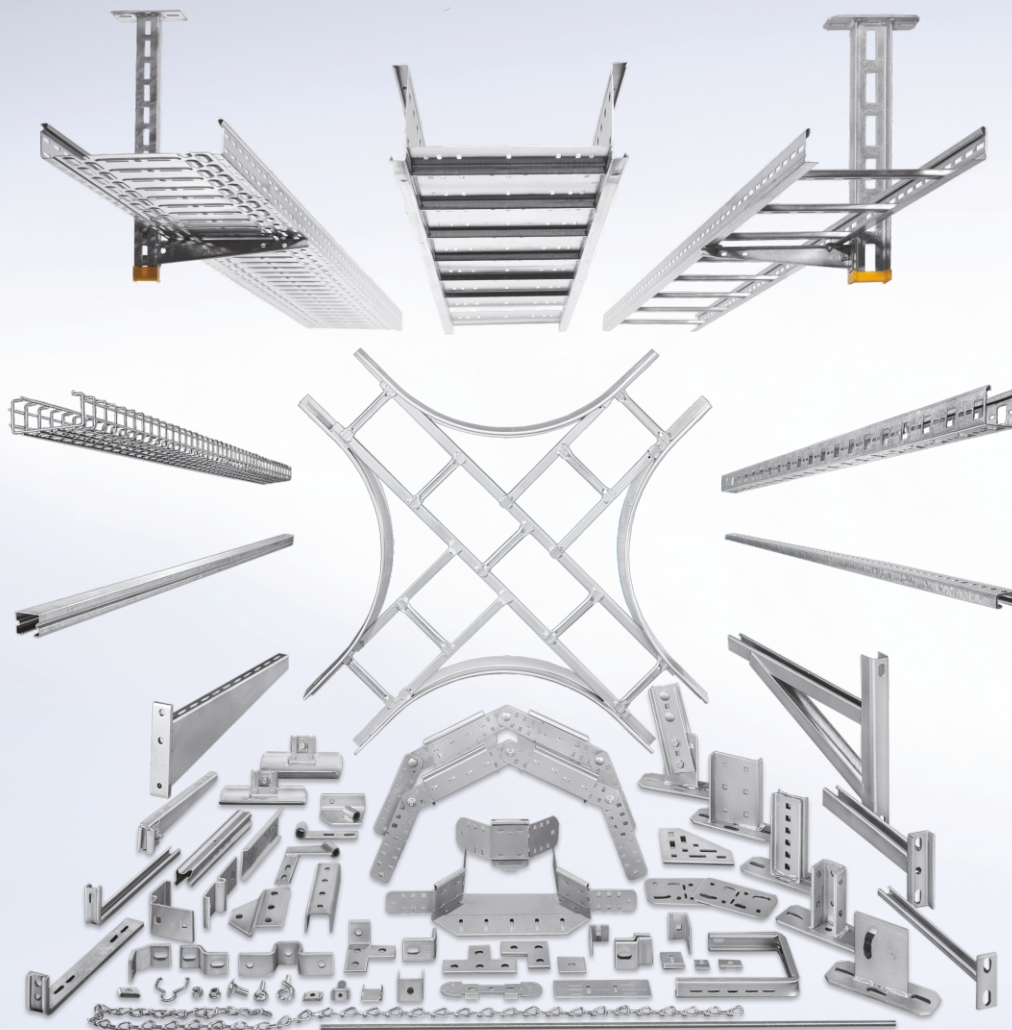




Cable trays systems and supporting structures with MAGNELIS[®] coating Catalogue



EL-PUK Sp. z o.o.

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Cable trays

Information

Cable trays A

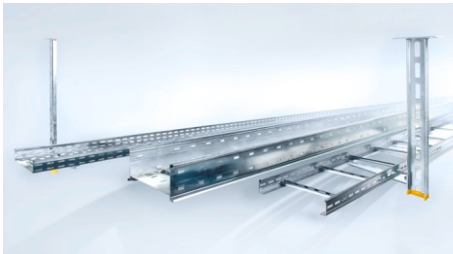
Cable ladders B

Support systems C

Fastenings D



Our product portfolio

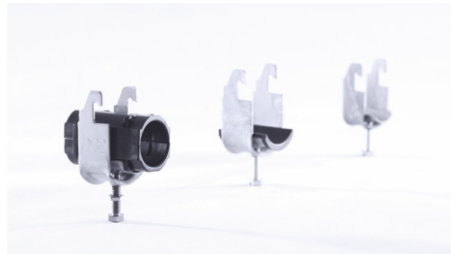


Cable trays

A time-tested complete solution, consisting of:

- wire mesh cable trays
- cable trays
- cable ladders
- wide-span systems
- supporting elements

Proven and tested system solutions consisting of serial parts. Cost-efficient due to serial production on state-of-the-art production facilities.



Cable clamps

The thoroughly tried and tested solution for the rational and safe mounting of one, two or three cables with a diameter of up to 175 mm. For mounting to channels of various dimensions, to sectional steel, or directly to the wall. Made of hot-dip galvanized steel, corrosion-resistant and non-magnetic high-grade steel or of aluminium.



Underfloor systems

Complete solutions for all types of use, consisting of:

- screed flush duct systems
- system components for double and cavity floors
- screed covered duct systems
- device cup and installation devices made of hot-dip galvanized steel, high-grade steel and synthetic material.



Industry

A specially developed product range for industrial plants with the highest safety standards, consisting of:

- wide-span cable systems
- ship ladders
- supporting systems
- PUK STRUT



PUK Solar

The mounting system for photovoltaic system underframes is based on the use of various standard mounting profiles. The simplicity of the coaction of the profiles to the module clams, the functionality as well as the flexible utilization are the prerequisites for the easily distinguishable user-friendly mountability of our system. Based on set parameters we offer solutions for the assembly of photovoltaic systems that are statically funded, yet at the same time unbeatably priced.

Of course, we offer our cable trays, underfloor systems, as well as mounting structures for photovoltaic systems with optional assembly!

Our group of companies

We supply cable support systems, cable clamps, under floor systems and assembly systems for photovoltaic systems directly to you; furthermore we will mount our products for you on your construction sites both, nationwide and abroad.

Consequentially, we see ourselves as a service provider for whom customer orientation, service and flexibility are number one priority. Your contact person is always nearby in our 10 branches all over Germany.

in addition we have our own distribution companies or distribution partners in many European countries; thanks to our subsidiary P&K ENERGO, we can offer you our products even in Moscow in stock.

With our Polish subsidiary EL-PUK we not only have our own production site for the East European market but are also able to offer you assembly on site at regional conditions.

TEKOM-PUK is the leading producer of cable support systems in Turkey. With him new possibilities will be opened not only in Turkey but also in its adjacent states and in the Arabic region.

In Western Europe, PUK Portacables is your partner on the spanish and portuguese market, PUK Schweiz on the swiss market, as well as PUK Benelux in The Netherlands and Belgium.

In the fiscal year of 2018, the PUK Group generated a turnover of about 230 million Euros with around 1100 employees – 470 of them work in Germany.



Our comprehensive offer

Consulting

Our field staff and sales force consists of skilled specialists with high-level expert knowledge and many years of experience.

They are always happy to answer your questions regarding cable support systems, cable clamps, underfloor systems and photovoltaic systems.

If you wish, our experts will develop technical solutions for you and optimize your project together with you under consideration of costs.

If you chose to mount our products on your construction site, our local staff will help you all the way - from the right

choice of products to the mounting technology.

Planning

Our technical department engineers in our Berlin headquarters are at our customers' disposal. During international large-scale projects, they work in close cooperation with the responsible planning and engineering offices Germany-wide and abroad.

Our engineers develop detailed recommendations for special applications, provide engineering drawings, static verifications and compile installation-typicals for complex situations to ensure a smooth mounting of our products.

Installation

Our competence in installation is being proven on nearly 1.000 construction sites per year.

The PUK branch offices provide flexible and customer-oriented support for small and medium-sized projects. Our experienced construction supervisors are located directly in our branch offices to make sure that your competent contact person is always close by during the completion of your project.



If you are planning a challenging and complex major project in Germany or abroad, our main installation department in the Berlin headquarters will be by your side.

The construction of a power plant, a tunnel or an airport often times requires the timely delivery and installation of more than 100 kilometres of cable trays. Therefore, our construction supervisors are always on site.

Our SCC-certification meets high requirements regarding security, health and environment protection (according to SGU) on our construction sites.

Production and logistics

In Germany, we manufacture in two modern plants in Berlin and Schoenecken (Eifel) on a shop floor of more than 30.000 square metres.

Our high capacity and flexible production lines process more than 25.000 tons of steel each year into cable support parts, underfloor components and photovoltaic constructions.

Our own galvanizing plants are an essential factor for being able to guarantee our quality and flexibility.

Our broad experience has taught us how important it is for the completion of every individual project to have a reliable material availability, even on short-notice.

Therefore, our PUK storehouses in all regions are at your disposal offering an extensive assortment of products. With the storehouses at our production facilities plus other nine storehouses throughout Germany, we can guarantee shortest delivery times, no matter where you are, and – if you have commissioned us with the assembly as well – the capability for a proximate assembly start.



Our representations in Poland

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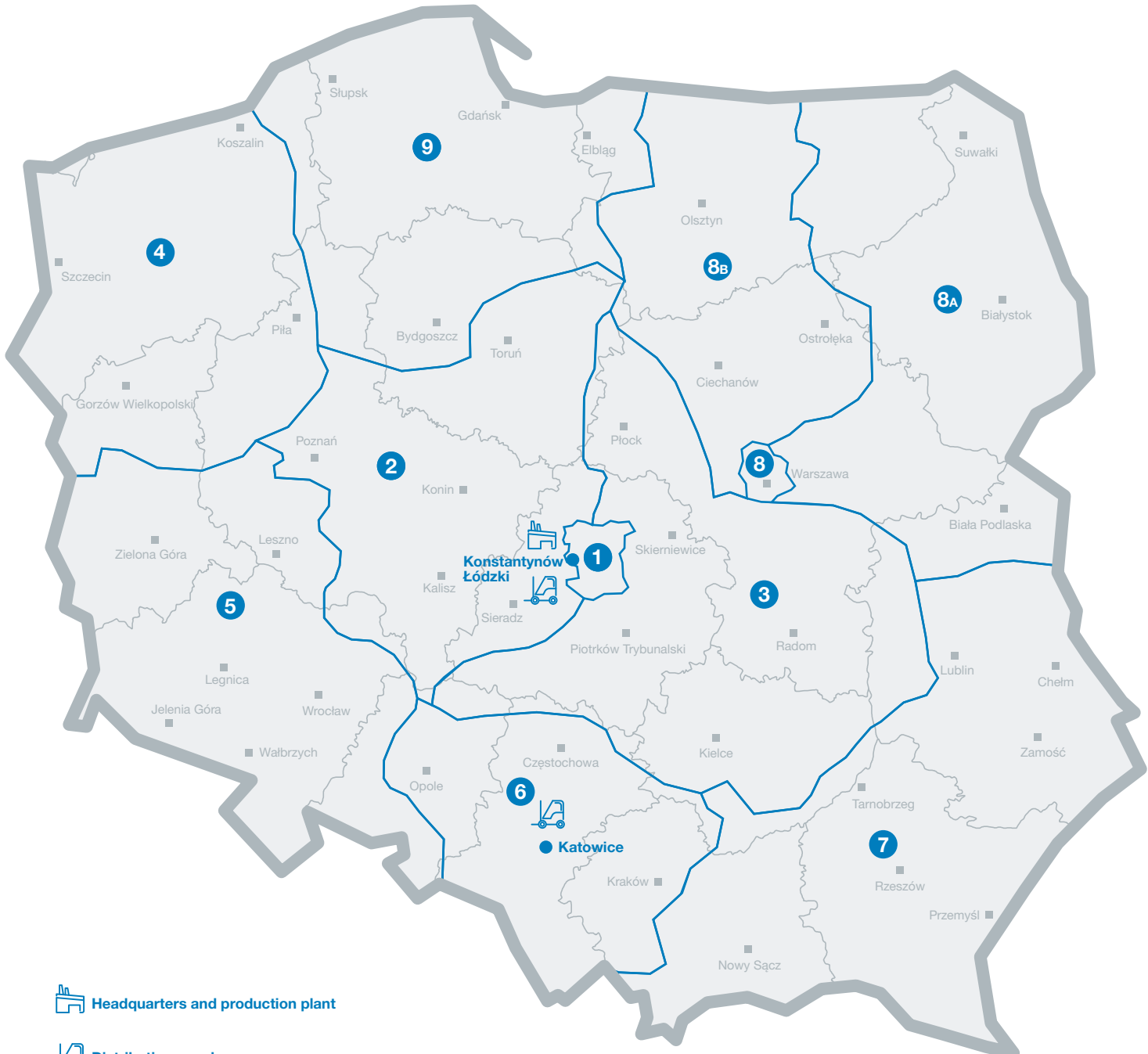
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 **Headquarters and production plant**

