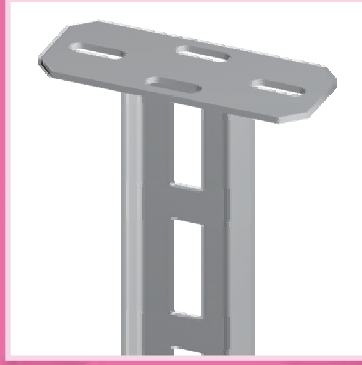
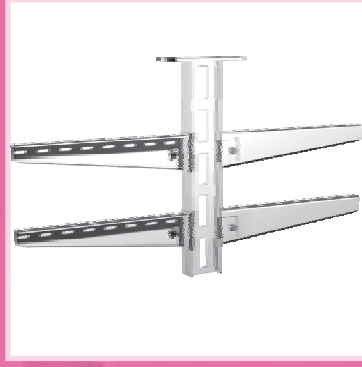
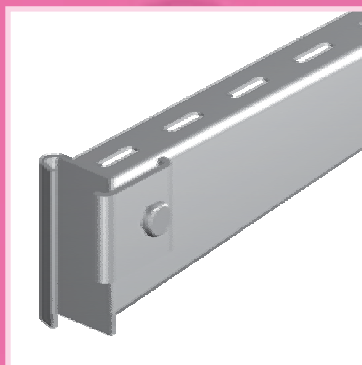
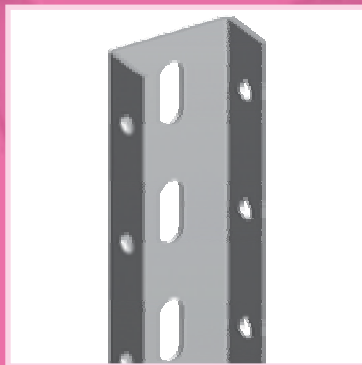




Destek Sistemleri



Support Systems



SUPPORTS, HEAD PLATES, FIXING MATERIALS AND BRACKETS
DESTEKLER, TAVAN BAŞLIKLARI, MONTAJ MALZEMELERİ VE KONSOLLAR

I Supports & I Hanging Supports 4S 1 - 4S 2 S 2 - 5
I Destekler - I Tavan Destekleri

I Supports for wall 4S 3 S 6 - 7
I Destekler, duvar için

Head Plates for I Supports 4S 5 S 9
I Destekler için tavan başlıkları

T Supports & T Hanging Supports 4S 6 - 4S 7 S 10 - 13
T Destekler - T Tavan Destekleri

Head Plates for T Supports 4S 8 S 14
T Destekler için tavan başlıkları

Support Bar 4S 9 S 15
Askı şeridi

U Supports & Brackets 4S 10 - 4S 11 - 4B 6 S 16 - 18

L Supports & Accessories 4S 12 S 19 - 20
L Destekler ve Aksesuarları

Threaded Rod & Accessories 4S 13 - 4F 3 S 21 - 22
Askı Tiji ve Aksesuarları

Fixing Materials 4F 1 - 4F 5 S 23 - 28
Montaj Elemanları

Ceiling fixing piece 4F 6 S 29
Tavan tespit elemanı

BRACKETS
KONSOLLAR

Brackets for I & T Supports 4B 1 - 4B 2 S 30 - 32
I ve T Destek Konsolları

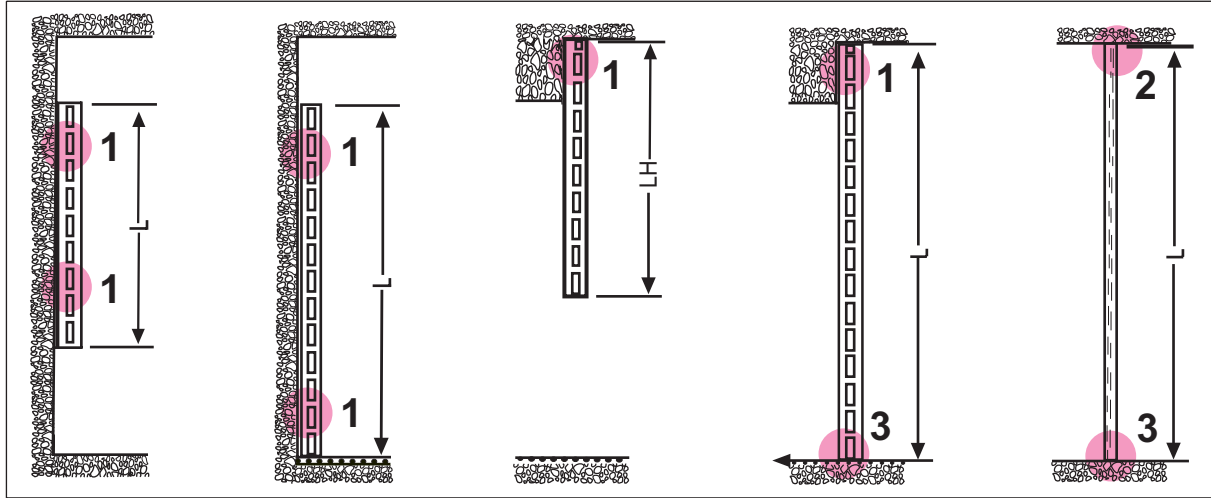
Brackets for wall 4B 3 - 4B 4 S 33 - 34
Duvar Konsolları

Brackets for wall & floor 4B 5 S 35
Kanalı Zeminden Yükseltme Konsolu

I Supports
I Destekler

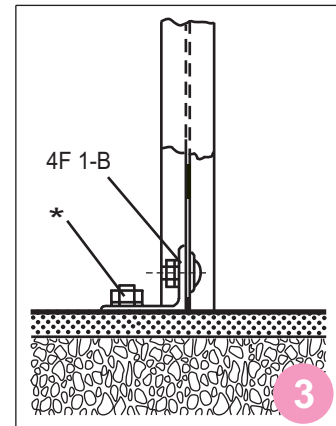
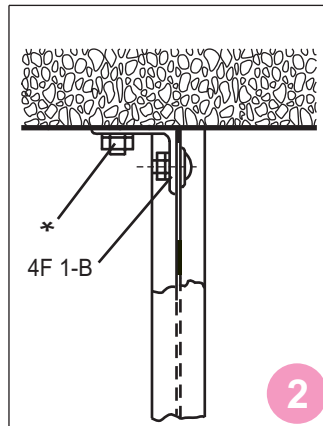
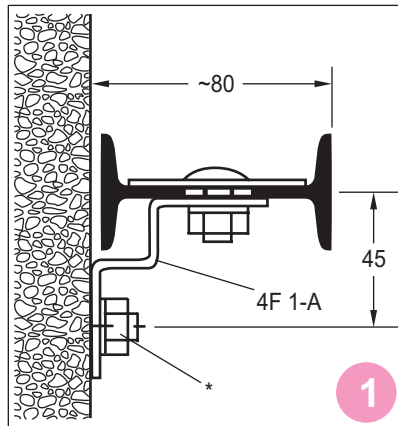
Application & Fixing Details
Uygulama ve Montaj Detayları

Application Examples
Uygulama Örnekleri



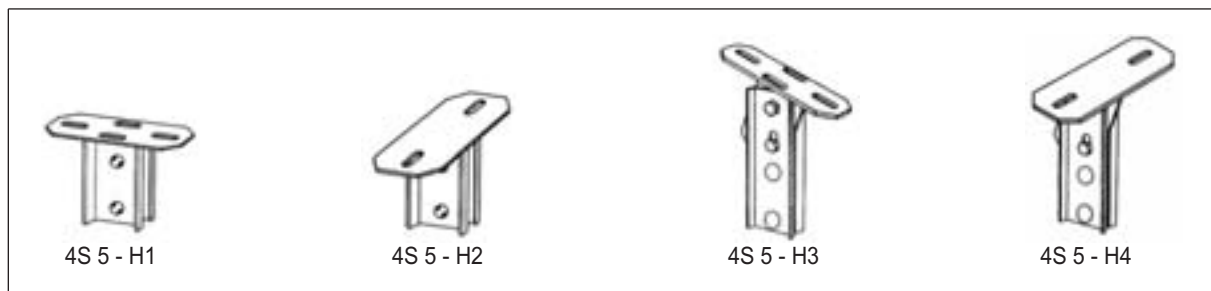
Max. load as hanging support LH with two-sided load = 720 kg LH = max. 2000 mm
Çift taraflı yük ile askı desteğinin taşıyacağı max. yük = 720 kg LH = max. 2000 mm

Examples of fixing
Montaj Örnekleri

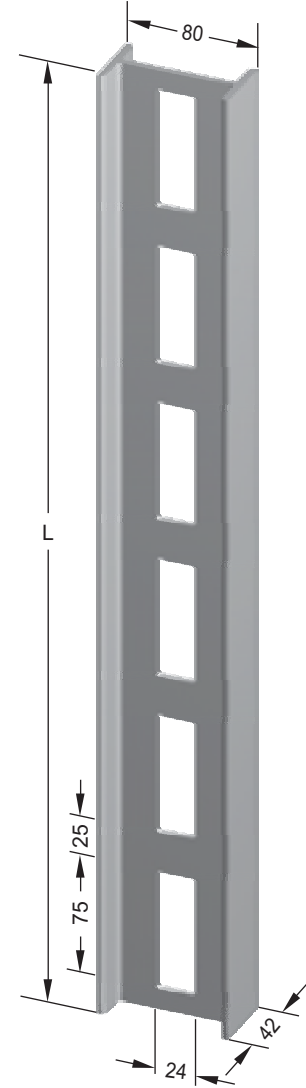


* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Head plates
Tavan başlıkları



Order No Sipariş No	L (mm)	Weight appr. Ağırlık (kg.)
4S 1 - 200	200	1.200
4S 1 - 300	300	1.800
4S 1 - 400	400	2.400
4S 1 - 500	500	3.000
4S 1 - 600	600	3.600
4S 1 - 700	700	4.200
4S 1 - 800	800	4.800
4S 1 - 900	900	5.400
4S 1 - 1000	1000	6.000
4S 1 - 1100	1100	6.600
4S 1 - 1200	1200	7.200
4S 1 - 1300	1300	7.800
4S 1 - 1400	1400	8.400
4S 1 - 1500	1500	9.000
4S 1 - 1600	1600	9.600
4S 1 - 1700	1700	10.200
4S 1 - 1800	1800	10.800
4S 1 - 1900	1900	11.400
4S 1 - 2000	2000	12.000
4S 1 - 6000	6000	36.000



**I supports hot dip galvanized after fabrication acc. to
EN ISO 1461 of hot rolled profile I 80.
Used as wall, hanging or other support.
Available in lengths up to 6000 mm.**

Sıcak çekme profilden mamül I 80 destekler, imalattan sonra
TS 914'e uygun sıcak daldırma galvaniz kaplanır.
I destekler 6000 mm uzunluğa kadar olup duvar, tavan veya
diğer şekillerde kullanılabilir.

I supports with special lengths are also available.
Özel boylarda I destek imalatı mümkündür.

Accessories :

Aksesuarlar :

Head Plates

Tavan Başlıkları

Brackets

Konsollar

Jointing material

Birleştirme Elemanı

Fixing material

Montaj Elemanı

Page :

Sayfa :

S 9

S 31

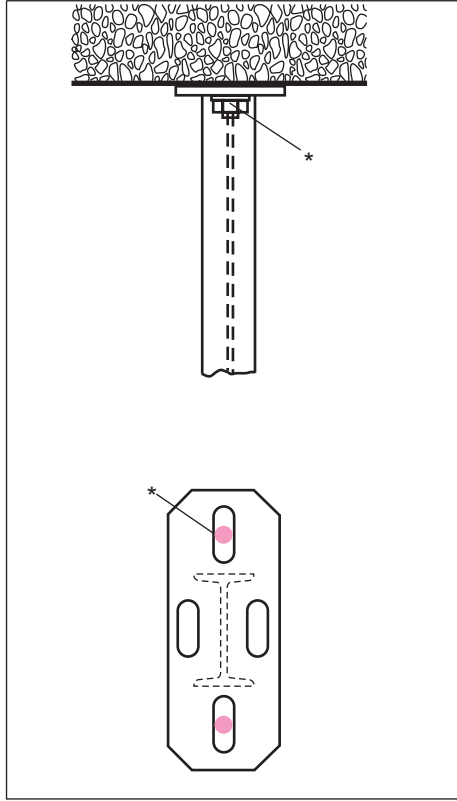
S 25

S 23

I Hanging supports
I Tavan destekleri

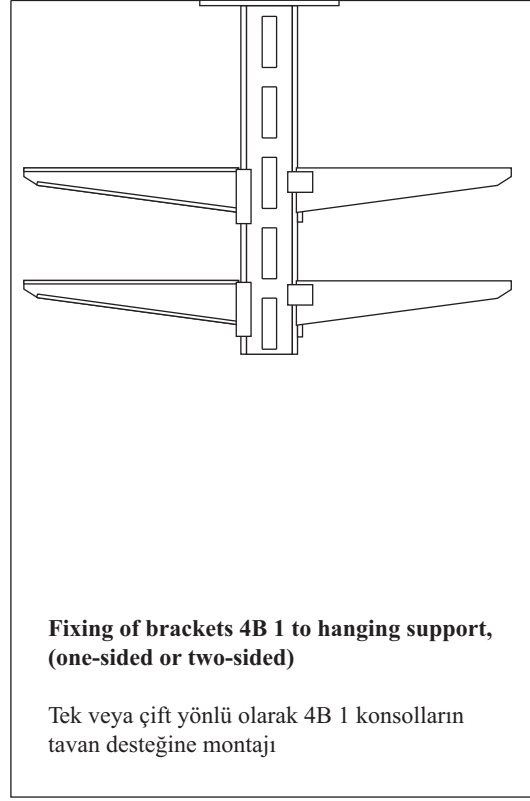
Application & Fixing Details
Uygulama ve Montaj Detayları

Application examples
Uygulama örnekleri



* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Examples of fixing
Montaj örnekleri

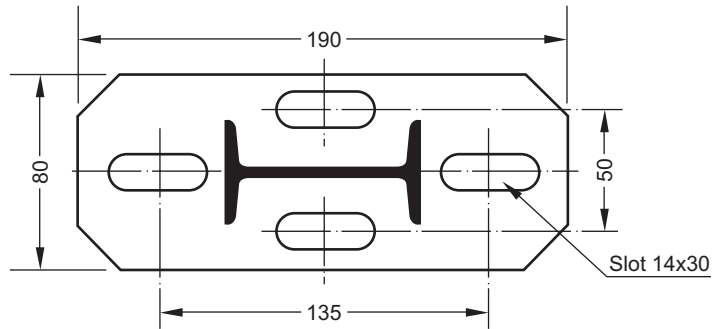
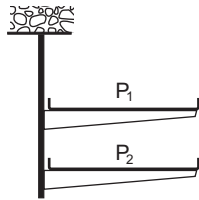


**Fixing of brackets 4B 1 to hanging support,
(one-sided or two-sided)**

Tek veya çift yönlü olarak 4B 1 konsolların
tavan desteğine montajı

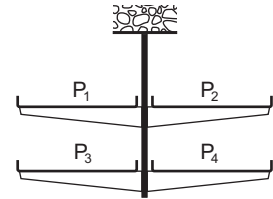
Permissible load of supports
Desteklerin taşıyabileceği yük

One sided fixing
Tek yönlü montaj



Lenght of bracket L Konsol Boyu L (mm)	Total Load P Toplam Yük P (kg)
100	440
200	350
300	285
400	245
500	205
600	155

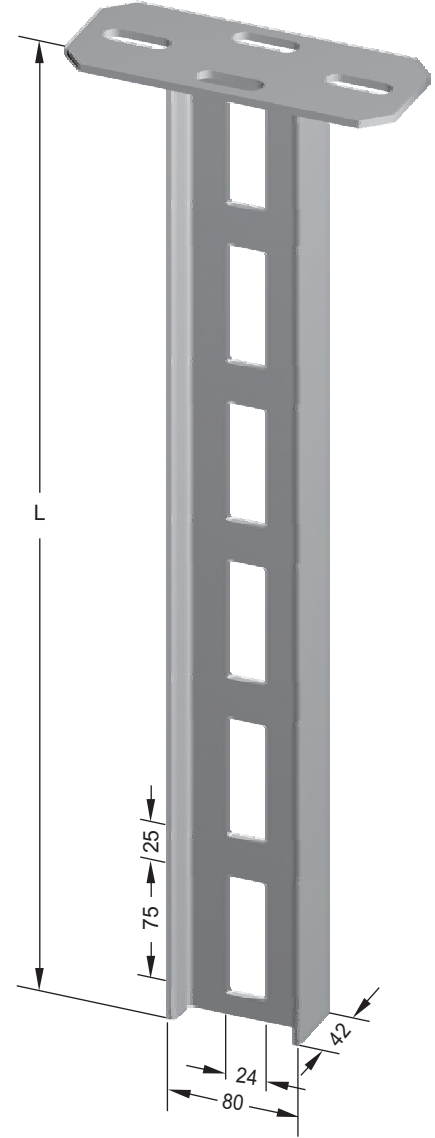
Two sided fixing
Çift yönlü montaj



Load P evenly distributed on both sides, $\sum M = 0$
Yük her iki tarafa eşit dağıtılsa, $\sum M = 0$

Total load P- Toplam yük P = 1000 kg

Order No Sipariş No	L (mm)	Weight appr. Ağırlık (kg.)
4S 2 - 200	200	1.800
4S 2 - 300	300	2.400
4S 2 - 400	400	3.000
4S 2 - 500	500	3.600
4S 2 - 600	600	4.200
4S 2 - 700	700	4.800
4S 2 - 800	800	5.400
4S 2 - 900	900	6.000
4S 2 - 1000	1000	6.600
4S 2 - 1100	1100	7.200
4S 2 - 1200	1200	7.800
4S 2 - 1300	1300	8.400
4S 2 - 1400	1400	9.000
4S 2 - 1500	1500	9.600
4S 2 - 1600	1600	10.200
4S 2 - 1700	1700	10.800
4S 2 - 1800	1800	11.400
4S 2 - 1900	1900	12.000
4S 2 - 2000	2000	12.600



**I supports hot dip galvanized after fabrication acc. to
EN ISO 1461 of hot rolled profile I 80 for fixing to ceiling or floor.**

Sıcak çekme profilden mamül I 80 destekler, imalattan sonra
TS 914'e uygun sıcak daldırma galvaniz kaplanır. Tavan
ve zemin montajında kullanılır.

Hanging supports with special lenghts are also available.
Özel boylarda tavan destek imalatı mümkündür.

