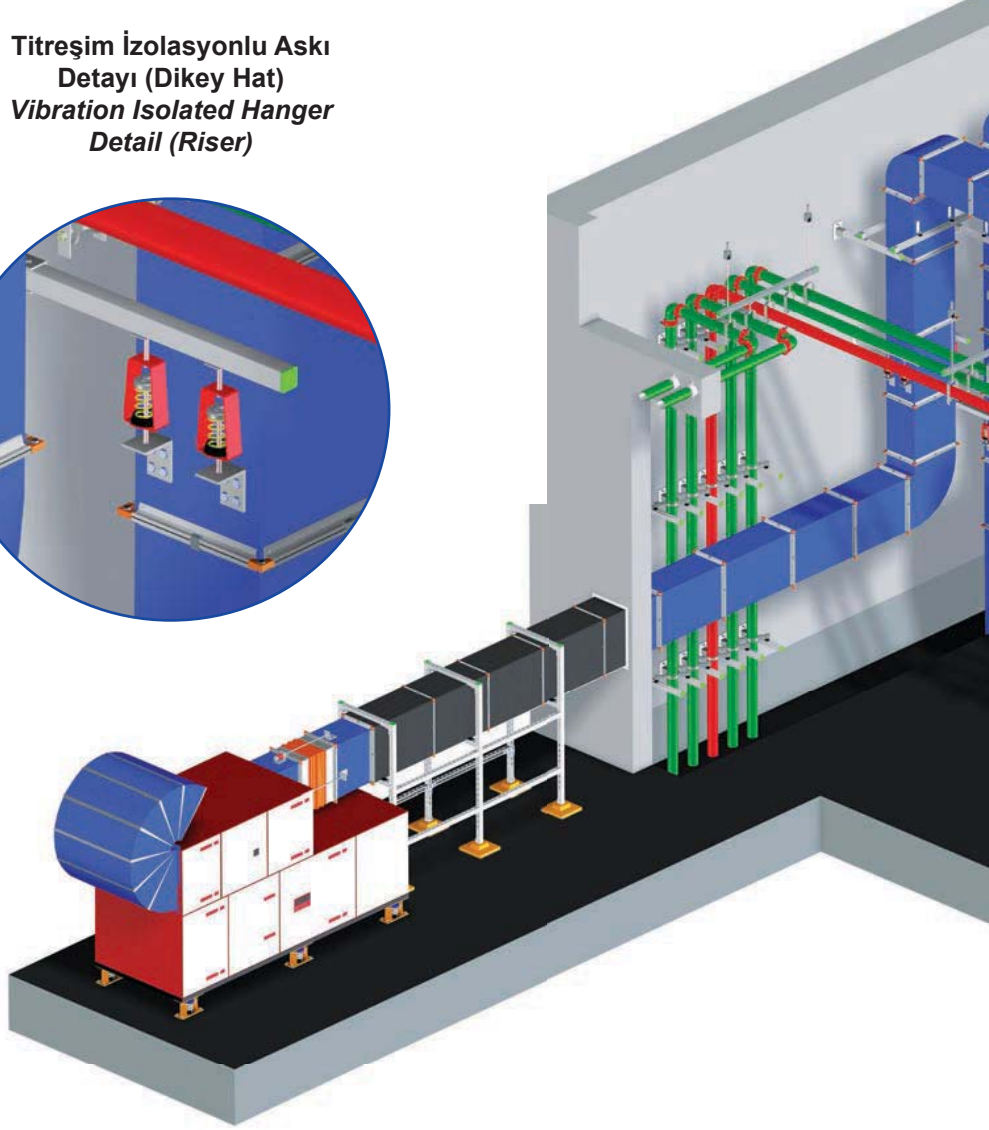
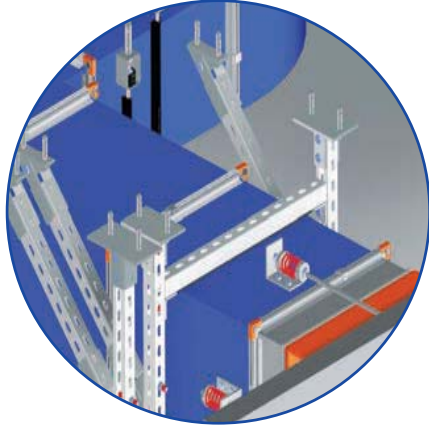
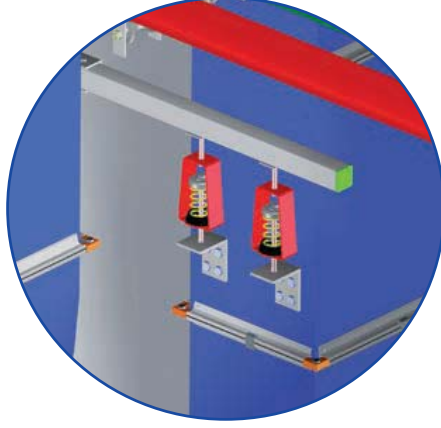
Notlar:
 Profil seçimleri ve hesapları Eurocode standardı ile uyumludur.
 L/200 sehlim limiti kullanılmıştır.
 Askı aralığı Smacna Standardı ile uyumludur.
 25mm kalınlığında 80 kg/m³ izolasyon varsayımı yapılmıştır.

Notlar:
 Profile selections and calculations are compatible with Eurocode Standard.
 L/200 deflection limit has been taken into consideration.
 Hanger distance is compatible with Smacna Standard.
 Insulation material thickness is 25mm and its density is 80 kg/m³ has been assumed.

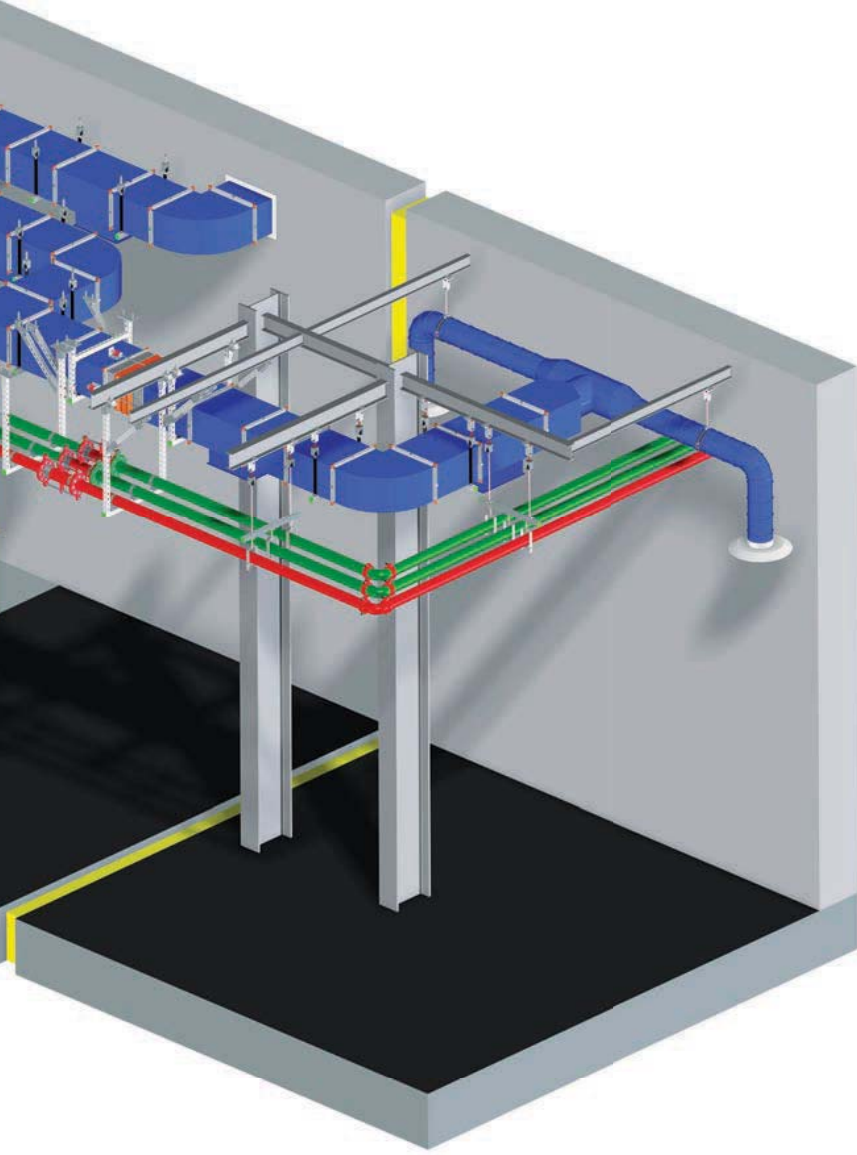




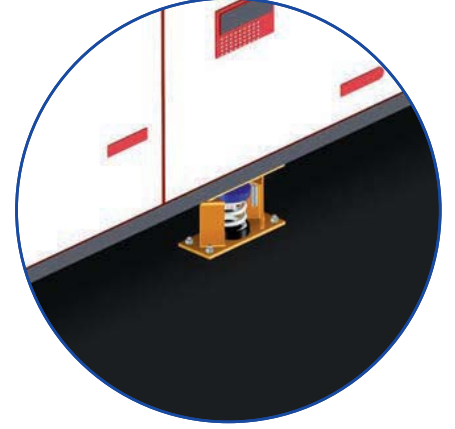
**Titreşim İzolasyonlu Askı
Detayı (Dikey Hat)**
*Vibration Isolated Hanger
Detail (Riser)*



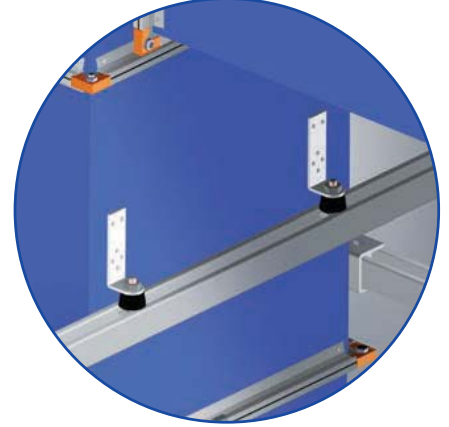
Dikey Hat Prizmatik Kanal Askı Detayı (Çelik Konstrüksiyon)
Vertical Hanger System Duct Hanger Detail



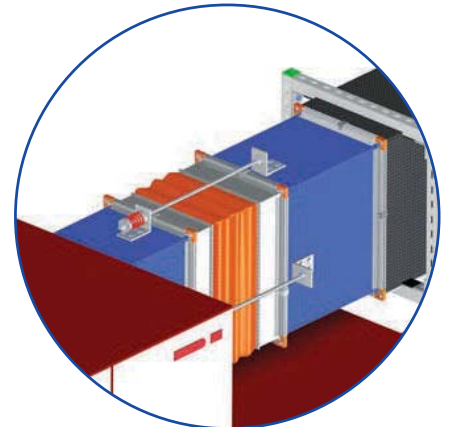
Cihazlarda Titreşim İzolatörü Detayı
Equipment Vibration Isolator Detail



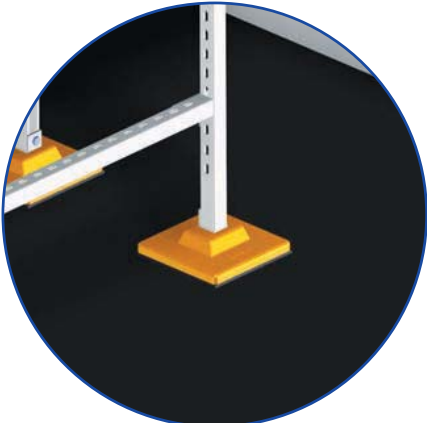
Dikey Hat Kanal Askı Detayı
Riser Duct Support Detail



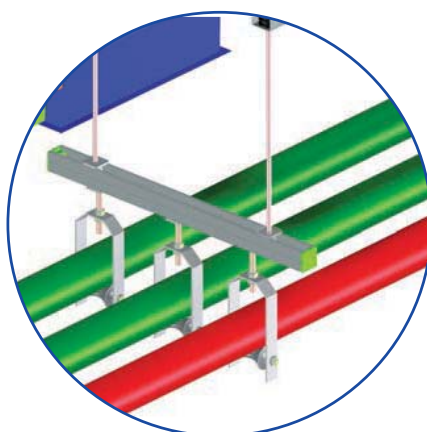
Konnektör ve Basınç Sınırlayıcı Detayı
Connector and Trust Restraint Detail



Polimer Beton Taşıyıcı Detayı
Polymer Concrete Base Detail



Makaralı Boru Askı Detayı (CRH)
Pipe Roller Hanger Detail

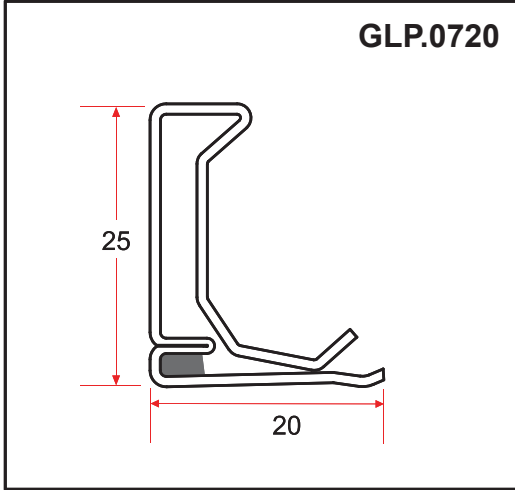




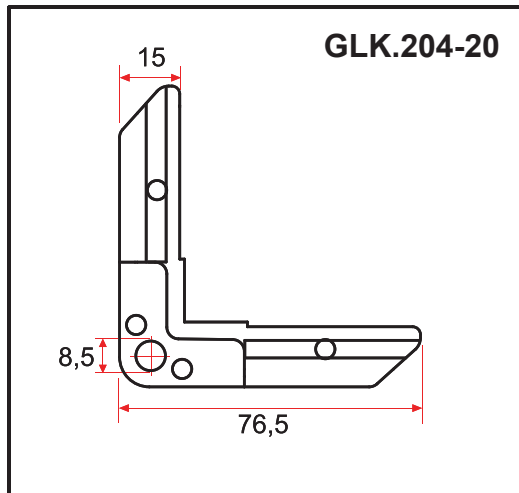
Ürünler
Products

GLP 20 **Gold Serisi** Flanş Profil Sistemleri
GLP 20 **Gold Series** Flange Profile Systems

GLP 20



GLK.204-20



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
GLP.0720	20 mm Mastikli Flanş Profili 20 mm Flange Profile With Sealant	4000	GLV	0,54	100	54,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
GLK.204-20	20 mm Köşe Parçası 20 mm Corner Pieces	2	GLV	0,030	500	15,0

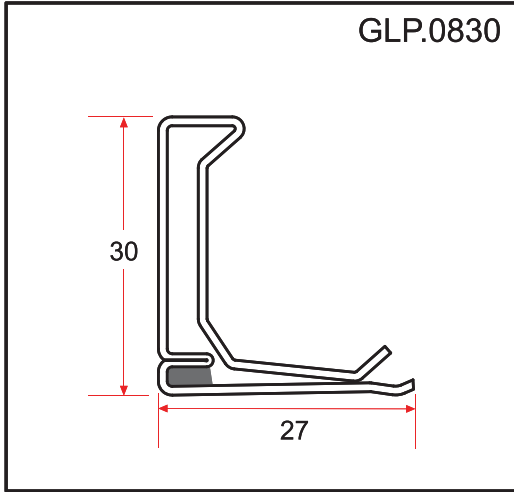
Ürün Grup Kodu / Product Group Code : **0200.1**
Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : **GLV**

“DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification” standartlarına uygundur.