 **Distribution warehouse**

Our representations in Europe

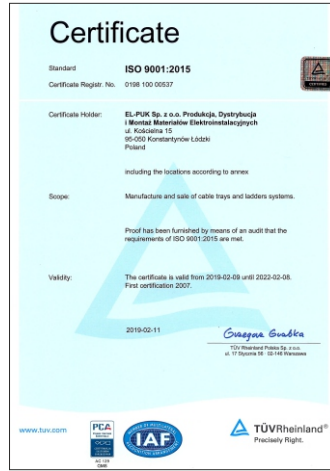
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Certificates and testing

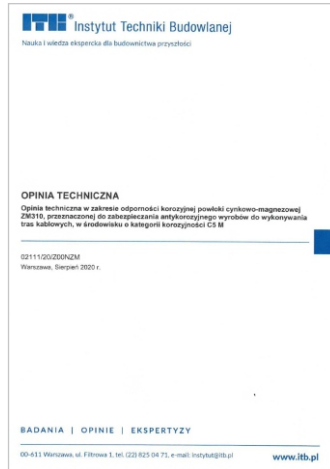
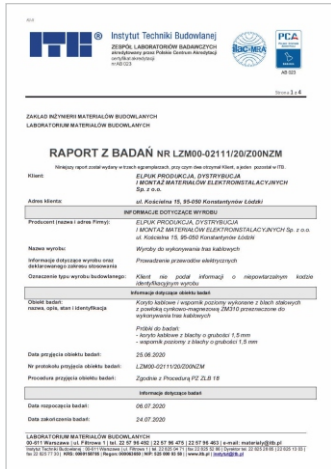
PUK Group and its subsidiaries are certified according to DIN EN ISO 9001



Cable tray systems:

- Designing
- Production
- Delivery and assembly

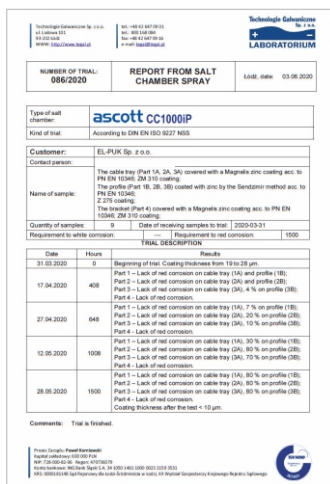
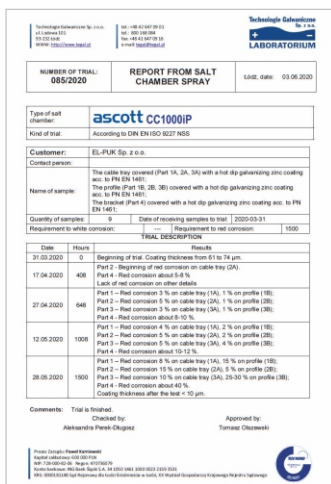
Magnelis®



Reports:

- ITB

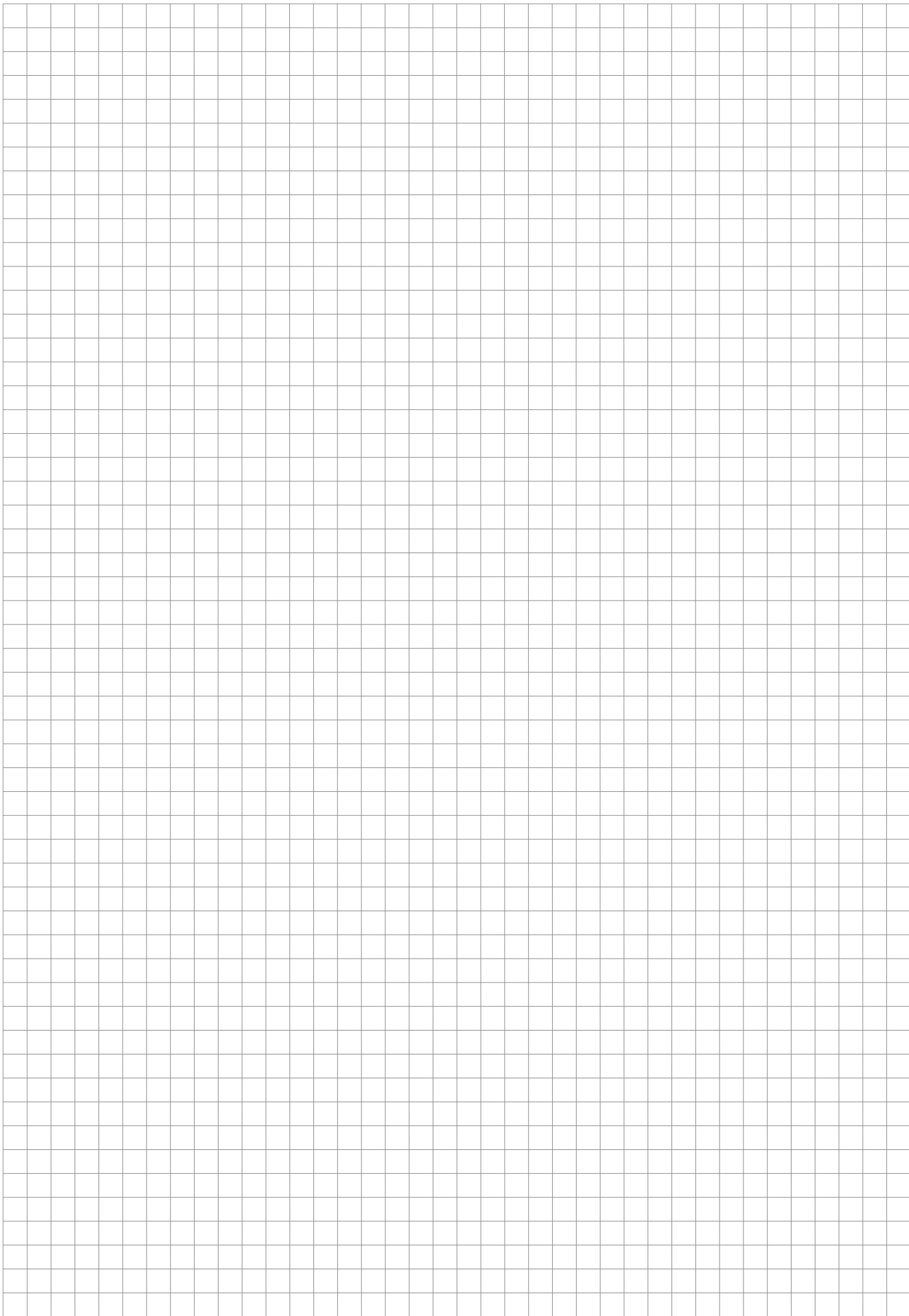
Magnelis®



Reports:
- From salt chamber spray



Other certificates, approvals and tests are available on Customer's request.





Cable trays

Cable trays	A03-A03
Fittings	A04-A05
Covers of cable trays	A06-A08
Accessories of cable trays	A09-A09



Numeric index

Cable trays

R

RAA 60	Cable tray attachment branch-piece, height=60 mm	A04
RAAD	Cable tray attachment branch-piece cover	A08
RAADR	Cable tray attachment branch-piece cover with bar lock	A08
RAE 60	Cable tray attachment corner, height=60 mm	A04
RB 60	Cable tray bend, height=60 mm	A05
RB45 60	Cable tray bend, height=60 mm	A05
RBD	Cable tray bend cover	A07
RBD45	Cable tray bend cover	A07
RBDR	Cable tray bend cover with bar lock	A07
RBDR45	Cable tray bend cover with bar lock	A07
RD	Cable tray cover	A06
RDR	Cable tray cover with bar lock	A06
RG 60	Cable tray, perforated, height=60 mm	A03
RGV 60	Cable tray coupler, height=60 mm	A09
RTR 60	Cable tray barrier strip, height=60 mm	A09

Cable trays

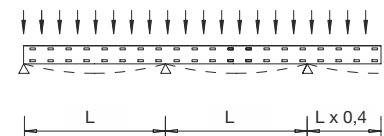
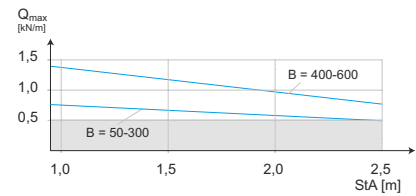
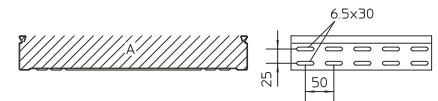
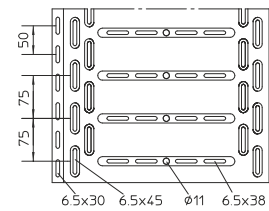
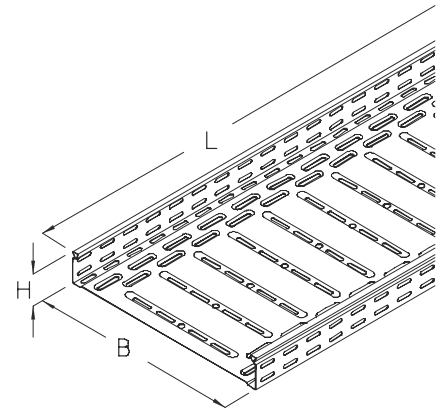
RG 60 Cable tray, perforated, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	L mm	t mm	A cm ²	Q _{sk} kN/m	G kg
ZM							
RG 60-05ZM	60	50	3000	0,75	30	0,04	3,20
RG 60-10ZM	60	100	3000	0,75	56	0,09	4,50
RG 60-20ZM	60	200	3000	0,75	113	0,17	5,80
RG 60-30ZM	60	300	3000	0,75	171	0,26	7,50
RG 60-40ZM	60	400	3000	0,88	228	0,34	10,70
RG 60-50ZM	60	500	3000	1,00	286	0,43	14,30
RG 60-60ZM	60	600	3000	1,00	343	0,52	16,50