Accessories : **Page :**

Aksesuarlar : Sayfa :

Brackets **S 31**

Konsollar

Fixing material **S 23**

Montaj Elemanı

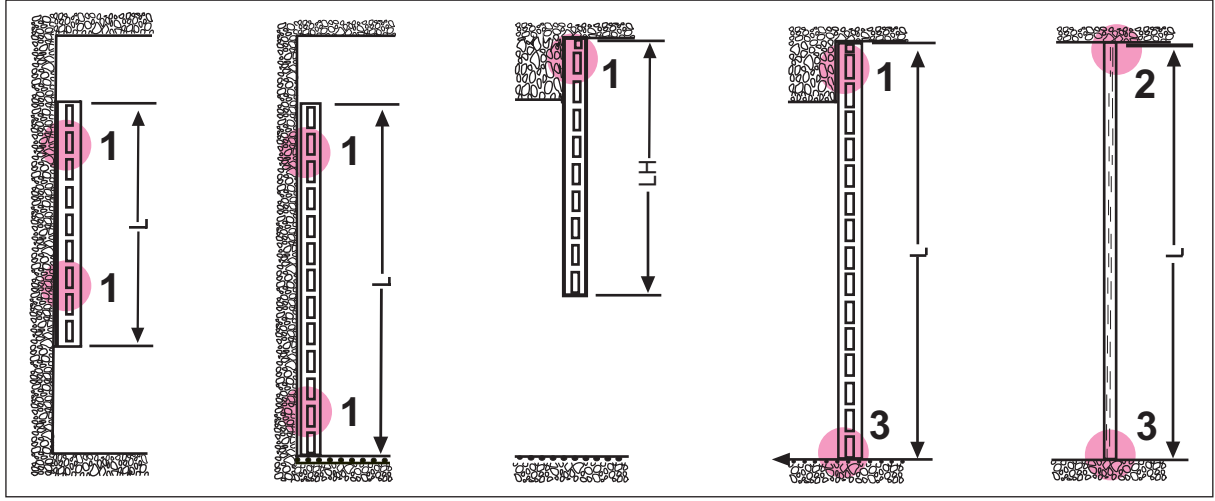
Jointing material **S 25**

Birleştirme Elemanı

I Supports
I Destekler

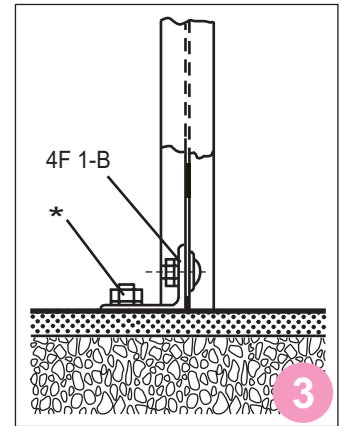
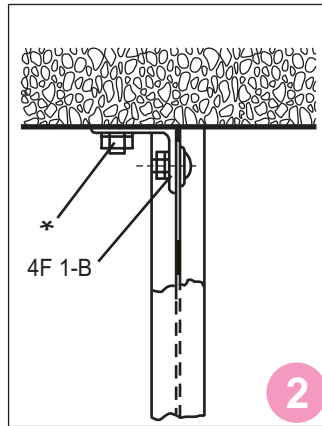
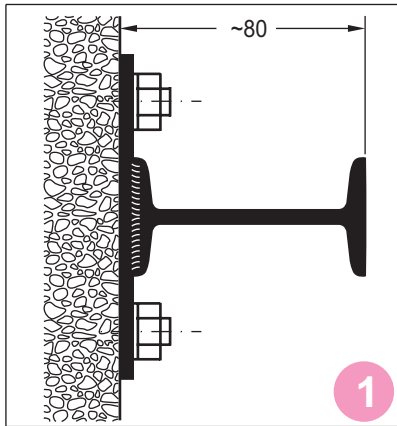
Application & Fixing Details
Uygulama ve Montaj Detayları

Application Examples
Uygulama Örnekleri



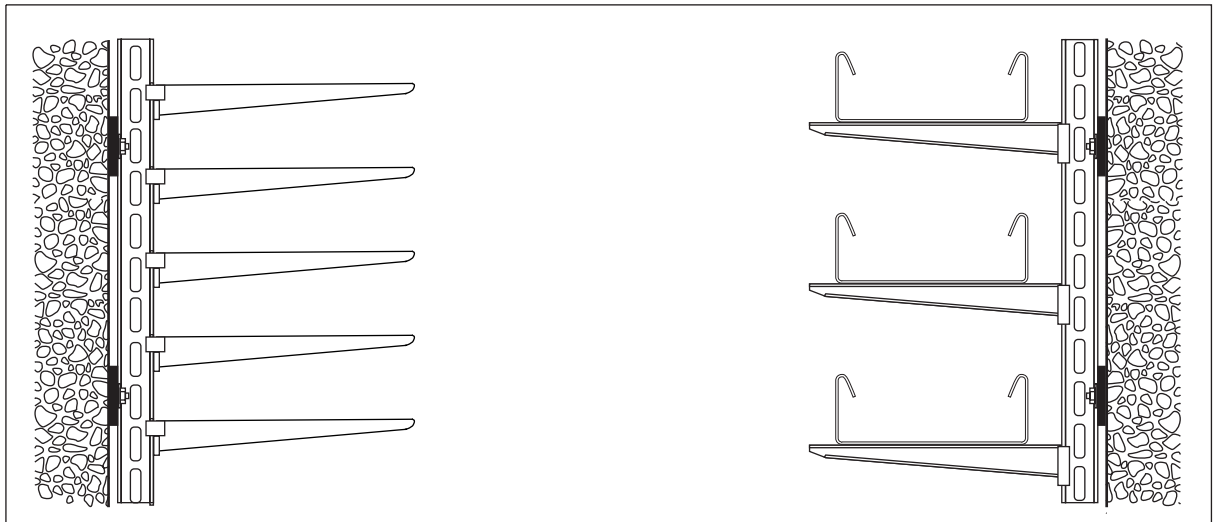
Max. load as hanging support LH with two-sided load = 720 kg LH = max. 2000 mm
Çift taraflı yük ile askı desteğinin taşıyacağı max. yük = 720 kg LH = max. 2000 mm

Examples of fixing
Montaj Örnekleri

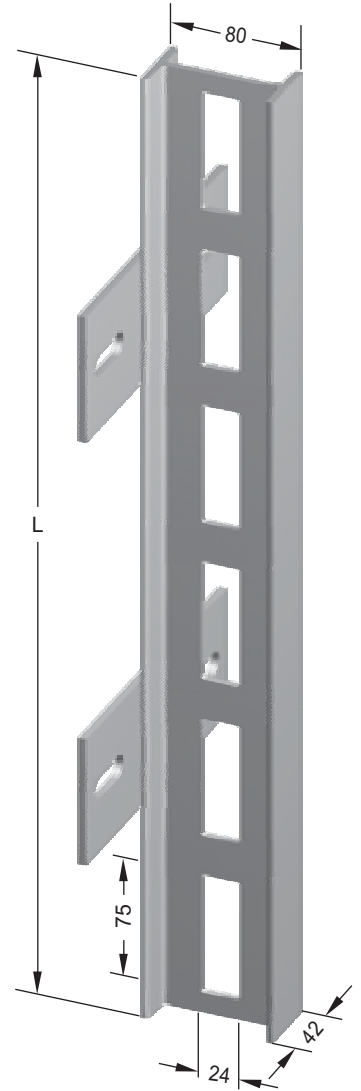


* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Application Examples
Uygulama Örnekleri



Order No Sipariş No	L (mm)	Weight appr. kg Ağırlık (kg.)	No of plates plaka sayısı
4S 3 - 200	200	1.600	1
4S 3 - 300	300	2.200	
4S 3 - 400	400	3.200	2
4S 3 - 500	500	3.800	
4S 3 - 600	600	4.400	
4S 3 - 700	700	5.000	
4S 3 - 800	800	5.600	
4S 3 - 900	900	6.200	
4S 3 - 1000	1000	6.800	
4S 3 - 1100	1100	7.800	3
4S 3 - 1200	1200	8.400	
4S 3 - 1300	1300	9.000	
4S 3 - 1400	1400	9.600	
4S 3 - 1500	1500	10.200	
4S 3 - 1600	1600	10.800	
4S 3 - 1700	1700	11.400	
4S 3 - 1800	1800	12.000	
4S 3 - 1900	1900	12.600	
4S 3 - 2000	2000	13.200	



I Supports hot dip galvanized after fabrication acc.to EN ISO 1461.

Used as wall hanging or other support.

Available in lengths up to 2000 mm.

I Destekler imalattan sonra TS 914'e uygun sıcak daldırma galvaniz kaplanır.

I Destekler 2000 mm. uzunluğa kadar olup, duvar, tavan veya diğer şekillerde kullanılabilir.

I Supports with special lengths are also available.

Özel boylarda I destek imalatı mümkündür.

Plate thickness: 4 mm

Sac kalınlığı : 4 mm

Accessories :

Aksesuarları :

Head Plates

Tavan Başlıkları

Brackets

Konsollar

Jointing material

Birleştirme Elemanı

Fixing material

Montaj Elemanı

Page :

Sayfa :

S 9

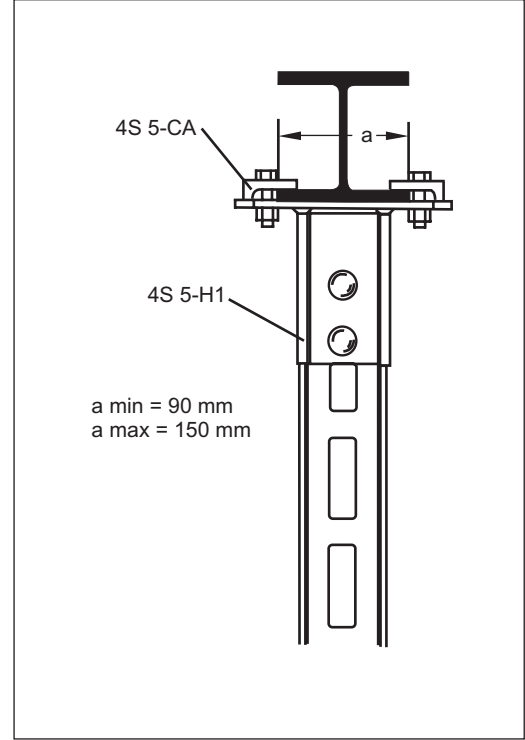
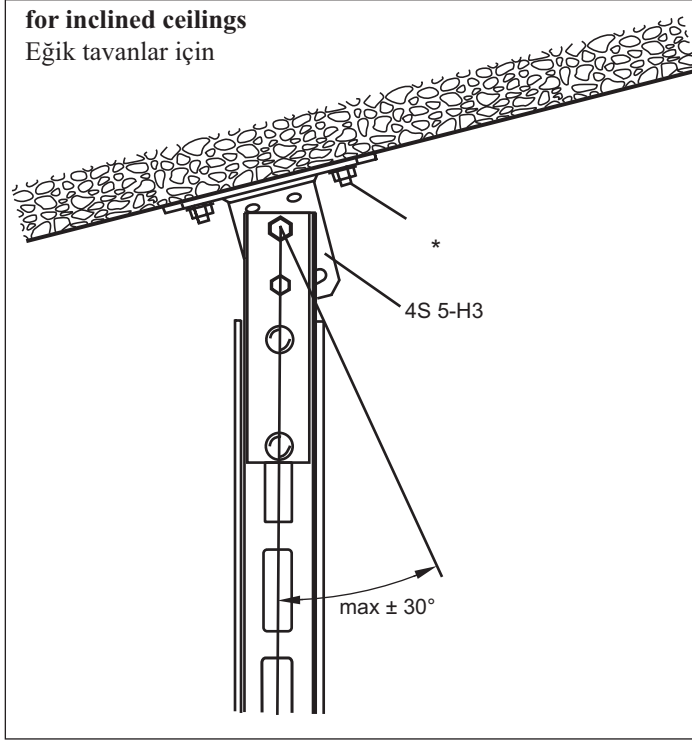
S 31

S 25

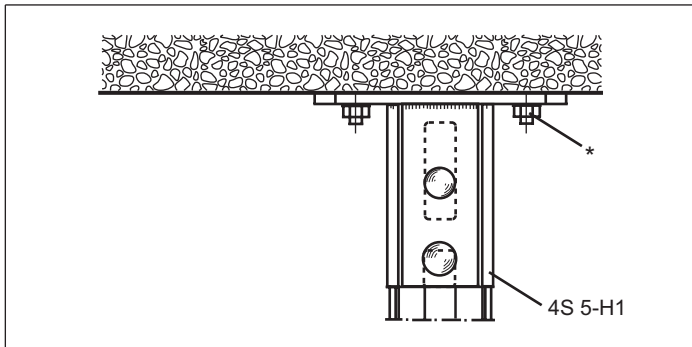
S 23

Head Plates for I Supports I destekler için tavan başlıkları

Application & Fixing Details Uygulama ve Montaj Detayları



Max. load of hanging support 720 kg. with two sided load.
Çift taraflı konsolla max. yük taşıma kapasitesi= 720 kg.



* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Head Plates for I supports

I destekler için tavan başlıkları

Head plates for I supports hot dip galvanized after fabrication acc.to EN ISO 1461.
For fixing to horizontal and inclined ceilings for supports up to 2000 mm. lenght.

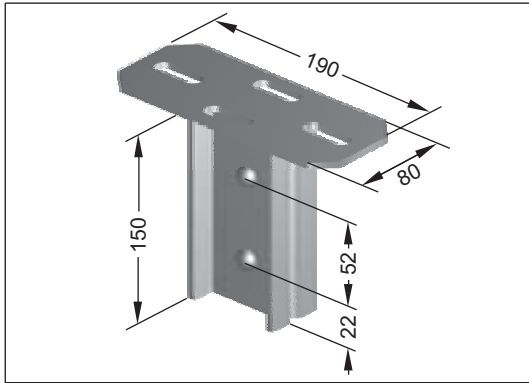
I tavan başlıkları imalattan sonra TS 914'e uygun sıcak daldırma galvaniz kaplanır.
2000 mm. boya kadar desteklerle birlikte yatay ve eğik tavanlarda kullanılır.

For electric welding, not galvanized, anti-corrosive paint

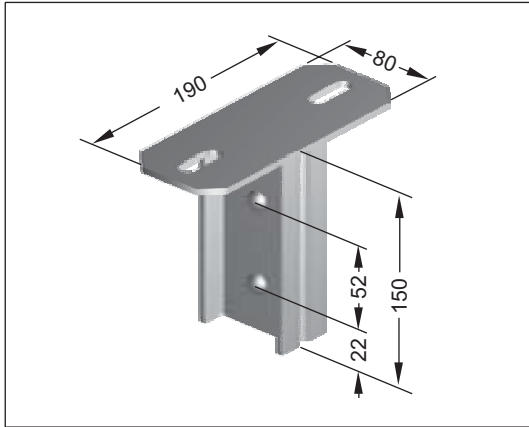
Çelik konstrüksiyona elektrik kaynağı ile monte edilecekse,
galvanizsiz antipas boyalı olarak da verilebilir.

For horizontal ceilings

Yatay tavanlar için



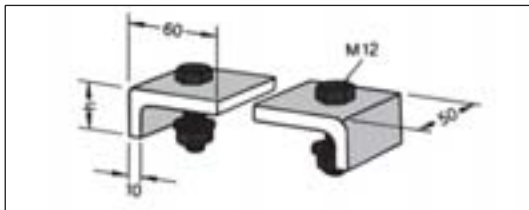
Order No	Weight appr.
<u>Sipariş No</u>	<u>Ağırlık (kg.)</u>
4S 5 - H1	1.600



Order No	Weight appr.
<u>Sipariş No</u>	<u>Ağırlık (kg.)</u>
4S 5 - H2	1.600

**Clamping angles
for fixing head plates**

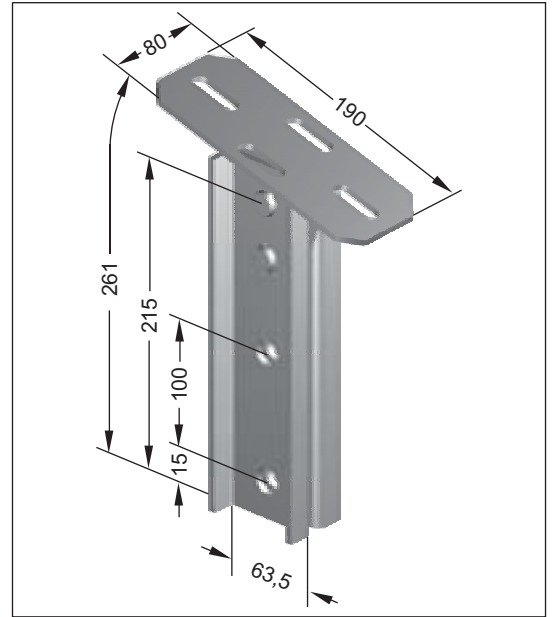
Kelepçe
Tavan Başlığı montajı için



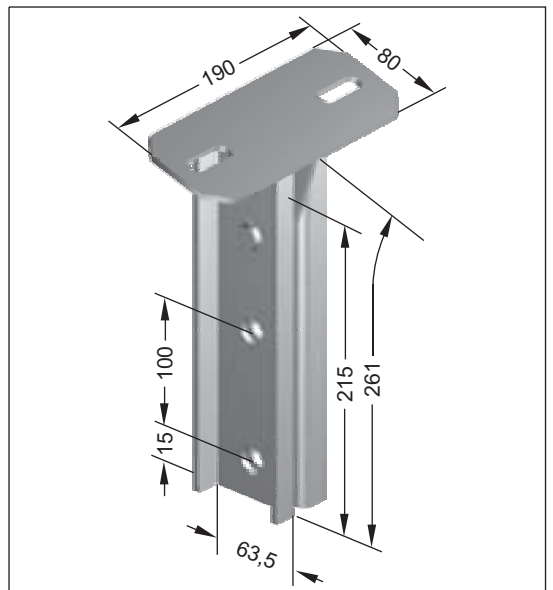
Order No	* h valve will be changed due to the profile
<u>Sipariş No</u>	<u>h ölçüsü kullanılan profile göre değişecektir.</u>
4S 5 - CA	