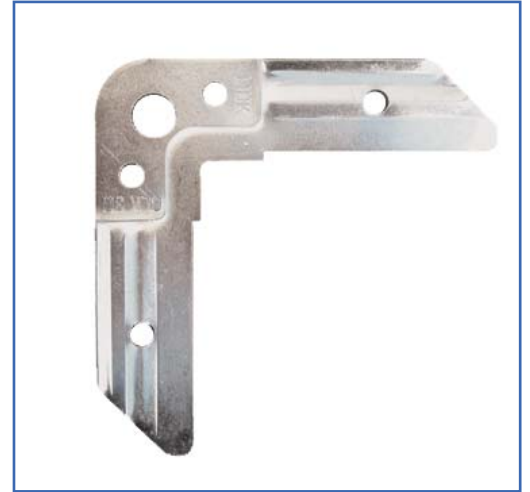
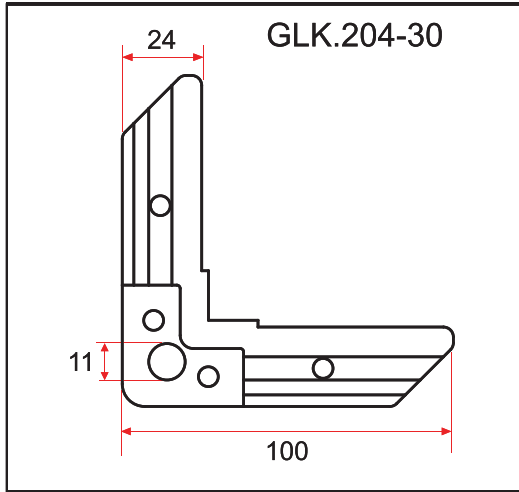
Compliance with “DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification” standard.

GLP 30 Gold Serisi Flanş Profil Sistemleri
GLP 30 Gold Series Flange Profile Systems

GLP 30



GLK.204-30



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
GLP.0830	20 mm Mastikli Flanş Profili 20 mm Flange Profile With Sealant	4000	GLV	0,64	100	64,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
GLK.204-30	30 mm Köşe Parçası 30 mm Corner Pieces	2,5	GLV	0,078	200	15,5

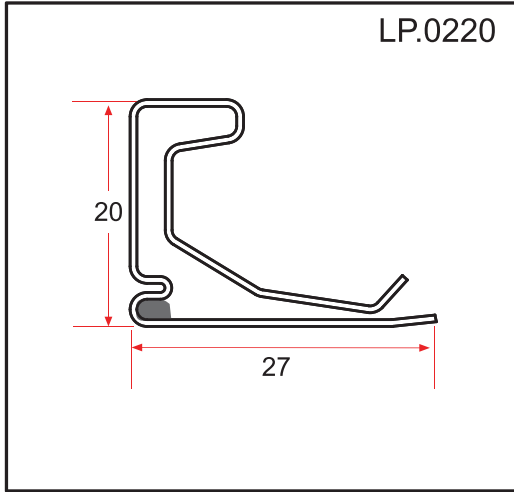
Ürün Grup Kodu / Product Group Code : **0200.1**
 Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : **GLV**

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

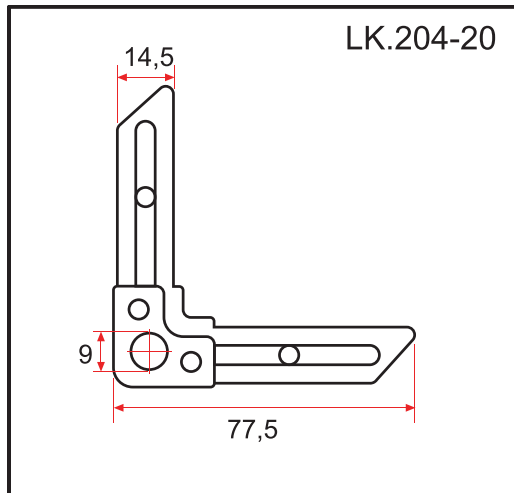
Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

LP 20 Flanş Profil Sistemleri / LP 20 Flange Profile Systems

LP 20



LK.204-20



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LP.0220	20 mm Mastikli Flanş Profili 20 mm Flange Profile With Sealant	4000	GLV	0,45	100	45,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
LK.204-20	20 mm Köşe Parçası 20 mm Corner Pieces	2	GLV	0,043	100	45,0

Ürün Grup Kodu / Product Group Code : 0200.1

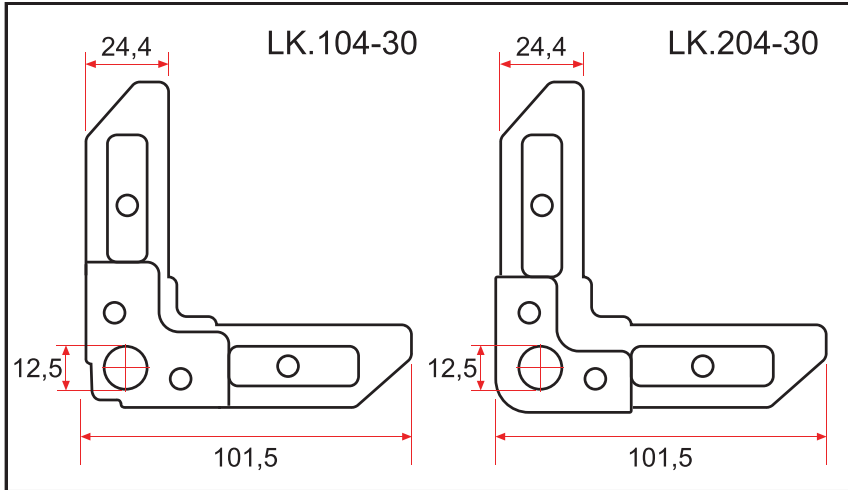
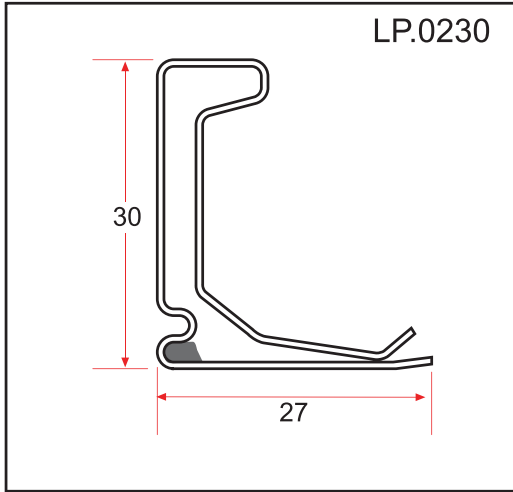
Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : GLV

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

LP 30 Flanş Profil Sistemleri / LP 30 Flange Profile Systems

LP 30



LK.104-30



LK.204-30

Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LP.0230	30 mm Mastikli Flanş Profili 30 mm Flange Profile With Sealant	4000	GLV	0,64	100	64,0
Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
LK.104-30	30 mm Köşe Parçası (FRS) 30 mm Corner Pieces (FRS)	2,5	GLV	0,081	200	16,2
LK.204-30	30 mm Köşe Parçası 30 mm Corner Pieces	3,0	GLV	0,117	200	23,4

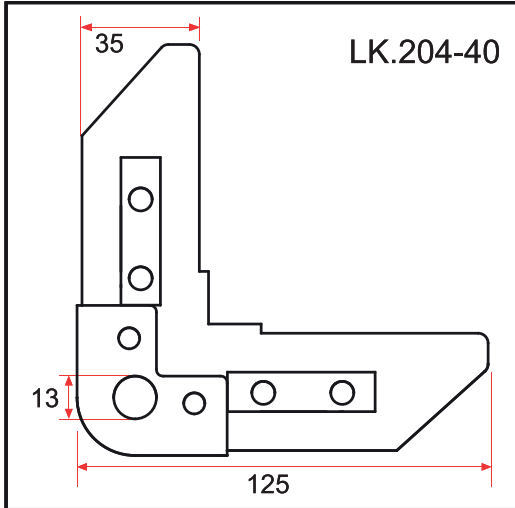
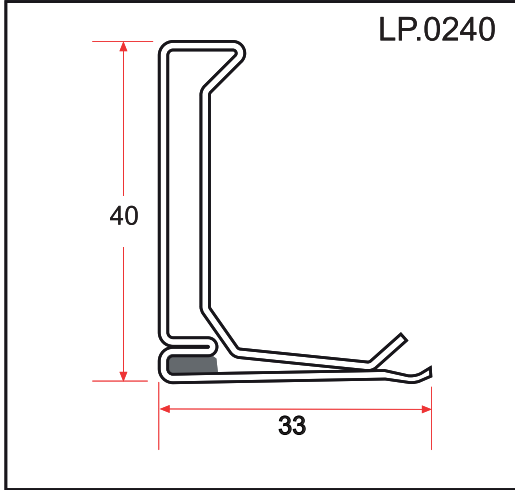
Ürün Grup Kodu / Product Group Code : 0200.1
Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : GLV

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

LP 40 Flanş Profil Sistemleri / LP 40 Flange Profile Systems

LP 40



LK.204-40



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LP.0240	40 mm Mastikli Flanş Profili 40 mm Flange Profile With Sealant	4000	GLV	1,16	100	116,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
LK.204-40	40 mm Köşe Parçası 40 mm Corner Pieces	3		0,24	100	24,0

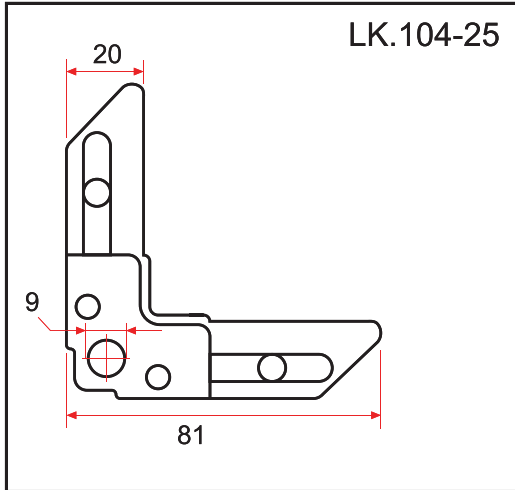
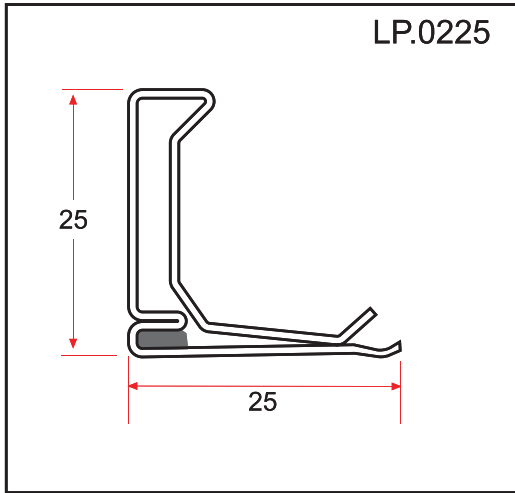
Ürün Grup Kodu / Product Group Code : 0200.1
Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : GLV

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

LP 25 Flanş Profil Sistemleri / LP 25 Flange Profile Systems

LP 25



LK.104-25



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LP.0225	25 mm Mastikli Flanş Profili 25 mm Flange Profile With Sealant	4000	GLV	0,49	100	49,0
LP.0225.A4	25 mm Paslanmaz Çelik Flanş Profili 25 mm Stainless Steel Flange Profile	4000	A4	0,49	100	49,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
LK.104-25	25 mm Köşe Parçası (FRS) 25 mm Corner Pieces (FRS)	2,5	GLV	0,051	400	24,0
LK.104-25.A4	25 mm Paslanmaz Köşe Parçası 25 mm Stainless Steel Corner Pieces	2,5	A4	0,052	400	20,8

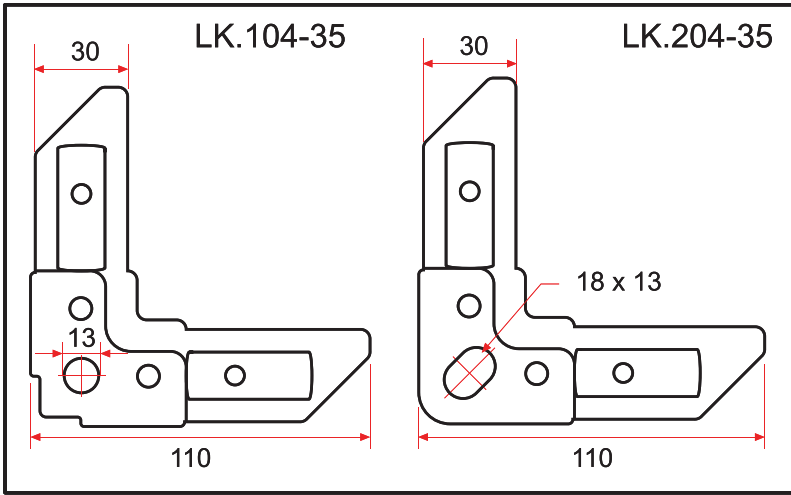
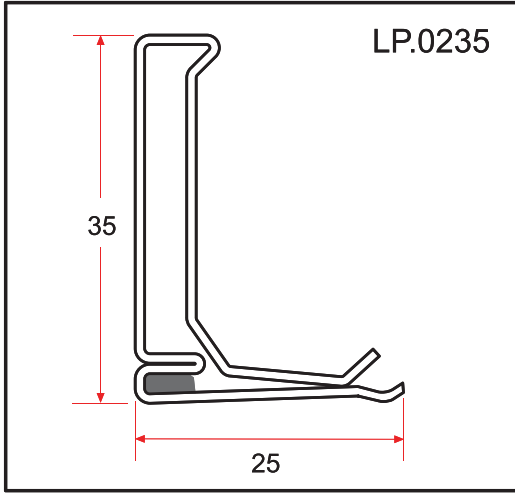
Ürün Grup Kodu / Product Group Code : **0200.1**
Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : **GLV**

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

LP 35 Flanş Profil Sistemleri / LP 35 Flange Profile Systems

LP 35



LK.104-35



LK.204-35

Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LP.0235	35 mm Mastikli Flanş Profili 35 mm Flange Profile With Sealant	4000	GLV	0,69	100	69,0
LP.0235.A4	35 mm Paslanmaz Çelik Flanş Profili 35 mm Stainless Steel Flange Profile	4000	A4	0,71	100	71,0

Ürün Kodu Product Code	Ürün Tanımı Product Description	Kalınlık Thickness mm	Malzeme Material	Birim Ağırlık Unit Weight kg/ad./pieces	Ambalaj Adedi Qty/Box	Ambalaj Ağırlığı Bundle Weight kg
LK.104-35	35 mm Köşe Parçası (FRS) 35 mm Corner Pieces (FRS)	3,0	GLV	0,131	150	19,65
LK.204-35	35 mm Köşe Parçası 35 mm Corner Pieces	3,0	GLV	0,140	150	21,00
LK.104-35.A4	35 mm Paslanmaz Köşe Parçası 35 mm Stainless Steel Corner Pieces	3,0	A4	0,133	150	19,95

Ürün Grup Kodu / Product Group Code : 0200.1

Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : GLV

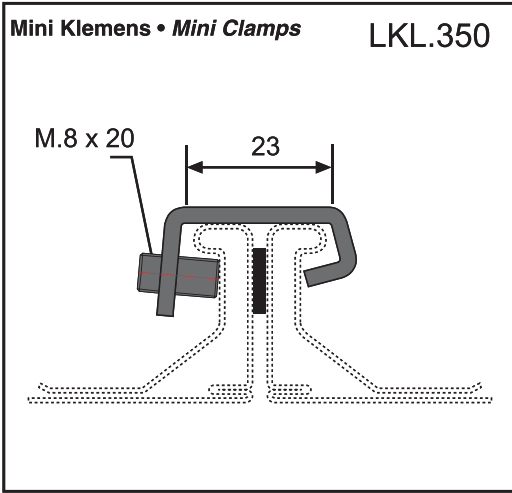
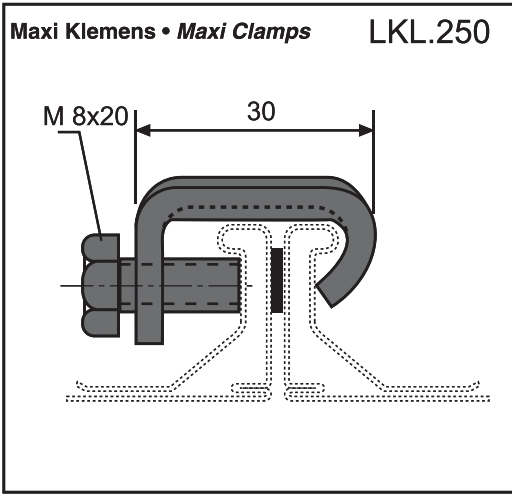
Paslanmaz Çelik / Stainless Steel : A4

"DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standartlarına uygundur.

Compliance with "DW/TM1 Acceptance Scheme for New Products Rectangular Cross Joint Classification" standard.