Accessories optional:

RB 60	Cable tray bend, height=60 mm	(Page A05)
RB45 60	Cable tray bend, height=60 mm	(Page A05)
RAE 60	Cable tray attachment corner, height=60 mm	(Page A04)
RAA 60	Cable tray attachment branch-piece, height=60 mm	(Page A04)
RA 60	Cable tray branch-piece, height=60 mm	(Main catalog - Cable trays - Page B53)
RK 60	Cable tray crossover, height=60 mm	(Main catalog - Cable trays - Page B57)
RVB 60	Cable tray vertical bend, height=60 mm	(Main catalog - Cable trays - Page B62)
RR 60	Cable tray reducer, height=60 mm	(Main catalog - Cable trays - Page B66)
RAB 60	Cable tray closing panel, height=60 mm	(Main catalog - Cable trays - Page B82)
REB	Cable tray end-plate	(Main catalog - Cable trays - Page B84)
RGV 60	Cable tray coupler, height=60 mm	(Page A09)
RGVS	Cable tray snap coupler	(Main catalog - Cable trays - Page B87)
VB	Connection plate	(Main catalog - Cable trays - Page B88)
RTR 60	Cable tray barrier strip, height=60 mm	(Page A09)
KLR	Fixing set	(Page D06)



Cable trays

Fittings

RAE 60 Cable tray attachment corner, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

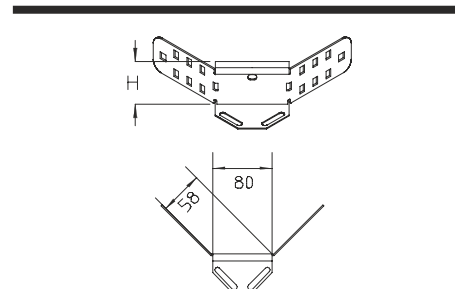
Article number	H mm	G kg
ZM		
RAE 60ZM	60	0,28

Accessories included:
3 x **KLR** Fixing set

(Page D06)

Accessories optional:
VB Connection plate

(Main catalog - Cable trays - Page B88)



RAA 60 Cable tray attachment branch-piece, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

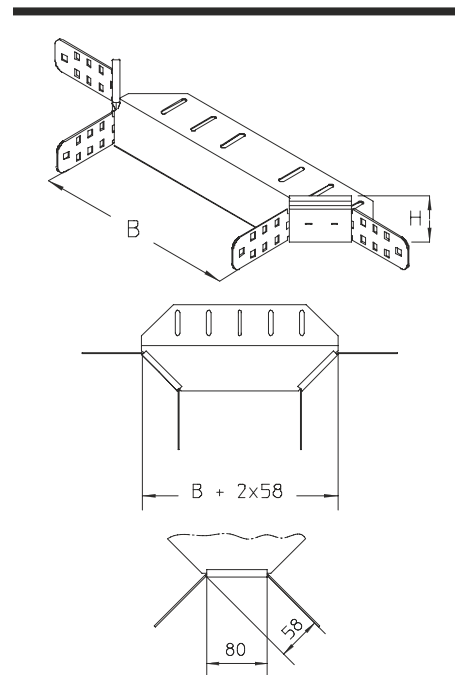
Article number	H mm	B mm	G kg
ZM			
RAA 60-05ZM	60	50	0,64
RAA 60-10ZM	60	100	0,76
RAA 60-20ZM	60	200	0,86
RAA 60-30ZM	60	300	0,96
RAA 60-40ZM	60	400	1,06
RAA 60-50ZM	60	500	1,16
RAA 60-60ZM	60	600	1,25

Accessories included:
2 x **KLR** Fixing set

(Page D06)

Accessories optional:
VB Connection plate

(Main catalog - Cable trays - Page B88)



Cable trays

Fittings

RB 60 Cable tray bend, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

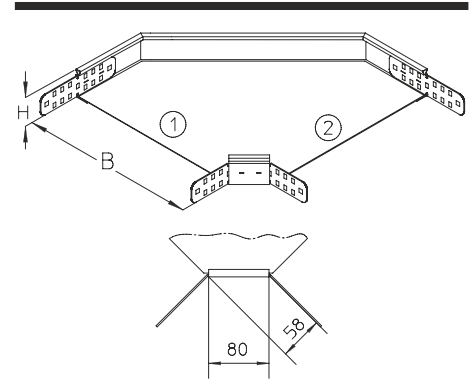
Article number	H mm	B mm	G kg
ZM			
RB 60-05ZM	60	50	0,64
RB 60-10ZM	60	100	0,77
RB 60-20ZM	60	200	1,18
RB 60-30ZM	60	300	1,70
RB 60-40ZM	60	400	2,35
RB 60-50ZM	60	500	3,13
RB 60-60ZM	60	600	4,05

Accessories included:
2 x **KLR** Fixing set

(Page D06)

Accessories optional:
VB Connection plate

(Main catalog - Cable trays - Page B88)



RB45 60 Cable tray bend, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

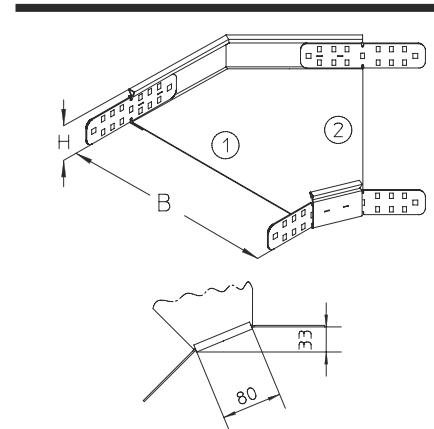
Article number	H mm	B mm	G kg
ZM			
RB45 60-05ZM	60	50	0,24
RB45 60-10ZM	60	100	0,39
RB45 60-20ZM	60	200	0,79
RB45 60-30ZM	60	300	1,32
RB45 60-40ZM	60	400	1,98
RB45 60-50ZM	60	500	2,77
RB45 60-60ZM	60	600	3,70

Accessories included:
2 x **KLR** Fixing set

(Page A04)

Accessories optional:
VB Connection plate

(Main catalog - Cable trays - Page B88)



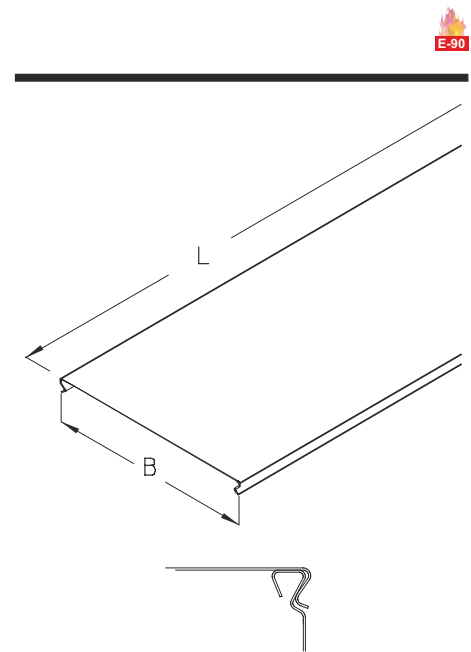
Cable trays

Covers

RD Cable tray cover

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	L mm	G kg
ZM			
RD 05ZM	50	3000	1,35
RD 10ZM	100	3000	2,34
RD 20ZM	200	3000	4,14
RD 30ZM	300	3000	5,94
RD 40ZM	400	3000	10,32
RD 50ZM	500	3000	12,72
RD 60ZM	600	3000	15,12

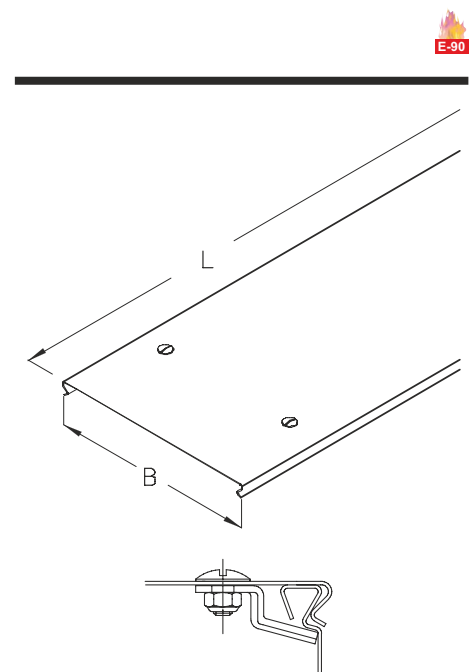


RDR Cable tray cover with bar lock

Installation of covers in outdoor areas requires additional provisions against storm forces. Turning bolts are in no case sufficient as security provision.

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	L mm	G kg
ZM			
RDR 05ZM	50	3000	1,41
RDR 10ZM	100	3000	2,45
RDR 20ZM	200	3000	4,25
RDR 30ZM	300	3000	6,05
RDR 40ZM	400	3000	10,43
RDR 50ZM	500	3000	12,85
RDR 60ZM	600	3000	15,23



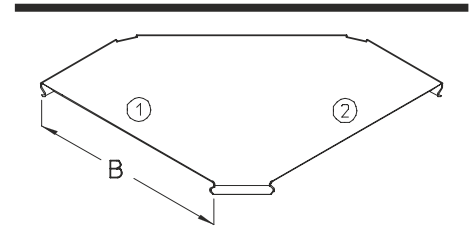
Cable trays

Covers

RBD Cable tray bend cover

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

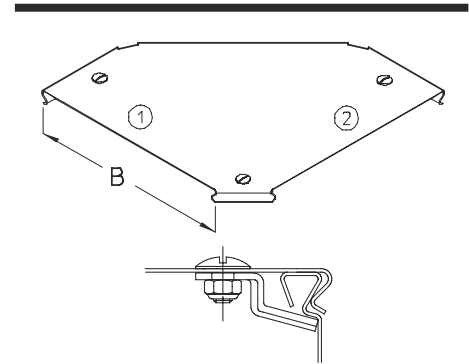
Article number	B mm	G kg
ZM		
RBD 05ZM	50	0,07
RBD 10ZM	100	0,16
RBD 20ZM	200	0,43
RBD 30ZM	300	0,84
RBD 40ZM	400	1,37
RBD 50ZM	500	2,04
RBD 60ZM	600	3,00



RBDR Cable tray bend cover with bar lock

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

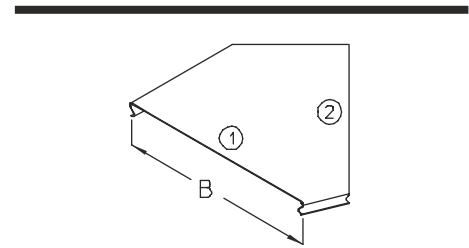
Article number	B mm	G kg
ZM		
RBDR 05ZM	50	0,13
RBDR 10ZM	100	0,22
RBDR 20ZM	200	0,49
RBDR 30ZM	300	0,90
RBDR 40ZM	400	1,43
RBDR 50ZM	500	2,10
RBDR 60ZM	600	3,06



