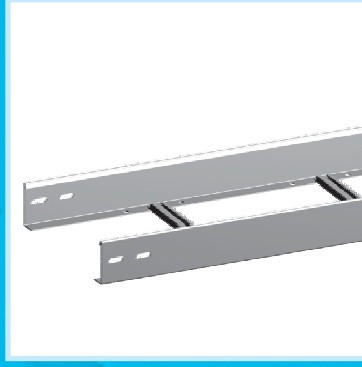


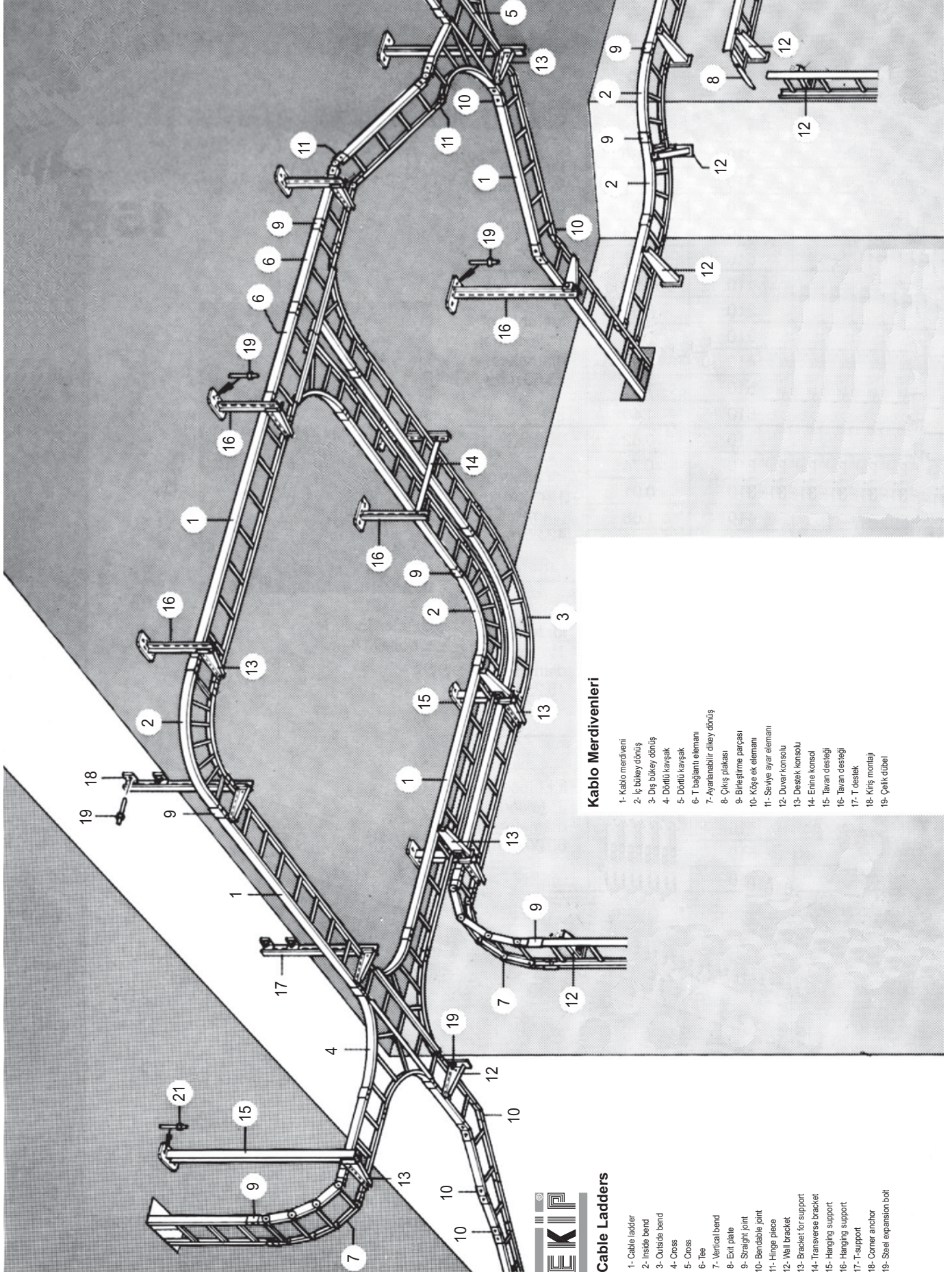


Kablo Merdivenleri



Cable Ladders



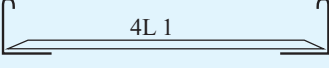
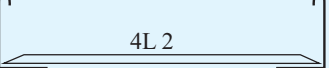
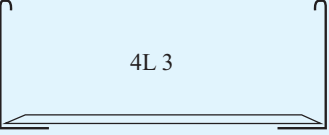