G Klemens / G Clamps

LKL



Ürün Kodu Product Code	Ürün Tanımı Product Description	Standart Boy Standard Length mm	Malzeme Material	Birim Ağırlık Unit Weight kg/m	Ambalaj Adedi Qty/Bundle m	Ambalaj Ağırlığı Bundle Weight kg
LKL.250	Flaş Klemensi Maksi Flange Clip Maxi	2,5	GLV	0,037	500	18,4
LKL.350	Flaş Klemensi Mini Flange Clip Mini	2,5	GLV	0,018	750	21,7
LKL.250.A4	Paslanmaz Flaş Klemensi Maksi Stainless Flange Clip Maxi	2,5	A4	0,037	500	18,4
LKL.350.A4	Paslanmaz Flaş Klemensi Mini Stainless Flange Clip Mini	2,5	A4	0,018	750	21,7
LKL.1000	Sürgülü Flaş Klemensi Sliding Flange Clip	1,20	GLV	0,045	500	22,5
LKL.1000.A4	Paslanmaz Çelik Sürgülü Flaş Klemensi Stainless Steel Sliding Flange Clip	1,20	A4	0,049	500	24,5

Ürün Grup Kodu / Product Group Code : 0200.1

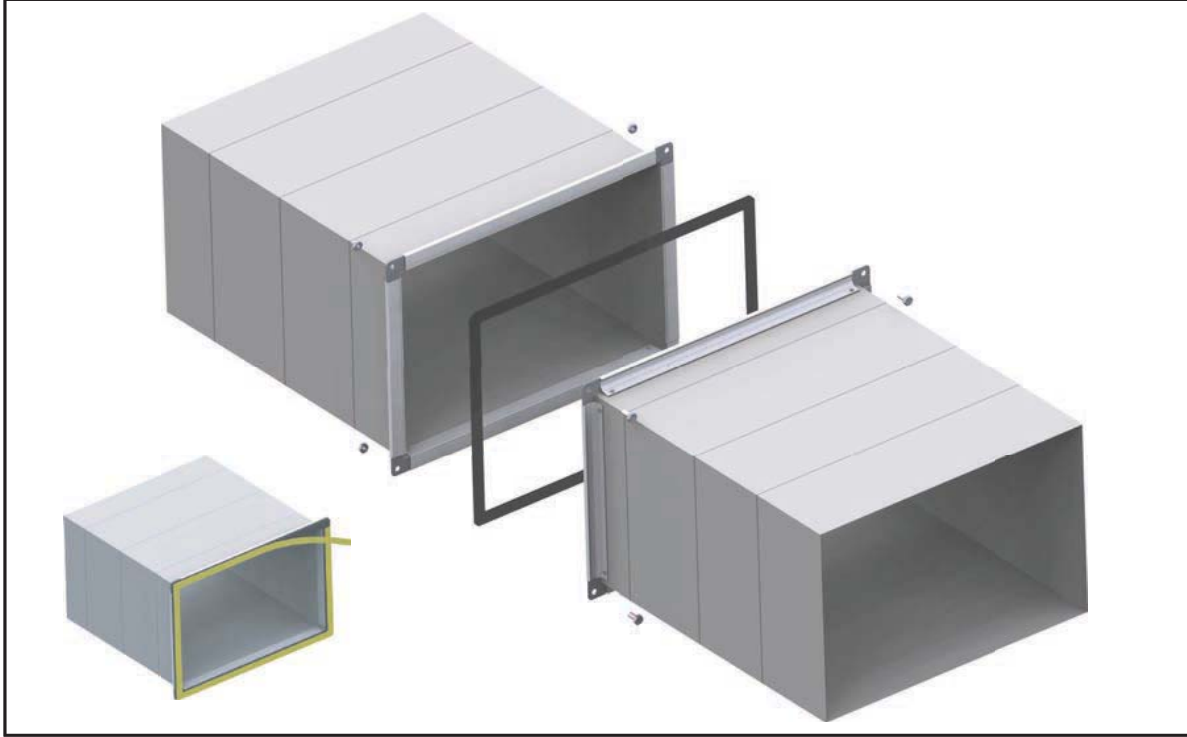
 Sıcak Bant Galvaniz (Sendzimir) / Hot Band Galvanized (Sendzimir) : GLV
 Paslanmaz Çelik / Stainless Steel : A4

 "DW/TM1 Acceptance Scheme for New Products
 Rectangular Cross Joint Classification" standartlarına
 uygundur.

 Compliance with "DW/TM1 Acceptance Scheme for
 New Products Rectangular Cross Joint Classification"
 standard.

Conta / Gasket

LNC

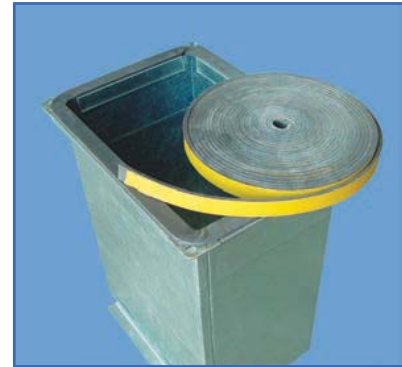


Kendinden yapışkanlı kanal izolasyon contaları flanş profilleri arasında yüksek elastikiyeti ile DW/144 veya SMACNA standartlarına uyumlu montaj şartları sağlar.

Flanş ölçülerine göre değişik ebatlarda kullanılması gerekebilir. Daha detaylı bilgi için montaj talimatı sayfasına bakınız.

Self adhesive gasket tapes provides a high-compression gasket between mating flanges in ductwork DW/144 or SMACNA standards.

Sizes of gaskets should be selected according to the flange system sizes, for more detailed information please see the assembly instruction page.



Malzeme Material	Ürün Kodu Product Code	Isıl Çalışma Aralığı Temperature Resistance	3 x 15 mm Kod Code	5 x 15 mm Kod Code	5 x 20 mm Kod Code	5 x 25 mm Kod Code	5 x 30 mm Kod Code	5 x 40 mm Kod Code	5 x 50 mm Kod Code
EVA	LNC	-20°C / 50°C	0315.EV	0515.EV	0520.EV	0525.EV	0530.EV	0540.EV	0550.EV
EPDM	LNC	-50°C / 140°C	0315.EP	0515.EP	0520.EP	0525.EP	0530.EP	0540.EP	0550.EP
Neopren Neoprene	LNC	-45°C / 110°C	0315.NR	0515.NR	0520.NR	0525.NR	0530.NR	0540.NR	0550.NR
Kauçuk Köpük Rubber Foam	LNC	-200°C / 115°C	0315.RF	0515.RF	0520.RF	0525.RF	0530.RF	0540.RF	0550.RF
Butil Butyl	LNC	-40°C / 90°C	0315.BT	0515.BT	0520.BT	0525.BT	0530.BT	0540.BT	0550.BT

LINK Akriolik Mastik / LINK Acrylic Sealant

Tanım

LINK Akriolik Mastik Standart; tek komponentli, akrilik bazlı dolgu macunudur.

Özellikler

Tek komponentlidir. Tabanca ile kolay uygulanabilir. Kuruduktan sonra su geçirmez bir tabaka oluşturur. Hava şartlarına dayanıklıdır. Uzun süre esnekliğini korur. Boyanabilir, yüzeyinde yağ içermez. Dolgu yapılan yüzeyi etkilemez. Alüminyum, ahşap ve PVC çerçeve ve pencerelerde; su, rüzgar ve neme dayanıklıdır. Mantar ve küfe karşı dayanıklıdır.

Teknik Özellikler

Kimyasal Yapı: Akrilik bazlı
Özgül Ağırlık: 1,64±0,03 g/cm³ (DIN 53479)
Yüzey Kuruması: 15-60 dak. (25°C ve 50% bağıl nem)
Kürleşme Hızı: 2 mm/24 saat (25°C ve 50% bağıl nem)
Ph:7,5-9
Hacim Kaybı: %29
Ağırlık Kaybı: %18
Kopma Anındaki Çekme Dayanımı: ≥ 0,1 Mpa (ASTM D 412 C)
Kopma Anındaki Uzama: ≥ 100 % (ASTM D 412 C)
%100 Uzama Modülü: > 0,2 Mpa (ASTM D 412 C)

Renkler:

Beyaz, siyah, koyu kahve, gri, açık kahve, chedar, alüminyum şampanya, koyu gri, krem, armut, kayın, koyu ceviz, huş, gri (RAL 7040), RAL 1013, açık meşe.

Uygulama ve Kullanım Alanları

Uygulama Sıcaklığı: +5 °C ile +35 °C
Isı Dayanımı (kürleşmiş): -10 °C ile +80 °C
Uygulama yüzeyi temiz, kuru, tozsuz ve yağsız olmalıdır.

- Prefabrik yapı elemanlarının arasındaki genleşme fugalarında,
- Ahşap, PVC, demir ve alüminyum doğramaların montajında,
- Her türlü doğramanın sıva, denizlik ve diğer yapı malzemelerinin birleşimlerinde.
- Eternit ve alüminyum çatı ve cephe plakalarının ve her türlü yapı malzemelerinin birleşimlerinde.
- Ayrıca çatlaklara karşı boya öncesi kullanılır.

Dikkat Edilecek Hususlar:

Çocukların erişemeyeceği bir yerde saklayınız.
Gözle temasından sakınınız.
Dondan koruyunuz.

Ambalaj Şekli ve Depolama

310 ml'lik vidasız plastik kartuşlarda ve 20 adetlik karton kolilerde ambalajlanmıştır. Serin ve kuru yerlerde depolayınız. +5 °C ile +25 °C arasında açılmamış ambalajında depolandığında raf ömrü 12 aydır.

Fuga Genişliği Joint Width mm	Fuga Derinliği Joint Depth mm	1 m'deki Sarfiyat Wastage/1 m ml	Sarfiyat Wastage gr/m
5	5	25	41,25
10	10	100	165,00
20	12	240	369,00



Product Description

LINK Acrylic Sealant Standard is one part acrylic sealant.

Properties

One-component. Very easy application.
From permanently water repellent layer after curing.
Resistant to weather conditions.
Remains flexible for a long time after curing.
Paintable, does not effect the application surface.
Water, wind and moisture resistant on aluminum, wood and PVC frames and windows.

Technical Information

Chemical Base: Acrylic
Specific Gravity: 1,64±0,03 g/cm³ (DIN 53479)
Tack Free Time: 15-60 min. (25°C and 50% R.H)
Cure Rate: 2 mm/24 hour (25°C and 50% R.H)
Ph:7,5-9
Volume Shrinkage: %29 - Weight loss %18
Tensile Strength at Break: ≥ 0,1 Mpa (ASTM D 412 C)
Elongation at Break: ≥ 100 % (ASTM D 412 C)
Modulus 100 % elongation: > 0,2 Mpa (ASTM D 412 C)

Colours:

White, black, dark brown, grey, light brown, chedar, aluminum champagne, dark grey, cream, pear beech, dark walnut, birch, grey (RAL 7040), RAL 1013

Application Details and Usage Areas

Application Temperature: +5 °C ile +35 °C
Temperature Resistance: -10 °C ile +80 °C
The application surface must be solid, clean, dry and free of dust, oil and grease.

- Expanding fuga between prefabricate construction element.
- Assembly wood, PVC, iron and aliminium joinery.
- Joints in stone, wood, concreete, plaster and brick works etc.
- Sealing of window and door frame to masonry.

Caution

Keep out of reach of children.
Avoid contact with skin and eyes.
Keep out of freezing.

Kod Code	Renk Colour
MST.1101	Beyaz / White
MST.2101	Gri / Gray

Packaging and Shelf Life

Packaged into 310 ml cartridges with screw-on nozzle. 20 cartridges per carton. Store the product in a cool and dry place. The shelf life is 12 months at temperatures between +5 °C ile +25 °C.

LINK Yüksek Isıya Dayanıklı Silikon / LINK High Temperature Silicone

MST

Tanım

LINK, RTV Isı Silikonu, tek komponentli, nemle kürleşen asetoksi bazlı silikondur.

Özellikler

%100 silikon polimerdir.
Yüksek mukavemetlidir.
Solvent içermez.
ISO 11600 - F&G - 25 LM'yi karşılar.
Ozona, UV ışınlarına dayanıklıdır.
250 °C'ye kadar dayanıklıdır.
Kısa süreli maruziyette 300 °C'ye kadar dayanır.

Teknik Özellikler

Kimyasal Yapı: Silikon
Özgül Ağırlık: 1,02 ± 0.02 g/ml (ASTM D 1045-86)
Debi: 400 g/dak (ISO 6927)
Yüzey Kuruması: 5-15 dak. (25 °C ve 50% bağıl nem)
Kürleşme Hızı, 24 saat: 2 mm (25 °C ve 50% bağıl nem)
%100 Uzama Modülü: 0,4 Mpa (ASTM D412)
Kopma Anındaki Çekme Dayanımı: 2 Mpa (ASTM D412)
Kopma Anında Uzama (%): 500 (ASTM D412)
Sertlik: 22 Shore A (ASTM D 53505)

Renkler: Kırmızı

Uygulama ve Kullanım Alanları

Uygulama Sıcaklığı: -10°C ile +40°C
Isı Dayanımı: -60°C ile +300°C
Uygulama yüzeyi temiz, kuru, tozsuz ve yağsız olmalıdır.
Uygulama yüzeyi gözeneksiz yapıda olmalıdır.

- Alüminyum
- Cam
- Sırlı seramik
- Metal

Dikkat Edilecek Hususlar

Çocukların erişemeyeceği bir yerde saklayınız.
Cilt temasına engel olunuz. İyi havalandırılmış alanlarda kullanınız. Gözle temasından sakınınız.

Ambalaj Şekli ve Depolama

310 ml'lik vidasız plastik kartuşlarda ve 25 adetlik karton kolilerde ambalajlanmıştır. Serin ve kuru yerlerde depolayınız. +5°C ile +25°C arasında açılmamış ambalajında depolandığında raf ömrü 12 aydır.

Product Description

LINK, RTV silicone sealant is one part, moisture curing silicone sealant.

Properties

100 % silicone polymer
High strength
Solvent free
Conforms to ISO 11600 - F&G - 25 LM
Resistant to ozone, ultra-violet radiation and temperature extremes
Can be used for extended periods at temperatures up to 250 °C and
For shorter periods as high as 300 °C.

Technical Information

Chemical Base: Silicone
Specific Gravity: 1,02 ± 0.02 g/ml (ASTM D 1045-86)
Extrusion: 400 g/min. (ISO 6927)
Tack Free Time: 5-15 min. (25 °C and 50% Relative Humidity)
Cure Rate (1 day): 2 mm (25 °C and 50% Relative Humidity)
Modulus at 100%: 0,4 Mpa (ASTM D412)
Tensile Strength: 2 Mpa (ASTM D412)
Elongation at Break: 500 (ASTM D412)
Shore Hardness: 22 Shore A (ASTM D 53505)
Colours: Red

Application Details and Usage Areas

Application Temperature: -10°C to +40°C
Temperature Resistance: -60°C to +300°C
The application surface must be solid, clean dry and free of dust, oil and grease.
Excellent adhesion to a variety of non-porous substrates such as;

- Aluminum
- Glass
- Glazed ceramic tiles
- Metal

Caution

Keep out of reach of children.
Avoid contact with skin.
Use only in well ventilated areas.
Don't use in aquariums.