For inclined ceilings

Eğik tavanlar için



Order No	Weight appr.
<u>Sipariş No</u>	<u>Ağırlık (kg.)</u>
4S 5 - H3	2.500



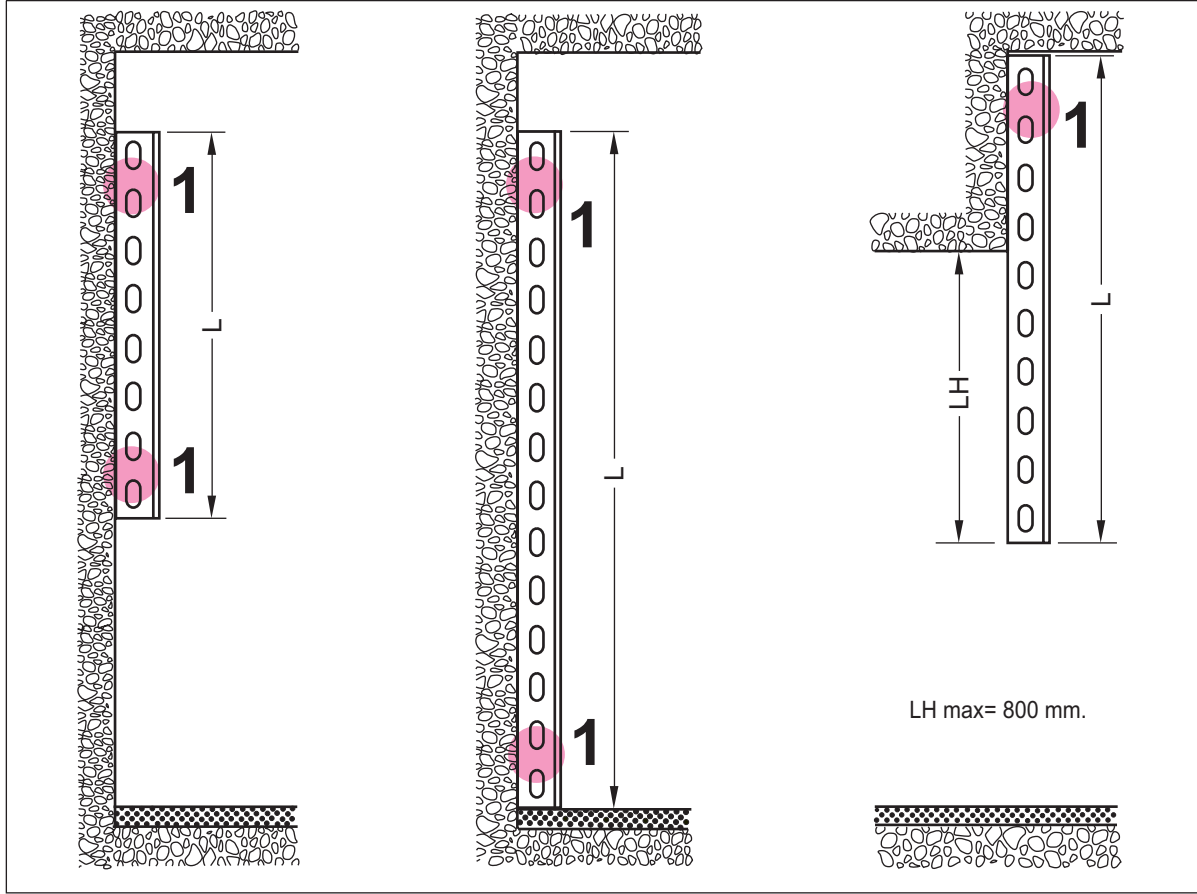
Order No	Weight appr.
<u>Sipariş No</u>	<u>Ağırlık (kg.)</u>
4S 5 - H4	2.500

* bolts M10 x 25 mm.
* civatalar M 10 x 25 mm.

T Supports
T Destekler

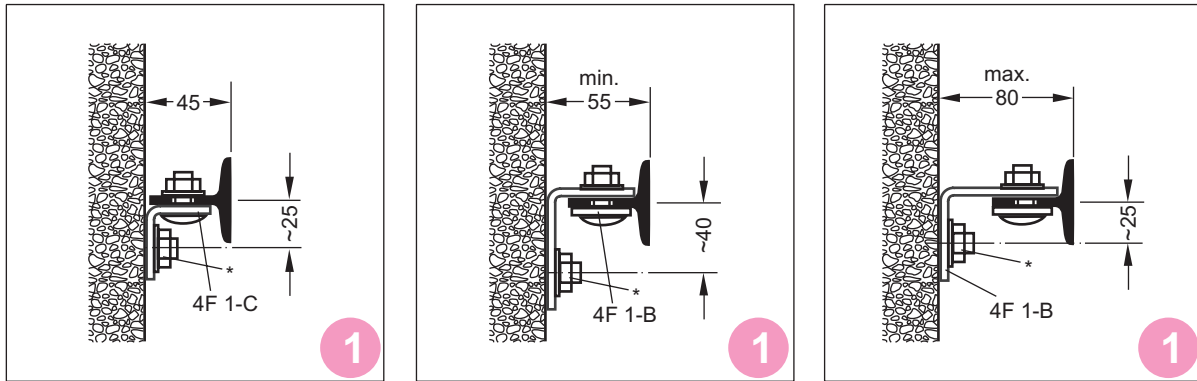
Application & Fixing Details
Uygulama ve Montaj Detayları

Application examples
Uygulama örnekleri



Max. load as hanging support LH= 440 kg.
Max. yük taşıma kapasitesi LH= 440 kg.

Examples of fixing
Montaj örnekleri

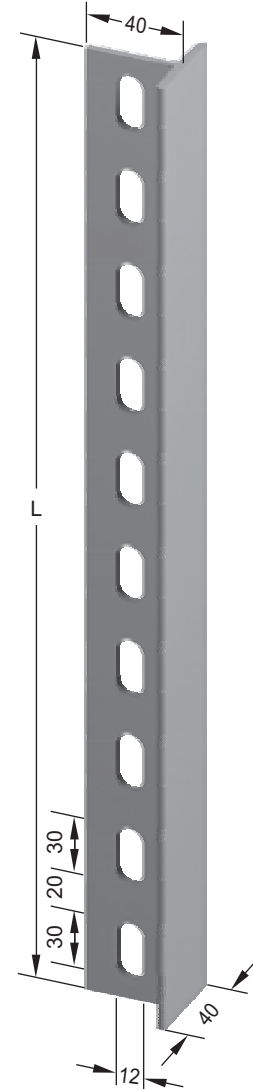


* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Head Plates
Tavan Başlıkları



Order No Sipariş No	L (mm)	Weight appr. Ağırlık (kg.)
4S 6 - 200	200	0.440
4S 6 - 300	300	0.660
4S 6 - 400	400	0.880
4S 6 - 500	500	1.100
4S 6 - 600	600	1.320
4S 6 - 700	700	1.540
4S 6 - 800	800	1.760
4S 6 - 900	900	1.980
4S 6 - 1000	1000	2.200
4S 6 - 1100	1100	2.420
4S 6 - 1200	1200	2.640
4S 6 - 1300	1300	2.860
4S 6 - 1400	1400	3.080
4S 6 - 1500	1500	3.300
4S 6 - 1600	1600	3.520
4S 6 - 1700	1700	3.740
4S 6 - 1800	1800	3.960
4S 6 - 1900	1900	4.180
4S 6 - 2000	2000	4.400
4S 6 - 6000	6000	13.200



T Supports hot dip galvanized after fabrication acc.to EN ISO 1461 of hot rolled profile T 40x40x4 mm.

Used as wall, hanging or other support.

Available in lengths up to 6000 mm.

Sıcak çekme T 40x40x4 mm profilden mamül T destekler, imalattan sonra TS 914'e uygun sıcak daldırma galvaniz kaplanır.

T destekler 6000 mm. uzunluğa kadar olup duvar, tavan veya diğer şekillerde kullanılabilir.

T Supports with special lengths are also available.

Özel boylarda T destek imalatı mümkündür.

Accessories :

Aksesuarlar :

Head Plates

Tavan Başlıkları

Brackets

Konsollar

Jointing material

Birleştirme Elemanı

Fixing material

Montaj Elemanı

Page :

Sayfa :

S 14

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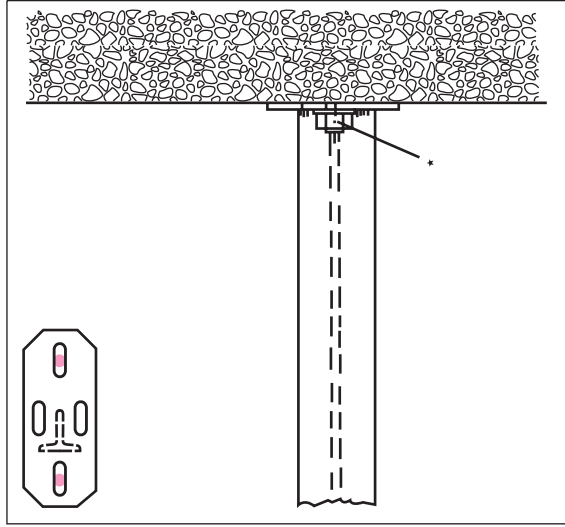
S 25

S 23

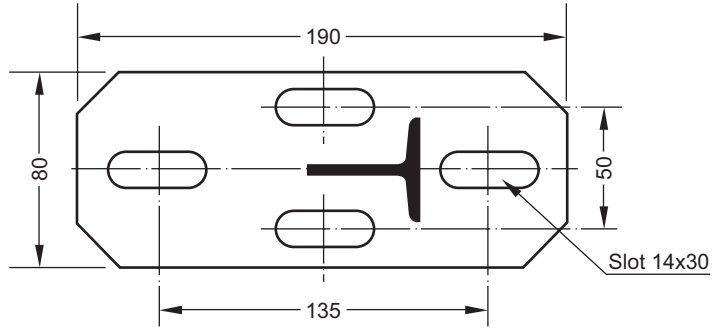
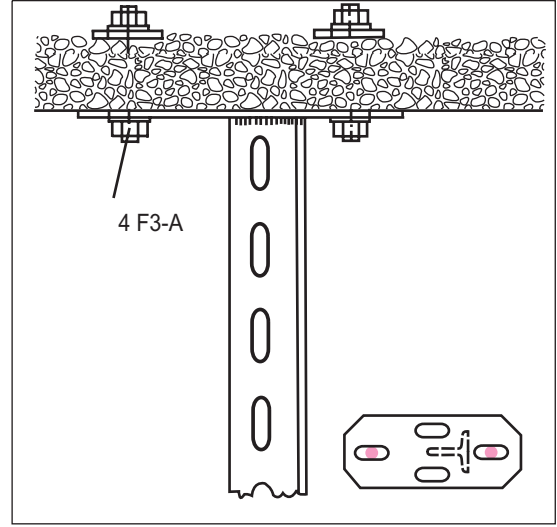
T Hanging Supports
T Tavan Destekleri

Application & Fixing Details
Uygulama ve Montaj Detayları

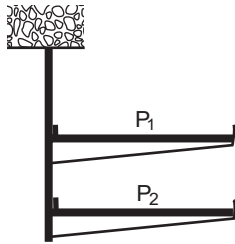
Application examples
Uygulama örnekleri



- * Steel expansion bolt , page : S 28
- * Çelik dübel, sayfa : S 28



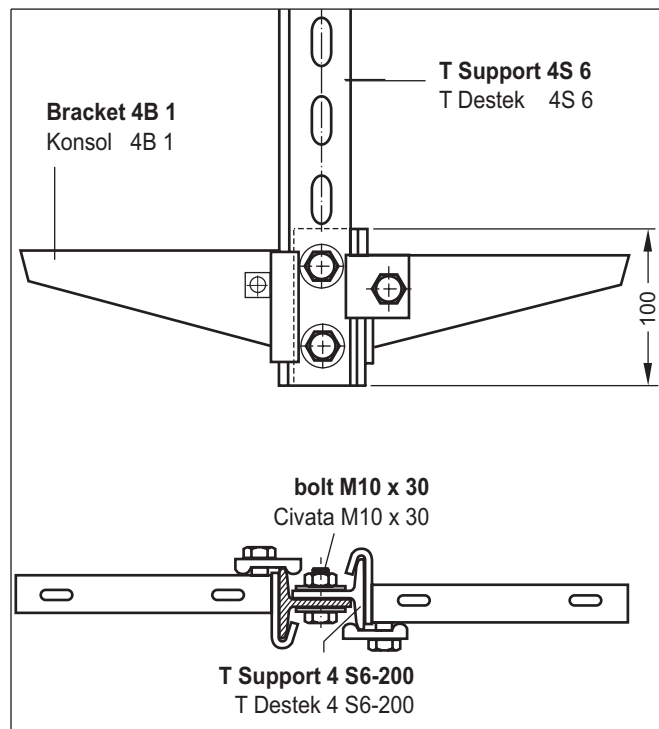
Permissible load of supports
Desteklerin taşıyabileceği yük



One sided fixing
Tek yönlü montaj

Lenght of bracket L Konsol Boyu L (mm)	Total Load P Toplam Yük P (kg)
100	440
200	300
300	230
400	175
500	145
600	115

Fixing of brackets to hanging supports (one or two sided)
Konsolların tavan desteğine tek veya çift yönlü montajı

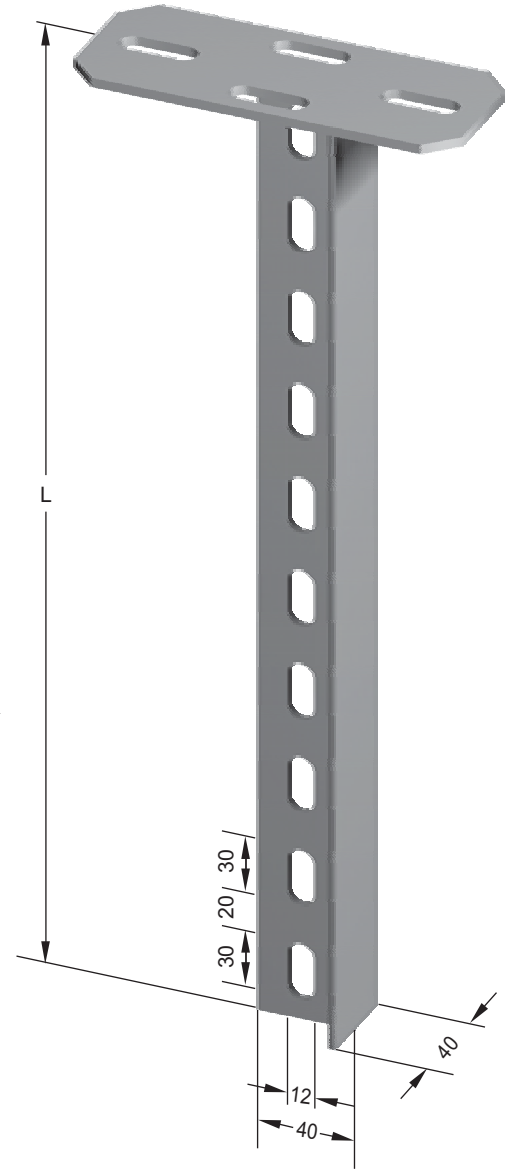


Order No Sipariş No	L (mm)	Weight appr. Ağırlık (kg.)
4S 7 - 200	200	0.995
4S 7 - 300	300	1.215
4S 7 - 400	400	1.435
4S 7 - 500	500	1.655
4S 7 - 600	600	1.875
4S 7 - 700	700	2.095
4S 7 - 800	800	2.305
4S 7 - 900	900	2.535
4S 7 - 1000	1000	2.755
4S 7 - 1100	1100	2.975
4S 7 - 1200	1200	3.195

**T Supports hot dip galvanized after fabrication acc.to EN ISO 1461
of hot rolled profile T 40x40x4 mm.
for fixing to ceiling or floor:**

Sıcak çekme profilden mamül T 40x40x4 destekler,
imalattan sonra TS 914'e uygun sıcak daldırma
galvaniz kaplanır. Tavan ve zemin montajında
kullanılır.

Hanging supports with special lenghts are also available.
Özel boylarda tavan destekleri imalatı mümkündür.



Accessories :

Aksesuarlar :

Brackets
Konsollar

Fixing material
Montaj elemanı

Jointing material
Birleştirme elemanı

Page :

Sayfa :

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Head Plates for T Supports

T destekler için tavan başlıkları

Head plates for T supports hot dip galvanized after fabrication acc.to EN ISO 1461.

For fixing to horizontal and inclined ceilings for supports up to 2000 mm. lenght.

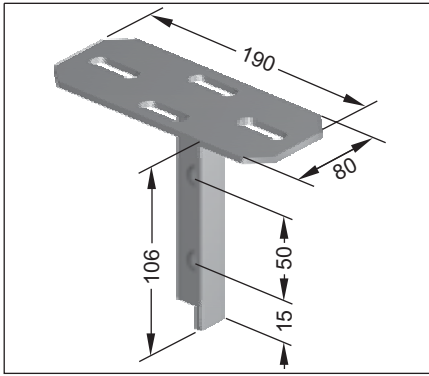
T destek tavan başlıkları imalattan sonra TS 914'e uygun sıcak daldırma galvaniz kaplanır.
2000 mm. boya kadar olan desteklerle birlikte yatay ve eğik tavanlarda kullanılır.

For electric welding, not galvanized, anti corrosive paint.

Çelik konstrüksiyona elektrik kaynağı ile monte edilecekse, galvanizsiz, antipas boyalı olarak da verilebilir.

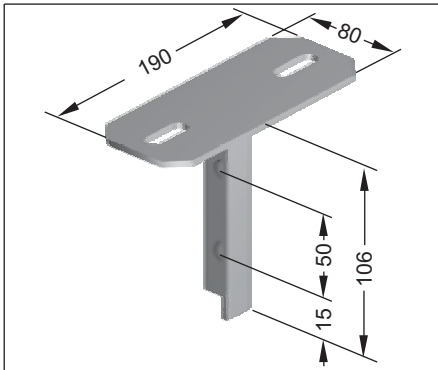
For horizontal ceilings

Yatay tavanlar için



Order No
Sipariş No
4S 8 - H1

Weight appr.
Ağırlık (kg.)
1.150



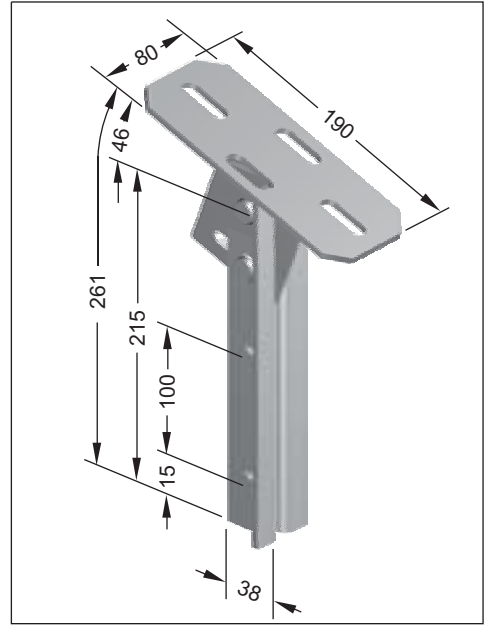
Order No
Sipariş No
4S 8 - H2

Weight appr.
Ağırlık (kg.)
1.150

* bolts M 10 x 25 mm.
* civatalar M 10 x 25 mm.