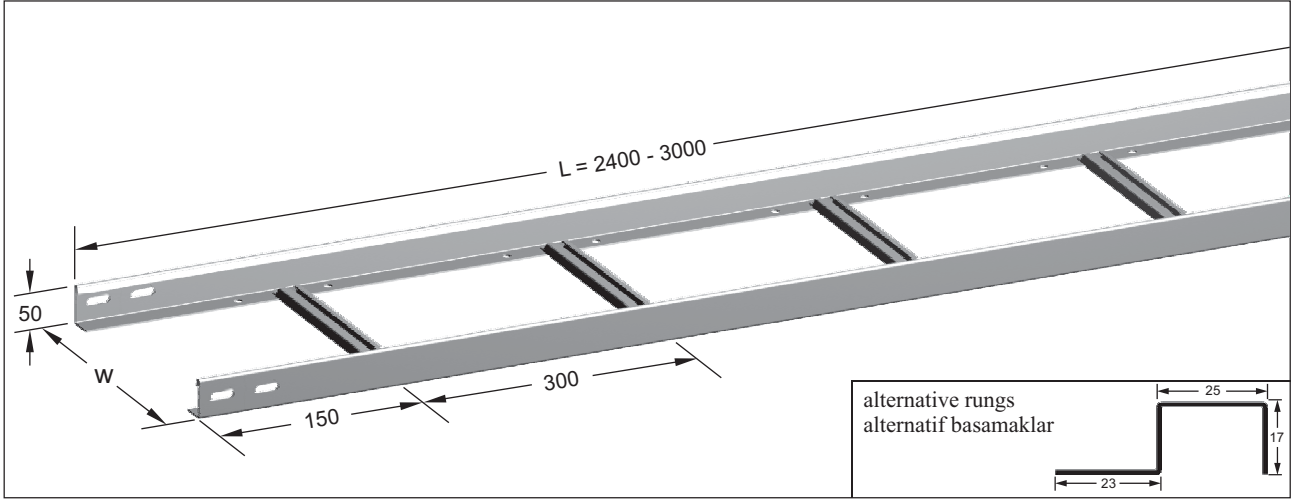
Kablo Merdivenleri

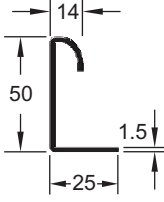
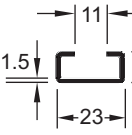
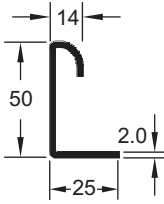
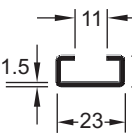
- 1- Kablo merdiveni
- 2- İç bükme dönüş
- 3- Dış bükme dönüş
- 4- Dönümlü kavşak
- 5- Dönümlü kavşak
- 6- T bağlantı elemanı
- 7- Ayarlanabilir dikey dönüş
- 8- Çıkış plakası
- 9- Birleştirme parçası
- 10- Köşe ek elemanı
- 11- Seviye ayar elemanı
- 12- Duvar konsolu
- 13- Destek konsolu
- 14- Eline konsol
- 15- Tavan desteği
- 16- Tavan desteği
- 17- T destek
- 18- Kiriş montajı
- 19- Çelik dölbel

Cable Ladders

- 1- Cable ladder
- 2- Inside bend
- 3- Outside bend
- 4- Cross
- 5- Cross
- 6- Tee
- 7- Vertical bend
- 8- Exit plate
- 9- Straight joint
- 10- Bendable joint
- 11- Hinge piece
- 12- Wall bracket
- 13- Bracket for support
- 14- Transverse bracket
- 15- Hanging support
- 16- Hanging support
- 17- T-support
- 18- Corner anchor
- 19- Steel expansion bolt

CABLE LADDERS	KABLO MERDİVENLERİ	page/sayfa
Height of side member : 50 mm (Maximum support spacing : 3 m) Merdiven yanak yüksekliği : 50 mm (Maksimum destek aralığı : 3 m)		L 2
Height of side member : 60 mm (Maximum support spacing : 3 m) Merdiven yanak yüksekliği : 60 mm (Maksimum destek aralığı : 3 m)		L 3
Height of side member : 100 mm (Maximum support spacing : 4 m) Merdiven yanak yüksekliği : 100 mm (Maksimum destek aralığı : 4 m)		L 4
Bends, 90° Köşe dönüşler, 90°	4L 11-12-13	L 5
T Junctions (Tee) T Bağlantılar	4L 21-22-23	L 5
+ Junctions (Crossing) + Bağlantılar	4L 31-32-33	L 6
Flexible bends Ayarlanabilir dönüşler	4L 41-42-43	L 6
Reduction plates Redüksiyonlar	4L 51-52-53 4L 54-55-56	L 7
Accessories Exit plates Covers Locking device Fixing clips Divider strips	Aksesuarlar Çıkış Plakaları Kapaklar Kapak kilit elemanı Kapak kelepçeleri Seperatörler	4L 61-71 L 8
Jointing pieces Birleştirme parçaları	4L 81 - 91 - 92	L 9
Ladder jointing clamp Merdiveni zeminden yükseltme ve birleştirme parçası	4L 82	L 10



Sides Yanaklar	Rungs Basamaklar	Order No. Sipariş No.	W (mm)	Weight app. Ağırlık (kg/m)
		4L 1- 100 L	100	2.300
		4L 1- 150 L	150	2.400
		4L 1- 200 L	200	2.500
		4L 1- 250 L	250	2.600
		4L 1- 300 L	300	2.700
		4L 1- 400 L	400	2.900
		4L 1- 500 L	500	3.100
		4L 1- 600 L	600	3.300
		4L 1- 100 H	100	3.000
		4L 1- 150 H	150	3.100
		4L 1- 200 H	200	3.200
		4L 1- 250 H	250	3.300
		4L 1- 300 H	300	3.400
		4L 1- 400 H	400	3.600
		4L 1- 500 H	500	3.800
		4L 1- 600 H	600	4.000

Cable Ladders height of side member 50 mm.

Rungs of C-profile

(L) Light duty design

(H) Heavy duty design

Kablo merdiven yanak yüksekliği 50 mm.

Basamaklar C-profil

(L) Hafif tip

(H) Ağır hizmet tipi

Cable ladders are collapsible for

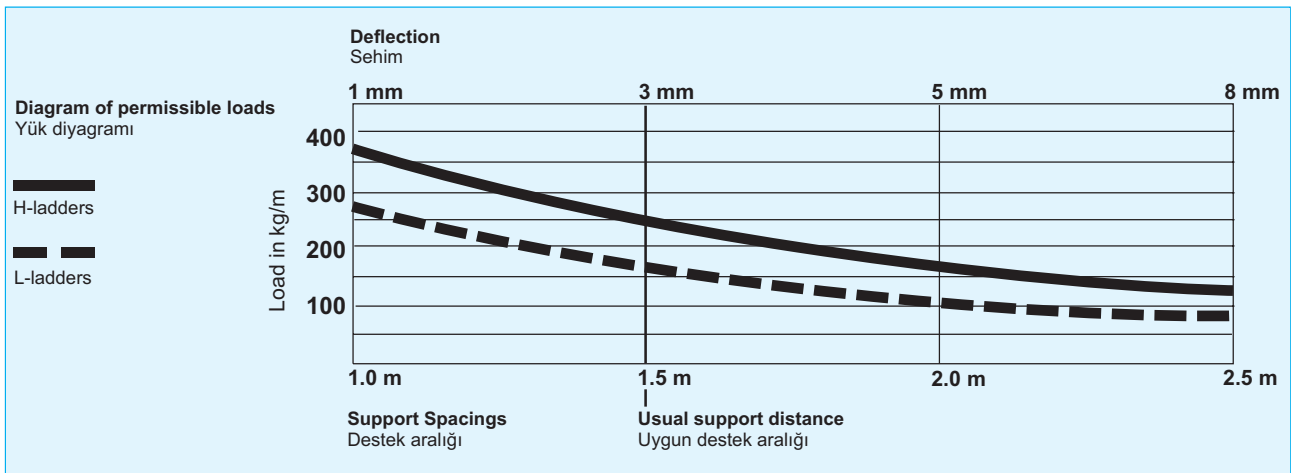
transport total length appr. L+W

(with rungs of C-profile)

Kablo merdivenleri taşıma için katlanabilir.

Toplam boy yaklaşık L+W olur.