RBD45 Cable tray bend cover

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

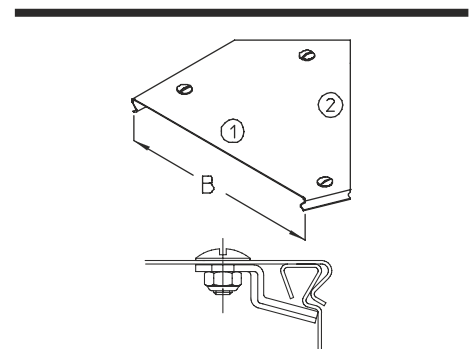
Article number	B mm	G kg
ZM		
RBD45 05ZM	50	0,08
RBD45 10ZM	100	0,13
RBD45 20ZM	200	0,31
RBD45 30ZM	300	0,55
RBD45 40ZM	400	0,85
RBD45 50ZM	500	1,22
RBD45 60ZM	600	1,66



RBDR45 Cable tray bend cover with bar lock

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	G kg
ZM		
RBDR45 05ZM	50	0,14
RBDR45 10ZM	100	0,19
RBDR45 20ZM	200	0,37
RBDR45 30ZM	300	0,61
RBDR45 40ZM	400	0,91
RBDR45 50ZM	500	1,28
RBDR45 60ZM	600	1,72



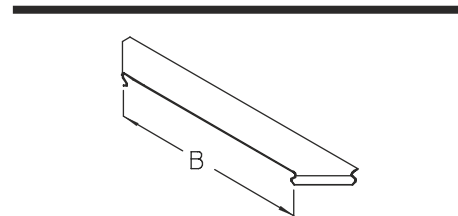
Cable trays

Covers

RAAD Cable tray attachment branch-piece cover

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

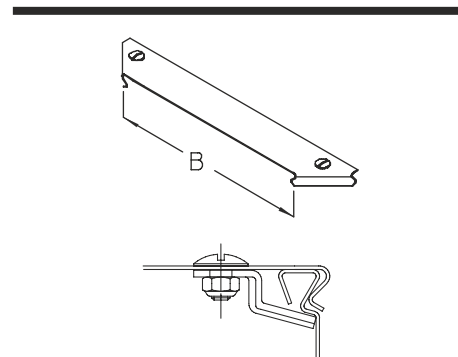
Article number	B mm	G kg
ZM		
RAAD 05ZM	50	0,04
RAAD 10ZM	100	0,07
RAAD 20ZM	200	0,12
RAAD 30ZM	300	0,16
RAAD 40ZM	400	0,21
RAAD 50ZM	500	0,26
RAAD 60ZM	600	0,31



RAADR Cable tray attachment branch-piece cover with bar lock

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	G kg
ZM		
RAADR 05ZM	50	0,08
RAADR 10ZM	100	0,11
RAADR 20ZM	200	0,16
RAADR 30ZM	300	0,20
RAADR 40ZM	400	0,25
RAADR 50ZM	500	0,30
RAADR 60ZM	600	0,35



Cable trays

Accessories of cable trays

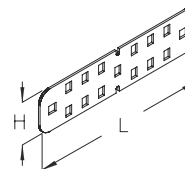
RGV 60 Cable tray coupler, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	L mm	G kg
ZM			
RGV 60ZM	45	190	0,12

Accessories included:
1 x **KLR** Fixing set

(Page D06)



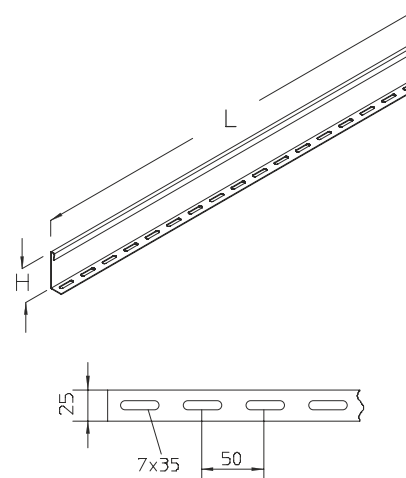
RTR 60 Cable tray barrier strip, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	L mm	G kg
ZM			
RTR 60ZM	50	3000	2,06

Accessories included:
3 x **KLR** Fixing set

(Page D06)





Cable ladders

Cable ladders LG (riveted)	B03-B05
Fittings	B06-B08
Covers	B09-B09
Accessories	B10-B13



Numeric index

Cable ladders

L

LA 100	Cable ladder branch-piece, height=100 mm	B08
LA 50	Cable ladder branch-piece, height=50 mm	B07
LA 60	Cable ladder branch-piece, height=60 mm	B08
LD	Cable ladder cover	B09
LDR	Cable ladder cover with turning bolt	B09
LG 100	Cable ladder, height=100 mm	B05
LG 50	Cable ladder, height=50 mm	B03
LG 60	Cable ladder, height=60 mm	B04
LGV 100	Cable ladder coupler, height=100 mm	B10
LGV 50	Cable ladder coupler, height=50 mm	B10
LGV 60	Cable ladder coupler, height=60 mm	B10
LGVH 100	Cable ladder coupler, height=100 mm	B11
LGVH 50	Cable ladder coupler, height=50 mm	B11
LGVH 60	Cable ladder coupler, height=60 mm	B11
LGVV 100	Cable ladder coupler, height=100 mm	B12
LGVV 50	Cable ladder coupler, height=50 mm	B12
LGVV 60	Cable ladder coupler, height=60 mm	B12
LIB 100	Cable ladder inside bend, height=100 mm	B07
LIB 50	Cable ladder inside bend, height=50 mm	B06
LIB 60	Cable ladder inside bend, height=60 mm	B06
LTR 50	Cable ladder barrier strip, height=33 mm	B13
LTR 60	Cable ladder barrier strip, height=50 mm	B13

Cable ladders LG (riveted)

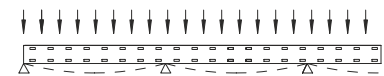
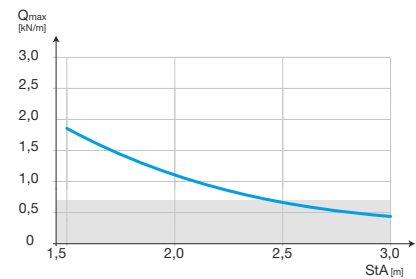
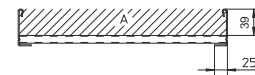
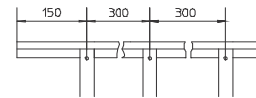
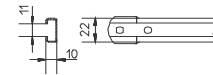
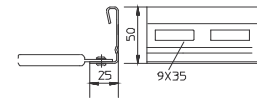
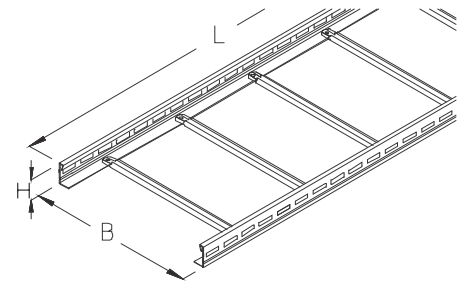
LG 50 Cable ladder, height=50 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	L mm	A cm ²	Q _{Lk} kN/m	G kg
ZM						
LG 50-10-3ZM	50	100	3000	41	0,11	6,60
LG 50-20-3ZM	50	200	3000	83	0,23	7,00
LG 50-30-3ZM	50	300	3000	125	0,35	7,50
LG 50-40-3ZM	50	400	3000	167	0,47	7,90
LG 50-50-3ZM	50	500	3000	210	0,59	8,40
LG 50-60-3ZM	50	600	3000	253	0,71	8,80

Accessories optional:

SL 50	Protection end cap	(Main catalog - Cable trays - Page C43)
LGV 50	Cable ladder coupler, height=50 mm	(Page B10)
LGVH 50	Cable ladder coupler, height=50 mm	(Page B11)
LGVV 50	Cable ladder coupler, height=50 mm	(Page B12)
LIB 50	Cable ladder inside bend, height=50 mm	(Page B06)
LAB 50	Cable ladder outside bend, height=50 mm	(Main catalog - Cable trays - Page C10)
LVB 50	Cable ladder vertical bend, height=50 mm	(Main catalog - Cable trays - Page C13)
LA 50	Cable ladder branch-piece, height=50 mm	(Page B07)
LK 50	Cable ladder cross-piece, height=50 mm	(Main catalog - Cable trays - Page C18)
LTR 50	Cable ladder barrier strip, height=33 mm	(Page B13)
KLU	Fixing set	(Page D03)
B	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H08)
HB	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H09)
KAB	End plate, cable ladder	(Main catalog - Cable trays - Page C41)



Cable ladders LG (riveted)

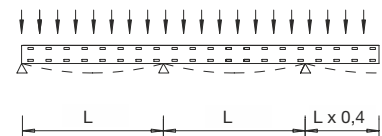
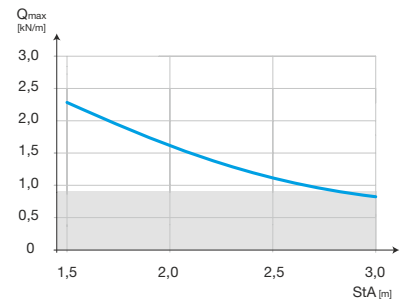
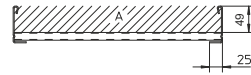
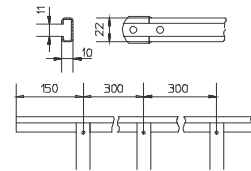
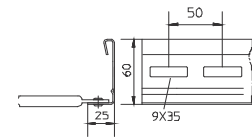
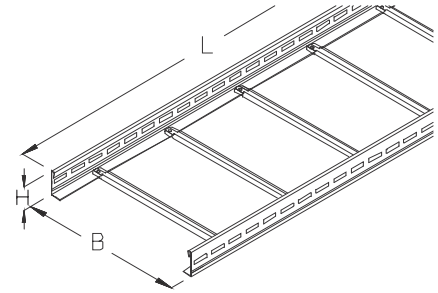
LG 60 Cable ladder, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	L mm	A cm ²	Q _{LK} kN/m	G kg
ZM						
LG 60-10-3ZM	60	100	3000	51	0,15	7,40
LG 60-20-3ZM	60	200	3000	103	0,29	7,80
LG 60-30-3ZM	60	300	3000	155	0,44	8,30
LG 60-40-3ZM	60	400	3000	208	0,58	8,70
LG 60-50-3ZM	60	500	3000	260	0,73	9,20
LG 60-60-3ZM	60	600	3000	313	0,88	9,60

Accessories optional:

SL 60	Protection end cap	(Main catalog - Cable trays - Page C43)
LGV 60	Cable ladder coupler, height=60 mm	(Page B10)
LGVH 60	Cable ladder coupler, height=60 mm	(Page B11)
LGVV 60	Cable ladder coupler, height=60 mm	(Page B12)
LIB 60	Cable ladder inside bend, height=60 mm	(Page B06)
LAB 60	Cable ladder outside bend, height=60 mm	(Main catalog - Cable trays - Page C11)
LVB 60	Cable ladder vertical bend, height=60 mm	(Main catalog - Cable trays - Page C13)
LA 60	Cable ladder branch-piece, height=60 mm	(Page B08)
LK 60	Cable ladder cross-piece, height=60 mm	(Main catalog - Cable trays - Page C19)
LTR 60	Cable ladder barrier strip, height=50 mm	(Page B13)
KLU	Fixing set	(Page D03)
B	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H08)
HB	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H09)
KAB	End plate, cable ladder	(Main catalog - Cable trays - Page C41)