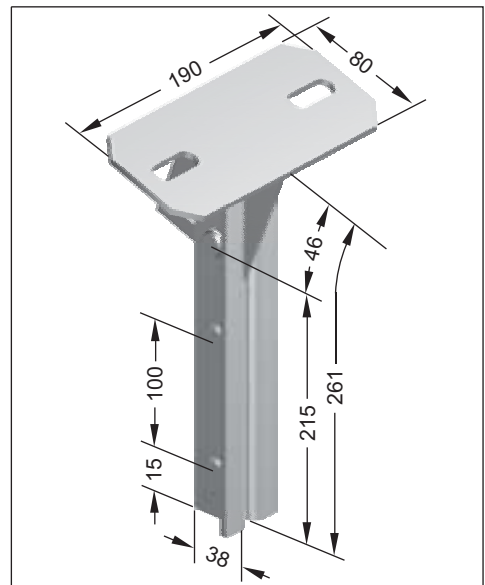
For inclined ceilings

Eğik tavanlar için



Order No
Sipariş No
4S 8 - H3

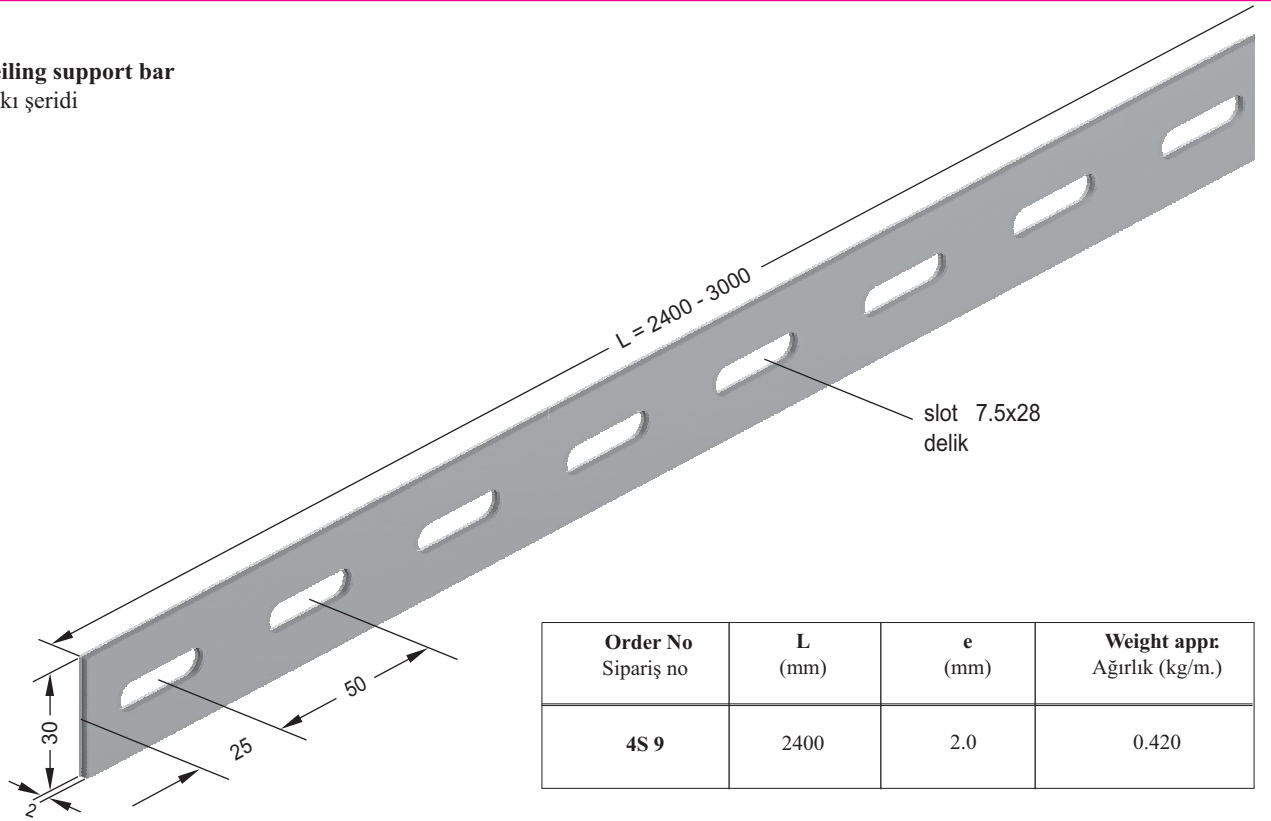
Weight appr.
Ağırlık (kg.)
2.000



Order No
Sipariş No
4S 8 - H4

Weight appr.
Ağırlık (kg.)
2.000

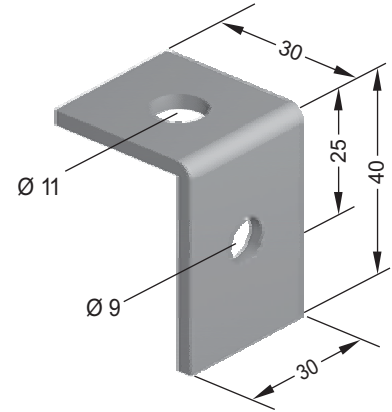
Ceiling support bar
Askı şeridi



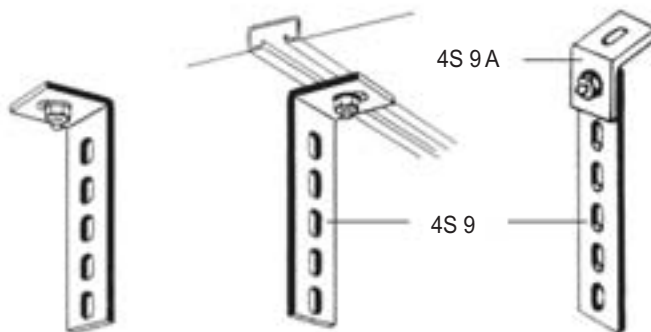
Order No Sipariş no	L (mm)	e (mm)	Weight appr. Ağırlık (kg/m.)
4S 9	2400	2.0	0.420

Ceiling support corner
Askı parçası

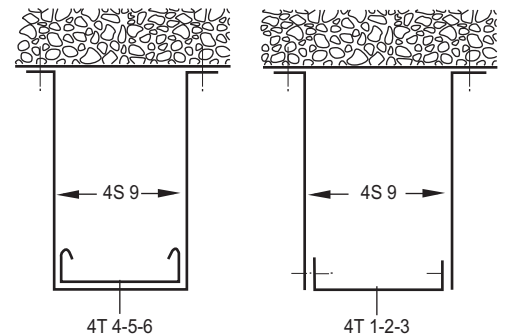
Order No Sipariş no	e (mm)	Weight appr. Ağırlık (kg)
4S 9 A	3.0	0.042



Application & Fixing Details



Uygulama ve Montaj Detayları

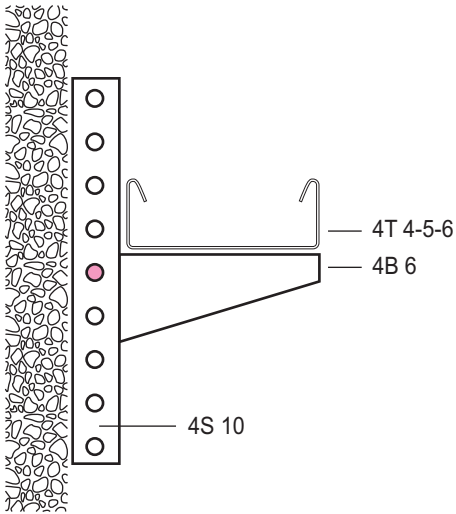


U Supports & brackets
U Destekler ve konsolları

Application & Fixing Details
Uygulama ve Montaj Detayları

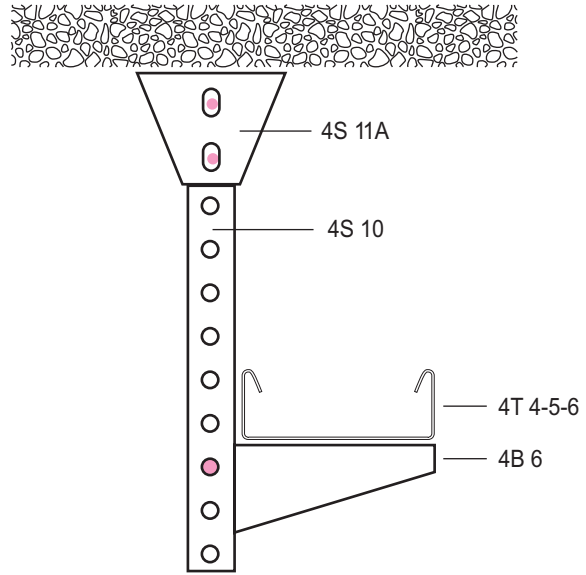
Examples of fixing
Montaj örnekleri

Wall Mounting
Duvar Montajı

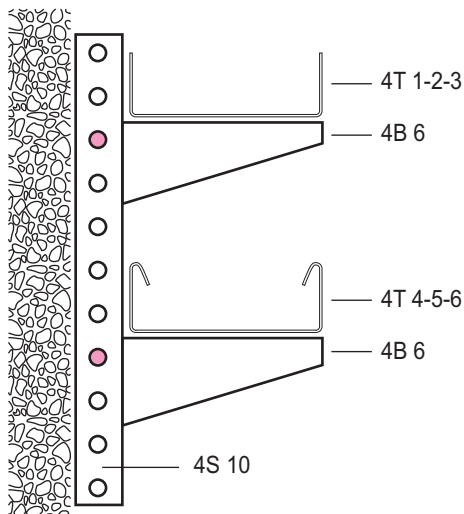


one floor fixing
tek katlı montaj

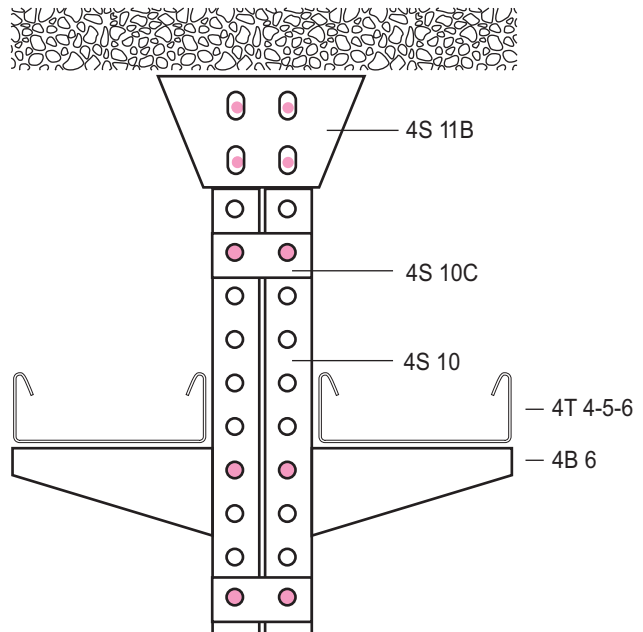
Ceiling Mounting
Tavan Montajı



one sided fixing
tek yönlü montaj



multi floor fixing
çok katlı montaj



two sided fixing
çift yönlü montaj

U Supports

U Destekler

Order No Sipariş no	L (mm)	Weight appr. Ağırlık (kg.)
4S 10 - 200	200	0.270
4S 10 - 300	300	0.405
4S 10 - 400	400	0.540
4S 10 - 500	500	0.675
4S 10 - 600	600	0.810
4S 10 - 700	700	0.945
4S 10 - 800	800	1.080
4S 10 - 900	900	1.215
4S 10 - 1000	1000	1.350
4S 10 - 2000	2000	2.700
4S 10 - 2400	2400	3.240

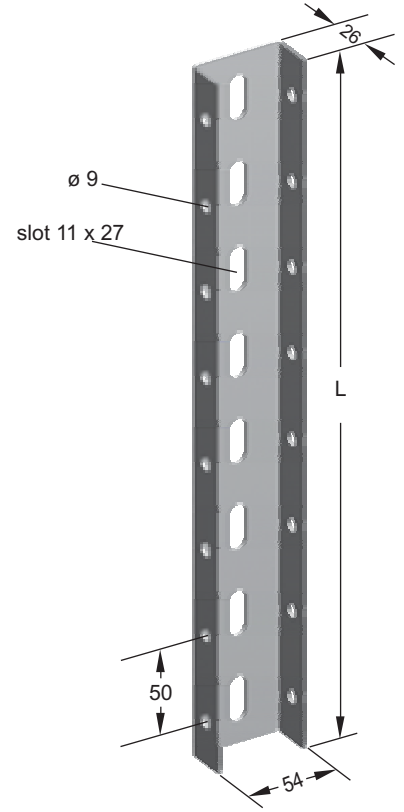


Plate thickness : 2 mm
Sac Kalınlığı : 2 mm

U Brackets

U Konsollar

Order No Sipariş no	L (mm)	a (mm)	Weight appr. Ağırlık (kg.)
4B 6 - 50	75	80	0.150
4B 6 - 70	95	80	0.175
4B 6 - 100	125	80	0.250
4B 6 - 150	175	80	0.350
4B 6 - 200	225	80	0.450
4B 6 - 250	275	80	0.550
4B 6 - 300	325	80	0.650
4B 6 - 400	425	80	0.850
4B 6 - 500	525	90	1.150
4B 6 - 600	625	90	1.350

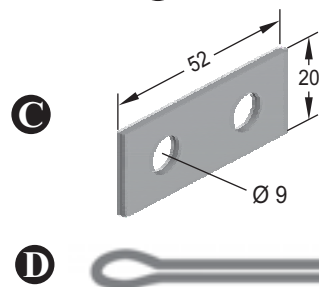
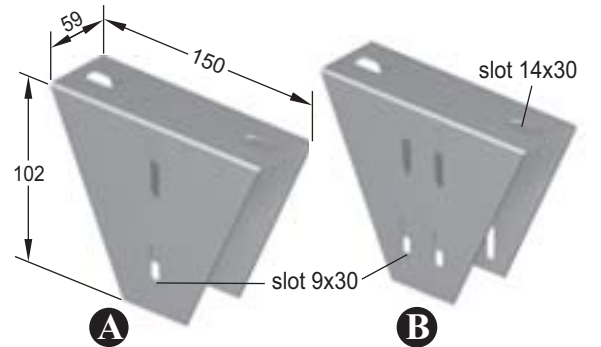
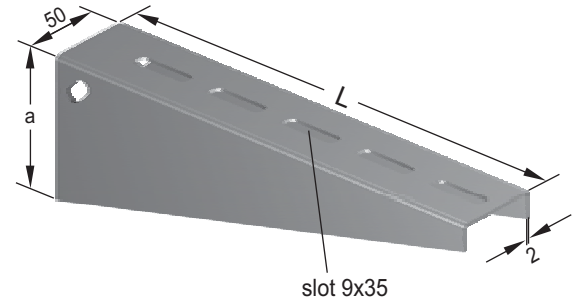


Plate thickness : 2 mm
Sac Kalınlığı : 2 mm

Head Plates for U Supports

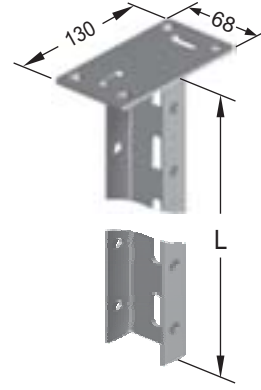
U Destekler için tavan başlıkları

Order No Sipariş no	Weight appr. Ağırlık (kg)
4S 11 A for one sided fixing U- support tek yönlü U- destek montajı için	0.405
4S 11 B for two sided fixing U- support çift yönlü U- destek montajı için	0.390
4S 11 C for two sided jointing U- supports çift yönlü U- destek birleştirme parçası	0.017
4S 11 D Cotter pin (Ø8 x 80 mm) Kopilya (Ø8 x 80 mm)	0.032

U Hanging Supports

U Tavan Destekleri

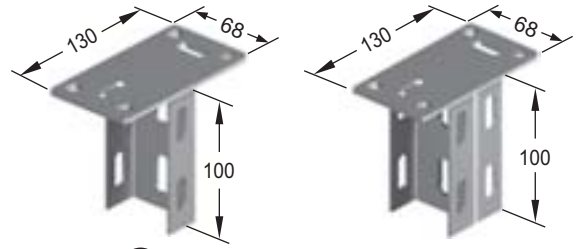
Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 10 B-300	300	2.0	0.575
4S 10 B-400	400	2.0	0.710
4S 10 B-500	500	2.0	0.845
4S 10 B-1000	1000	2.0	1.520
4S 10 B-1200	1200	2.0	1.790



U Head Plates

U Tavan Başlıkları

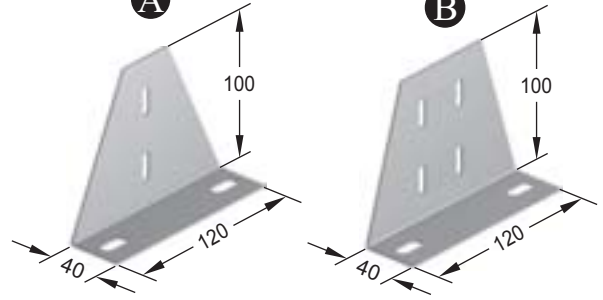
Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 10 B-100.A	100	2.0	0.305
4S 10 B-100.B	100	2.0	0.440