(C-profil basamaklarla)

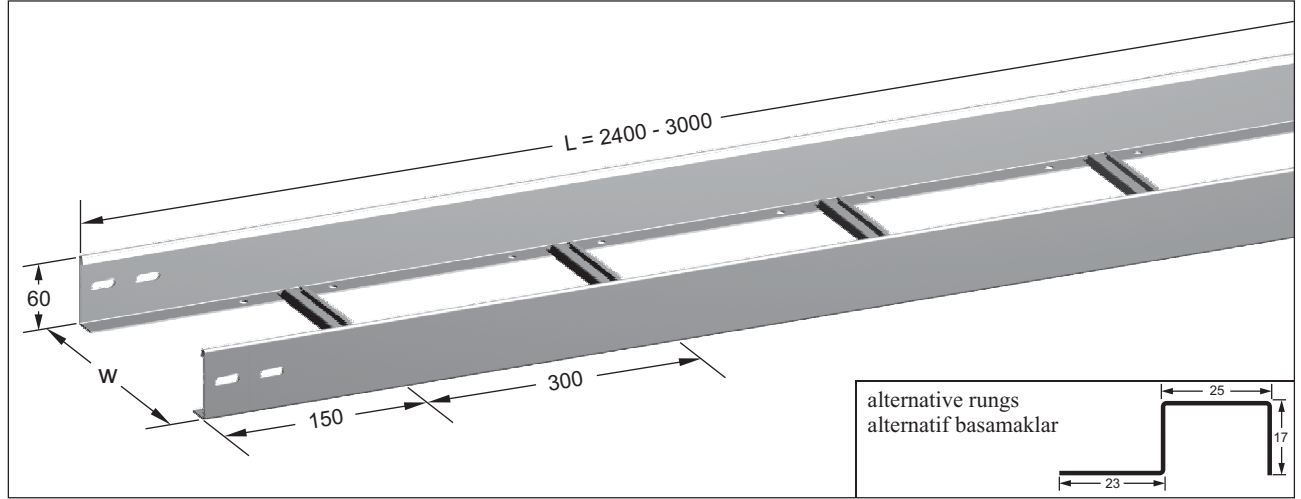


Cable ladders made of continuously hot galvanized sheet steel (EN 10142) or after manufactured hot dip galvanized (EN ISO 1461) and electrogalvanized (DIN 50961). Maximum support spacing 3 m.

Cable ladders with special dimensions are also available.

Kablo merdivenleri sıcak galvanizli sacdan (pregalvaniz-TS 822) veya imalattan sonra sıcak daldırma galvanizli (TS 914) ve elektrogalvanizli (TS 149) olarak üretilmektedir.

Özel ölçülerde kablo merdivenleri imalatı yapılabilir.



Sides Yanaklar	Rungs Basamaklar	Order No. Sipariş No.	W (mm)	Weight app. Ağırlık (kg/m)
		4L 2- 100 L	100	2.500
		4L 2- 150 L	150	2.600
		4L 2- 200 L	200	2.700
		4L 2- 250 L	250	2.800
		4L 2- 300 L	300	2.900
		4L 2- 400 L	400	3.200
		4L 2- 500 L	500	3.400
		4L 2- 600 L	600	3.600
		4L 2- 100 H	100	3.350
		4L 2- 150 H	150	3.450
		4L 2- 200 H	200	3.550
		4L 2- 250 H	250	3.650
		4L 2- 300 H	300	3.750
		4L 2- 400 H	400	3.950
		4L 2- 500 H	500	4.150
		4L 2- 600 H	600	4.350

Cable Ladders height of side member 60 mm.

Rungs of C-profile

(L) Light duty design

(H) Heavy duty design

Kablo merdiven yanak yüksekliği 60 mm.

Basamaklar C-profil

(L) Hafif tip

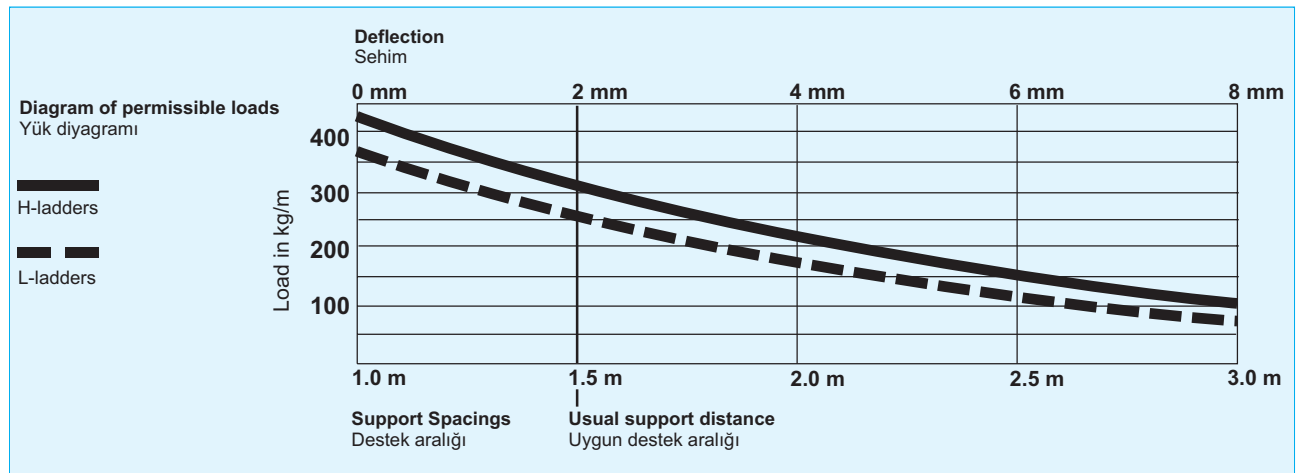
(H) Ağır hizmet tipi

Cable ladders are collapsible for transport total length app. L+W (with rungs of C-profile)

Kablo merdivenleri taşıma için katlanabilir.

Toplam boy yaklaşık L+W olur.

(C-profil basamaklarla)