Cable ladders LG (riveted)

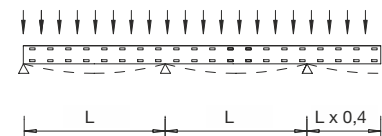
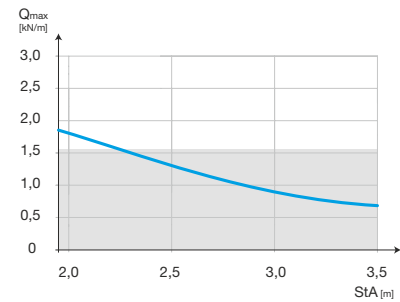
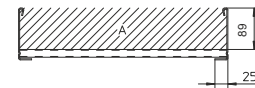
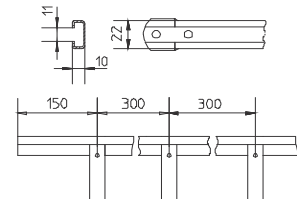
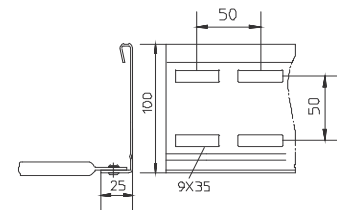
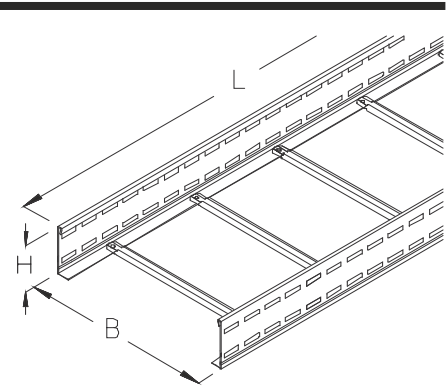
LG 100 Cable ladder, height=100 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	L mm	A cm ²	Q _{Lk} kN/m	G kg
ZM						
LG 100-10-3ZM	100	100	3000	90	0,25	10,30
LG 100-20-3ZM	100	200	3000	183	0,51	10,70
LG 100-30-3ZM	100	300	3000	275	0,77	11,20
LG 100-40-3ZM	100	400	3000	368	1,03	11,60
LG 100-50-3ZM	100	500	3000	460	1,29	12,00
LG 100-60-3ZM	100	600	3000	553	1,55	12,50

Accessories optional:

SL 100	Protection end cap	(Main catalog - Cable trays - Page C43)
LGV 100	Cable ladder coupler, height=100 mm	(Page B10)
LGVH 100	Cable ladder coupler, height=100 mm	(Page B11)
LGVV 100	Cable ladder coupler, height=100 mm	(Page B12)
LIB 100	Cable ladder inside bend, height=100 mm	(Page B07)
LAB 100	Cable ladder outside bend, height=100 mm	(Main catalog - Cable trays - Page C12)
LVB 100	Cable ladder vertical bend, height=100 mm	(Main catalog - Cable trays - Page C14)
LA 100	Cable ladder branch-piece, height=100 mm	(Page B08)
LK 100	Cable ladder cross-piece, height=100 mm	(Main catalog - Cable trays - Page C20)
LTR 100	Cable ladder barrier strip, height=75 mm	(Main catalog - Cable trays - Page C39)
KLU	Fixing set	(Page D03)
B	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H08)
HB	Cable clamp for fastening to C-profiles	(Main catalog - Cable trays - Page H09)
KAB	End plate, cable ladder	(Main catalog - Cable trays - Page C41)



Cable ladders LG (riveted)

Fittings

LIB 50 Cable ladder inside bend, height=50 mm

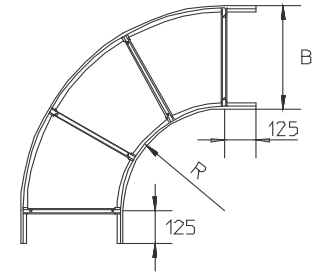
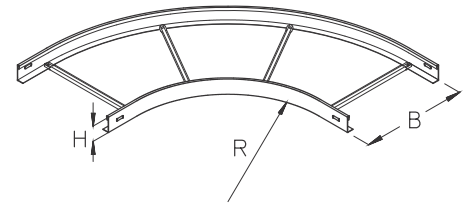
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape. Product available on request with a different R radius.



Article number	H mm	B mm	R mm	G kg
ZM				
LIB 50-10ZM	50	100	400	1,82
LIB 50-20ZM	50	200	400	2,18
LIB 50-30ZM	50	300	400	2,49
LIB 50-40ZM	50	400	400	2,98
LIB 50-50ZM	50	500	400	3,34
LIB 50-60ZM	50	600	400	3,96

Accessories optional:

LGV 50	Cable ladder coupler, height=50 mm	(Page B10)
LGVH 50	Cable ladder coupler, height=50 mm	(Page B11)
LGVV 50	Cable ladder coupler, height=50 mm	(Page B12)
KLU	Fixing set	(Page D03)



LIB 60 Cable ladder inside bend, height=60 mm

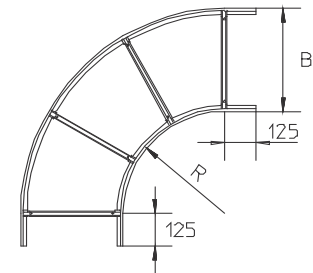
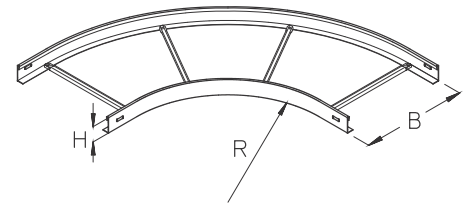
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape. Product available on request with a different R radius.



Article number	H mm	B mm	R mm	G kg
ZM				
LIB 60-10ZM	60	100	400	2,28
LIB 60-20ZM	60	200	400	2,67
LIB 60-30ZM	60	300	400	3,02
LIB 60-40ZM	60	400	400	3,55
LIB 60-50ZM	60	500	400	3,94
LIB 60-60ZM	60	600	400	4,60

Accessories optional:

LGV 60	Cable ladder coupler, height=60 mm	(Page B10)
LGVH 60	Cable ladder coupler, height=60 mm	(Page B11)
LGVV 60	Cable ladder coupler, height=60 mm	(Page B12)
KLU	Fixing set	(Page D03)



Cable ladders LG (riveted)

Fittings

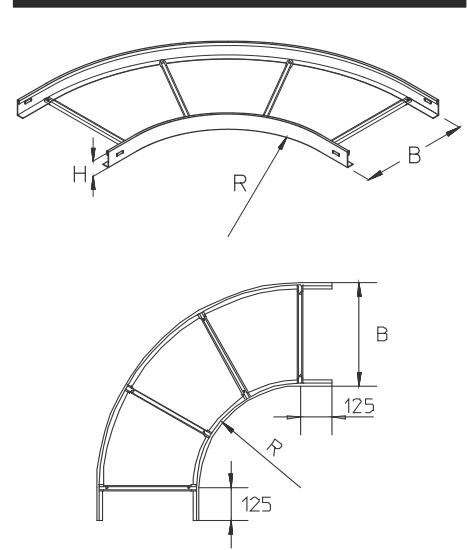
LIB 100 Cable ladder inside bend, height=100 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape. Product available on request with a different R radius.

Article number	H mm	B mm	R mm	G kg
ZM				
LIB 100-10ZM	100	100	400	3,05
LIB 100-20ZM	100	200	400	3,50
LIB 100-30ZM	100	300	400	3,92
LIB 100-40ZM	100	400	400	4,51
LIB 100-50ZM	100	500	400	4,97
LIB 100-60ZM	100	600	400	5,69

Accessories optional:

LGV 100	Cable ladder coupler, height=100 mm	(Page B10)
LGVH 100	Cable ladder coupler, height=100 mm	(Page B11)
LGVV 100	Cable ladder coupler, height=100 mm	(Page B12)
KLU	Fixing set	(Page D03)



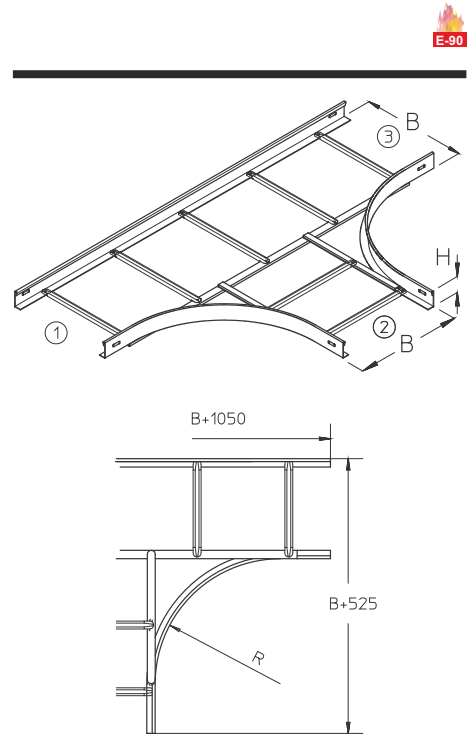
LA 50 Cable ladder branch-piece, height=50 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape.

Article number	H mm	B mm	L mm	G kg
ZM				
LA 50-10ZM	50	100	400	3,39
LA 50-20ZM	50	200	400	3,91
LA 50-30ZM	50	300	400	4,39
LA 50-40ZM	50	400	400	4,88
LA 50-50ZM	50	500	400	5,58
LA 50-60ZM	50	600	400	6,11

Accessories optional:

LGV 50	Cable ladder coupler, height=50 mm	(Page B10)
LGVH 50	Cable ladder coupler, height=50 mm	(Page B11)
LGVV 50	Cable ladder coupler, height=50 mm	(Page B12)
KLU	Fixing set	(Page D03)



Cable ladders LG (riveted)

Fittings

LA 60 Cable ladder branch-piece, height=60 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape.