U Floor Plates

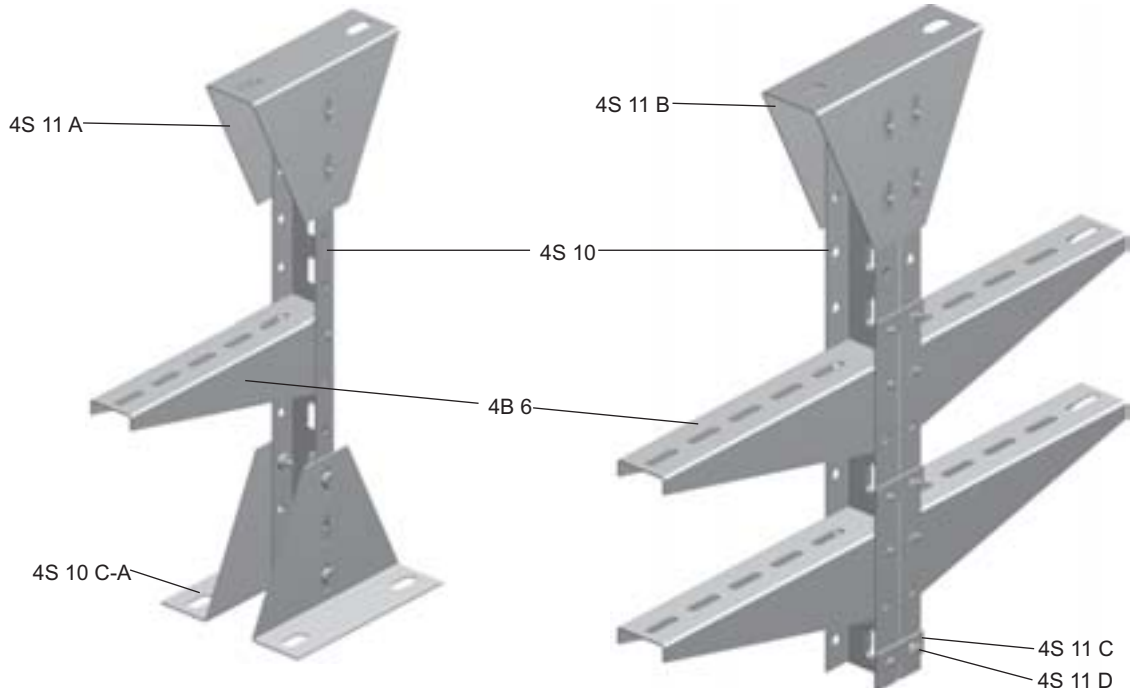
U Zemin Montaj Elemanları

Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 10 C-A	100	2.0	0.225
4S 10 C-B	100	2.0	0.225



Application & Fixing Details

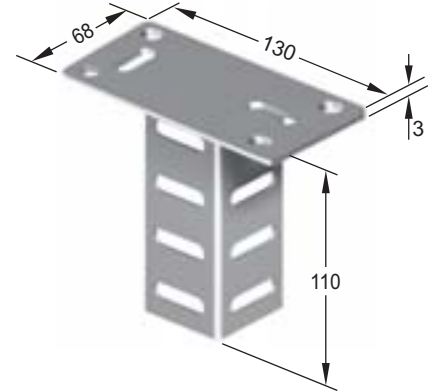
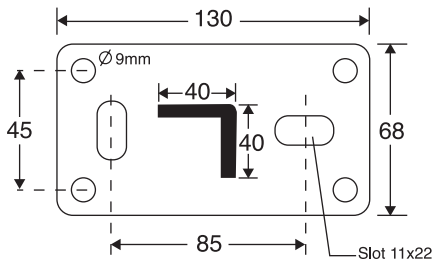
Uygulama ve Montaj Detayları



Head Plate for L Supports

L Destekler için tavan başlığı

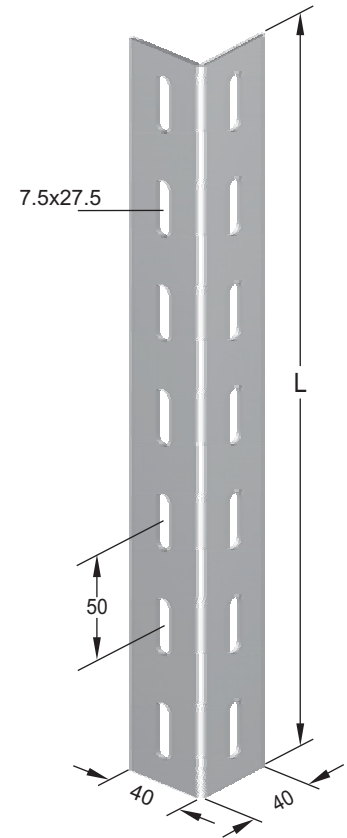
Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 12 A	110	3.0 / 2.0	0.325



L Supports

L Destekler

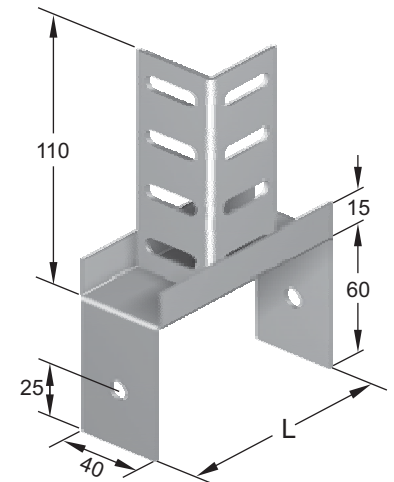
Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 12 - 500	500	1.5	0.380
4S 12 - 1000	1000	1.5	0.765
4S 12 - 2000	2000	1.5	1.530
4S 12 - 2400	2400	1.5	1.830



Tray Hanging for L supports

L Destekler için kanal askıları

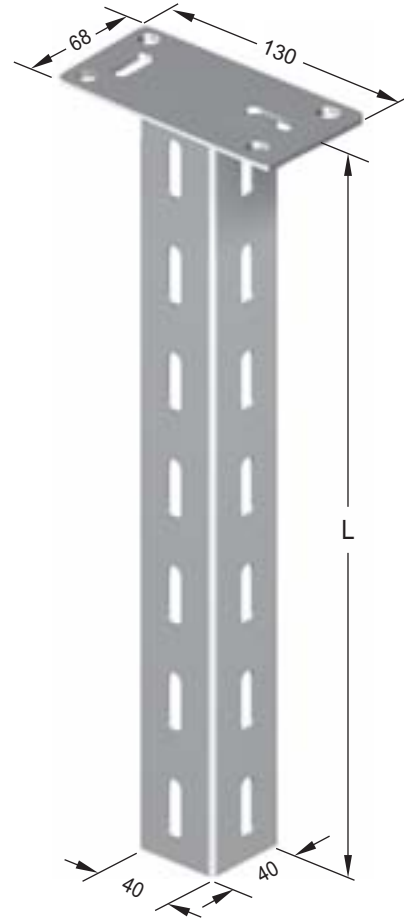
Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 12 - 50	55	1.5	0.200
4S 12 - 70	75	1.5	0.215
4S 12 - 100	105	1.5	0.240
4S 12 - 150	155	1.5	0.280
4S 12 - 200	205	1.5	0.320
4S 12 - 250	255	1.5	0.360



L Hanging Supports

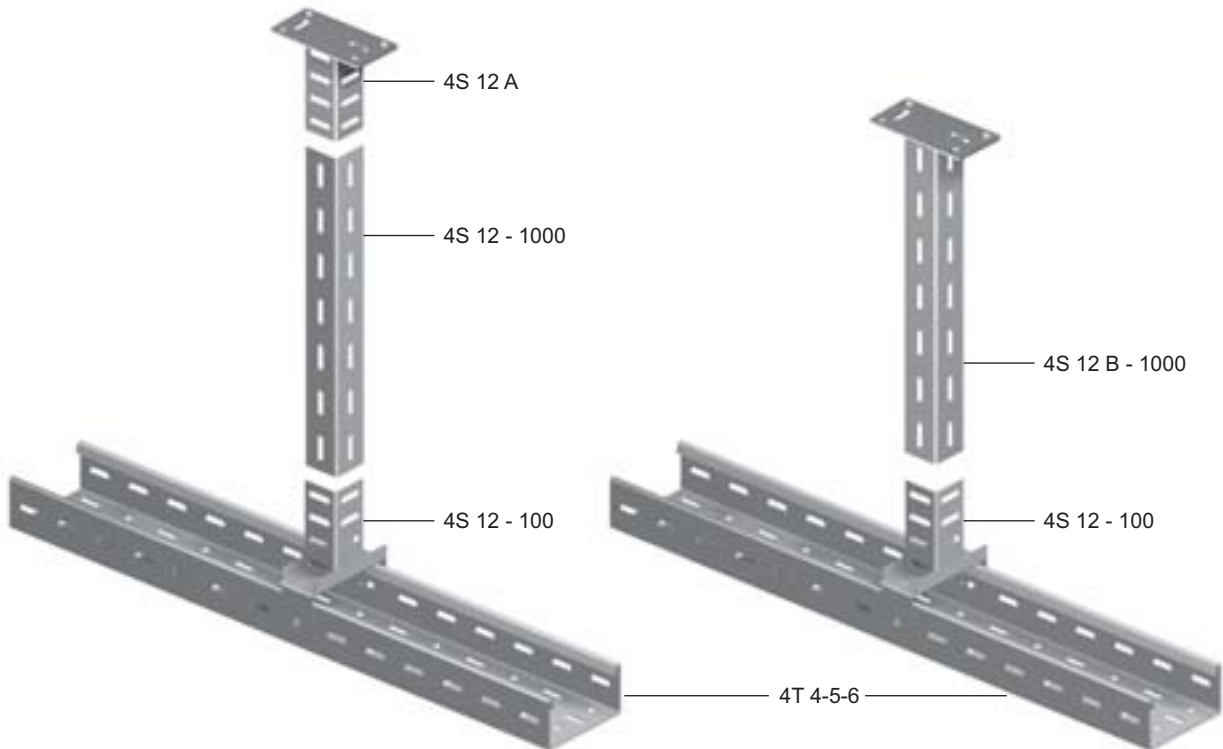
L Tavan Destekleri

Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 12 B - 300	300	1.5	0.400
4S 12 B - 400	400	1.5	0.475
4S 12 B - 500	500	1.5	0.550
4S 12 B - 600	600	1.5	0.620
4S 12 B - 1000	1000	1.5	0.935
4S 12 B - 1200	1200	1.5	1.090



Application & Fixing Details

Uygulama ve Montaj Detayları



Head plate for threaded rod

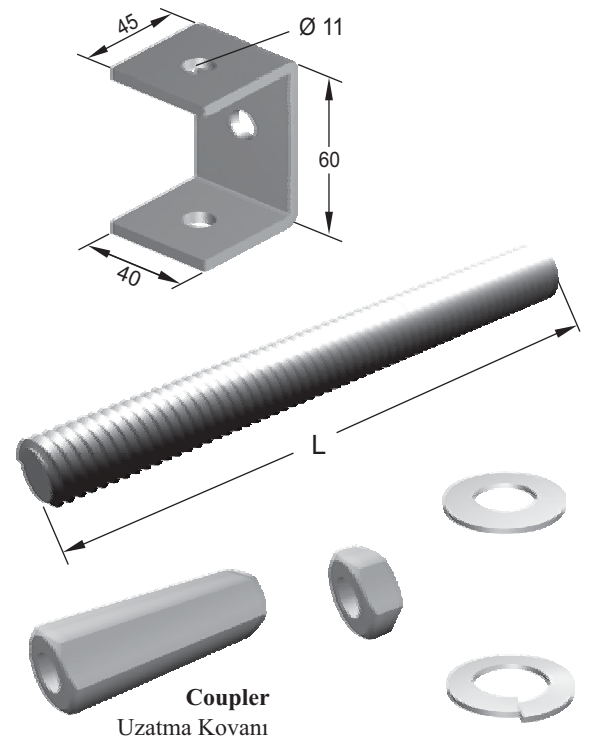
Askı tiji için tavan montaj elemanı

Order No Sipariş No	e (mm)	Weight appr. Ağırlık (kg)
4S 13 A	4.0	0.180

Threaded Rods

Askı Tijleri

Order No Sipariş No	Thread Diş Ölçüsü	L (mm)	Weight appr. Ağırlık (kg.)
4F 3 - M8	M8	1000	0.300
4F 3 - M10	M10	1000	0.480
4F 3 - M12	M12	1000	0.690
4F 3 - M8 N	M8	nut (somun)	0.004
4F 3 - M10 N	M10	nut (somun)	0.010
4F 3 - M12 N	M12	nut (somun)	0.016
4F 3 - M8 C	M8	coupler	0.020
4F 3 - M10 C	M10	coupler	0.030
4F 3 - M12 C	M12	coupler	0.040



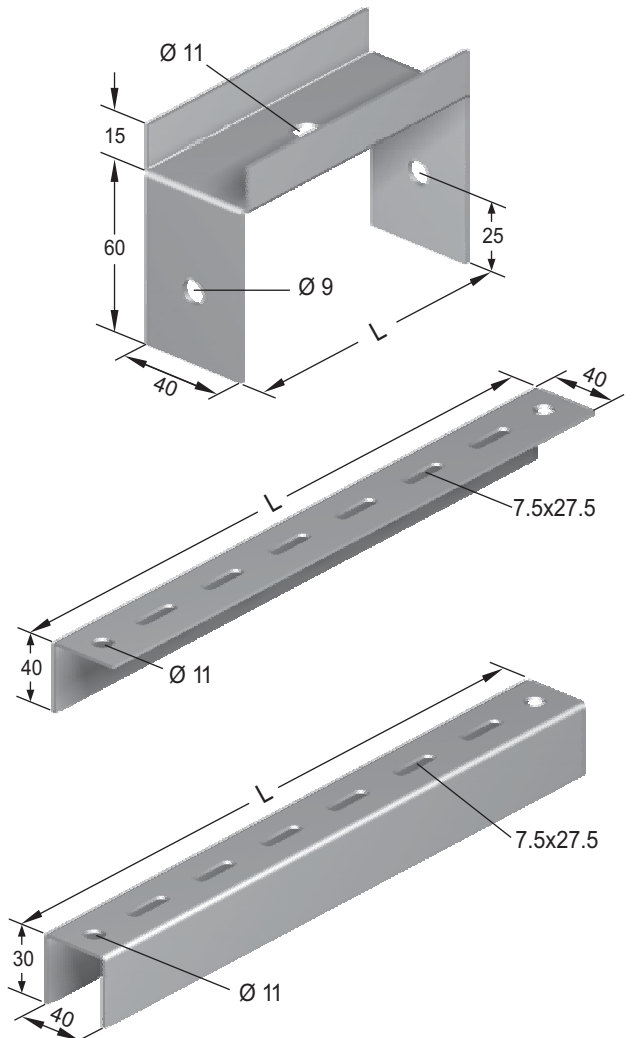
Tray Hanging for Threaded Rods

Tijler için kanal askıları

Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 13 - 50	55	1.5	0.100
4S 13 - 70	75	1.5	0.120
4S 13- 100	105	1.5	0.140
4S 13- 150	155	1.5	0.180
4S 13- 200	205	1.5	0.220

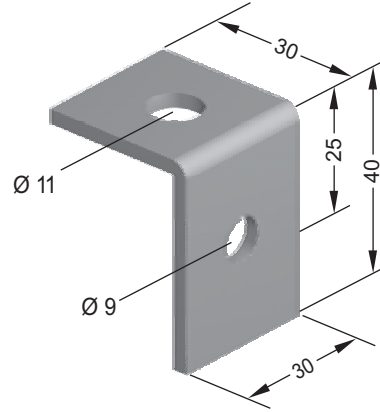
Order No Sipariş no	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 13 - 250	310	2.0	0.400
4S 13- 300	360	2.0	0.460

Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4S 13 - 400	460	2.0	0.740
4S 13 - 500	560	2.0	0.900
4S 13 - 600	660	2.0	1.060



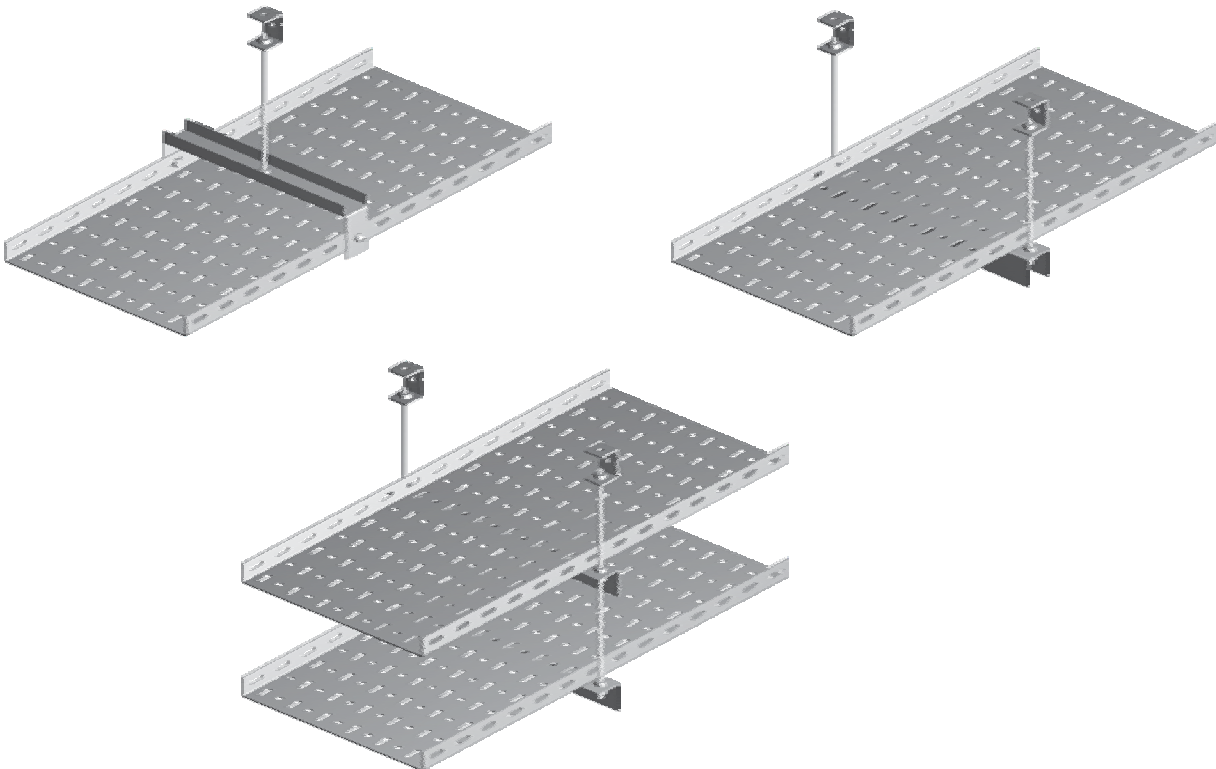
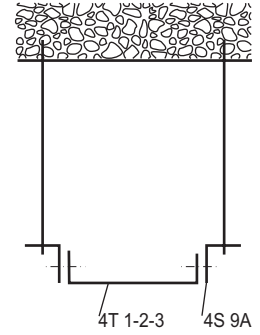
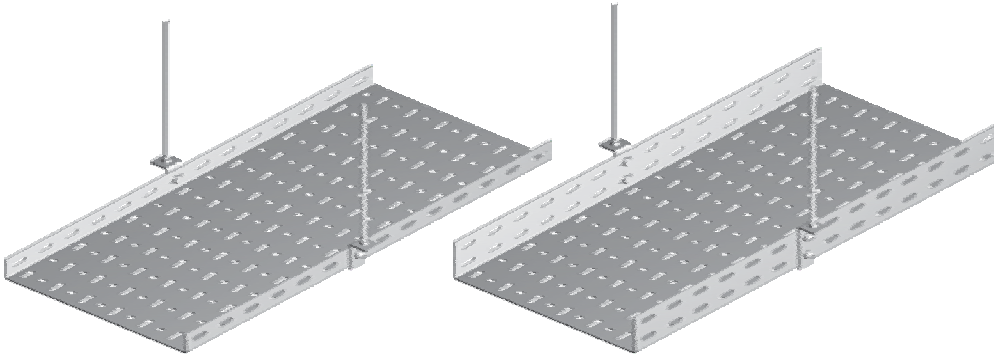
Ceiling support corner
Askı parçası