Packaging and Shelf Life

Packaged into 310 ml cartridges with screw-on nozzle.
25 cartridges per carton. Store the product in a cool and dry place. The shelf life is 12 months at temperatures between +5°C and +25°C

Kod Code	Renk Colour
MST.5001	Kırmızı / Red

Yuvarlak Hava Kanalı Kelepçeleri / Round Air Channel Clamps

LSK5

Malzeme / Material :

Çelik / Steel

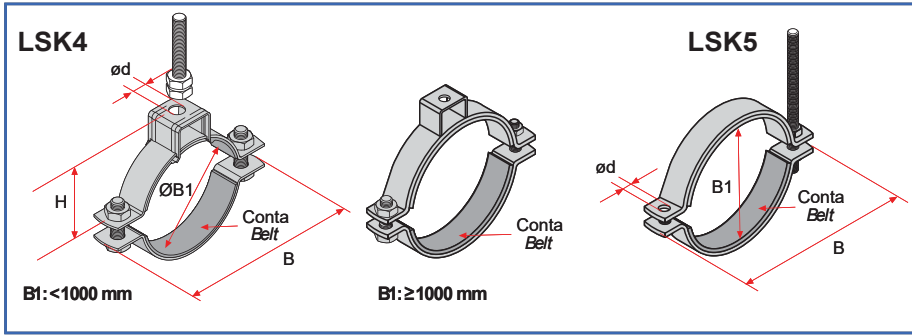
Standart Kaplama / Standard Finish :

 Elektro Galvaniz, Sıcak Daldırma Galvaniz
Electro Plated, Zinc or Hot-Dip Galvanized

Hizmet / Service :

 Yuvarlak hava kanallarını asmak için dizayn edilmiştir. Ø910 mm'nin üzerindeki yuvarlak hava kanallarında LSK5 modellerinin kullanılması önerilir. *Designed for hanging round air channels. It is recommended to use LSK5 for over 910mm diameter air channels.*


LSK4


LSK4 Ölçüler / Dimensions

Kod Code	ØB1 mm	H mm	B mm	Ød mm
LSK4.3228	80	70	134	13
LSK4.3229	100	82	154	13
LSK4.3230	125	95	179	13
LSK4.3231	150	110	204	13
LSK4.3232	160	113	215	13
LSK4.3233	180	123	235	13
LSK4.3234	200	134	259	13
LSK4.3235	224	146	283	13
LSK4.3236	250	159	311	13
LSK4.3237	280	175	351	13
LSK4.3238	295	182	356	13
LSK4.3239	300	385	361	13
LSK4.3240	315	191	384	13
LSK4.3241	355	211	424	13
LSK4.3242	400	234	469	13
LSK4.3243	450	259	520	13
LSK4.3244	500	284	570	13
LSK4.3245	560	314	630	13
LSK4.3246	600	334	670	13
LSK4.3247	630	350	700	13
LSK4.3248	710	390	780	13
LSK4.3249	800	435	870	13
LSK4.3250	900	485	970	13
LSK4.3251	1000	543	1088	18
LSK4.3253	1120	602	1208	18
LSK4.3254	1250	668	1388	18

 B1:
<math>< 1000 \text{ mm}</math>

 B1:
$\geq 1000 \text{ mm}$

LSK5 Ölçüler / Dimensions

Kod Code	B1 mm	B mm	Ød mm
LSK5.3252-001	80	134	9
LSK5.3252-002	100	154	9
LSK5.3252-003	125	179	9
LSK5.3252-004	150	204	9
LSK5.3252-005	160	215	9
LSK5.3252-006	180	235	9
LSK5.3252-007	200	259	9
LSK5.3252-008	224	283	9
LSK5.3252-009	250	311	9
LSK5.3252-010	280	351	9
LSK5.3252-011	295	356	9
LSK5.3252-012	300	361	9
LSK5.3252-013	315	384	9
LSK5.3252-014	355	424	9
LSK5.3252-015	400	469	9
LSK5.3252-016	450	520	9
LSK5.3252-017	500	570	9

Kod Code	B1 mm	B mm	Ød mm
LSK5.3252-018	560	630	13
LSK5.3252-019	600	670	13
LSK5.3252-020	630	700	13
LSK5.3252-021	710	780	13
LSK5.3252-022	800	870	13
LSK5.3252-023	900	970	13
LSK5.3252-024	1000	1088	13
LSK5.3252-025	1120	1208	13
LSK5.3252-026	1250	1388	18
LSK5.3252-027	1300	1420	18
LSK5.3252-028	1350	1468	18
LSK5.3252-029	1400	1524	18
LSK5.3252-030	1500	1610	18
LSK5.3252-031	2000	2120	18

Çarpanlata göre seçim tablosu / Select on table according to diameters.

Kanal Çapı Duct Dia.	Max. Askı Mesafesi Max. Spacing	Rot Rod	Kelepçe Tipi Clamp Type
R<475	3,7m.	M.8	LSK4, LSK5
R<610	3,7m.	M.8	LSK4, LSK5
R<910	3,7m.	M.10	LSK4, LSK5
R<2150	3,7m.	M.10X2	LSK5
R<2500	3,7m.	M.12X2	LSK5

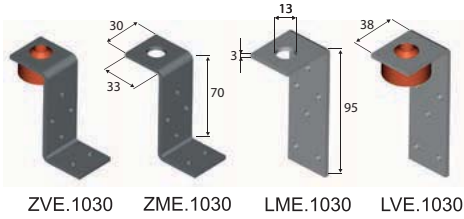
Table is prepared based on SMACNA HVAC Duct Construction Standards.

LME/LVE/ZVE



L-Z Kesitli Hafif Yük Montaj Elemanları L-Z Light Duty Mounting Elements

Havalandırma kanalları için hafif yük askılama montaj elemanlarıdır. Malzeme çelikten imal edilmiş olup, korozyona karşı elektrogalvanizle kaplanmıştır. *Designed as a light duty hanger for air ducts. Material is steel and electrogalvanized for corrosion protection.*



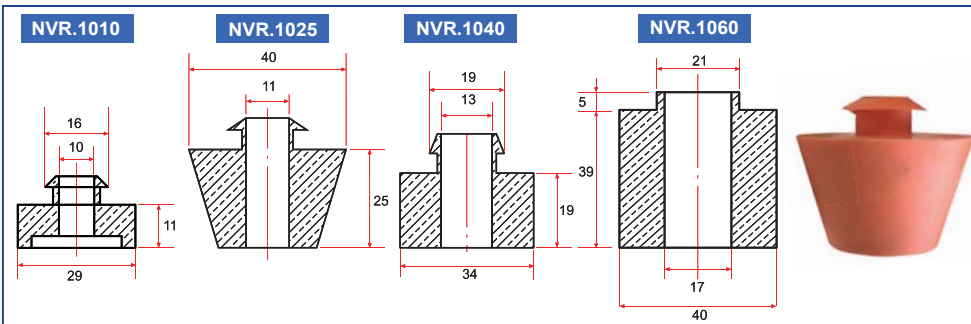
ZVE.1030 ZME.1030 LME.1030 LVE.1030

Kod Code	Çalışma Yüğü Appl. Load kN	Rot Rod mm
LME.1030	0,5	M.8/10x30
LVE.0830	0,5	M.8x30
LVE.1030	0,5	M.8/10x30
ZME.1030	0,5	M.8/10x30
ZVE.0830	0,5	M.8x30
ZVE.1030	0,5	M.8/10x30

Kauçuk Titreşim Alıcılar Rubber Vibration Absorber

Askı rotu ile askı profili arasında, ses ve titreşim izolasyonu olarak kullanılır. *Used for noise and vibration isolation between hanger rot and trapeze support.*

NVR

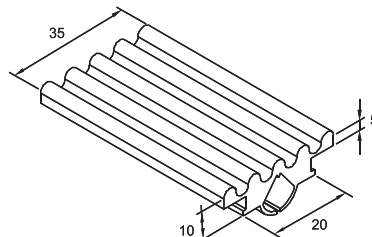


Kod Code	Rot Rod	Çalışma Yüğü Appl. Load kN
NVR.1010	M.8	0,25
NVR.1025	M.10	0,35
NVR.1040	M.12	0,45
NVR.1060	M.16	0,95

Ses ve Titreşim İzolatörü Sound and Vibration Insulation

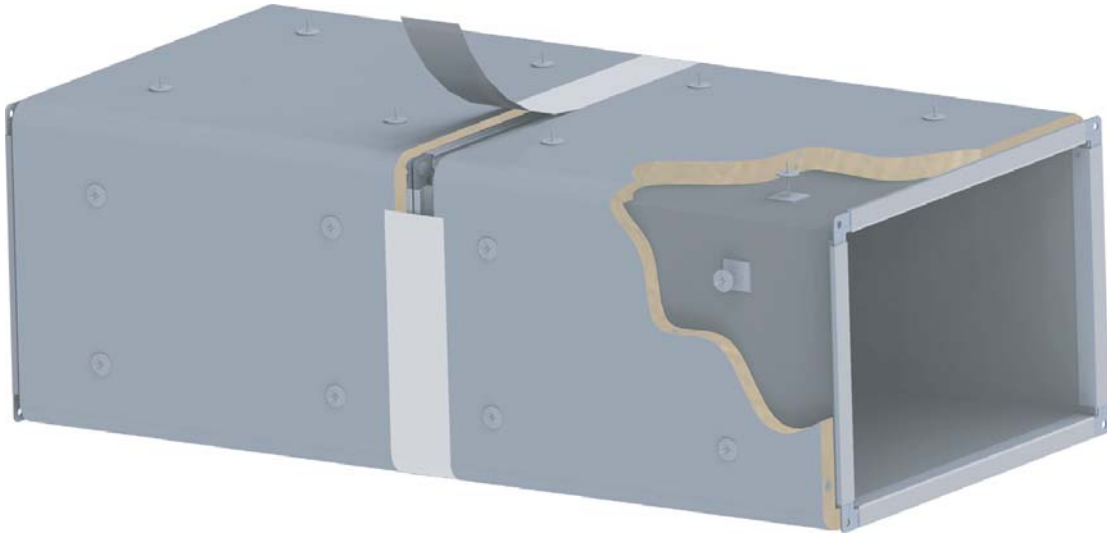
PROLINK C profillerinde ses ve titreşim izolasyonu için kullanılır. Özel tasarımı ile M.8-M.10 askı rotunda ses ve titreşim izolasyonu için kullanılır. *It is used with PROLINK C cross section profiles. Suitable for threaded rods M.8-M.10 against sound and vibration.*

PLCSBR



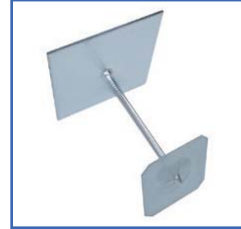
Kod Code	Ad./Kutu Pie./Box	Kg /Kutu Kg /Box
PLCSBR.110	25	7,5

IZL



İzolasyon Çivisi Isolated Nail

Kendiliğinden yapışkanlı galvaniz kaplama izolasyon çivileri, izolasyonun kanala montajında kullanılır.
Self adhesive isolation nail is used for fixing insulation to duct.



Kod Code	Çivi Boyu Nail Length mm
IZL.1004	40
IZL.1006	60
IZL.1010	100

Yapışkanlı Alüminyum Folyo Bant Adhesive Aluminyum Foil

İzolasyonun ek yerlerinde sızdırmazlığı sağlamak amacı ile kullanılır.
Used for prevent leakage from the insulation joints.



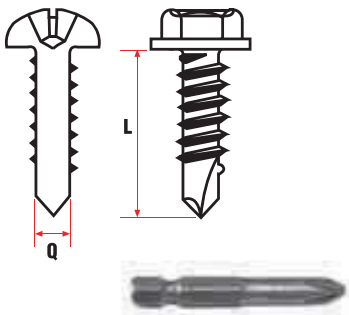
BANT

Kod Code	Bant Eni Nail Width mm	Kod Code	Bant Eni Nail Width mm
BANT.1050	50	BANT.2075	75*
BANT.2050	50*	BANT.1100	100
BANT.1075	75	BANT.2100	100*

*Takviyeli / Reinforced

Kolay Vida / Vida Ucu Easy Screw / Drill Head

Havalandırma kanalları için hafif yük askılama montaj elemanlarıdır. Malzeme çelikten imal edilmiş olup, korozyona karşı elektrogalvanizle kaplanmıştır. *Designed as a light duty hanger for air ducts. Material is steel and electrogalvanized for corrosion protection.*



ES

Kod Code	Ölçü / Size Q / L
ES.3913	Ø3,9 x 13 mm
ES.3916	Ø3,9 x 16 mm
ES.3919	Ø3,9 x 19 mm
ES.3925	Ø3,9 x 25 mm
ES.4216	Ø4,2 x 16 mm
ES.4225	Ø4,2 x 25 mm
ES.3900	Ø3,9
ES.4200	Ø4,2
ES.4800	Ø4,8
ES.4816	Ø4,8 x 16 mm
ES.4835	Ø4,8 x 35 mm
ES.4850	Ø4,8 x 50 mm

Çelik Yaylı Titreşim Alıcılar
Spring Vibration Isolators**Malzeme / Material:**

Çelik / Steel

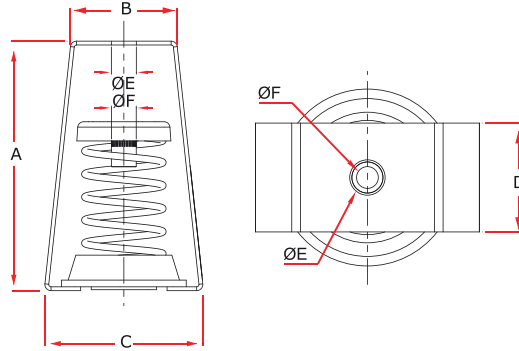
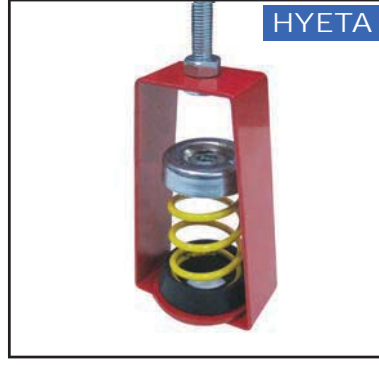
Standart Kaplama / Standart Finish:

Epoxy boya ve Elektrogalvaniz

Epoxy Paint and Zinc Plated

Hizmet / Service:

Asılı tip montaj yapılan mekanik / elektrik ekipmanların yanısıra asma tavan gibi yapısal olmayan elemanların titreşim izolasyonu için kullanılır.

Recommended to use for vibration isolation of non-structural component such as electromechanical components and ceiling floor.**HYET****Ölçüler / Dimensions**

Kod Code	Dizayn Yüğü Design Load N	Çökme Deflection mm	k N/mm	Renk (Yay) Colour (Spring)	A mm	B mm	C mm	D mm	ØE mm	ØF mm
HYETA.10081	100	25	4	Turuncu / Orange	130	56	82	40	13	M.10
HYETA.10082	250	25	10	Sarı / Yellow	130	56	82	40	13	M.10
HYETA.10083	500	25	20	Mavi / Blue	130	56	82	40	13	M.10
HYETA.10084	1000	25	40	Kırmızı / Red	130	56	82	40	13	M.10
HYETA.10085	1500	25	60	Yeşil / Green	130	56	82	40	13	M.10
HYETB.10101	1000	25	40	Kırmızı / Red	190	89	137	50	14	M.12
HYETB.10102	1500	25	60	Mavi / Blue	190	89	137	50	14	M.12
HYETB.10103	2000	25	80	Turuncu / Orange	190	89	137	50	14	M.12
HYETB.10104	3000	25	120	Siyah / Black	190	89	137	50	14	M.12
HYETB.10105	4000	25	160	Sarı / Yellow	190	89	137	50	14	M.12
HYETC.10141	1000	25	40	Sarı / Yellow	210	112	152	50	22	M.16
HYETC.10142	2000	25	80	Mavi / Blue	210	112	152	50	22	M.16
HYETC.10143	3000	25	120	Beyaz / White	210	112	152	50	22	M.16
HYETC.10144	4000	25	160	Gri / Gray	210	112	152	50	22	M.16
HYETC.10145	5000	25	200	Turuncu / Orange	210	112	152	50	22	M.16
HYETC.10146	6000	25	240	Beyaz / White	210	112	152	50	22	M.16
HYETC.10147	7000	25	280	Sarı / Yellow	210	112	152	50	22	M.16
HYETC.10148	8000	25	320	Yeşil / Green	210	112	152	50	22	M.16
HYETC.10149	9000	25	360	Kırmızı / Red	210	112	152	50	22	M.16
HYETC.10150	10000	25	440	Siyah / Black	210	112	152	50	22	M.16
HYETC.10151	12000	25	480	Gri / Gray	210	112	152	50	22	M.16
HYETC.10151	13000	25	520	Mavi / Blue	210	112	152	50	22	M.16

Yatay Basınç Sınırlayıcıları / Horizontal Thrust Restraints

Yatay Basınç Sınırlayıcıları "KTR":

KTR

Yatay basınç sınırlayıcıları, fanlarda veya klima santrali çıkış noktalarında ekipman ağırlığından daha fazla yük oluşturan havanın itme kuvveti sonucunda oluşabilecek aşırı yer değiştirmelerini engeller. Bu sınırlayıcılar özellikle yaylı titreşim izolatörleri ve izolasyon askıları ile aynı çökmede olan yay ünitesi ile kauçuk tabandan oluşur. Basınç noktasının merkezine ve ekipmanın her iki tarafına simetrik olarak monte edilir.