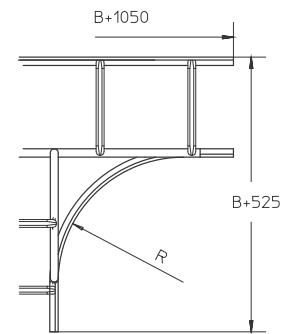
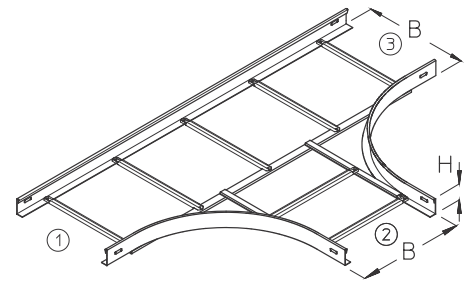


Article number	H mm	B mm	L mm	G kg
ZM				
LA 60-10ZM	60	100	400	4,07
LA 60-20ZM	60	200	400	4,62
LA 60-30ZM	60	300	400	5,13
LA 60-40ZM	60	400	400	5,64
LA 60-50ZM	60	500	400	6,36
LA 60-60ZM	60	600	400	6,92

Accessories optional:

- LGV 60** Cable ladder coupler, height=60 mm
- LGVH 60** Cable ladder coupler, height=60 mm
- LGVV 60** Cable ladder coupler, height=60 mm
- KLU** Fixing set

(Page B10)
(Page B11)
(Page B12)
(Page D03)



LA 100 Cable ladder branch-piece, height=100 mm

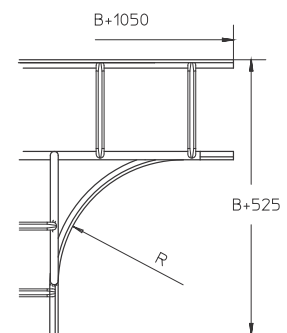
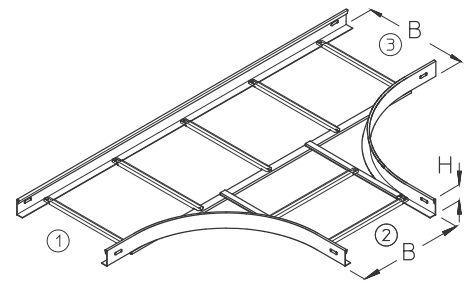
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).
Fittings are also available in an angular shape.

Article number	H mm	B mm	L mm	G kg
ZM				
LA 100-10ZM	100	100	400	5,25
LA 100-20ZM	100	200	400	5,83
LA 100-30ZM	100	300	400	6,38
LA 100-40ZM	100	400	400	6,94
LA 100-50ZM	100	500	400	7,70
LA 100-60ZM	100	600	400	8,29

Accessories optional:

- LGV 100** Cable ladder coupler, height=100 mm
- LGVH 100** Cable ladder coupler, height=100 mm
- LGVV 100** Cable ladder coupler, height=100 mm
- KLU** Fixing set

(Page B10)
(Page B11)
(Page B13)
(Page D03)



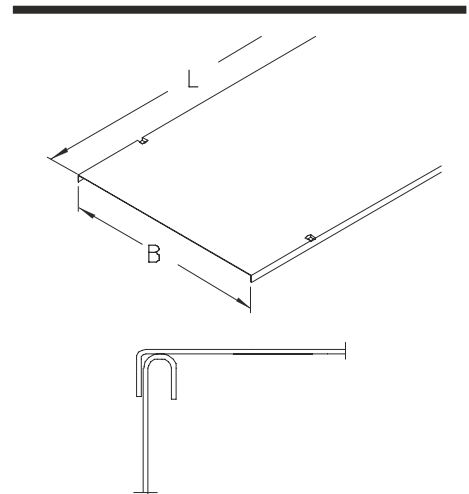
Cable ladders LG (riveted)

Covers

LD Cable ladder cover

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	L mm	G kg
ZM			
LD 10ZM	106	3000	3,12
LD 20ZM	206	3000	5,52
LD 30ZM	306	3000	7,92
LD 40ZM	406	3000	10,32
LD 50ZM	506	3000	12,72
LD 60ZM	606	3000	15,12

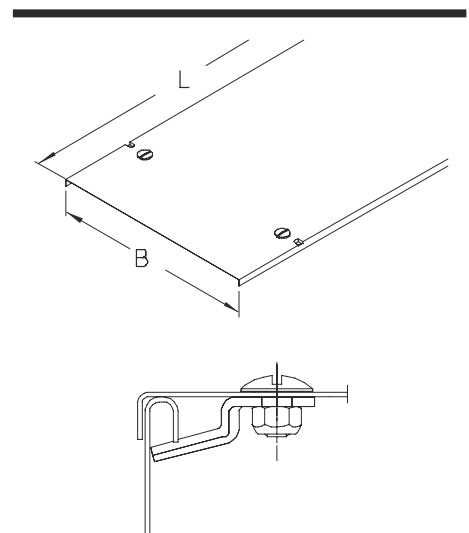


LDR Cable ladder cover with turning bolt

Installation of covers in outdoor areas requires additional provisions against storm forces. Turning bolts are in no case sufficient as security provision.

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	B mm	L mm	G kg
ZM			
LDR 10ZM	206	3000	3,23
LDR 20ZM	206	3000	5,63
LDR 30ZM	306	3000	8,03
LDR 40ZM	406	3000	10,43
LDR 50ZM	506	3000	12,83
LDR 60ZM	606	3000	15,23



Cable ladders LG (riveted)

Accessories

LGV 50 Cable ladder coupler, height=50 mm

This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

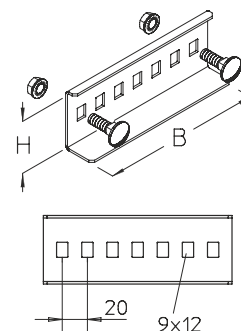


Article number	H mm	B mm	G kg
ZM			
LGV 50ZM	50	150	0,18

Accessories included:

2 x **KLS 8x16** Fixing set

(Page D07)



LGV 60 Cable ladder coupler, height=60 mm

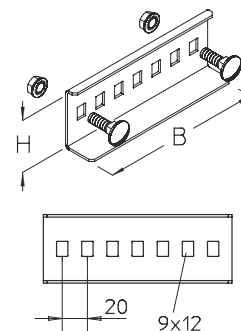
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	G kg
ZM			
LGV 60ZM	60	150	0,22

Accessories included:

2 x **KLS 8x16** Fixing set

(Page D07)



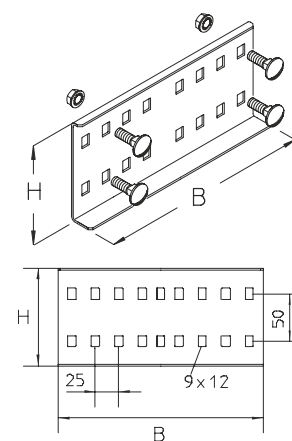
LGV 100 Cable ladder coupler, height=100 mm

Article number	H mm	B mm	G kg
ZM			
LGV 100ZM	100	220	0,41

Accessories included:

4 x **KLS 8x16** Fixing set

(Page D07)



Cable ladders LG (riveted)

Accessories

LGVH 50 Cable ladder coupler, height=50 mm

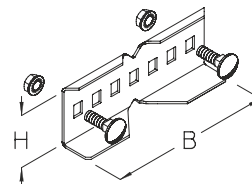
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	G kg
ZM			
LGVH 50ZM	50	150	0,17

Accessories included:

2 x **KLS 8x16** Fixing set

(Page D07)



LGVH 60 Cable ladder coupler, height=60 mm

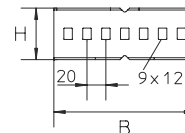
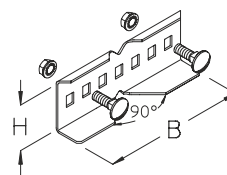
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	G kg
ZM			
LGVH 60ZM	60	150	0,20

Accessories included:

2 x **KLS 8x16** Fixing set

(Page D07)



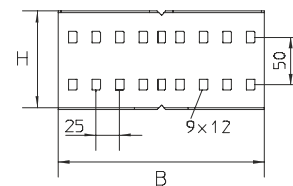
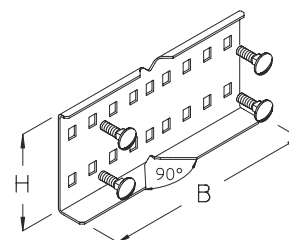
LGVH 100 Cable ladder coupler, height=100 mm

Article number	H mm	B mm	G kg
ZM			
LGVH 100ZM	100	220	0,41

Accessories included:

4 x **KLS 8x16** Fixing set

(Page D07)



Cable ladders LG (riveted)

Accessories

LGVV 50 Cable ladder coupler, height=50 mm

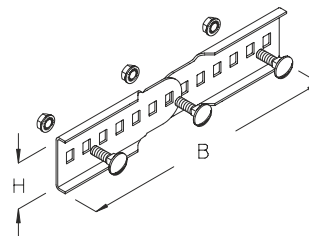
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	G kg
ZM			
LGVV 50ZM	50	150	0,36

Accessories included:

3 x **KLS 8x16** Fixing set

(Page D07)



LGVV 60 Cable ladder coupler, height=60 mm

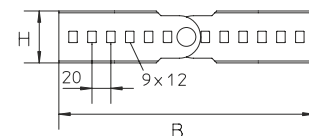
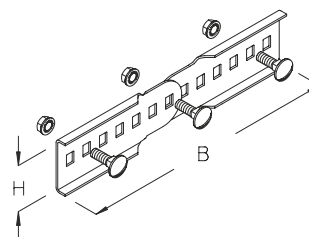
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).

Article number	H mm	B mm	G kg
ZM			
LGVV 60ZM	60	270	0,39

Accessories included:

3 x **KLS 8x16** Fixing set

(Page D07)



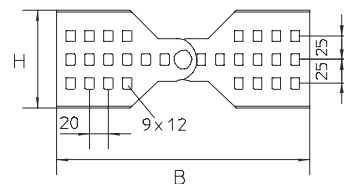
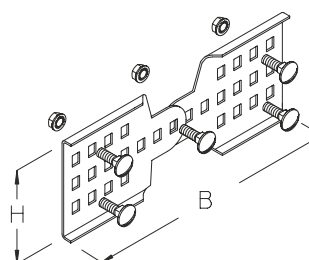
LGVV 100 Cable ladder coupler, height=100 mm

Article number	H mm	B mm	G kg
ZM			
LGVV 100ZM	100	270	0,61

Accessories included:

5 x **KLS 8x16** Fixing set

(Page D07)



Cable ladders LG (riveted)

Accessories

LTR 50 Cable ladder barrier strip, height=33 mm

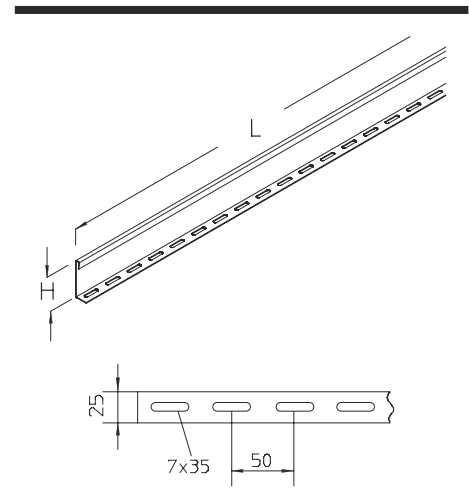
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).



Article number	H mm	L mm	G kg
ZM			
LTR 50ZM	33	3000	1,42

Accessories included:

3 x **FKS 6x10** Slotted cylinder head screw, DIN 84 (Page D08)
 3 x **AM11 M6F** Channel nut (Page D09)



LTR 60 Cable ladder barrier strip, height=50 mm

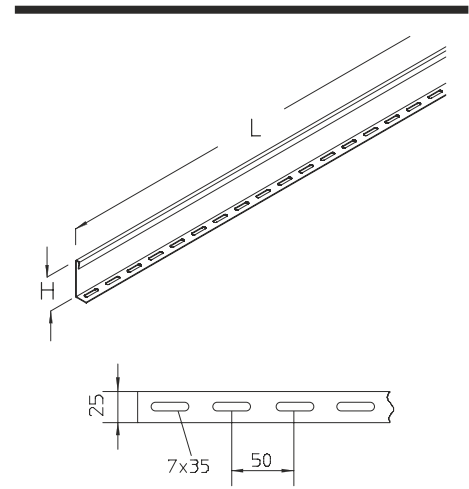
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).