Order No Sipariş no	e (mm)	Weight appr. Ağırlık (kg)
4S 9 A	3.0	0.042



Application & Fixing Details

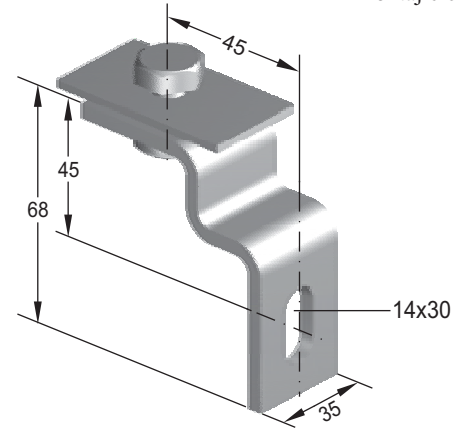
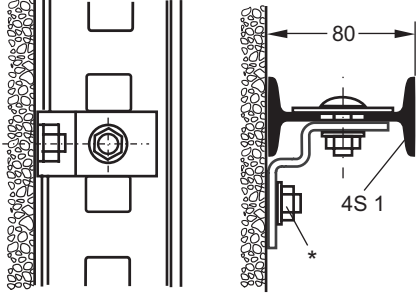
Uygulama ve Montaj Detayları



Application & Fixing details
Uygulama ve montaj detayları

Fixing materials
Montaj elemanları

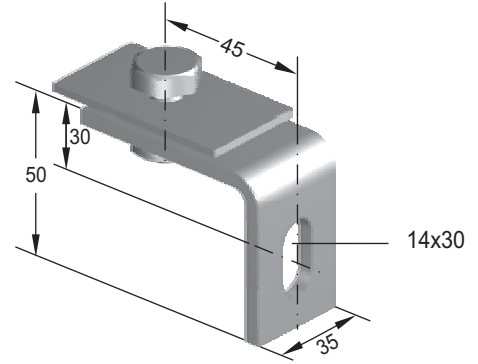
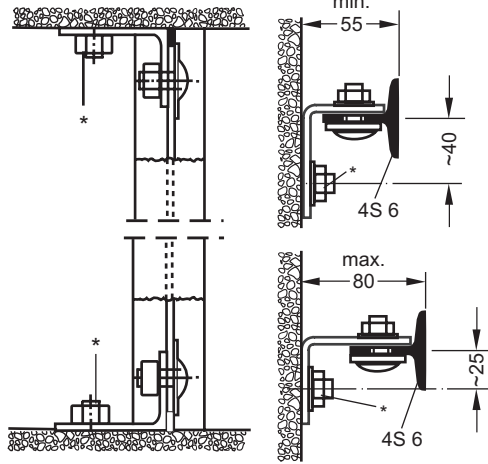
Fixing to wall
Duvar montajı



Order no: Sipariş no:
4F 1 - A

Weight appr: Ağırlık (kg.)
0.300

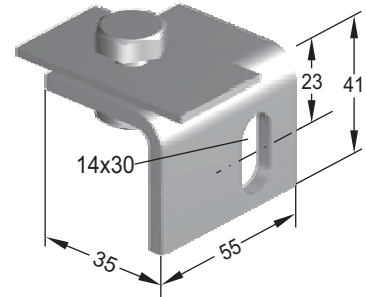
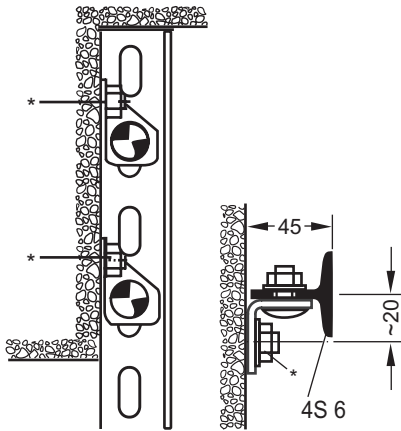
Fixing to ceiling and floor
Tavan ve döşeme montajı



Order no: Sipariş no:
4F 1 - B

Weight appr: Ağırlık (kg.)
0.300

Fixing to wall corner
Kiriş montajı



Order no: Sipariş no:
4F 1 - C

Weight appr: Ağırlık (kg.)
0.200

* Steel expansion bolt , page : S 28
* Çelik dübel, sayfa : S 28

Galvanized, for fixing of I 80 and T40 Supports to walls and ceilings.
Galvanizli, I 80 ve T40 desteklerinin duvar, tavan ve döşemeye montajı için kullanılır.

• bolts M 10 x 25 mm.
• civatalar M 10 x 25 mm.

Application & Fixing Details
Uygulama ve Montaj Detayları

Application examples

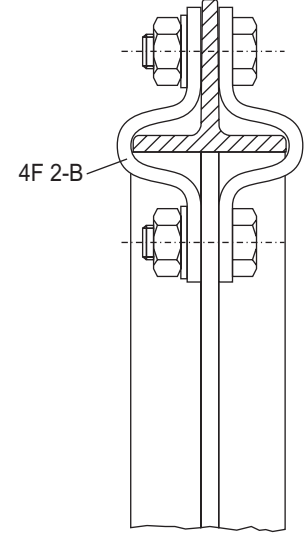
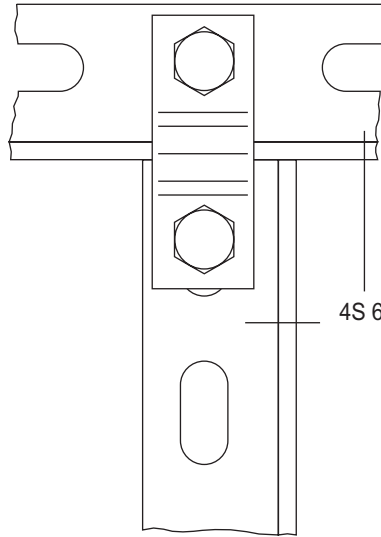
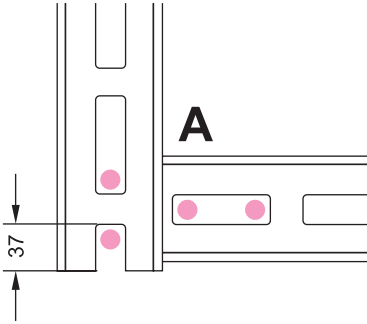
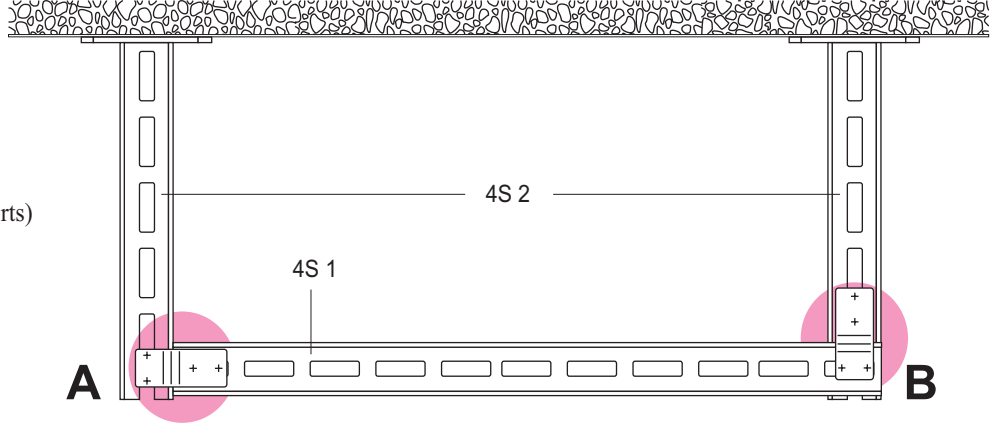
Uygulama örnekleri

I Support clamp 4F 2-A

for making supports for more than one adjoining cable ladder or cable tray. (for making U hanging supports)

Destek kelepçesi 4F 2-A

Birden fazla kablo kanalı veya merdivenin I destekler ile 4 F2-A kelepçesi kullanılarak taşınması (U formunda tavan askısı)



T Support clamp 4F 2-B

for making U-hanging supports by using T supports

T Destek kelepçesi 4F 2-B

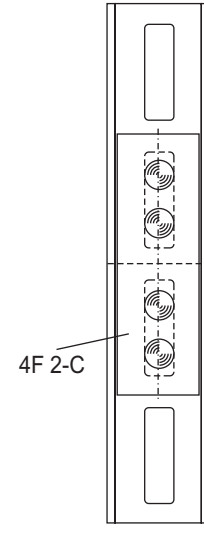
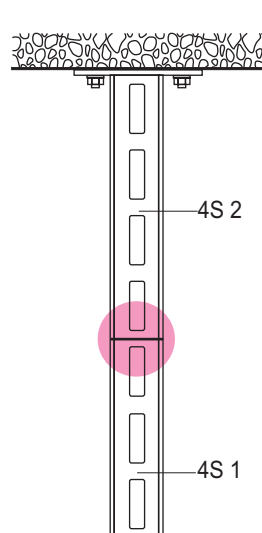
T destekler ile U şeklinde tavan askısı yapmakta kullanılır.

Jointing piece 4F 2-C

for extending I hanging supports 4S 2 or I supports 4S 1

Birleştirme parçası 4F 2-C

I tavan desteklerini 4S 2 veya I destekleri 4S 1 eklemek maksadıyla kullanılır.



Jointing material hot dip galvanized according to EN ISO 1461.

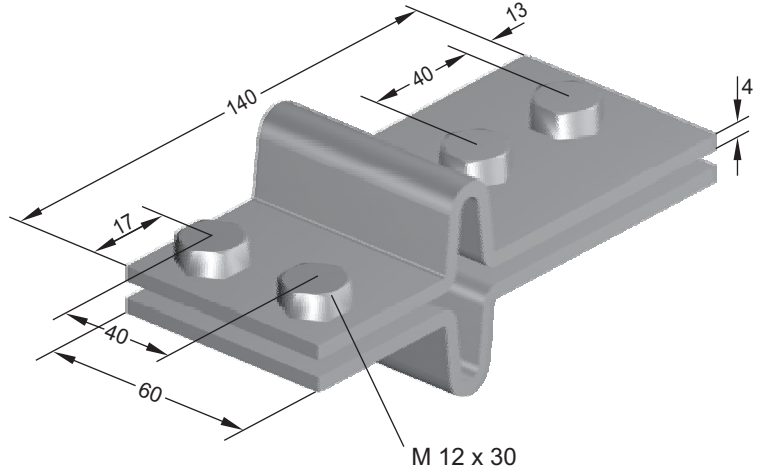
Birleştirme malzemeleri TS 914'e uygun sıcak daldırma galvanizlidir.

I Support clamp I Destek kelepçesi

for assembly of double hangers composed of I supports.
I desteklerle tavan askısı oluşturmakta kullanılır.

Order no - Sipariş no:
4F 2 - A

Weight appr.
Ağırlık (kg.)
0.900

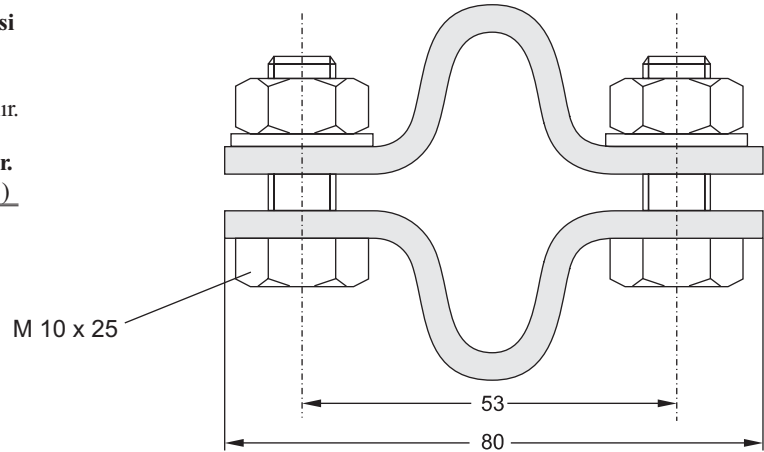


T Support clamp T Destek Kelepçesi

fitting to T support 4S 6
T destekleri (4S 6) askı yapmakta kullanılır.

Order no - Sipariş no:
4F 2 - B

Weight appr.
Ağırlık (kg.)
0.350

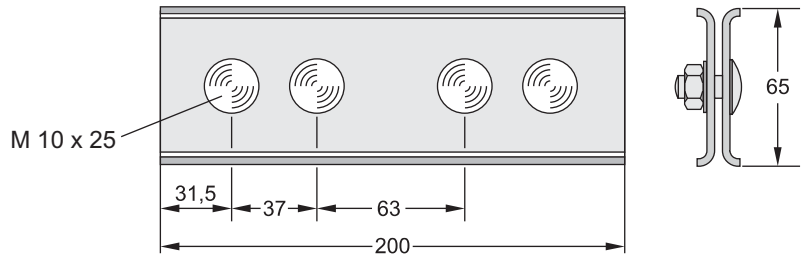


Jointing piece Birleştirme parçası

fitting to I support I 80
I 80 destek ekleme elemanı

Order no - Sipariş no:
4F 2 - C

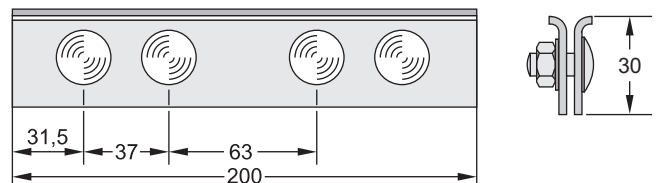
Weight appr.
Ağırlık (kg.)
0.900



fitting to T support T 40
T 40 destek ekleme elemanı

Order no - Sipariş no:
4F 2 - D

Weight appr.
Ağırlık (kg.)
0.510

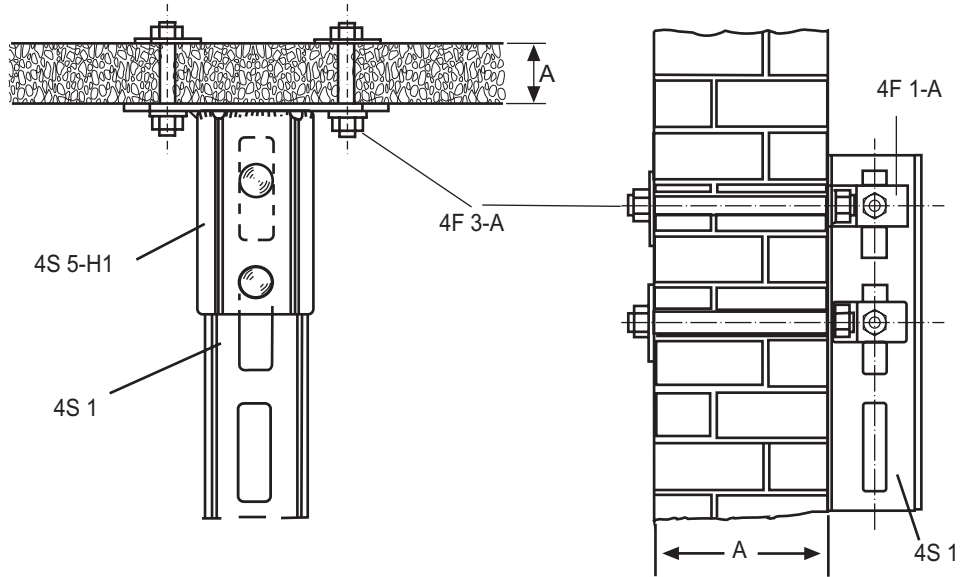


Application & Fixing Details

Uygulama ve Montaj Detayları

Application examples Uygulama örnekleri

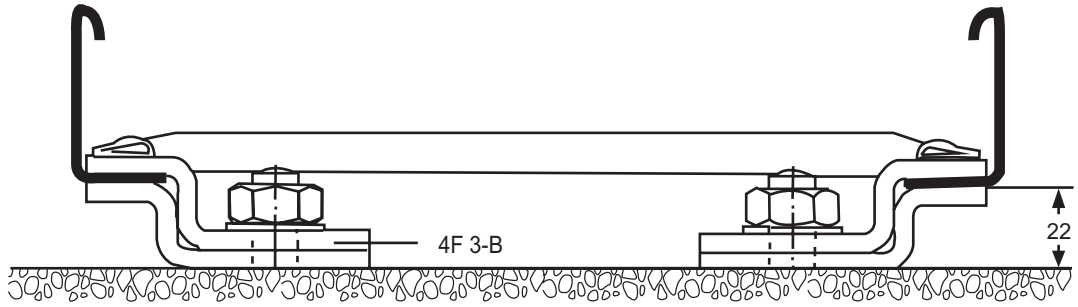
Anchor bolt Ankraj civatası 4F 3-A



Wall clamp 4F 3-B, for fixing cable ladders to walls (horizontal or vertical)
Duvar kelepçesi 4F 3-B, kablo merdivenlerini yatay veya düşey olarak duvara montajda kullanılır.

Fixing to wall Duvar montajı

Wall clamp Duvar kelepçesi 4F 3-B

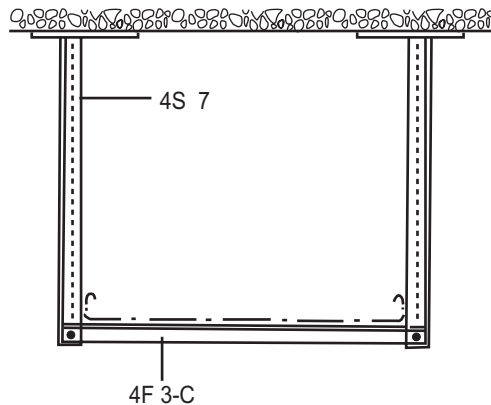


Transversal brackets 4F 3-C for use with T Supports (4S 7)

Enine konsollar 4F 3-C T desteklerle (4S 7) birlikte kullanım şekli

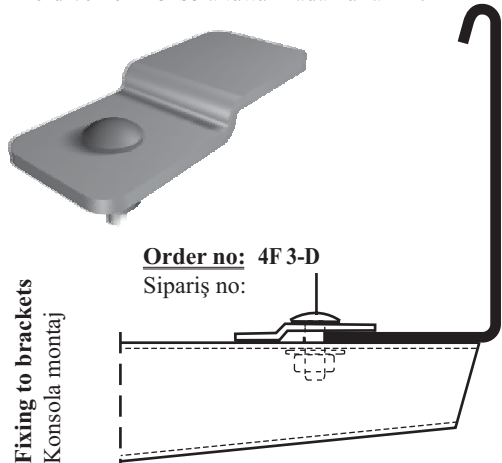
Transversal Brackets

Enine Konsollar



Hold down clamp 4F 3-D for fixing cable ladders on brackets.