Tüm fan başları ve aksiyal veya santrifüj fanlarda hava basınç kuvvetinin ekipman ağırlığından %10 daha fazla olduğu zamanlarda yatay basınç sınırlayıcılarının kullanılması önerilir.

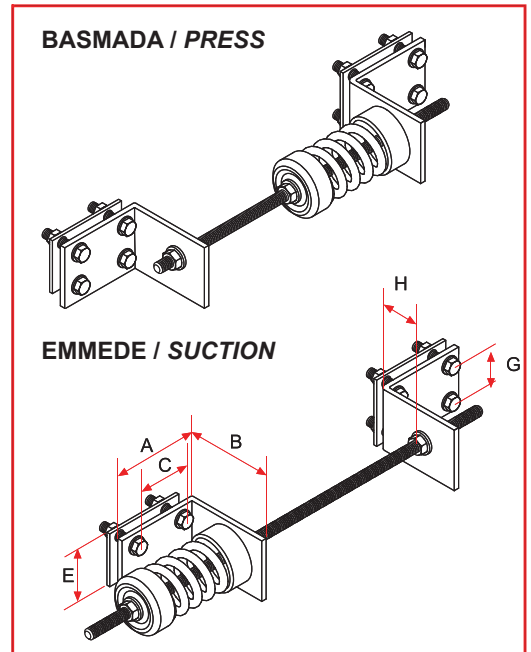
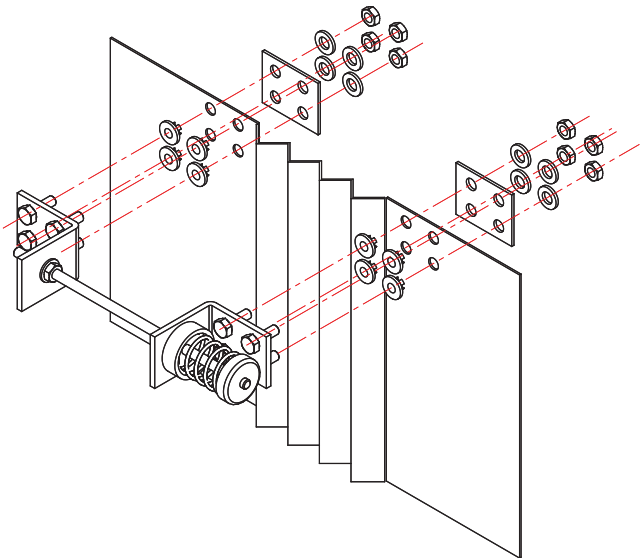
Aşırı hava basıncı asılı ya da zemine tutturulmuş olan tüm ekipmanlarda oluşabilir. İşte bu yüzden sistemin başlayış ve kapanışı hava basıncının yükseldiği veya yok olduğu zamanlarda yay askılarının hareketi sınırlandırabilecek şekilde önceden sıkıştırılarak, yatay basınç sınırlayıcıları ayarlanmalıdır.

Bu ürünü yaylı titreşim izolatörleri veya yay askıları ile beraber kullanabilirsiniz.

Horizontal - Thrust Restraints "KTR":

Horizontal-Thrust Restraints prevent excessive displacements of fans because of bigger air thrust force than equipments weight. These isolators are made of rubber base and springs which have same distortion with spring vibration isolators and vibration isolation hangers. It is located center of thrust and both side of equipment symmetrically. Horizontal thrust restraints are recommended for all fan heads and for axial or centrifugal fans when the air thrust exceeds 10% of the equipment weight.

Air pressure can exist in all equipments which are hanged or floor mounted. Because of that system's start and stop air pressure sometimes rises or disappears, so spring hangers movement should be restricted by precompressing to set thrust spring restraints.

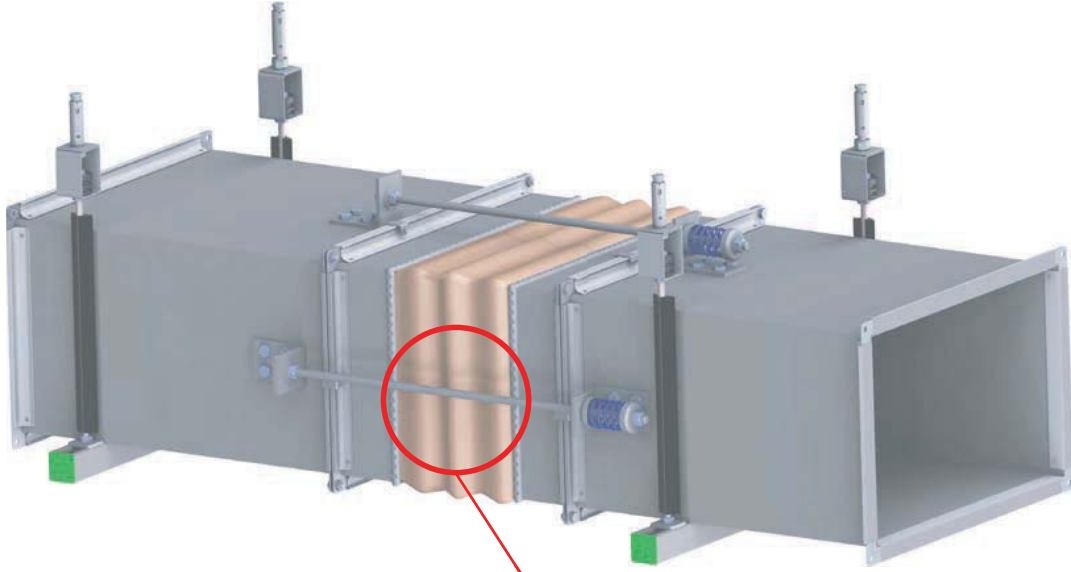


Yatay Basınç Kuvveti = mmSSxm²
1mm SS = 1 kg/m²

Kod Code	Titreşim Alıcı Tipi Type	Çalışma Yüğü Appl. Load kN	Renk (Yay) Colour (Spring)	Yay Kodu Spring Code mm	A mm	B mm	C mm	E mm	G mm	H mm
KTR.40821	KTR10	100	Turuncu / Orange	L44	80	80	38	60	36	48
KTR.40822	KTR25	250	Sarı / Yellow							
KTR.40823	KTR50	500	Mavi / Blue							
KTR.40824	KTR100	1000	Kırmızı / Red							
KTR.40825	KTR150	1500	Yeşil / Green							

Konnektör / Connectors

KON



Kod Code	Ölçü Dimensions mm
KON.4560	45 x 60 x 45
KON.7010	70 x 100 x 70

Standart Ebatlar:

KK 3560, KK 4560, KK 4575, KK 7010

Ayrıca sipariş üzerine farklı ebatlarda üretim yapılabilir.

Alev Taşımaz PVC Konnektörler:

Malzeme: 0,40 mm galvaniz sac ve 750 denye polyester dokuma takviyeli pvc branda. Alev dayanımı: Alev taşımaz ısı dayanımı: -30 +80 °C

Alev Taşımaz Kanvas Konnektörler:

Malzeme: 0,40 mm galvaniz sac ve 500 gr/m2 alev taşımaz nem geçirmez kanvas dokuma. Alev dayanımı: Alev almaz

Yanmaz Cam Elyaf Konnektörler:

Malzeme: 0,40 mm galvaniz sac ve 500 gr/m2 her iki tarafı silikon kaplanmış yanmaz nem geçirmez cam elyaf. Dokuma kumaş. Isı dayanımı: -30 +280 °C

Alev Taşımaz Renkli PVC Konnektörler:

Malzeme: 0,40 mm galvaniz sac ve 750 denye polyester dokuma takviyeli renkli pvc branda. Alev dayanımı: Alev taşımaz. Isı dayanımı: -30 +80 °C

Standard Dimensions:

KK 3560, KK 4560, KK 4575, KK 7010. Different dimensions are produced on request.

Flame Retardant PVC Connectors:

Materials: 0,40 mm galvanized sheet and 750 denye polyester fabric reinforced pvc. Flame resistance: flame retardant. Temperature range: -30 +80 °C

Flame Reterdant Kanvas Connectors:

Material: 0,40 mm galvanized sheet and 500 gr/m2 flame reterdant, humidity proof, kanvas woven fabric. Flame resistance: flame reterdant.

Non-Cumbustible Glassfiber Connectors:

Material: 0,40 mm galvanized sheet and 650 gr/m2 both side are silicon coated non-cumbustible humidity proof glassfiber woven fabric. Temperature resistant: -30 +280 °C

Flame Reterdant Colored PVC Connectors:

Materials: 0,40 mm galvanized sheet and 750 denye polyester fabric reinforced colored pvc. Flame resistance: flame retardant. Temperature range: -30 +80 °C



Aluminyum Esnek Borular / Aluminium Flexible Ducts**AL-FLEX: Alüminyum Esnek Boru**

orta ve düşük basınçlı ortamlar için üretilmiştir. Isıtma-soğutma havalandırma ve atık gaz geçiş hatlarında kullanılacak şekilde çok katlı polyester lamineli alüminyum folyodan imal edilmiştir. AL-FLEX hava sızdırmaz. AL-FLEX esneme, bükülme ve sıkıştırılabilirliği yüksek esnek borudur. Yırtılma ve darbelere dayanıklıdır. Alev dayanımlıdır ve yangın sonrası zehirli gaz çıkışına neden olan poliüretan bazlı tutkal kullanılmamaktadır.

AL-FLEX : Aluminium Flexible Duct

Produced for the low and medium pressure atmosphere. Made of aluminium foil laminated with polyester film for the usage in heating ventilation air conditioning and gas transition systems. AL-FLEX is airtight. AL-FLEX is a duct which has high flexibility and ability for press and twist. Resistant to tear and stroke Poliuretan based glue which causes to get out poisonous gas after fire is not used in our products.

Teknik Özellikleri / Technical Features

Malzeme / Material	: Alüminyum / Aluminium
Isı Dayanımı / Temperature Range	: -30 +150 °C
Çap Aralığı / Diameter Range	: 76mm - 610 mm
Standart Boy / Standard Length	: 10 mt
Hava Akış Hızı / Air Velocity	: 30 m/sn / 30 m/sec.
Çalışma Basıncı / Operating Pressure	: Mak. 3000 Pa / Max. 3000 Pa
Sunum Şekli / Offer Type: Tekli ambalaj / Single packed	
İzoleli Al-Flex / Insulated Al-Flex	
İzolasyon / Insulation	:
	25mm. kalınlıkta 16kg/m ³ yoğunlukta cam yünü.
	25mm thickness 16kg/m ³ density glasswool
Ceket / Jackets	:
	Dış yüzey alüminyum iç yüzey polyester.
	Outer side aluminium, inner side is polyester.

**Akustik Esnek Boru (Ses ve Isı izolasyonlu
Alüminyum Esnek Havalandırma Boruları)
Aluminium flexible duct for sound and thermal insulation**
SN-FLEX

Orta ve düşük basınç altında çalışan ısıtma soğutma ve havalandırma sistemlerinde kullanılmak üzere üretilmiştir. Akustik izolasyon niteliği sağlayan mikro perfore alüminyum folyodan üretilmiş esnek borulardır. İzolasyon malzemesi camyünü ile boru arasında polyester film bariyer bulunmaktadır.

SN-FLEX

Produced for heating ventilation air conditioning systems which are operating under medium and low pressure. Flexible duct made of perforated aluminium foil which provides acoustic insulation. It has polyester film barrier between the duct and insulation material glasswool.

Teknik Özellikleri / Technical Features

Malzeme / Material	: Alüminyum / Aluminium
Isı Dayanımı / Temperature Range	: -30 +150 °C
Çap Aralığı / Diameter Range	: 76mm - 610 mm
Standart Boy / Standard Length	: 10 mt
Hava Akış Hızı / Air Velocity	: 30 m/sn / 30 m/sec.
Çalışma Basıncı / Operating Pressure	: Mak. 3000 Pa / Max. 3000 Pa
İzolasyon / Insulation	:
	25mm. kalınlıkta 16kg/m ³ yoğunlukta cam yünü.
	25mm thickness 16kg/m ³ density glasswool
Ceket / Jackets	:
	Dış yüzey alüminyum iç yüzey polyester.
	Outer side aluminium, inner side is polyester
Bariyer / Barrier	: Polyester film / Polyester film
Sunum Şekli / Offer Type	: Tekli ambalaj / Single packed



Aluminyum Polyester Esnek Boru Aluminium Polyester Flexible Duct

EKO-FLEX

Orta ve düşük basınçlı ortamlar için üretilmiştir. Isıtma soğutma havalandırma ve atık gaz geçiş hatlarında kullanılacak şekilde dış yüzeyi aluminyum folyadan iç yüzeyi ise polyester filmden imal edilmiştir. Elastik modülü düşük olan aluminyum yüzeylerde zaman içinde oluşan çatlaklar hem basınç kaybını arttırmakta hemde bakterilerin yerlemesine uygun ortamlar oluşturmaktadır. EKO-FLEX'in iç yüzeyi düzgün polyester film kaplanmıştır. Düzgün yüzey sayesinde basınç kaybı azalmakta ve bakterilerin oluşmasına uygun olmayan hijyenik bir ortam sağlanmış olmaktadır. EKO-FLEX hava sızdırmaz. EKO-FLEX esneme, bükülme ve sıkıştırılabilirliğine yeteneği yüksek esnek borudur. Yırtılma ve darbelere dayanıklıdır. Hijyeniktir. Düzgün iç yüzey sayesinde basınç kaybı azdır.



EKO-FLEX

Produced for the low and medium pressure atmosphere. Inner side is polyester film and outer side is aluminium foil for the usage in heating ventilation air conditioning and gas transition systems. On the surface of all aluminium foils which has low elastic modulus small wrinkles and cracks occurs. This cracks increases pressure loss and provides suitable medium for bacterias growth. The inner side of EKO-FLEX is covered with smooth polyester film to prevent these inconveniences. The smooth inner surface of EKO-FLEX decreases the pressure loss and provides a hygienic environment on which the bacterias can not growth. EKO-FLEX is airtight. EKO-FLEX has high flexibility and ability to press and twist. EKO-FLEX is resistant to tear and stroke. EKO-FLEX is more hygienic EKO-FLEX decreases the pressure loss due to the smooth inner surface.



Teknik Özellikleri / Technical Features

Malzeme / Material	: Aluminyum / Aluminium
Isı Dayanımı / Temperature Range	: -30 +80 °C
Çap Aralığı / Diameter Range	: 76mm - 610 mm
Standart Boy / Standard Length	: 10 mt
Hava Akış Hızı / Air Velocity	: 30 m/sn / 30 m/sec.
Çalışma Basıncı / Operating Pressure	: Mak. 3000 Pa / Max. 3000 Pa
Sunum Şekli / Offer Type	: Tekli ambalaj / Single packed

İzoleli Eko-Flex / Insulated Eko-Flex

İzolasyon / Insulation	:
25mm. kalınlıkta 16kg/m ³ yoğunlukta cam yünü.	
25mm thickness 16kg/m ³ density glasswool	
Ceket / Jackets	:
Dış yüzey aluminyum iç yüzey polyester.	
Outer side aluminium, inner side is polyester.	

Aluminyum Polyester Esnek Boru / Aluminium Polyester Flexible Duct

Lütfen, sipariş oluştururken aşağıdaki örneği dikkate alınız.
Please, pay attention following example while ordering.

0200.2. AL-FLEX. 127

Ürün Grup Kodu Product Group Code	Ürün Kodu Product Code	Boru Çapı Pipe Size
0200.2.	AL-FLEX SN-FLEX EKO-FLEX	127 mm

PL-FLEX: Metalize Opp / Metalize Polyester Esnek Boru

Orta ve düşük basınçta çalışmak üzere Metalize opp / metalize polyester ve yüksek gerilimli çelik tel ile üretilmiş esnek havalandırma borularıdır. Isıtma soğutma havalandırma ve atık gaz geçiş hatlarında kullanılmak üzere tasarımılandırılmıştır. Esneme, bükülme ve sıkıştırılabilme yeteneği yüksek esnek borulardır. Yırtılma ve darbelere dayanıklıdır.