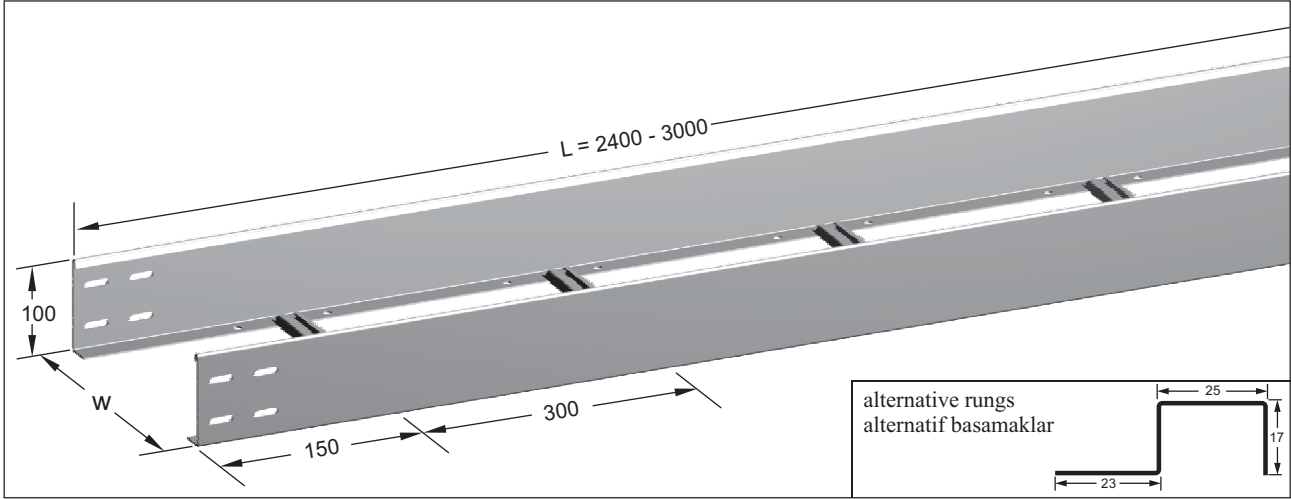


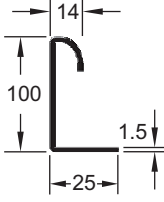
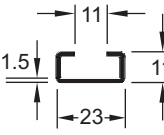
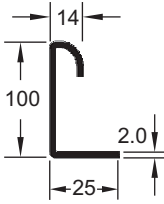
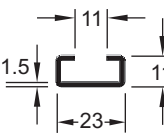
Cable ladders made of continuously hot galvanized sheet steel (EN 10142) or after manufactured hot dip galvanized (EN ISO 1461) and electrogalvanized (DIN 50961). Maximum support spacing 3 m.

Cable ladders with special dimensions are also available.

Kablo merdivenleri sıcak galvanizli sacdan (pregalvaniz-TS 822) veya imalattan sonra sıcak daldırma galvanizli (TS 914) ve elektrogalvanizli (TS 149) olarak üretilmektedir.

Özel ölçülerde kablo merdivenleri imalatı yapılabilir.



Sides Yanaklar	Rungs Basamaklar	Order No. Sipariş No.	W (mm)	Weight app. Ağırlık (kg/m)
		4L 3- 100 L	100	3.500
		4L 3- 150 L	150	3.600
		4L 3- 200 L	200	3.700
		4L 3- 250 L	250	3.800
		4L 3- 300 L	300	3.900
		4L 3- 400 L	400	4.100
		4L 3- 500 L	500	4.300
		4L 3- 600 L	600	4.500
		4L 3- 100 H	100	4.500
		4L 3- 150 H	150	4.600
		4L 3- 200 H	200	4.700
		4L 3- 250 H	250	4.800
		4L 3- 300 H	300	4.900
		4L 3- 400 H	400	5.200
		4L 3- 500 H	500	5.400
		4L 3- 600 H	600	5.600

Cable Ladders height of side member 100 mm.

Rungs of C-profile

(L) Light duty design

(H) Heavy duty design

Kablo merdiven yanak yüksekliği 100 mm.

Basamaklar C-profil

(L) Hafif tip

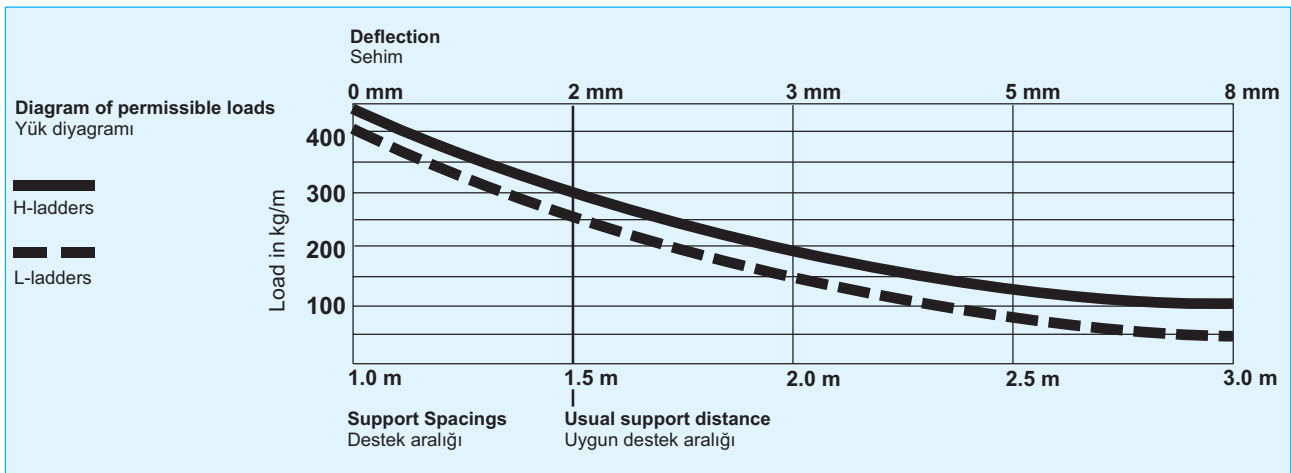
(H) Ağır hizmet tipi

Cable ladders are collapsible for
transport total length appr. L+W
(with rungs of C-profile)

Kablo merdivenleri taşıma için katlanabilir.

Toplam boy yaklaşık L+W olur.

(C-profil basamaklarla)

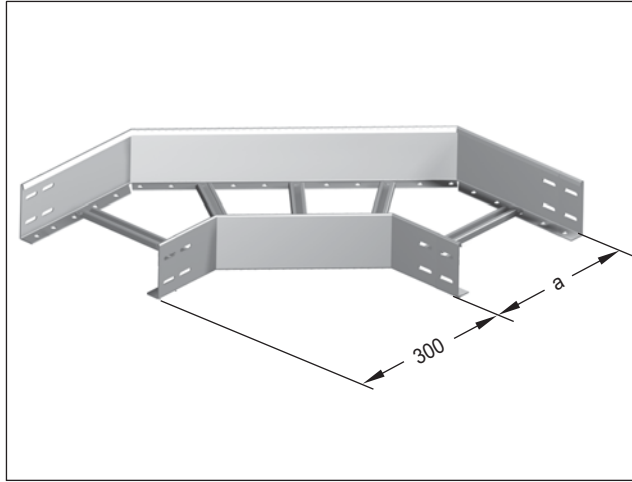


Cable ladders made of continuously hot galvanized sheet steel (EN 10142) or after manufactured hot dip galvanized (EN ISO 1461) and electrogalvanized (DIN 50961). Maximum support spacing 4 m.

Cable ladders with special dimensions are also available.