Sıkıştırma kelepçesi 4F 3-D merdivenleri konsola tutturmada kullanılır.

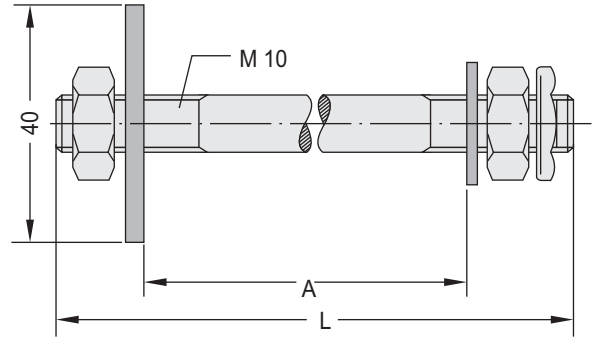


**Fixing to brackets
Konsola montaj**

Order no: 4F 3-D
Sipariş no:

Anchor bolts M 10
Ankraj civataları M 10

Order No. Sipariş No.	A (mm)	L (mm)	kg./piece kg./adet
4F 3-A 150	150	185	0.300
4F 3-A 200	200	235	0.350
4F 3-A 250	250	285	0.400
4F 3-A 300	300	335	0.450
4F 3-A 350	350	385	0.500
4F 3-A 400	400	435	0.550

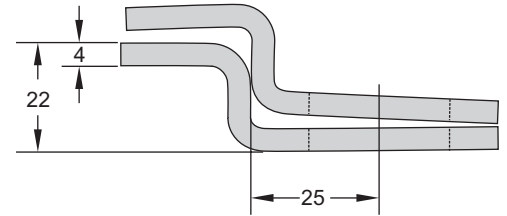


Wall clamp 4F 3-B
for fixing cable ladders and
vertical cable ladders to walls.

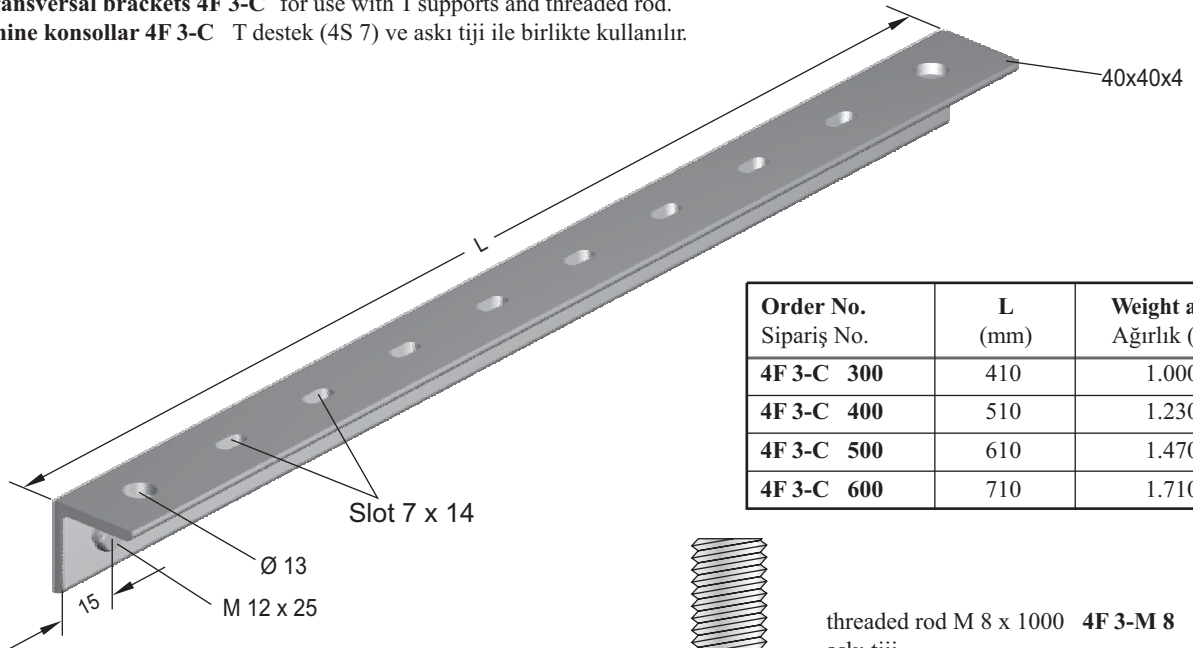
Duvar kelepçesi 4F 3-B
Kablo merdivenlerini duvara
tutmakta kullanılır.

Order no:
Sipariş no:
4F 3-B

Weight appr.
Ağırlık (kg.)
0.200



Transversal brackets 4F 3-C for use with T supports and threaded rod.
Enine konsollar 4F 3-C T destek (4S 7) ve askı tiji ile birlikte kullanılır.



Order No. Sipariş No.	L (mm)	Weight appr. Ağırlık (kg.)
4F 3-C 300	410	1.000
4F 3-C 400	510	1.230
4F 3-C 500	610	1.470
4F 3-C 600	710	1.710



threaded rod M 8 x 1000 **4F 3-M 8**
askı tiji

threaded rod M 10 x 1000 **4F 3-M 10**
askı tiji

threaded rod M 12 x 1000 **4F 3-M 12**
askı tiji

Steel Expansion Bolts

Çektirmeli Tip Çelik Dübeller

Order No. Sipariş No.	bolt civata	Outer dia. Ø Dış çap (mm)	Weight appr. Ağırlık (kg)
4F 4 - M 8 A	M 8	10	0.040
4F 4 - M 10 A	M 10	12	0.080
4F 4 - M 12 A	M 12	14	0.120



Steel Dowels

Çakmalı Tip Çelik Dübeller

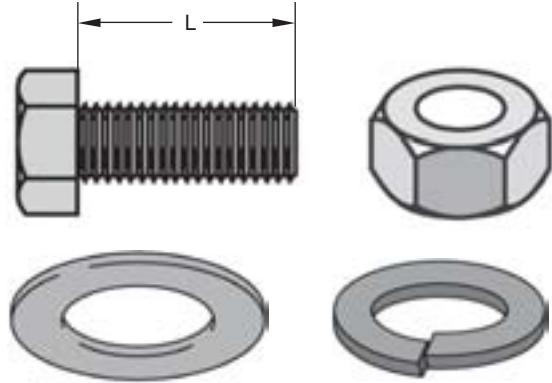
Order No. Sipariş No.	bolt civata	Outer dia. Ø Dış çap (mm)	Weight appr. Ağırlık (kg)
4F 4-M 6 B	M6	8	0.008
4F 4-M 8 B	M8	10	0.014
4F 4-M 10 B	M10	12	0.025
4F 4-M 12 B	M12	14	0.032



Bolts

Civatalar

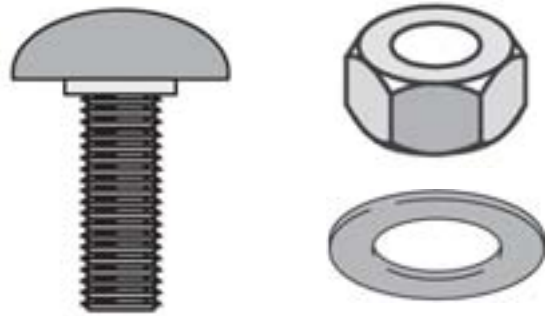
Order No. Sipariş No.	Thread Diş Ölçüsü	L (mm)	Weight appr. Ağırlık (kg)
4F 3-M 6 B	M6	15	0.006
4F 3-M 8 B	M8	20	0.012
4F 3-M 10 B	M10	25	0.023
4F 3-M 12 B	M12	30	0.038
4F 3-M 6 N	M6	nut	0.002
4F 3-M 8 N	M8	nut	0.005
4F 3-M 10 N	M10	nut	0.010
4F 3-M 12 N	M12	nut	0.016



Mushroom head bolts

Bombe başlı civatalar

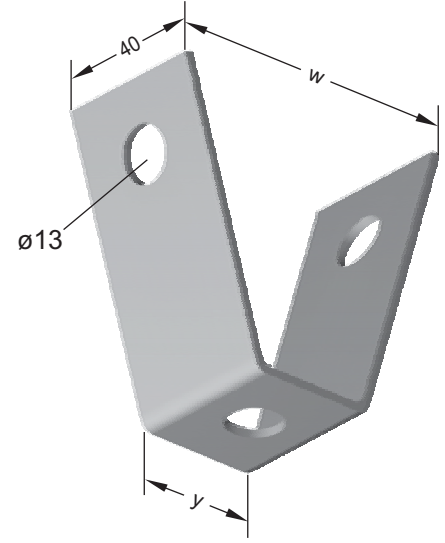
Order No. Sipariş No.	Thread Diş Ölçüsü	L (mm)	Weight appr. Ağırlık (kg)
4F 5-M 6 BB	M6	15	0.006
4F 5-M 8 BB	M8	15	0.008
4F 3-M 6 N	M6	nut	0.002
4F 3-M 8 N	M8	nut	0.005



Ceiling fixing piece, 4F 6
Tavan tespit elemanı, 4F 6

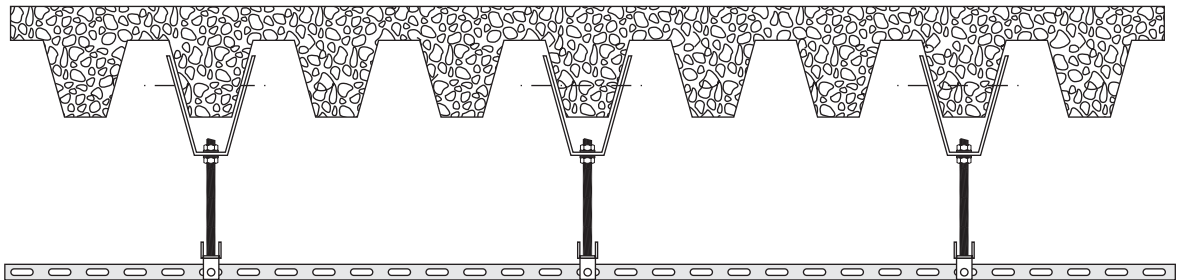
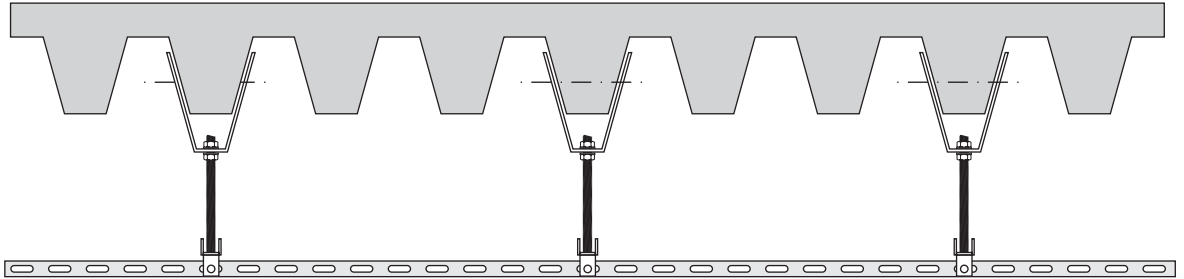
- Trapez
- Prekast, tavan uygulamalarında kullanılır.

Special dimensions are also available.
Özel ölçülerde imalat yapılmaktadır. (w,y = ...)



Application & Fixing Details

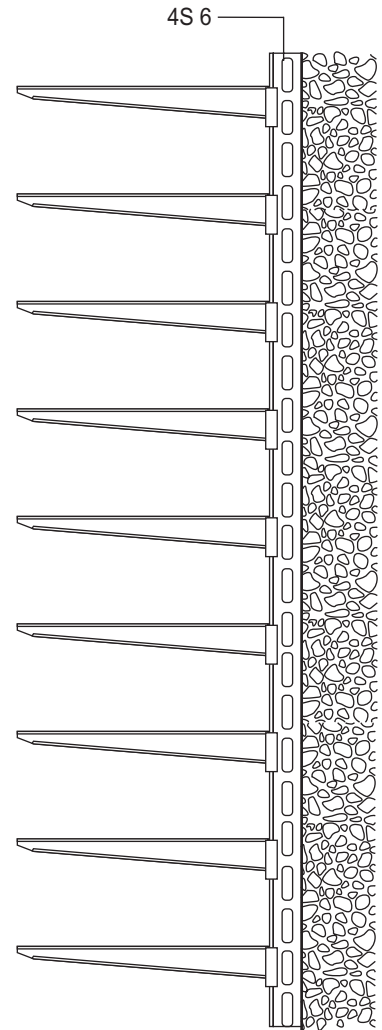
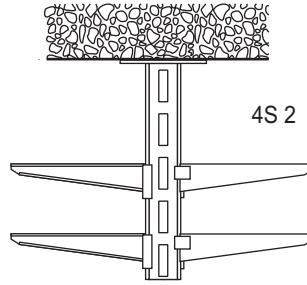
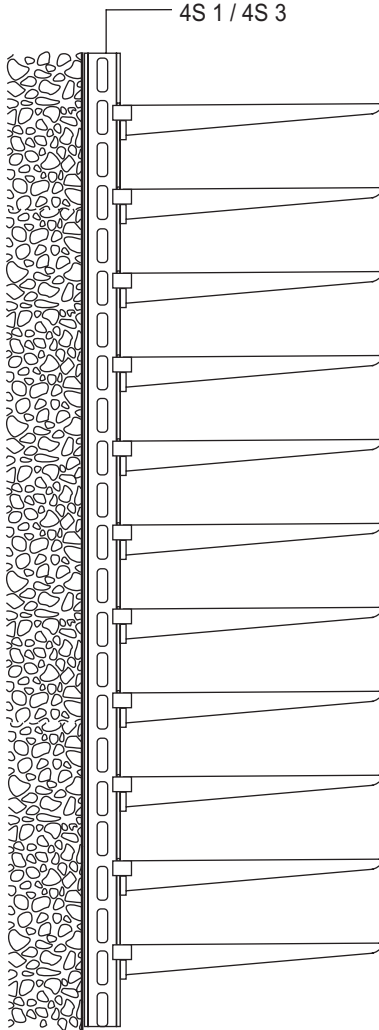
Uygulama ve Montaj Detayları



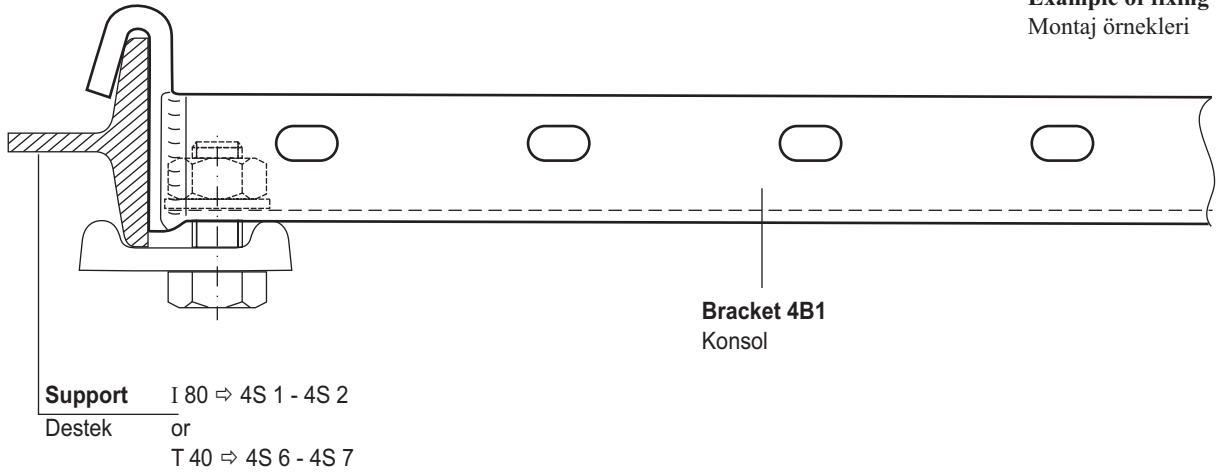
Brackets for supports
Destek konsolları

Application & Fixing Details
Uygulama ve Montaj Detayları

Application examples
Uygulama örnekleri



Example of fixing
Montaj örnekleri



Fixing to the bracket for continuously adjustable fixing to profiles I 80 & T 40.
Konsol, I 80 ve T 40 profil üzerinde çok hassas milimetrik olarak ayarlanabilir.