PL-FLEX: Metallised Opp / Polyester Flexible Duct

Flexible air duct which is made of metallised opp / metallised polyester and high tensile strength steel wire for the usage in medium and low pressure atmosphere. Designed for the usage in heating ventilation air conditioning and exhaust gas transition systems. PL-FLEX has high flexibility and ability to press and twist. PL-FLEX is resistant to tear and stroke.

Teknik Özellikleri / Technical Features

Malzeme / Material

Metalize opp / Metalize polyester

Metallised opp / Metallised polyester

Isı Dayanımı / Temperature Range : -30 +80 °C

Çap Aralığı / Diameter Range : 76mm - 610 mm

Standart Boy / Standard Length : 10 mt

Hava Akış Hızı / Air Velocity : 30 m/sn / 30 m/sec.

Çalışma Basıncı / Operating Pressure : Mak. 2500 Pa / Max. 2500 Pa

Sunum şekli / Offer type : Tekli ambalaj / Single packed

İzoleli PI-Flex / Insulated PI-Flex

İzolasyon / Insulation :

25 mm kalınlıkta 16 kg / m³ yoğunlukta cam yünü.

25 mm thickness 16 kg / m³ density glasswool

Ceket / Jackets :

Metalize opp / Metalize polyester

Metallised opp / Metallised polyester


POL-FLEX: Polyester Esnek Boru

Orta ve düşük basınç altında çalışmak üzere ısıtma soğutma havalandırma ve atık gaz hatlarında kullanılacak şekilde polyester film ve yüksek gerilimli çelik tel ile üretilmiş ekonomik esnek havalandırma borularıdır.

POL-FLEX: Polyester Flexible Duct

Economic flexible ventilation duct which made of polyester film and high tensile strength steel wire for the usage in heating ventilation air conditioning and gas exhaust systems operating under low and medium pressure atmosphere.

Teknik Özellikleri / Technical Features

Malzeme / Material :

Metalize opp / Metalize polyester

Metallised opp / Metallised polyester

Isı Dayanımı / Temperature range : -30 +80 °C

Çap Aralığı / Diameter Range : 76mm - 610 mm

Standart Boy / Standard Length : 10 mt

Hava Akış Hızı / Air Velocity : 30 m/sn / 30 m/sec.

Çalışma Basıncı / Operating Pressure : Mak.2500 Pa / Max.2500 Pa

Sunum Şekli / Offer Type : Tekli ambalaj / Single packed

İzoleli Pol-Flex / Insulated Pol-Flex

İzolasyon / Insolation :

25 mm kalınlıkta 16 kg / m³ yoğunlukta cam yünü

25 mm thickness 16 kg / m³ density glasswool

Ceket / Jackets :

Metalize opp / Metalize polyester

Metallised opp / Metallised polyester



PVC Esnek Borular / PVC Flexible Duct**PVC-FLEX: Kalın PVC Esnek Boru**

Isıtma soğutma havalandırma sistemlerinde ve özellikle endüstriyel alanlarda içinde partikül taşıyan hava geçişlerine uygun olarak kullanılmak üzere üretilmiştir. 750 denye kalın polyester dokuma ile takviye edilmiş yüksek gramajlı PVC ile üretilmiş yüksek darbe dayanımlı borudur. Sürtünme dayanımı yüksektir. Fiziksel darbelere karşı yüksek mukavemetlidir. Partiküllerin iç yüzeye yapışmasını önleyecek şekilde iç yüzeyi düzgündür. Partiküllerin yapışmasını önleyen antistatik malzeme ile üretilmiştir. Sanayide kullanılmak üzere tasarlanmış esnek havalandırma borularıdır.

PVC-FLEX: Heavy Duty PVC Flexible Duct

Produced for heating ventilation air conditioning systems and especially suitable for the ventilation lines carrying particuls in industrial field. Made of high weight PVC in grams which is reinforced with 750 denye polyester fabric Resistant to high stroke. High resistant to physical strokes. Smooth inner surface prevents particuls to stick on the surface. Made of antistatikal material which prevents particuls to stick. Heavy Duty Flexible ventilation duct for industrial usage.

Teknik Özellikleri / Technical Features

*Malzeme / Material : 750 denye PVC branda
750 denye polyester fabric reinforced
Isı Dayanımı / Temperature Range : -30 +80 °C
Çap Aralığı / Diameter range : 102mm - 610 mm
Hava Akış Hızı / Air velocity : 30 m/sn / 30 m/sec.
Çalışma Basıncı / Operating pressure : Mak.15000 Pa / Max.15000 Pa
Sunum şekli / Offer type : Tekli ambalaj / Single packed*

İzoleli Pvc-Flex / Insulated Pvc-Flex

*İzolasyon / Insulation
25 mm kalınlıkta 16 kg / m3 yoğunlukta cam yünü
25 mm thickness 16 kg / m3 density glasswool*

Ceket / Jackets

Talebe göre / as requested

Pvc (120 mic.) Met. opp / polyester (55 mic.) Pe (80 mic.)

GR-FLEX: Pvc Esnek Boru

Düşük ve orta basınç altında çalışan ısıtma soğutma ve havalandırma sistemlerinde kullanılır. 150 micron pvc film ile yüksek gerilimli çelik tel kullanılarak üretilmiş esnek borudur. Esneme bükülme ve sıkıştırılabilme yeteneği yüksek borulardır.

GR-FLEX: Pvc Flexible Duct

Produced for the heating ventilation air conditioning systems which are operating under medium and low pressure. Flexible duct made of 150 micron pvc film and high tensile strength steel wire. It has high ability to twist and press.

Teknik Özellikleri / Technical Features

*Malzeme / Material
150 mikron kalınlıkta PVC
150 micron PVC
Isı Dayanımı / Temperature Range : -30 +80 °C
Çap Aralığı / Diameter Range : 76mm - 610 mm
Standart Boy / Standard Length : 10 mt
Hava Akış Hızı / Air Velocity : 30 m/sn / 30 m/sec.
Çalışma Basıncı / Operating Pressure: Mak.2500 Pa / Max. 2500 Pa
Sunum Şekli / Offer Type : Tekli ambalaj / Single Packed*

İzoleli Gr-Flex / Insulated Gr-Flex

*İzolasyon / Insulation :
25 mm. kalınlıkta 16 kg / m3 yoğunlukta cam yünü.
25 mm thickness 16 kg / m3 density glasswool*

Ceket / Jackets

Talebe göre/ as requested

Pvc (120 mic.) Met. opp / polyester (55 mic.) Pe (80 mic.)



PVC Esnek Borular / PVC Flexible Duct**PKL-FLEX: Polyester Dokuma Takviyeli PVC Esnek Boru**

Orta ve düşük basınçta çalışmak üzere 450 denye polyester dokuma ile takviye edilmiş, pvc film ve yüksek gerilimli çelik tel ile üretilmiştir. Isıtma, soğutma, havalandırma sistemlerinde, atık gaz geçişlerinde, içinde partikül taşıyan atık hava geçişlerine uygun olacak şekilde özellikle fiziksel darbelerle karşı dayanımı arttırılmış pvc borulardır. Darbelere ve sürtünmelere karşı yüksek dayanımlıdır. Alev taşımaz ve endüstriyel alanlarda uygulanabilen esnek borulardır.

PKL-FLEX: Polyester Fabric Reinforced PVC Flexible Duct

Made of polyester fabric reinforced pvc film and high tensile strength steel wire to operate in medium and low pressure systems. Suitable for heating ventilation air conditioning and gas exhaust lines carrying particuls. Especially increased resistance for high physical strokes of particuls.

High resistant to strokes and friction.

Flexible ducts for industrial fields.

Flame retardant.

Teknik Özellikleri / Technical Features

Malzeme / Material :

Polyester takviyeli pvc

Reinforced polyester pvc

Isı Dayanımı / Temperature Range : -30 +80 °C

Çap Aralığı / Diameter Range : 76mm - 610 mm

Standart boy / Standard Length : 10 mt

Hava Akış Hızı / Air Velocity : 30 m/sn / 30 m/sec.

Çalışma Basıncı / Operating Pressure : Mak. 5000 Pa / Max. 5000 Pa

İzoleli Pkl-Flex / Insulated Pkl-Flex

İzolasyon / Insulation :

25 mm kalınlıkta 16 kg / m³ yoğunlukta cam yünü

25 mm thickness 16 kg / m³ density glasswool

Ceket / Jackets :

Talebe göre / as requested

Pvc (120 mic.) Met. opp / polyester (55 mic.) Pe (80 mic.)



Lütfen, sipariş oluştururken aşağıdaki örneği dikkate alınız.

Please, pay attention following example while ordering.

0200.2. AL-FLEX. 127

Ürün Grup Kodu

Product Group
Code

0200.2.

Ürün Kodu

Product Code
PL-FLEX

POL-FLEX

PVC-FLEX

GR-FLEX

PKL-FLEX

Boru Çapı

Pipe Size
127 mm

PROLINK G ve C Kesitli Profiller / PROLINK G and C Cross Section Profiles

Malzeme / Material :

EN10326 standartına göre S 250 GD+Z 100 ve S 250 GD+Z 275; EN10327 standartına göre DX51 D+Z 100 ve DX51 D+Z 275 malzeme kullanılarak üretilmektedir. Yükleme bilgileri için profil yük dağılım şemasını inceleyiniz. Bütün profillerimiz daldırma galvaniz ve elektro galvaniz prosesi ile kaplanabilmektedir.

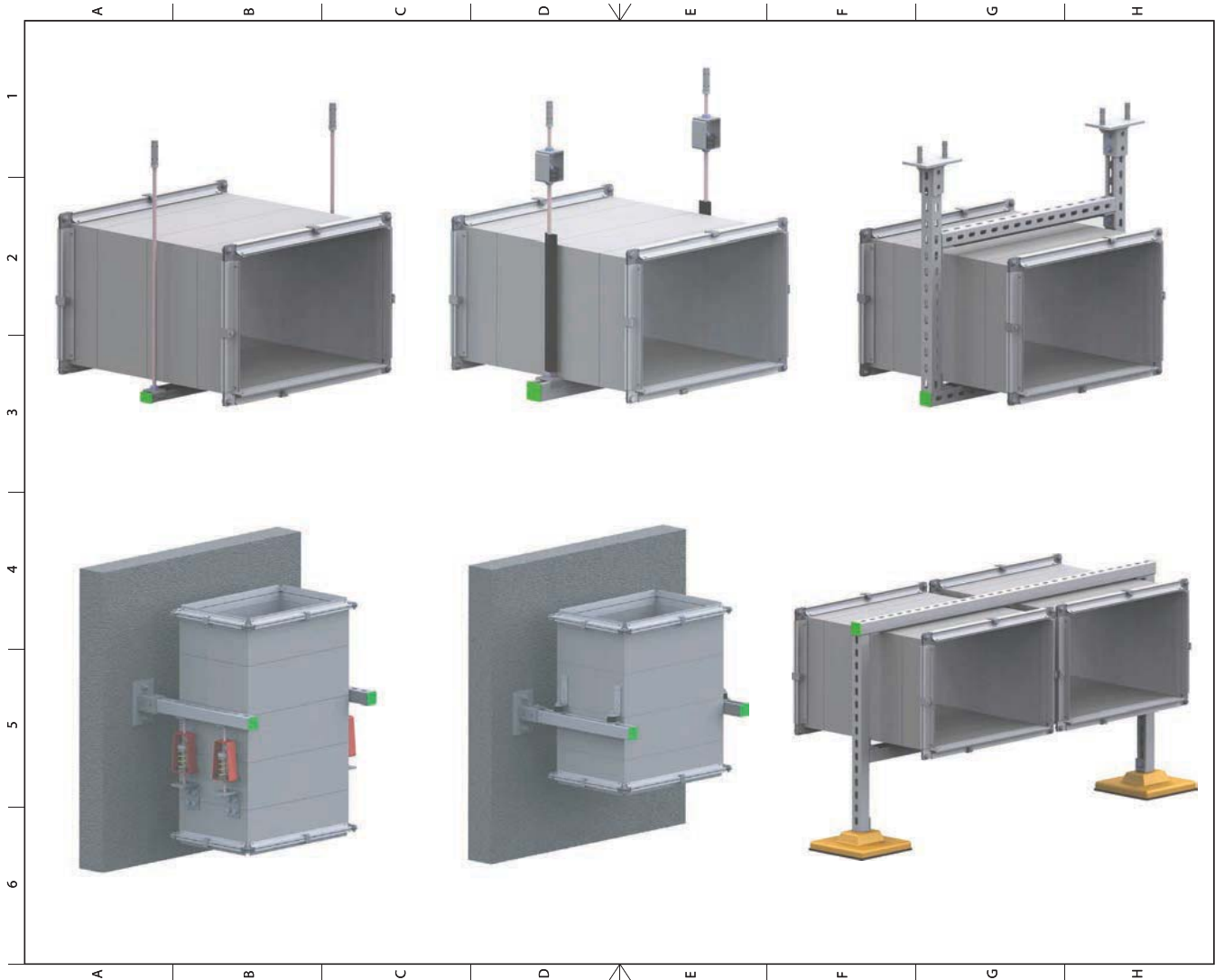
Material S 250 GD-Z275-N-A,EN10147 / DX51 DZ 275-N-A. Hot-dip galvanized material formed for corrosion protection. Please examine bad data table for design loads.

Hizmet / Service :

Mükemmel tasarımı sayesinde yüksek statik yük taşıma kapasitesine sahiptir. Orta ve hafif yük sınıfına uygundur. Bağlantı elemanları sürtünme yüzeyi kaymayı önleyici çentikli yüzeye sahiptir. Görsellik gerektiren montajlara uygundur. İstenilen bağlantı noktasında uygulama için çeşitli aralık ve boyutta montaj deliklerine sahiptir. TAKS bağlantı elemanları veya LINK montaj aksesuarları ile çeşitli yapılara uygulanır.

Sustain remarkable static loads due to its excellent design. Suitable for light up to medium load range. Anti-slip knurled profile surface. Suitable for demonstrative demanding installations. Multiple punched for any installation task imaginable. Suitable for various constructions with TAKS connecting parts or conventional LINK installation accessories.