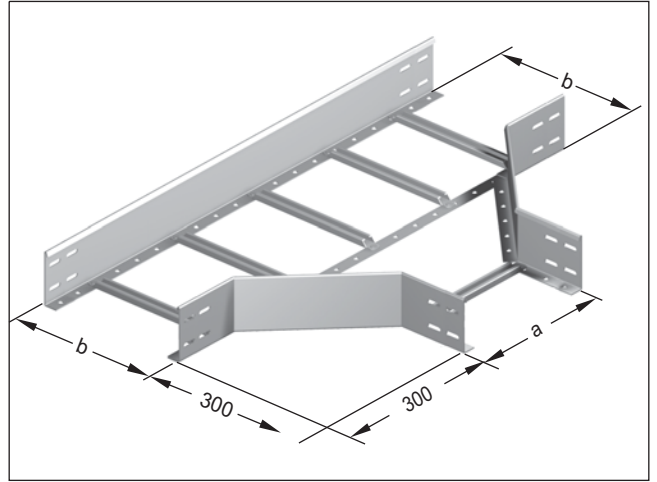
Kablo merdivenleri sıcak galvanizli sacdan (pregalvaniz-TS 822) veya imalattan sonra sıcak daldırma galvanizli (TS 914) ve elektrogalvanizli (TS 149) olarak üretilmektedir.

Özel ölçülerde kablo merdivenleri imalatı yapılabilir.



Bend 90°

90° köşe dönüş elemanı



Tee junction

T bağlantı elemanı

Small bend 90° R=165 mm.

Dar tip köşe dönüş 90°

Small Tee R=165 mm.

Dar tip T bağlantı elemanı

Order No. Sipariş No.	a (mm)	h (mm)	Weight appr. Ağırlık (kg)
4L 11- 100 S	100	50	1.700
4L 11- 150 S	150	50	1.900
4L 11- 200 S	200	50	2.100
4L 11- 250 S	250	50	2.300
4L 11- 300 S	300	50	2.500
4L 11- 400 S	400	50	3.600
4L 11- 500 S	500	50	4.000
4L 11- 600 S	600	50	4.600

4L 12- 100 S	100	60	2.000
4L 12- 150 S	150	60	2.300
4L 12- 200 S	200	60	2.500
4L 12- 250 S	250	60	2.800
4L 12- 300 S	300	60	3.000
4L 12- 400 S	400	60	4.300
4L 12- 500 S	500	60	4.900
4L 12- 600 S	600	60	5.400

4L 13- 100 S	100	100	3.600
4L 13- 150 S	150	100	4.000
4L 13- 200 S	200	100	4.400
4L 13- 250 S	250	100	4.800
4L 13- 300 S	300	100	5.200
4L 13- 400 S	400	100	6.000
4L 13- 500 S	500	100	6.800
4L 13- 600 S	600	100	7.600

Order No. Sipariş No.	a=b (mm)	h (mm)	Weight appr. Ağırlık (kg)
4L 21- 100 S	100	50	2.500
4L 21- 150 S	150	50	2.700
4L 21- 200 S	200	50	2.900
4L 21- 250 S	250	50	3.200
4L 21- 300 S	300	50	3.400
4L 21- 400 S	400	50	4.600
4L 21- 500 S	500	50	5.100
4L 21- 600 S	600	50	5.600

4L 22- 100 S	100	60	3.000
4L 22- 150 S	150	60	3.300
4L 22- 200 S	200	60	3.600
4L 22- 250 S	250	60	3.900
4L 22- 300 S	300	60	4.200
4L 22- 400 S	400	60	5.700
4L 22- 500 S	500	60	6.400
4L 22- 600 S	600	60	7.000

4L 23- 100 S	100	100	5.300
4L 23- 150 S	150	100	5.600
4L 23- 200 S	200	100	6.000
4L 23- 250 S	250	100	6.400
4L 23- 300 S	300	100	6.800
4L 23- 400 S	400	100	7.600
4L 23- 500 S	500	100	8.400
4L 23- 600 S	600	100	9.200

Small bend inner radius, R= 165 mm.

Large bend inner radius, R= 300 mm.

- Ordering example for large bends
e.g. L bend 4L 11-250 L

Dar tip köşe dönüş yarıçapı, R= 165 mm.

Geniş tip köşe dönüş yarıçapı, R= 300 mm.

- Geniş tip köşe dönüş sipariş örneği
Ör: L köşe dönüş 4L 11-250 L

Small Tee radius, R= 165 mm.

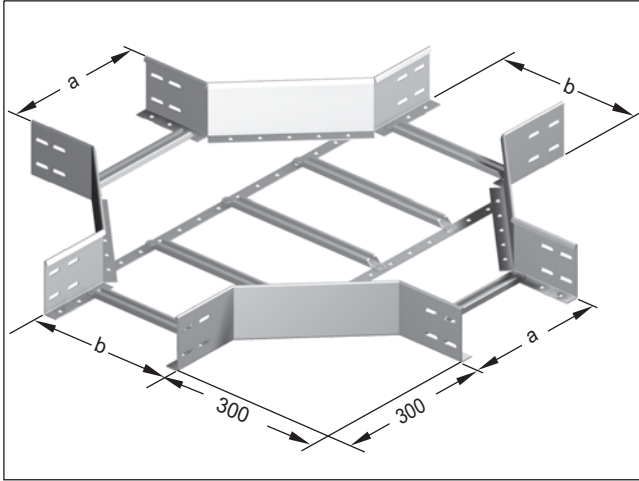
Large Tee radius, R= 300 mm.

- Ordering example for large Tee
e.g. T junction 4L 21-400 L

Dar tip T bağlantı dönüş yarıçapı, R= 165 mm.

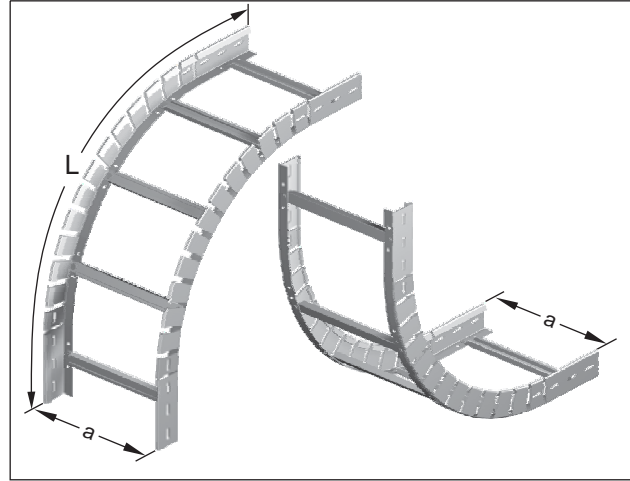
Geniş tip T bağlantı dönüş yarıçapı, R= 300 mm.

- Geniş tip T bağlantı sipariş örneği
Ör: T bağlantı 4L 21-400 L



Crossing

Dörtlü kavşak



Flexible vertical bends
(upward and downward)

Ayarlanabilir dikey dönüşler
(iç bükey ve dış bükey)

Small crossing R=165 mm.