Article number	H mm	L mm	G kg
ZM			
LTR 60ZM	50	3000	2,05

Accessories included:

3 x **FKS 6x10** Slotted cylinder head screw, DIN 84 (Page D08)
 3 x **AM11 M6F** Channel nut (Page D09)





Support systems

Brackets	C03-C03
KSL-system	C04-C04
Anchor-rails	C05-C05

Numeric index

Support systems

D		
DKSLL	Ceiling fixed bracket, light duty	C04
K		
KSL-SP	Spacer KSL	C04
KWF	Bracket, light duty	C03
U		
U-03/U-04 (U-22)	Profile rail, perforated, 22x37 mm	C05
U-13/U-14 (U-44)	Profile rail, perforated, 44x37 mm	C05
U-52	Rail coupler, profile U-03 / U-13	C05
U-520 - U-526	Bracket, light duty	C03

Support systems

Brackets

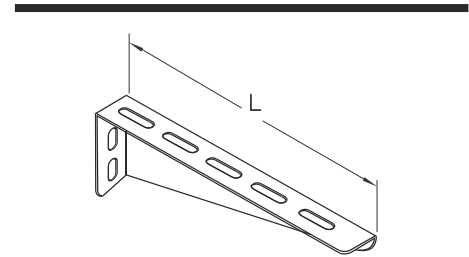
U-520 - U-526 Bracket, light duty

Article number	H mm	B mm	L mm	t mm	P_{max} kN	G kg
ZM						
U-520ZM	57	50	70	2,00	1,00	0,08
U-521ZM	57	100	127	2,00	0,90	0,13
U-522ZM	87	200	207	2,00	0,41	0,25
U-523ZM	87	300	327	2,00	0,25	0,38
U-524ZM	147	400	405	2,50	0,74	0,84
U-525ZM	147	500	527	2,50	0,70	1,08
U-526ZM	147	600	607	2,50	0,61	1,62

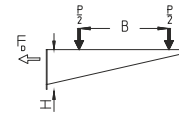
Accessories optional:

SD Expansion anchor
KLR Fixing set

(Page D04)
(Page D06)



Top holes 7x33 mm
Side holes 11x40 mm



KWF Bracket, light duty

F_D/P : Coefficient for calculation of the dowel load F_D with effective bracket load P respectively the sum of effective bracket loads.

Article number	H mm	B mm	L mm	P_{max} kN	F_D/P	G kg
ZM						
KWF 010ZM	80	100	120	1,2	1,58	0,23
KWF 020ZM	80	200	220	1,2	2,33	0,30
KWF 030ZM	80	300	320	1,2	3,15	0,45
KWF 040ZM	80	400	420	1,2	3,99	0,51

Accessories included:

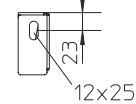
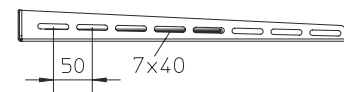
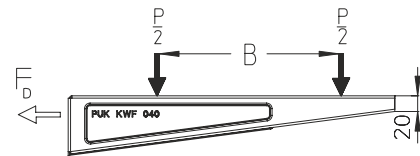
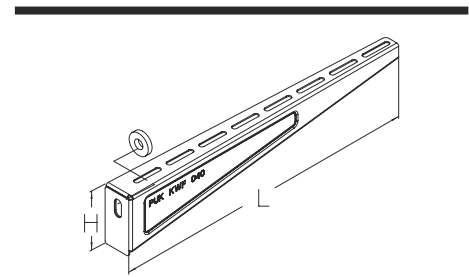
1 x **US 10x30** Square washer, DIN 9021

(Main catalog - Cable trays - Page G41)

Accessories optional:

KDU 57 Bracket support, 57x30 mm
KHU 57 Bracket support, profile U57
KDU 40 Bracket support, 40x30 mm
KHU 40 Bracket support, profile U40

(Main catalog - Cable trays - Page F19)
(Main catalog - Cable trays - Page F23)
(Main catalog - Cable trays - Page F18)
(Main catalog - Cable trays - Page F21)



Support systems

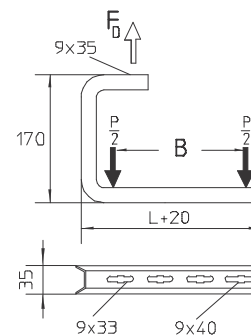
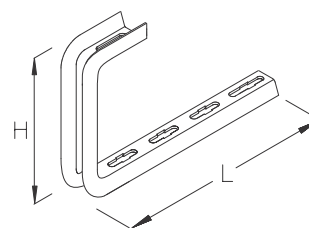
KSL-system

DKSLL Ceiling fixed bracket, light duty

Article number	H mm	B mm	L mm	P _{max} kN	G kg
ZM					
DKSLL 010ZM	170	100	120	0,70	0,30
DKSLL 020ZM	170	200	220	0,40	0,39
DKSLL 030ZM	170	300	320	0,25	0,47
DKSLL 040ZM	170	400	420	0,15	0,55

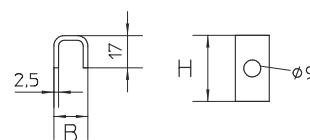
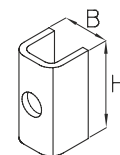
Accessories optional:

SD	Expansion anchor	(Page D04)
SAZ	Anchor	(Page D04)
KLRL	Clamping assembly	(Page D06)
KLU	Fixing set	(Page D03)
KSL-SP F	Spacer KSL	(Page C04)



KSL-SP Spacer KSL

Article number	H mm	B mm	G kg
F			
KSL-SP F	35	18	0,03



Support systems

Anchor-rails

U-03 / U-04 (U-22) Profile rail, perforated, 22x37 mm

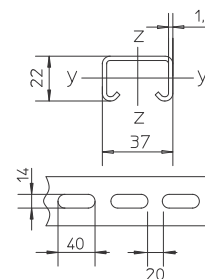
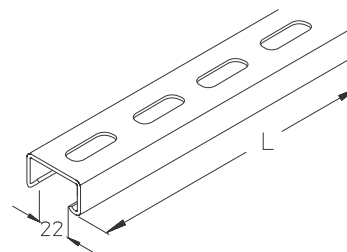
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).



Article number	H mm	B mm	L mm	t mm	G kg
ZM					
U-03ZM	22	37	3054	1,50	2,80
U-04ZM	22	37	6114	1,50	5,70

Accessories optional:

AM 18	Channel nut, A 7/ A 8	(Page D09)
AMF18	Channel spring nut, A 7/ A 8	(Page D09)
RUS 41	Square washer	(Page D08)
SKS A	Beam clamp set, profile A 41/ KHA 41	(Main catalog - Cable trays - Page G05)



U-13 / U-14 (U-44) Profile rail, perforated, 44x37 mm

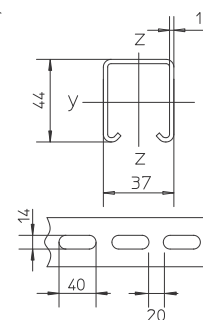
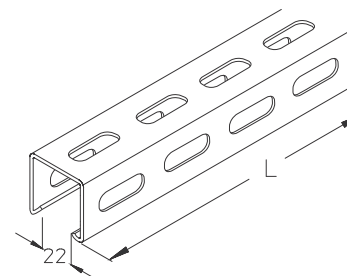
This article is also available made in stainless steel finish, material No. 1.4571 / 1.4404 (V4A).



Article number	H mm	B mm	L mm	t mm	G kg
ZM					
U-13ZM	44	37	3054	1,50	4,00
U-14ZM	44	37	6114	1,50	8,00

Accessories optional:

AM 18	Channel nut, A 7/ A 8	(Page D09)
AMF18	Channel spring nut, A 7/ A 8	(Page D09)
RUS 41	Square washer	(Page D08)
SKS A	Beam clamp set, profile A 41/ KHA 41	(Main catalog - Cable trays - Page G05)



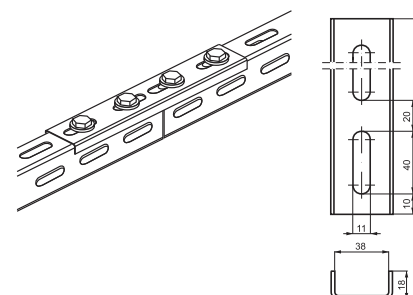
U-52 Rail coupler, profile U-03 / U-13



Article number	L mm	G kg
ZM		
U-52ZM	240	0,34

Accessories optional:

KLS 10X20	Fixing set	(Page D07)
KLS 10X20F	Fixing set	(Page D07)





Fastenings

Clamping assembly	D03-D03
Plugs	D04-D04
Suspension components	D05-D05
Bolting fasteners/ bolts and nuts	D06-D08
Channel nuts and bolts	D09-D09

Numeric index

Fastenings

A		
AM11	Channel nut	D09
AM18	Channel nut, A 7/ A 8	D09
AMF18	Channel spring nut, A 7/ A 8	D09
F		
FKS	Slotted cylinder head screw, DIN 84	D08
G		
GB	Threaded rod, DIN 976-1	D05
K		
KLR	Fixing set	D06
KLRL	Clamping assembly	D06
KLS	Fixing set	D07
KLU	Fixing set	D03
R		
RUS 41	Square washer	D08
S		
SA	Anchor	D04
SAZ	Anchor	D04
SD	Expansion anchor	D04

Fastenings

Clamping assembly

KLU Fixing set

Article number	G
	kg/100
F	
KLU F	2,5
E	
KLU E	2,5

Accessories included:

2 x SEMS 6E	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)
2 x FRSV 6x16E	Round-head screw with short square	(Main catalog - Cable trays - Page G37)

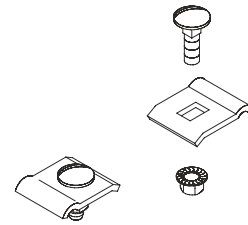
Article number	G
	kg/100
E4	
KLU E4	2,5

Accessories included:

2 x FKS 6x16E4	Slotted cylinder head screw, DIN 84	(Main catalog - Cable trays - Page G38)
2 x US 6x12E4	Square washer, DIN 125	(Main catalog - Cable trays - Page G41)
2 x SEM 6E4	Hexagon-nut, DIN 934	(Main catalog - Cable trays - Page G43)

Accessories optional:

FRSV	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
FRS	Round-head screw with short square, DIN 603	(Main catalog - Cable trays - Page G37)
SEMS	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)



Fastenings

Plugs

SD Expansion anchor

Manufacturer's information has to be observed strictly (ETA-05/0069). *Permissible load for a single anchor in cracked normal concrete (concrete tension zone) with a consistency of \geq C20/25.