Havalandırma Kanalı Askı Tipleri (Konsollu) Types of Air Ducts Hanger (with brackets)



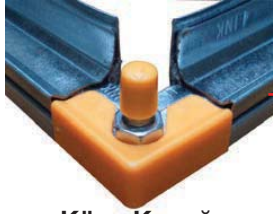
Koruyucu Kapak ve Tapalar Protect ve Cover and Caps

VT/VTs/VTL

Malzeme / Material : Plastik / Plastic

Renk / Colour: Yeşil-Turuncu / Green- Orange

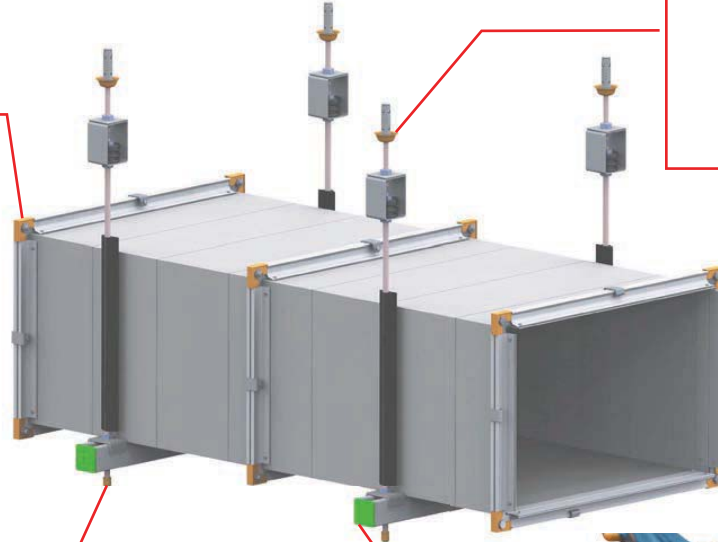
Sıcaklık Dayanımı / Withstandstemperature: -30 / +90



Köşe Kapağı
 Corner Cover



Rot Tapası
 Rod Cover



Rot Aynası
 Rod Cover



G ve C Profil Kapağı
 G and C Profile Cover

Profil Kapak Tablosu Table of Corner Cover

Kod Code	Profil Cinsi Profil Type	Ad./ Kutu Pie./ Box	Kg / Kutu Kg / Box
PLCPK.100	35x21 C Kapağı / Cover	100	0,4
PLCPK.105	35x21 C Kapağı / Cover	100	0,4
PLCPK.110	35x35 C Kapağı / Cover	100	0,4
PLCPK.115	35x35 C Kapağı / Cover	100	0,4
PLGMK.6010	60x70 G Kapağı / Cover	100	2,25
PLGMK.6011	60x70 G Kapağı / Cover	100	2,25
PLGMK.6020	45x60 G Kapağı / Cover	200	2,85
PLGMK.6021	45x60 G Kapağı / Cover	200	2,85
PLGMK.6030	45x45 G Kapağı / Cover	250	2,85
PLGMK.6031	45x45 G Kapağı / Cover	250	2,85
PLGMK.6040	45x22 G Kapağı / Cover	150	1,55
PLGMK.6041	45x22 G Kapağı / Cover	150	1,55
PLGMK.6050	41x41 G Kapağı / Cover	100	1,00
PLGMK.6051	41x41 Kapağı / Cover	100	1,00
PLGMK.6060	41x21 Kapağı / Cover	100	1,00
PLGMK.6061	41x21 Kapağı / Cover	100	1,00

Rot Tapa / Ayna Tablosu Table of Corner Covers

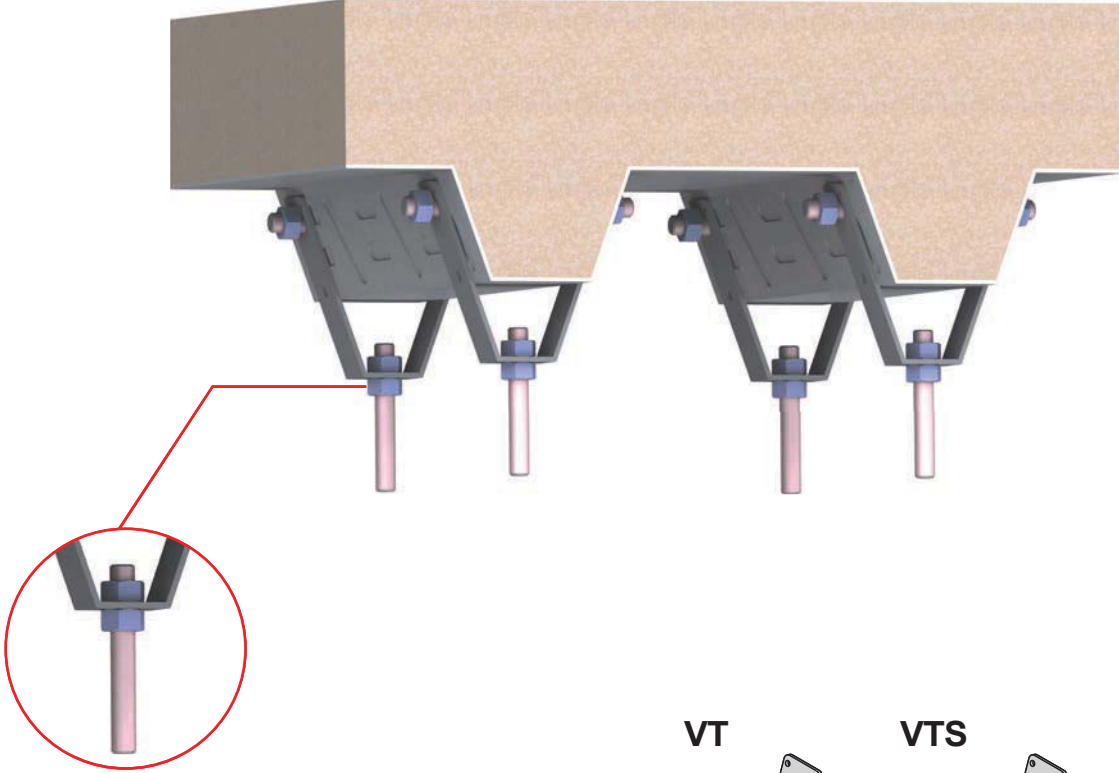
Kod Code	Ürün Adı Product Name	Ad./ Kutu Pie./ Box	Kg / Kutu Kg / Box
BE.81010	M.8 Rot Tapası / RodCap	1000	425
BE.81020	M.8 Rot Tapası / RodCap	1000	425
BE.81011	M.10 Rot Tapası / RodCap	1000	495
BE.81021	M.10 Rot Tapası / RodCap	1000	495
BE.81012	M.12 Rot Tapası / RodCap	1000	580
BE.81022	M.12 Rot Tapası / RodCap	1000	580
BE.81013	M.16 Rot Tapası / RodCap	500	470
BE.81030	M.8/M.10/M.12 Rot Aynası / Rod Cover	1000	470
BE.81040	M.8/M.10/M.12 Rot Aynası / Rod Cover	1000	495
BE.81031	M.16 Rot Aynası / Rod Cover	100	

Köşe Kapakları Tablosu Table of Corner Covers

Kod Code	Ürün Adı Product Name	Adet Quantity	Kg / Kutu Kg / Box
LK.120	20 mm Kapak / Cover	100	0,5
LK.125	25 mm Kapak / Cover	100	0,5
LK.130	30 mm Kapak / Cover	100	1,0
LK.135	35 mm Kapak / Cover	100	1,0

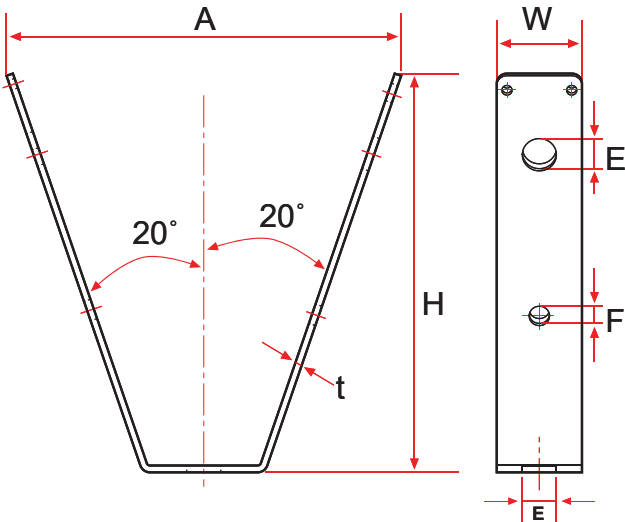
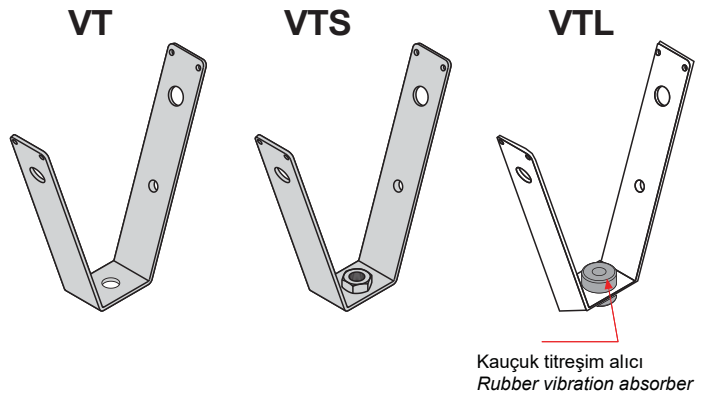
Trapez Kelepçe
Trapeze Decking Hanger

VT/VTS/VTL



Malzeme / Material : Çelik / Carbon Steel
Standart Kaplama / Standart Finish:
 Elektrogalvaniz, sıcak daldırma galvaniz
 Electro Plated or Hot-Dip Galvanized

Hizmet / Service : Trapez çatı elemanlarından askılama için tasarlanmıştır.
 Designed for attaching a hanger rod to trapeze deck.



Kod Code	H mm	A mm	E mm	F mm	t x W mm	Ad./Kutu Pie./Box mm	Kg /Kutu Kg /Box
VT.2011	90	97	11	6	2,5 x 25	50	0,10
VTS.3008	90	97	M.8	6	2,5 x 25	50	0,11
VTS.3010	90	97	M.10	6	2,5 x 25	50	0,12
VTL.4008	90	97	8	6	2,5 x 25	50	0,11
VTL.4010	90	97	11	6	2,5 x 25	50	0,11

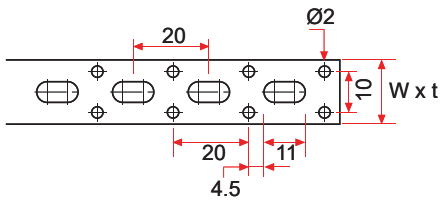
Perfore Bant Perforate Band

Malzeme / Material : Çelik / Carbon Steel
Standart Kaplama / Standart Finish:
Elektro galvaniz / Electro Galvanized

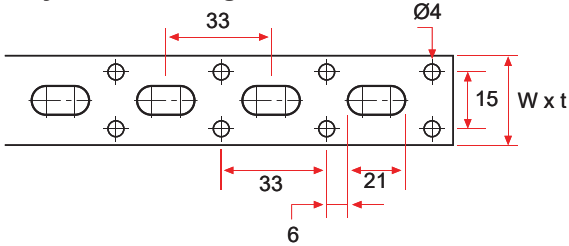
LBP

Kod Code	Tip Type	W x t mm
LBP.5413-120	LBP-2	25 x 0,8

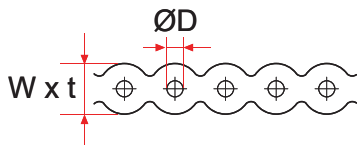
Dizayn Yüğü / Design Load: 0,50 kN



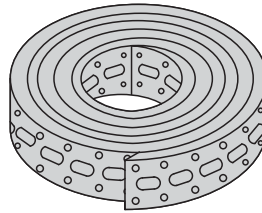
Dizayn Yüğü / Design Load: 0,75 kN



Kod Code	Tip Type	W x t mm	ØD mm	Dizayn Yüğü Design Load kN
LABP.5413-140	LABP-1	12 x 0,8	5	0,50
LABP.5413-141	LABP-2	17 x 0,8	7	0,75
LABP.5413-142	LABP-3	26 x 1,0	8	1,00



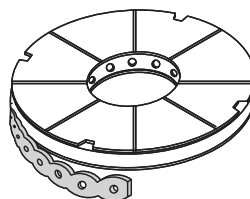
LBP



LABP



LABP



Pimli Dübel / Drop in Anchor

LC

Çatlaklı ve çatlaksız betonlarda yüksek performans ETA tarafından onaylanmıştır. Ürün yangına dayanıklılık gerektiren uygulamalar için önerilir.

Rot veya civata ile birlikte kullanılabilir. Çekiç ile kolay montaj sağlanır. Oluklu manşon ve iç kama bileşenleri montajı kolaylaştırır.

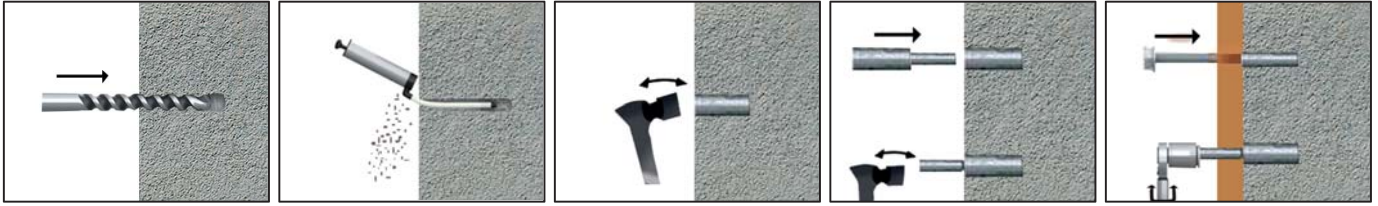
High performance in cracked and non-cracked concrete confirmed by ETA.

Product recommended for applications requiring fire resistance. Internally threaded to be used with threaded rod bolt.

Easy to install by hammer action.

Slotted sleeve and internal drop in component together facilitate easy setting and expansion.

Ölçü Size	Ürün Kodu Product Code	Dübel / Anchor				Fikstür / Fixture
		Çap Dia d mm	Dış Çap Outer Dia d _{nom} mm	Dış Boyu Thread Diameter l _g mm	Uzunluk Length L (mm)	Delik Çapı Hole Dia. df _{mm}
M8	LC-08-30	8	10	13	30	9
M10	LC-10-40	10	12	15	40	12
M12	LC-12-50	12	15	20	50	14
M16	LC-16-65	16	20	25	65	18

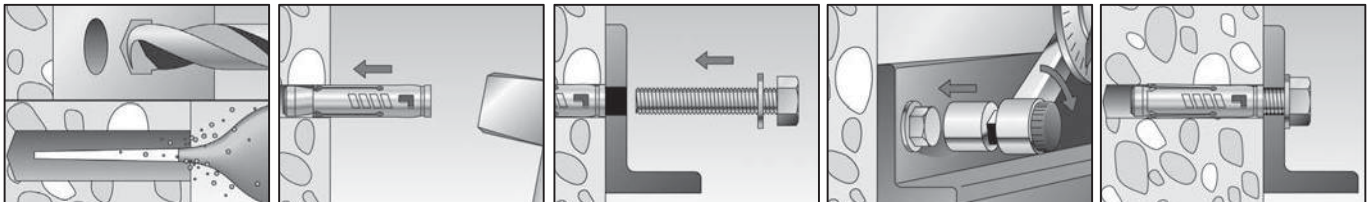
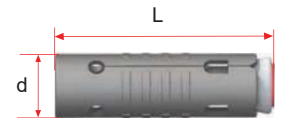
Çekmeli Dübel (Rot ve Civata Tipi)
Anchor (Rod and Screw Type)

Delikli her çeşit yüzeyler, beton, gaz beton, ahşap yüzeylere uygulanabilen bağlantı elemanıdır.

Connection materials applicable to all kind punched surfaces, concrete, ytong and wood surfaces.

LSC

Kod Code	Model	Çap Dia d mm	Matkap Çapı Drill Radius D mm	Stand. Rot Uzunluğu Stand. Rod Length L mm	Dizayn Yüğü Design Load kN	Önerilen Çekme Yüğü Recommended Tensile Load kN	Önerilen Kesme Yüğü Recommended Shear Load kN
LSC.5176	Rod	M.6	10	M.6	10,00	4,0	3,1
LSC.5177	Tip	M.8	12	M.8	12,00	6,0	6,3
LSC.5178	Rod	M.10	16	M.10	16,90	9,2	9,2
LSC.5179	Type	M.12	18	M.12	26,00	12,1	13,4



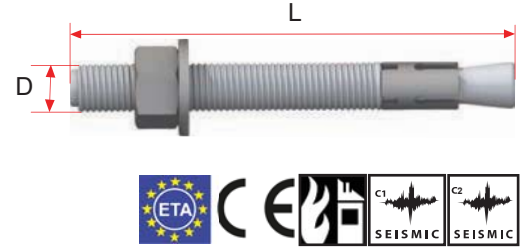
Klipsli Sismik Dübel Seismic Throughbolt

LTS

Çatlaklı ve çatlaksız betonlarda yüksek performans ETA Option 1 tarafından onaylanmıştır. Sismik yükleme altında C1, C2 performans kategorileri için kullanılabilirliği onaylanmıştır. Ürün yangına dayanıklılık gerektiren uygulamalar için önerilir. Rod veya civata ile birlikte kullanılabilir. Çekiç ile kolay montaj. Oluklu manşon ve iç kama bileşenleri montajı kolaylaştırır.

High performance in cracked and non-cracked concrete confirmed by ETA Option 1. Approved for use under seismic loading performance categories C1, C2. Product recommended for applications requiring fire resistance. Internally threaded to be used with threaded stud or bolt. Easy to install by hammer action. Slotted sleeve and internal wedge component together facilitate easy setting and expansion.