Dar tip kavşak Flexible vertical bend

Ayarlanabilir dikey dönüş

Order No. Sipariş No.	a=b (mm)	h (mm)	Weight appr. Ağırlık (kg)	Order No. Sipariş No.	a (mm)	h (mm)	Weight appr. Ağırlık (kg)
4L 31- 100 S	100	50	3.000	4L 41- 100	100	50	2.300
4L 31- 150 S	150	50	3.250	4L 41- 150	150	50	2.400
4L 31- 200 S	200	50	3.500	4L 41- 200	200	50	2.500
4L 31- 250 S	250	50	3.800	4L 41- 250	250	50	2.600
4L 31- 300 S	300	50	4.100	4L 41- 300	300	50	2.700
4L 31- 400 S	400	50	5.400	4L 41- 400	400	50	2.900
4L 31- 500 S	500	50	5.900	4L 41- 500	500	50	3.100
4L 31- 600 S	600	50	6.400	4L 41- 600	600	50	3.300
4L 32- 100 S	100	60	3.700	4L 42- 100	100	60	2.500
4L 32- 150 S	150	60	4.100	4L 42- 150	150	60	2.600
4L 32- 200 S	200	60	4.400	4L 42- 200	200	60	2.700
4L 32- 250 S	250	60	4.700	4L 42- 250	250	60	2.800
4L 32- 300 S	300	60	5.000	4L 42- 300	300	60	2.900
4L 32- 400 S	400	60	6.600	4L 42- 400	400	60	3.200
4L 32- 500 S	500	60	7.300	4L 42- 500	500	60	3.400
4L 32- 600 S	600	60	8.000	4L 42- 600	600	60	3.600
4L 33- 100 S	100	100	6.500	4L 43- 100	100	100	4.500
4L 33- 150 S	150	100	6.900	4L 43- 150	150	100	4.600
4L 33- 200 S	200	100	7.300	4L 43- 200	200	100	4.700
4L 33- 250 S	250	100	7.700	4L 43- 250	250	100	4.800
4L 33- 300 S	300	100	8.100	4L 43- 300	300	100	4.900
4L 33- 400 S	400	100	8.900	4L 43- 400	400	100	5.200
4L 33- 500 S	500	100	9.700	4L 43- 500	500	100	5.400
4L 33- 600 S	600	100	10.500	4L 43- 600	600	100	5.600

Small crossing radius, R= 165 mm.

Large crossing radius, R= 300 mm.

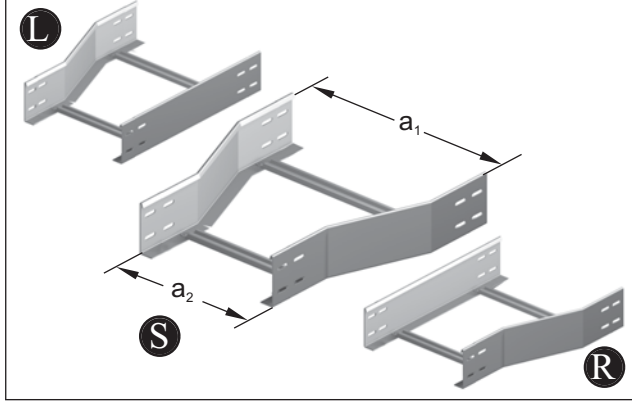
- Ordering example for large crossing
e.g. + crossing **4L 31-500 L**

Dar tip kavşak dönüş yarıçapı, R= 165 mm.

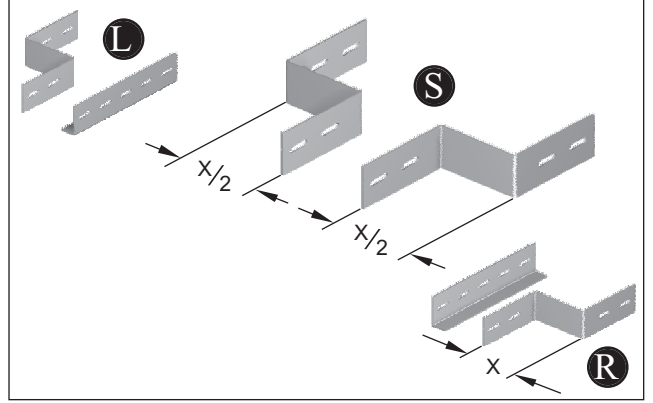
Geniş tip kavşak dönüş yarıçapı, R= 300 mm.

- Geniş tip kavşak sipariş örneği
Ör: + kavşak **4L 31-500 L**

L = 1000 mm.



Reduction plates



Redüksiyonlar Z Reduction plates

Z Redüksiyonlar

Reduction to straight S

Düz redüksiyon

Order No. Sipariş No.	a ₁ /a ₂ (mm)	h (mm)	Weight appr. Ağırlık (kg)
4L 51- 150 S	150/100	50	1.150
4L 51- 200 S	200/150	50	1.200
4L 51- 250 S	250/200	50	1.250
4L 51- 300 S	300/250	50	1.300
4L 51- 400 S	400/300	50	1.600
4L 51- 500 S	500/400	50	1.900
4L 51- 600 S	600/500	50	2.200

4 L1

Reduction to straight S

Düz redüksiyon

Order No. Sipariş No.	x (mm)	h (mm)	Weight appr. Ağırlık (kg)
4L 54- 50 S	50	50	0.445
4L 54- 100 S	100	50	0.485
4L 54- 150 S	150	50	0.525
4L 54- 200 S	200	50	0.565
4L 54- 300 S	300	50	0.605
4L 54- 400 S	400	50	0.645
4L 54- 500 S	500	50	0.725
4L 54- 600 S	600	50	0.805

4L 52- 150 S	150/100	60	1.300
4L 52- 200 S	200/150	60	1.400
4L 52- 250 S	250/200	60	1.500
4L 52- 300 S	300/250	60	1.600
4L 52- 400 S	400/300	60	2.000
4L 52- 500 S	500/400	60	2.200
4L 52- 600 S	600/500	60	2.400

4 L2

4L 55- 50 S	50	60	0.515
4L 55- 100 S	100	60	0.565
4L 55- 150 S	150	60	0.615
4L 55- 200 S	200	60	0.665
4L 55- 300 S	300	60	0.715
4L 55- 400 S	400	60	0.765
4L 55- 500 S	500	60	0.865
4L 55- 600 S	500	60	0.965

4L 53- 150 S	150/100	100	2.300
4L 53- 200 S	200/150	100	2.400
4L 53- 250 S	250/200	100	2.500
4L 53- 300 S	300/250	100	2.600
4L 53- 400 S	400/300	100	3.000
4L 53- 500 S	500/400	100	3.200
4L 53- 600 S	600/500	100	3.400

4 L3

4L 56- 50 S	50	100	0.890
4L 56- 100 S	100	100	0.970
4L 56- 150 S	150	100	1.050
4L 56- 200 S	200	100	1.130
4L 56- 300 S	300	100	1.210
4L 56- 400 S	400	100	1.290
4L 56- 500 S	500	100	1.450
4L 56- 600 S	500	100	1.610