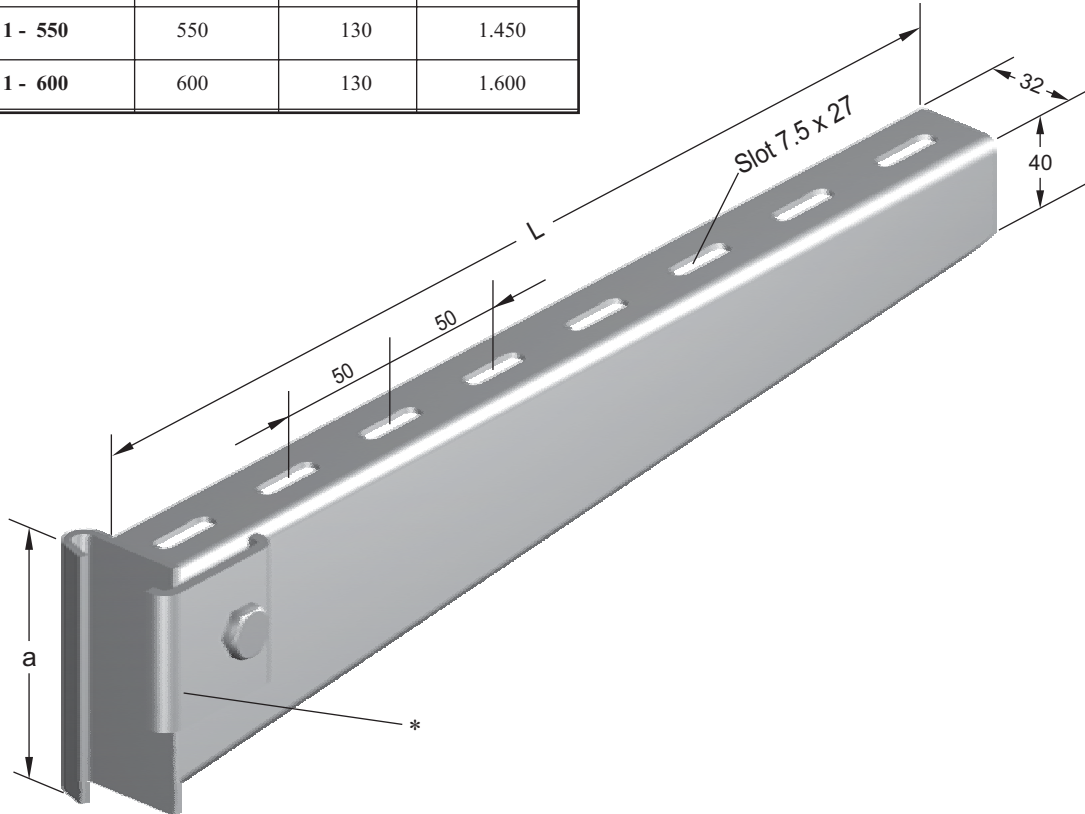
Brackets for fixing supports, hot dip galvanized according to EN ISO 1461.
continuously adjustable, to be used with I supports I 80 and T supports T 40

Destek Konsolları TS 914'e uygun sıcak daldırma galvanizlidir.
I ve T desteklerle (I 80 - T 40) birlikte kullanılır, çok hassas ayar yapılabilir.

Order No Sipariş No	L (mm)	a (mm)	Weight appr. Ağırlık kg.
4B 1 - 050	50	90	0.350
4B 1 - 070	70	90	0.400
4B 1 - 100	100	90	0.450
4B 1 - 150	150	90	0.550
4B 1 - 200	200	90	0.650
4B 1 - 250	250	90	0.700
4B 1 - 300	300	90	0.800
4B 1 - 350	350	90	0.900
4B 1 - 400	400	90	1.000
4B 1 - 450	450	130	1.250
4B 1 - 500	500	130	1.350
4B 1 - 550	550	130	1.450
4B 1 - 600	600	130	1.600

Max. permissible load at $\frac{1}{2}L = 360$ kg.
= 3.6 kN

Max. taşıyabileceği yük $\frac{1}{2}L = 360$ kg.
= 3.6 kN



* including fixing clamp.
* Montaj kelepçesi dahildir.

Brackets heavy duty design, for fixing to I 80 supports, hot dip galvanized according to EN ISO 1461, continuously adjustable.
Especially for wide span cable ladders and trays.

Ağır hizmet tipi destek (I 80) konsolları TS 914'e uygun sıcak daldırma galvanizli olup, çok hassas ayar yapılabilir.
Geniş yanaklı kablo merdiven ve kanalları ile kullanılabilir.

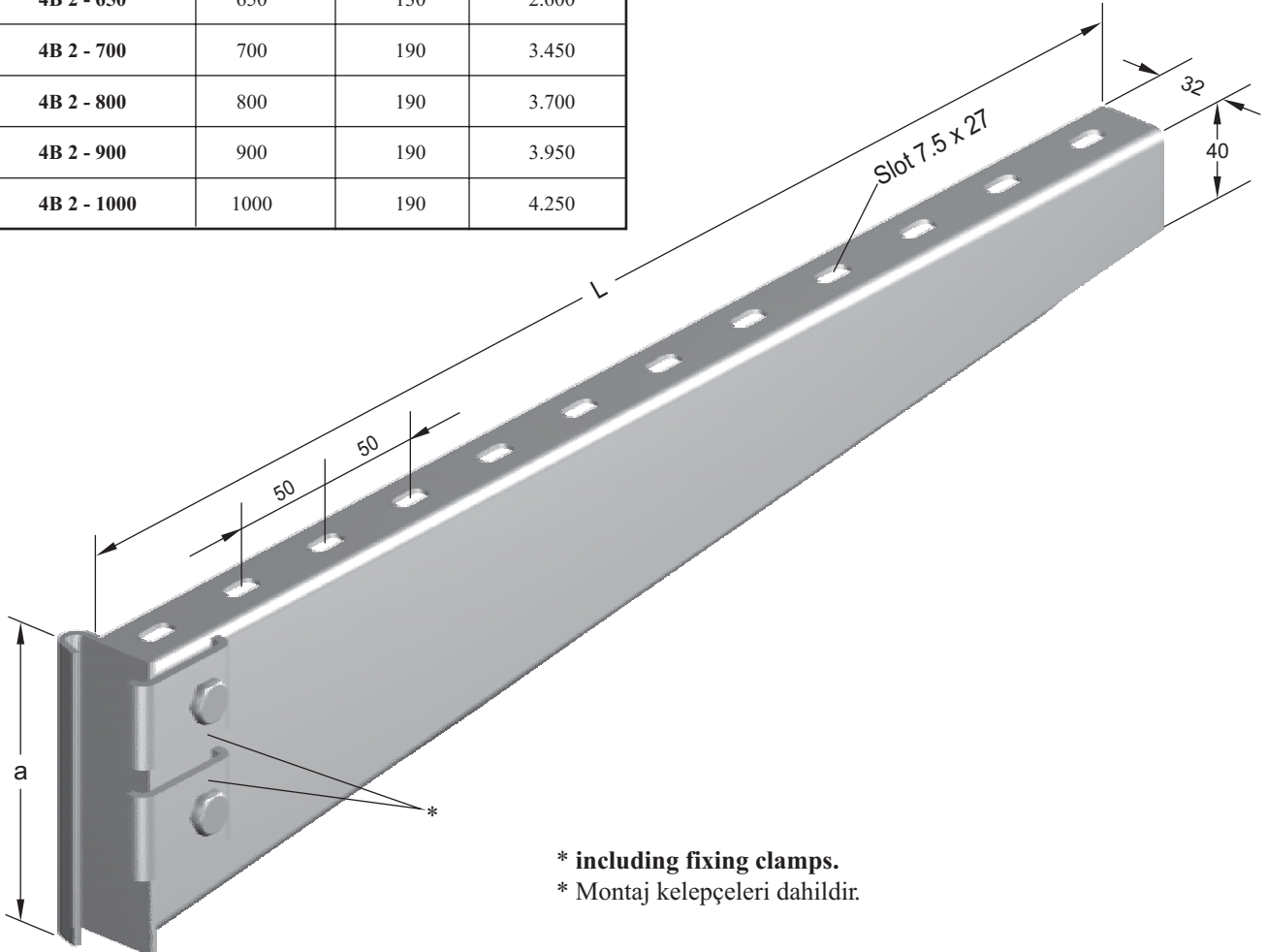
Brackets for I 80 supports type 4 S1 & 4 S2

4 S1 ve 4 S2 tipi I 80 destekler için konsollar

Order No Sipariş No	L (mm)	a (mm)	Weight appr. Ağırlık (kg.)
4B 2 - 200	200	130	1.000
4B 2 - 250	250	130	1.100
4B 2 - 300	300	130	1.200
4B 2 - 350	350	130	1.450
4B 2 - 400	400	130	1.600
4B 2 - 450	450	130	1.700
4B 2 - 500	500	130	1.900
4B 2 - 550	550	130	2.000
4B 2 - 600	600	130	2.300
4B 2 - 650	650	130	2.600
4B 2 - 700	700	190	3.450
4B 2 - 800	800	190	3.700
4B 2 - 900	900	190	3.950
4B 2 - 1000	1000	190	4.250

Max. permissible load at $\frac{1}{2}L = 500$ kg.
= 5 kN

Max. taşıyabileceği yük $\frac{1}{2}L = 500$ kg.
= 5 kN



* including fixing clamps.
* Montaj kelepçeleri dahildir.

Brackets for fixing to a wall, are hot dip galvanized according to EN ISO 1461.

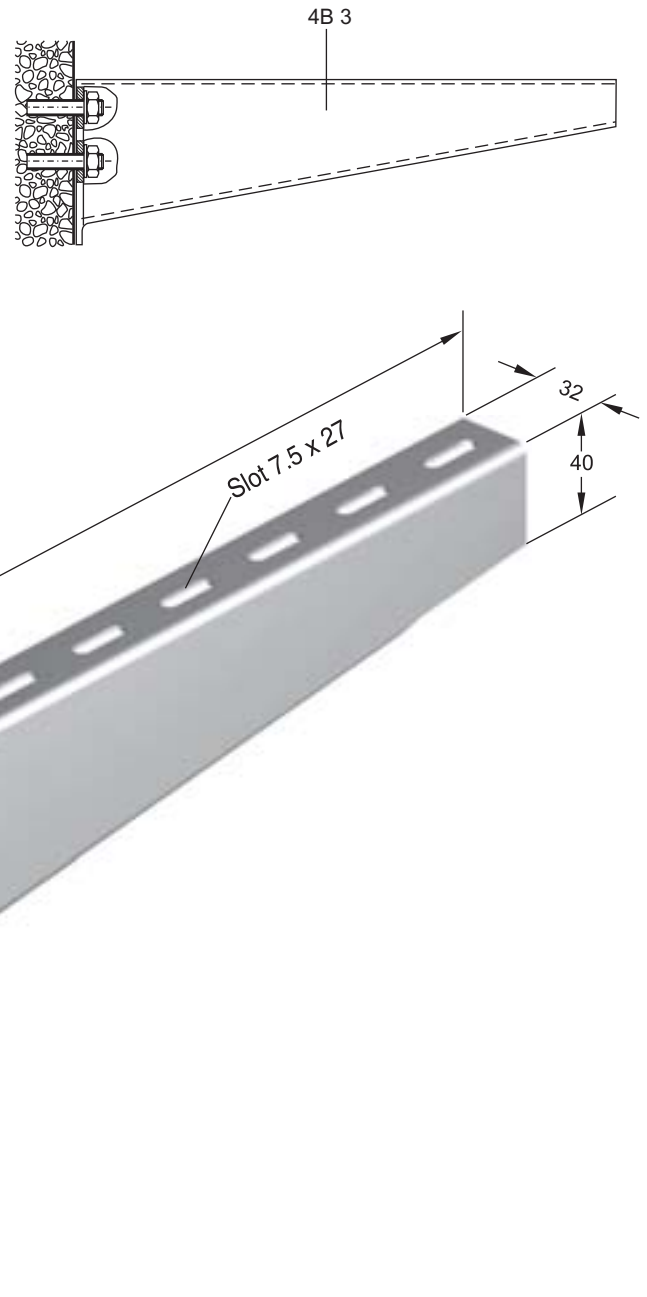
Fixing to concrete walls with steel expansion bolts.

Duvar konsolları TS 914'e uygun sıcak daldırma galvanizli olup, beton duvara çelik dübellerle montaj yapılır.

Order No Sipariş No	L (mm)	a (mm)	Weight appr. Ağırlık (kg.)
4B 3 - 050	50	90	0.200
4B 3 - 070	70	90	0.240
4B 3 - 100	100	90	0.300
4B 3 - 150	150	90	0.350
4B 3 - 200	200	90	0.450
4B 3 - 250	250	90	0.550
4B 3 - 300	300	90	0.600
4B 3 - 350	350	90	0.700
4B 3 - 400	400	90	0.750
4B 3 - 450	450	130	1.050
4B 3 - 500	500	130	1.150
4B 3 - 550	550	130	1.250
4B 3 - 600	600	130	1.350
4B 3 - 650	650	130	1.550
4B 3 - 700	700	130	1.650

Max. permissible load at $\frac{1}{2}L = 400 \text{ kg.}$
= 4.0 kN

Max. taşıyabileceği yük $\frac{1}{2}L = 400 \text{ kg.}$
= 4.0 kN



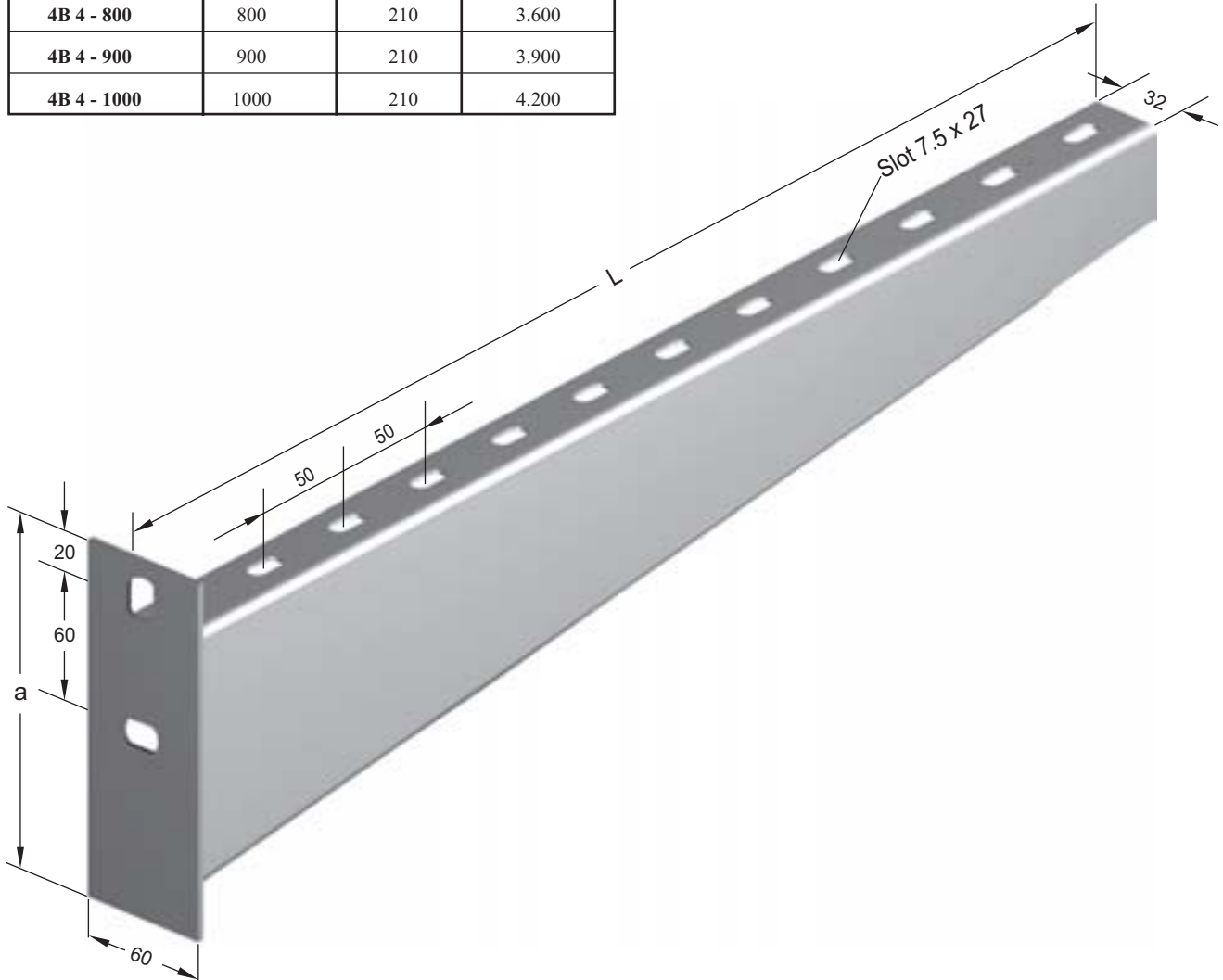
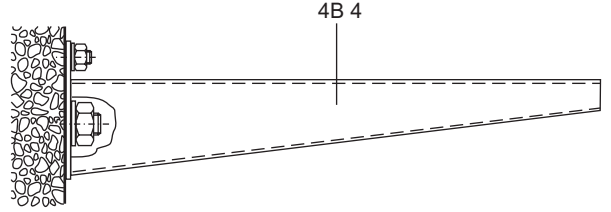
Brackets, heavy duty design, for fixing to walls, hot dip galvanized according to EN ISO 1461.
Especially for wide span cable ladders and trays-heavy loads.

Ağır hizmet tipi duvar konsolları, TS 914'e uygun sıcak daldırma galvanizlidir.
Geniş yanaklı kablo merdiven ve kanalları ile ağır yükler için kullanılabilir.

Order No Sipariş No	L (mm)	a (mm)	Weight appr. Ağırlık (kg.)
4B 4 - 200	200	175	1.100
4B 4 - 250	250	175	1.200
4B 4 - 300	300	175	1.300
4B 4 - 350	350	175	1.600
4B 4 - 400	400	175	1.700
4B 4 - 450	450	175	1.800
4B 4 - 500	500	175	1.950
4B 4 - 550	550	175	2.100
4B 4 - 600	600	175	2.500
4B 4 - 650	650	175	2.650
4B 4 - 700	700	210	3.300
4B 4 - 800	800	210	3.600
4B 4 - 900	900	210	3.900
4B 4 - 1000	1000	210	4.200

Max. permissible load at $\frac{1}{2}L = 500$ kg.
= 5.0 kN

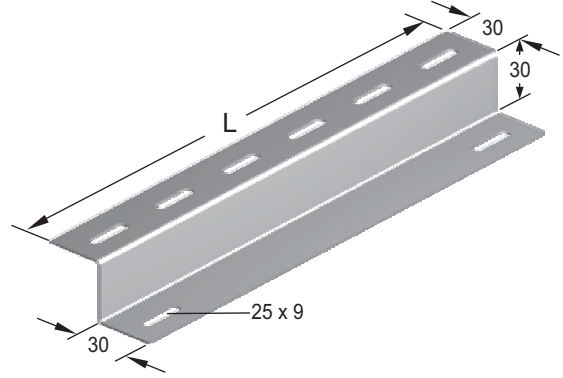
Max. taşıyabileceği yük $\frac{1}{2}L = 500$ kg.
= 5.0 kN



Brackets for wall & floor

Kanal Yükseltme Konsolları

Order No Sipariş No	L (mm)	e (mm)	Weight appr. Ağırlık (kg.)
4B 5 - 050	50	1.55	0.055
4B 5 - 070	70	1.55	0.080
4B 5 - 100	100	1.55	0.110
4B 5 - 150	150	1.55	0.165
4B 5 - 200	200	1.55	0.220
4B 5 - 250	250	1.55	0.275
4B 5 - 300	300	2.05	0.420
4B 5 - 400	400	2.05	0.560
4B 5 - 500	500	2.05	0.700
4B 5 - 600	600	2.05	0.840



Application and Fixing Details

Uygulama ve Montaj Detayları