Ölçü Size	Ürün Kodu Product Code	Dübel / Anchor		Fikstür / Fixture		Delik Çapı Hole Dia d_f (mm)
		Çap Dia d (mm)	Uzunluk Lenght L mm	Max. Kalınlık Max. Thickness for tfix $h_{nom,r}$ (mm) $h_{nom,s}$ (mm)		
M8	LTS-08080/15	8	80	30	15	9
M10	LTS-10080/20	10	80	20	-	11
	LTS-10115/35		115	55	35	
M12	LTS-12120/25	12	120	45	25	13
M16	LTS-16140/20	16	140	40	20	18



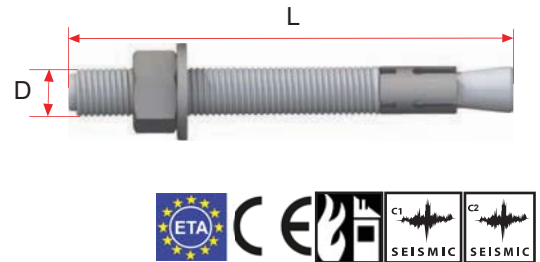
Klipsli Dübel Throughbolt

LT

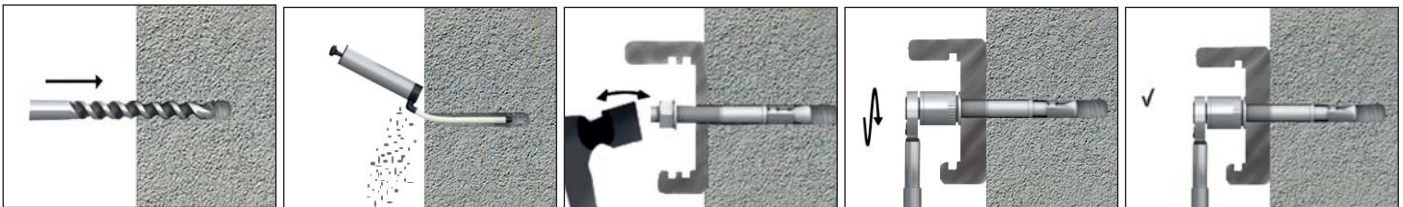
Çatlaklı ve çatlaksız betonlarda yüksek performans ETA Option 7 tarafından onaylanmıştır. Maliyet etkinliği ile yüksek kalite. Ankraj derinliği işaretlemeleri, dübelin kusursuz bir şekilde kurulum sağlamasına yardımcı olur. Tasarım, doğrudan fikstür boyunda delinmesine ve kurulmasına izin vererek kurulum gücünü azaltmaya yardımcı olur. Soğuk şekillendirilmiş gövde, boyutsal doğruluk sağlar. Kolay kurulum.

High performance in non-cracked concrete confirmed by ETA Option 7. High quality with cost effectiveness. Embedment depth markings help to ensure precise installation of the anchor. Design allows drilling and installing directly through the fixture and helps to reduce installation effort. Cold formed body ensures consistent dimensional accuracy. Simple through-installation.

Ölçü Size	Ürün Kodu Product Code	Dübel / Anchor		Fikstür / Fixture		Delik Çapı Hole Dia d_f (mm)
		Çap Dia d (mm)	Uzunluk Lenght L mm	Max. Kalınlık Max. Thickness for tfix $h_{nom,r}$ (mm) $h_{nom,s}$ (mm)		
M8	LT-08080/15	8	80	30	15	9
M10	LT-10115/45	10	80	55	45	11
			115	45	25	
M12	LT-12120/25	12	120	45	25	13



LT, LTS Uygulama Adımları / Installation Guide

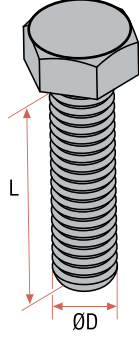


Altı Köşe Civata
Hexagon Head Bolt

CC

Malzeme / Material : Çelik / Steel
Standart Kaplama / Standart Finish:
Elektro Galvaniz / Zinc Plated

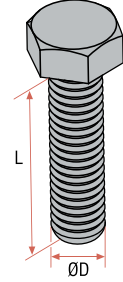
Kod Code	Civata Ölçüsü Bolt Size DxL mm
CC.800825	M.8 x 25
CC.800850	M.8 x 50
CC.801025	M.10 x 25
CC.801035	M.10 x 35
CC.801050	M.10 x 50
CC.801225	M.12 x 25
CC.801235	M.12 x 35
CC.801250	M.12 x 50
CC.801635	M.16 x 35
CC.801650	M.16 x 50
CC.801670	M.16 x 70
CC.802040	M.20 x 40

**DIN 933**
ISO 4017**Malzeme Özellik Sınıfları**
Material Class:
8.8**Altı Köşe Civata**
Hexagon Head Bolt

EPSS

Malzeme / Material : Çelik / Steel
Standart Kaplama / Standart Finish :
Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

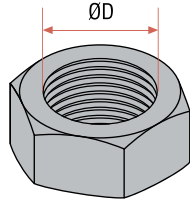
Kod Code	Civata Ölçüsü Bolt Size D x L mm
EPSS.21214	M.12 x 140
EPSS.21217	M.12 x 170
EPSS.22016	M.20 x 160
EPSS.22024	M.20 x 240

**DIN 933**
ISO 4017**Malzeme Özellik Sınıfları**
Material Class:
8.8**Altı Köşe Somun**
Hexagon Head Nut

CS

Malzeme / Material : Çelik / Steel
Standart Kaplama / Standart Finish:
Elektro Galvaniz / Zinc Plated

Kod Code	Somun Ölçüsü / Nut Size D mm
CS.8808	M.8
CS.8810	M.10
CS.8812	M.12
CS.8816	M.16
CS.8820	M.20

**DIN 934****Malzeme Özellik Sınıfları**
Material Class:
8**Altı Köşe Flanşlı Somun**
Hexagonal Flange Nut

EPCS

Malzeme / Material : Çelik / Steel
Standart Kaplama / Standart Finish
Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

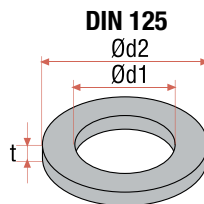
Kod Code	Somun Ölçüsü / Nut Size D mm
EPCS.0212	M.12
EPCS.0220	M.20

**DIN 6923****Düz Pul**
Flat Washer

PR

Malzeme / Material : Çelik / Steel
Standart Kaplama / Standart Finish
Sıcak Daldırma Galvaniz / Hot-Dip Galvanized

Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	tmin mm
PR.0212	M.12	13.0	24.0	2.3
PR.0220	M.20	21.0	37.0	2.7

**DIN 125**

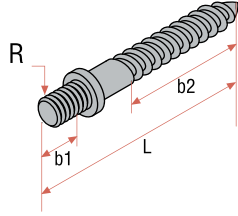
Çeşitli Dişli Bağlantı Elemanları Various Other Connection & Threaded Accessories

Malzeme / Material : Çelik / Steel

Standart Kaplama / Standart Finish / Elektro Galvaniz / Zinc Plated

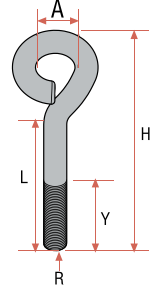
BEL1 Trifon / Threaded Lag Screw

Kod Code	Rot Ölçüsü Rod Size R x L mm	b1 mm	b2 mm
BEL1.5106	M.8 x 50	15	30
BEL1.5107	M.8 x 65	15	45
BEL1.5108	M.10 x 80	20	50



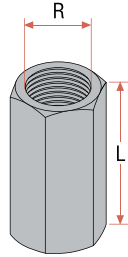
BEL2 Göz Rot-2 / Linked Eye Rod-2

Kod Code	A mm	Rot Ölçüsü Rod Size R	L mm	Y mm	H mm
BEL2.5410	30	M.8	160	100	200
BEL2.5411	40	M.10	210	100	250
BEL2.5412	50	M.12	240	100	300
BEL2.5413	50	M.16	290	100	350



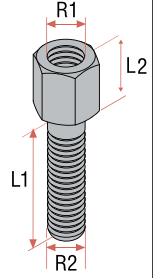
BEL3 Uzatma Manşonu / Steel Rod Coupling

Kod Code	R	L mm	Dizayn Yüğü Design Load kN
BEL3.5108	M.8	30	1,33
BEL3.5110	M.10	30	2,11
BEL3.5112	M.12	30	3,25
BEL3.5116	M.16	30	6,00
BEL3.5120	M.20	30	9,61
BEL3.5124	M.24	30	14,37



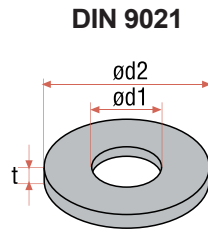
CSY Adaptör Cıvata / Adaptor Bolt

Kod Code	R1 x R2	L1 mm	L2 mm
CSY.8320	M.8 x M.8	20	40
CSY.8321	M.8 x M.10	20	40
CSY.8322	M.10 x M.8	20	40
CSY.8323	M.10 x M.10	20	40
CSY.8324	M.10 x M.12	20	40
CSY.8325	M.12 x M.8	25	40
CSY.8326	M.12 x M.10	25	40
CSY.8327	M.12 x M.12	25	40



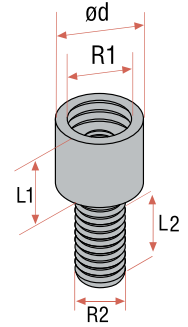
PRG Geniş Düz Pul / Large Size Washer

Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	t mm
PRG.8808	M.8	8,4	24,0	2,5
PRG.8810	M.10	10,5	30,0	3,0
PRG.8812	M.12	13,0	37,0	3,0
PRG.8816	M.16	17,0	50,0	4,0



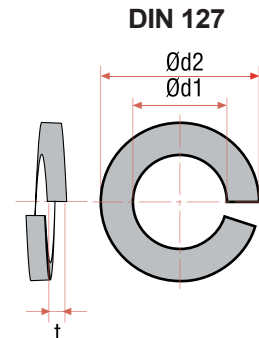
CSY1 Adaptör Cıvata / Adaptor Bolt

Kod Code	R1 x R2	Ød mm	L1 mm	Ød2 mm
CSY1.8347	M.8 x M.10	15	30	40
CSY1.8348	M.10 x M.12	18	30	40
CSY1.8349	M.12 x M.16	20	40	40
CSY1.8350	M.16 x M.20	27	40	40



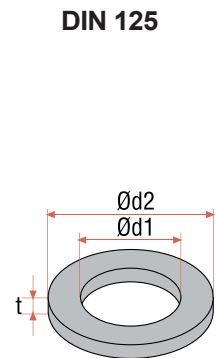
PRY Yaylı Rondela / Spring Lock Washer

Kod Code	Anma Çapı Thread Size mm	D1 mm	D2 mm	t mm
PRY.8808	M.8	8,5	14,8	1,9
PRY.8810	M.10	10,5	18,1	2,1
PRY.8812	M.12	12,5	21,1	2,4
PRY.8816	M.16	16,5	27,4	3,3
PRY.8820	M.20	20,5	33,6	3,8



PR Düz Pul / Flat Washer

Kod Code	Anma Çapı Thread Size mm	Ød1 mm	Ød2 mm	t mm
PR.8808	M.8	8,4	16,0	1,4
PR.8810	M.10	10,5	20,0	1,8
PR.8812	M.12	13,0	24,0	2,3
PR.8816	M.16	17,0	30,0	2,7
PR.8820	M.20	21,0	37,0	2,7



CR

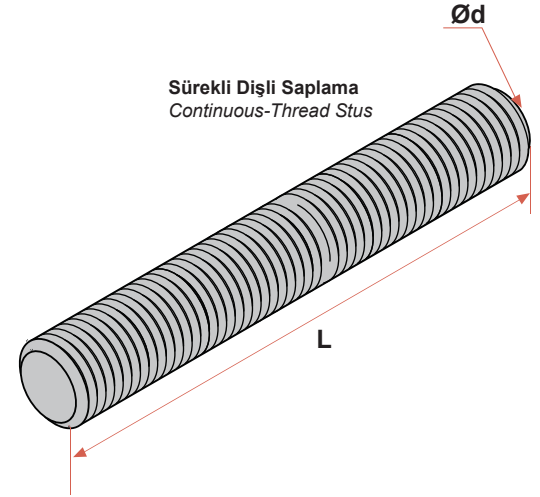
Kod Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yükü Design Load kN
CR.060060	M.6 x 60	2000	22,40	4,56
CR.060080	M.6 x 80	2000	29,80	4,56
CR.080035	M.8 x 35	2000	24,20	8,15
CR.080055	M.8 x 55	1200	22,80	8,15
CR.080100	M.8 x 100	600	20,82	8,15
CR.100035	M.10 x 35	1600	37,28	12,87
CR.100055	M.10 x 55	800	24,48	12,87
CR.100100	M.10 x 100	400	22,24	12,87
CR.120080	M.12 x 80	300	19,20	18,55
CR.120100	M.12 x 100	300	24,00	18,55
CR.120140	M.12 x 140	300	33,60	18,55
CR.140100	M.14 x 100	50	5,50	25,41
CR.140140	M.14 x 140	50	7,70	25,41
CR.160100	M.16 x 100	50	7,25	33,34
CR.160140	M.16 x 140	50	10,10	33,34
CR.160200	M.16 x 200	50	14,50	33,34
CR.180140	M.18 x 140	20	5,40	42,35
CR.180200	M.18 x 200	20	7,50	42,35
CR.200150	M.20 x 150	20	6,80	52,12
CR.200200	M.20 x 200	20	9,00	52,12

Dişli Askı Rotları Thread Hanging Rods

Malzeme / Material : Çelik / Steel

Standart Kaplama / Standart Finish Grade

Elektro Galvaniz / Zinc Plated



CR

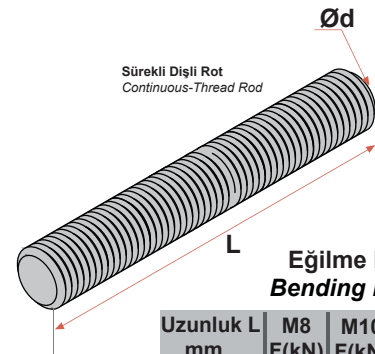
Kod Code	Saplama Ölçüsü Stud Size D x L mm	Ambalaj Adedi Package Quantity	Ambalaj Ağırlığı Package Weight kg	Dizayn Yükü Design Load kN
CR.061000	M.6 x 1000	100	18,70	4,56
CR.062000	M.6 x 2000	100	37,40	4,56
CR.081000	M.8 x 1000	50	17,35	8,15
CR.082000	M.8 x 2000	25	17,35	8,15
CR.101000	M.10 x 1000	25	13,90	12,87
CR.102000	M.10 x 2000	20	22,8	12,87
CR.121000	M.12 x 1000	25	20,00	18,55
CR.122000	M.12 x 2000	15	24,00	18,55
CR.141000	M.14 x 1000	20	22,00	25,41
CR.142000	M.14 x 2000	20	44,00	25,41
CR.161000	M.16 x 1000	10	14,50	33,34
CR.162000	M.16 x 2000	10	29,00	33,34
CR.181000	M.18 x 1000	10	18,50	42,35
CR.182000	M.18 x 2000	10	37,00	42,35
CR.201000	M.20 x 1000	5	11,25	52,12
CR.202000	M.20 x 2000	5	22,50	52,12
CR.221000	M.22 x 1000	5	13,30	63,25
CR.222000	M.22 x 2000	5	26,60	63,25
CR.241000	M.24 x 1000	5	16,30	75,46
CR.242000	M.24 x 2000	5	32,60	75,46
CR.271000	M.27 x 1000	5	21,50	95,79
CR.272000	M.27 x 2000	5	43,00	95,79
CR.301000	M.30 x 1000	5	26,50	118,54
CR.302000	M.30 x 2000	5	53,00	118,54
CR.361000	M.36 x 1000	5	39,50	170,74
CR.362000	M.36 x 2000	5	79,00	170,74
CR.421000	M.42 x 1000	5	48,50	233,11
CR.422000	M.42 x 2000	5	97,00	233,11

Malzeme / Material : Çelik / Steel

Malzeme Özellik Sınıfları / Material Class: 4.6

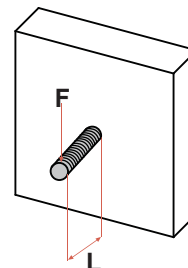
Standart Kaplama / Standart Finish Grade

Elektro Galvaniz / Zinc Plated



Eğilme Dizayn Yükü Bending Design Load (*)

Uzunluk L mm	M8 F(kN)	M10 F(kN)	M12 F(kN)	M16 F(kN)
50	0,10	0,20	0,34	0,87
100	0,04	0,10	0,17	0,43
150	0,02	0,05	0,11	0,29
200	0,01	0,08	0,06	0,21
250		0,02	0,04	0,15
300		0,01	0,03	0,09
350			0,02	0,07
400			0,01	0,05

(*)Emniyet Faktörü/Safety Factor: 1.5
Max. Sehim / Max. Deflection f=L/150



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