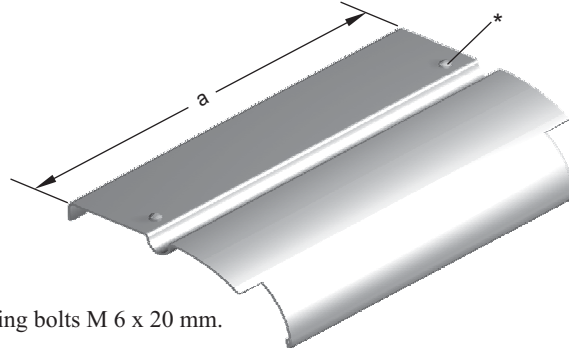
- Ordering example for left & right hand reduction
e.g. reduction to left hand **4L 51-300 L**
reduction to right hand **4L 51-500 R**
- Sağa ve sola redüksiyon sipariş örneği
Ör: Sola redüksiyon **4L 51-300 L**
Sağa redüksiyon **4L 51-500 R**

- Ordering example for left & right hand reduction
e.g. reduction to left hand **4L 54-300 L**
reduction to right hand **4L 54-500 R**
- Sağa ve sola redüksiyon sipariş örneği
Ör: Sola redüksiyon **4L 54-300 L**
Sağa redüksiyon **4L 54-500 R**

Exit plate

Çıkış plakası

Order No. Sipariş No.	a (mm)	Weight appr. Ağırlık (kg)
4L 61- 100	80	0.300
4L 61- 150	130	0.450
4L 61- 200	180	0.600
4L 61- 250	230	0.750
4L 61- 300	280	0.900
4L 61- 400	380	1.200
4L 61- 500	480	1.500
4L 61- 600	580	1.800

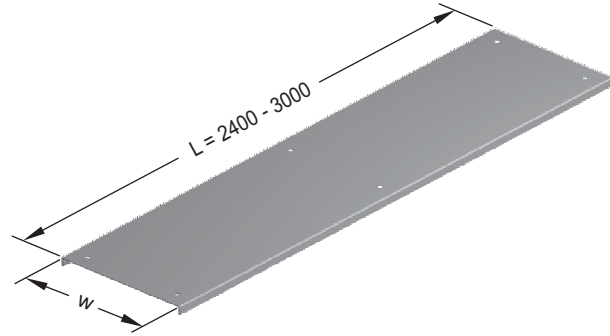


*Fixing bolts M 6 x 20 mm.

Cover (for tray and ladder)

Kapak (kanal ve merdiven için)

Order No. without locking	Order No. with locking	w (mm)	e (mm)	Weight appr. Ağırlık (kg/m)
4T 62- 50	4T 62- 50 L	55	1.25	0.850
4T 62- 70	4T 62- 70 L	75	1.25	1.000
4T 62- 100	4T 62- 100 L	105	1.25	1.350
4T 62- 150	4T 62- 150 L	155	1.25	1.850
4T 62- 200	4T 62- 200 L	205	1.25	2.350
4T 62- 250	4T 62- 250 L	255	1.55	3.535
4T 62- 300	4T 62- 300 L	305	1.55	4.150
4T 62- 400	4T 62- 400 L	405	1.55	5.395
4T 62- 500	4T 62- 500 L	505	2.05	8.560
4T 62- 600	4T 62- 600 L	605	2.05	10.160



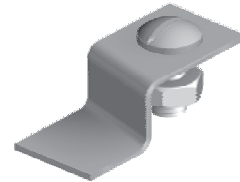
- Covers for bends, tees, crossings are also available
- Köşe dönüşler, T ve X bağlantılar için, kapak imalatı mümkündür.

Locking device for covers

Order no: 4T 62-L

Kapak kilit elemanı

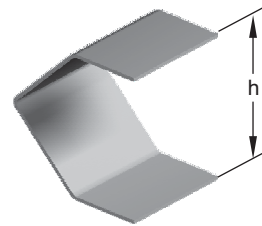
Sipariş no: 4T 62-L



Fixing clip for covers

Kapak kelepçesi

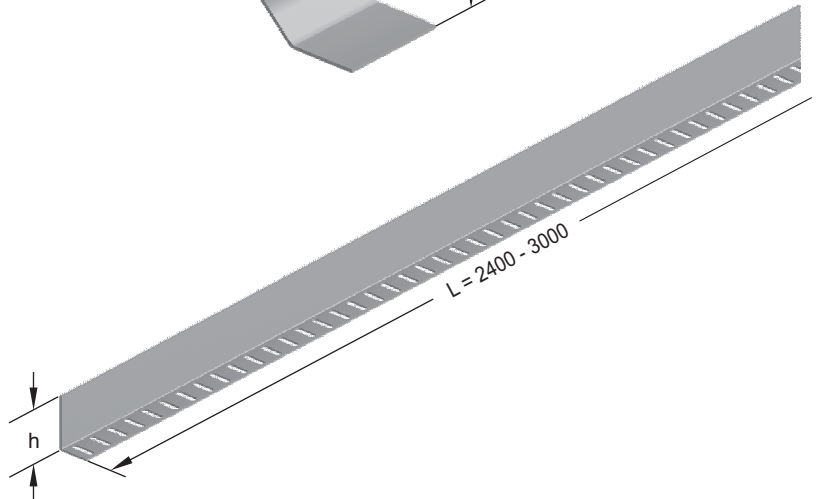
Order No. Sipariş No.	h (mm)	Weight appr. Ağırlık (kg)
4T 63- 50	47	0.017
4T 63- 60	57	0.018
4T 63- 100	97	0.024



Divider strip

Merdiven bölme elemanı (Seperatör)

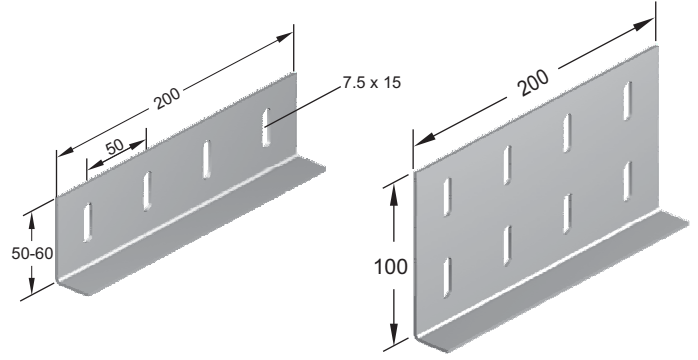
Order No. Sipariş No.	h (mm)	e (mm)	Weight appr. Ağırlık (kg/m)
4L 71- 50	33	1.55	0.780
4L 71- 60	43	1.55	0.800
4L 71- 100	83	1.55	1.360



Straight jointing piece

Düz birleştirme parçası

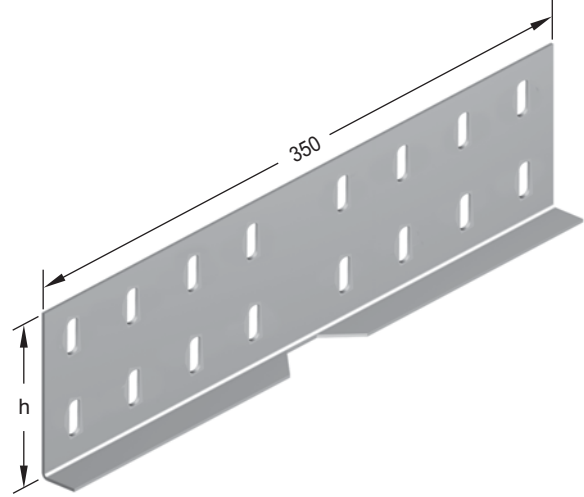
Order No. Sipariş No.	h (mm)	Weight appr. Ağırlık (kg)
4L 81 - 50	50	0.240
4L 81 - 60	60	0.270
4L 81 - 100	100	0.400



Bendable jointing piece

Köşe birleştirme parçası

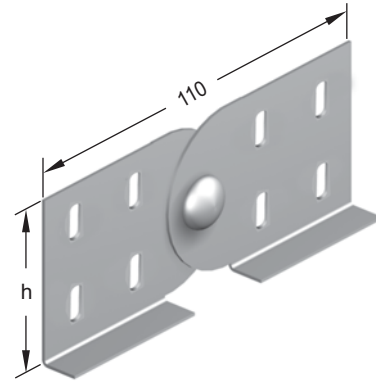
Order No. Sipariş No.	h (mm)	Weight appr. Ağırlık (kg)
4L 91 - 50	50	0.400
4L 91 - 60	60	0.450
4L 91 - 100	100	0.700



Hinge (levelling) piece

Seviye ayar parçası

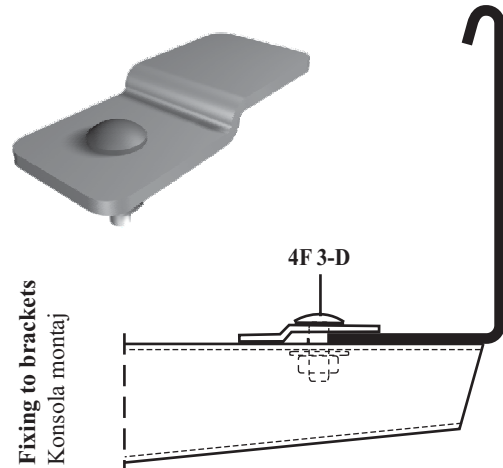
Order No. Sipariş No.	h (mm)	Weight appr. Ağırlık (kg)
4L 92 - 50	50	0.150
4L 92 - 60	60	0.165
4L 92 - 100	100	0.220



Hold down clamp

Sıkıştırma kelepçesi

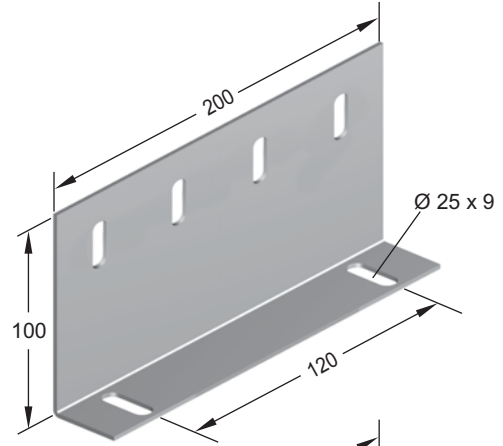
Order No. Sipariş No.	e (mm)	Weight appr. Ağırlık (kg)
4F 3 - D	2.0	0.013



Ladder jointing clamp Merdiveni zeminden yükseltme ve birleştirme elemanı

Order No. Sipariş No.	h (mm)	e (mm)	Weight appr. Ağırlık (kg)
4L 82 - 100	50 - 60	2.05	0.400

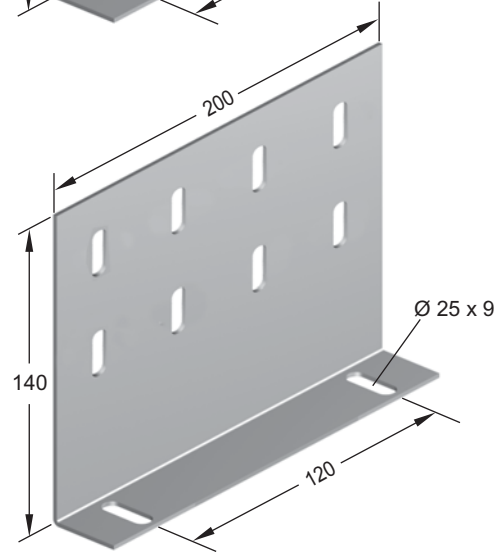
for h = 50 and 60 mm. Cable ladders
h = 50 ve 60 mm. olan kablo merdivenleri içindir.



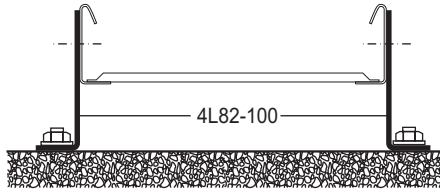
Ladder jointing clamp Merdiveni zeminden yükseltme ve birleştirme elemanı

Order No. Sipariş No.	h (mm)	e (mm)	Weight appr. Ağırlık (kg)
4L 82 - 140	100	2.05	0.530

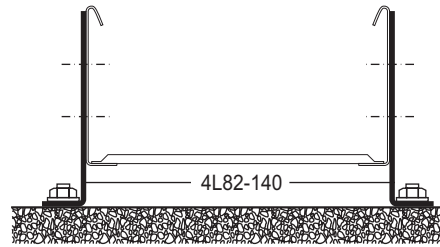
for h = 100 mm. Cable ladders
h = 100 mm. olan kablo merdivenleri içindir.



Application & Fixing Details

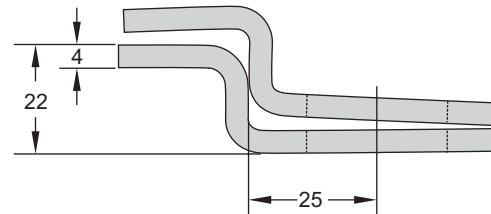


Uygulama ve Montaj Detayları



Wall clamp Duvar kelepçesi

Order No. Sipariş No.	e (mm)	Weight appr. Ağırlık (kg)
4F 3 - B	4.0	0.200



Application & Fixing Details
Uygulama ve Montaj Detayları

Fixing to wall
Duvar montajı