Article number	L _{min} mm	D mm	Ø mm	t mm	P _{zul} kN	G kg/100
GV						
SD 6/75	40	6	6	0 - 30	1,90	1,63
SD 8/10	55	8	8	0 - 10	1,98	3,50
SD 8/30	55	8	8	0 - 30	1,98	4,40
SD 10/10	75	10	10	0 - 10	4,29	6,20
SD 10/30	75	10	10	0 - 30	4,29	7,80
SD 12/10	90	12	12	0 - 10	5,71	11,00
SD 16/25	110	16	16	0 - 25	9,52	26,30

E4

SD 6/75E4	40	6	6	0 - 30	1,9	1,63
SD 8/10E4	55	8	8	0 - 10	1,98	3,60
SD 10/10E4	75	10	10	0 - 10	4,29	6,20
SD 12/10E4	90	12	12	0 - 10	5,71	10,90

SAZ Anchor

Manufacturer's information has to be observed strictly (ETA-06/0271). *Permissible load for a single anchor in cracked normal concrete (concrete tension zone) with a consistency of \geq C20/25.

Article number	L mm	L _{min} mm	D mm	Ø mm	P _{zul} kN	G kg/100
GV						
SAZ 6	8 - 13	40	12	6	2,4	3,2
SAZ 8	11 - 17	40	10	8	1,6	1,4
SAZ 10	13 - 19	40	12	10	3,0	1,9
SAZ 12	15 - 21	40	14	12	3,6	2,6

E4

SAZ 8E4	11 - 17	43	10	8	1,6	1,4
SAZ 10E4	13 - 19	43	12	10	3,0	1,9
SAZ 12E4	15 - 21	43	14	12	3,6	2,6

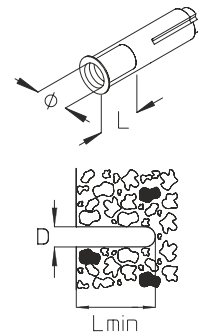
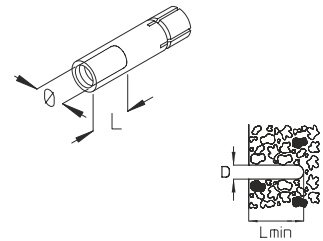
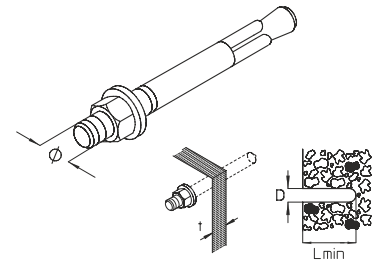
SA Anchor

Manufacturer's information has to be observed strictly (ETA-07/0135). *Permissible load for a single anchor in non-cracked concrete (compressive concrete zone) with a consistency of \geq C20/25.

Article number	L mm	L _{min} mm	D mm	Ø mm	P _{zul} kN	G kg/100
GV						
SA 6	6 - 12	27	8	6	3,95	0,4
SA 8	11 - 17	33	10	8	3,95	0,5
SA 10	13 - 19	44	12	10	6,10	0,8
SA 12	15 - 21	54	15	12	8,50	1,6

E4

SA 6E4	6 - 12	27	8	6	3,95	0,4
SA 8E4	11 - 17	33	10	8	3,95	0,5
SA 10E4	13 - 19	44	12	10	6,10	0,8
SA 12E4	15 - 21	54	15	12	8,50	1,6



Fastenings

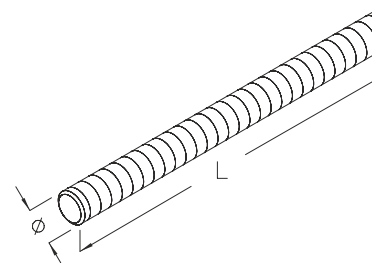
Suspension components

GB Threaded rod, DIN 976-1

Stress-areas according to DIN 267 T4:

GB M6 = 20,1 mm², GB M8 = 36,6 mm², GB M10 = 58,0 mm², GB M12 = 84,3 mm²

Article number	L mm	Ø mm	G kg
FP			
GB M8-20FP	2000	8	0,60
GB M10-20FP	2000	10	1,00



Fastenings

Bolting fasteners/bolts and nuts

KLR Fixing set

Complete set.

Article number	G	kg/100
GV		
KLR		0,9

Accessories included:

2 x FRSV 6x12	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
2 x SEMS 6	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

Article number	G	kg/100
E		
KLR E		0,9

Accessories included:

2 x FRSV 6x12E	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
2 x SEMS 6E	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

Article number	G	kg/100
GV		
KLR 6x25		1,4

Accessories included:

2 x FRS 6x25	Round-head screw with short square, DIN 603	(Main catalog - Cable trays - Page G37)
2 x SEMS 6	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

Article number	G	kg/100
E		
KLR 6x25E		1,4

Accessories included:

2 x FRS 6x25E	Round-head screw with short square, DIN 603	(Main catalog - Cable trays - Page G37)
2 x SEMS 6E	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

Accessories optional:

FRSV	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
FRS	Round-head screw with short square, DIN 603	(Main catalog - Cable trays - Page G37)
SEMS	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

KLRL Clamping assembly

Complete set.

Article number	G	kg/100
S		
KLRL		1

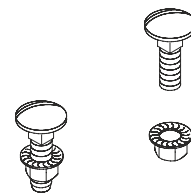
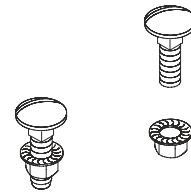
Accessories included:

2 x FRSV 6x16	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
2 x SEMS 6	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)

Article number	G	kg/100
E		
KLRL E		1

Accessories included:

2 x FRSV 6x16E	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
2 x SEMS 6E	Hexagon nut, self-locking, DIN 6923	(Main catalog - Cable trays - Page G43)



Fastenings

Bolting fasteners/bolts and nuts

KLS Fixing set

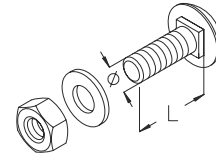
Complete set.



Article number	L mm	Ø mm	G kg/100
GV			
KLS 8x16	16	8	1,8

Accessories included:

- 1 x **FRSV 8x16** Round-head screw with short square (Main catalog - Cable trays - Page G37)
- 1 x **SEMS 8** Hexagon nut, self-locking, DIN 6923 (Main catalog - Cable trays - Page G43)



Article number	L mm	Ø mm	G kg/100
GV			
KLS 8x25	25	8	2,2

Accessories included:

- 1 x **FRS 8x25** Round-head screw with short square, DIN 603 (Main catalog - Cable trays - Page G37)
- 1 x **SEMS 8** Hexagon nut, self-locking, DIN 6923 (Main catalog - Cable trays - Page G43)

Article number	L mm	Ø mm	G kg/100
GV			
KLS 10x20	20	10	3,9

Accessories included:

- 1 x **FRSV 10x20** Round-head screw with short square (Main catalog - Cable trays - Page G37)
- 1 x **SEMS 10** Hexagon nut, self-locking, DIN 6923 (Main catalog - Cable trays - Page G43)

Article number	L mm	Ø mm	G kg/100
F			
KLS 10x20F	20	10	4

Accessories included:

- 1 x **FRSV 10x20F** Round-head screw with short square (Main catalog - Cable trays - Page G37)
- 1 x **SEM 10F** Hexagon-nut, DIN 934 (Main catalog - Cable trays - Page G43)
- 1 x **US 10x21F** Square washer, DIN 125 (Main catalog - Cable trays - Page G41)

Article number	L mm	Ø mm	G kg/100
E			
KLS 8x16E	16	8	1,8

Accessories included:

- 1 x **FRSV 8x16E** Round-head screw with short square (Main catalog - Cable trays - Page G37)
- 1 x **SEMS 8E** Hexagon nut, self-locking, DIN 6923 (Main catalog - Cable trays - Page G43)

Article number	L mm	Ø mm	G kg/100
E			
KLS 8x25E	25	8	2,2

Accessories included:

- 1 x **FRS 8x25E** Round-head screw with short square, DIN 603 (Main catalog - Cable trays - Page G37)
- 1 x **SEMS 8E** Hexagon nut, self-locking, DIN 6923 (Main catalog - Cable trays - Page G43)

Fastenings

Bolting fasteners/bolts and nuts

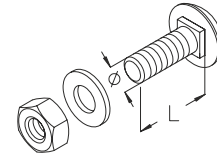
KLS Fixing set

Complete set.

Article number	L mm	Ø mm	G kg/100
E			
KLS 10x20E	20	10	3,9

Accessories included:

1 x FRSV 10x20E	Round-head screw with short square	(Main catalog - Cable trays - Page G37)
1 x SEM 10E	Hexagon-nut, DIN 934	(Main catalog - Cable trays - Page G43)
1 x US 10x21E	Square washer, DIN 125	(Main catalog - Cable trays - Page G41)

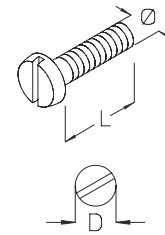


FKS Slotted cylinder head screw, DIN 84

Article number	L mm	D mm	Ø mm	G kg/100
GV				
FKS 6x10	10	12	6	0,4
FKS 6x20	20	12	6	0,6
FKS 6x25	25	12	6	0,7
FKS 8x20	20	16	8	1,3

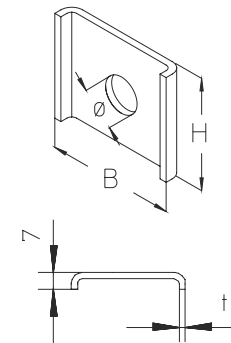
Article number	L mm	D mm	Ø mm	G kg/100
E				
FKS 6x10E	10	12	6	0,4
FKS 6x16E	16	12	6	0,4
FKS 6x20E	20	12	6	0,6
FKS 6x25E	25	12	6	0,7

Article number	L mm	D mm	Ø mm	G kg/100
E4				
FKS 6x16E4	16	12	6	0,4
FKS 8x16E4	16	16	8	1,1



RUS 41 Square washer

Article number	H mm	B mm	Ø mm	t mm	G kg/100
F					
RUS 41-L13F	40	46	13	2,5	4,00
E					
RUS 41-L13E	40	46	13	1,8	2,84



Fastenings

Channel nuts and bolts

AM18 Channel nut, A 7/ A 8

Article number	Ø mm	t mm	G kg/100
GV			
AM18 M6	6	6,0	2,6
AM18 M8	8	6,0	2,4
AM18 M10	10	8,0	3,3
AM18 M12	12	9,5	4,2

F			
AM18 M6F	6	6,0	2,8
AM18 M8F	8	6,0	2,6
AM18 M10F	10	8,0	3,5
AM18 M12F	12	9,5	4,5

E4			
AM18 M6E4	6	6,0	3,0
AM18 M8E4	8	6,0	2,9
AM18 M10E4	10	8,0	3,6
AM18 M12E4	12	9,5	3,4

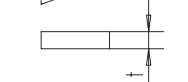
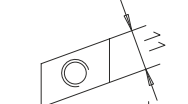
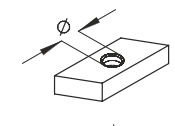
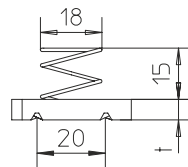
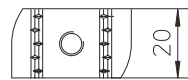
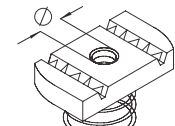
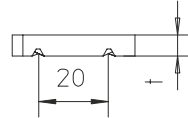
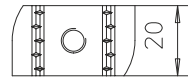
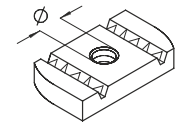
AMF18 Channel spring nut, A 7/ A 8

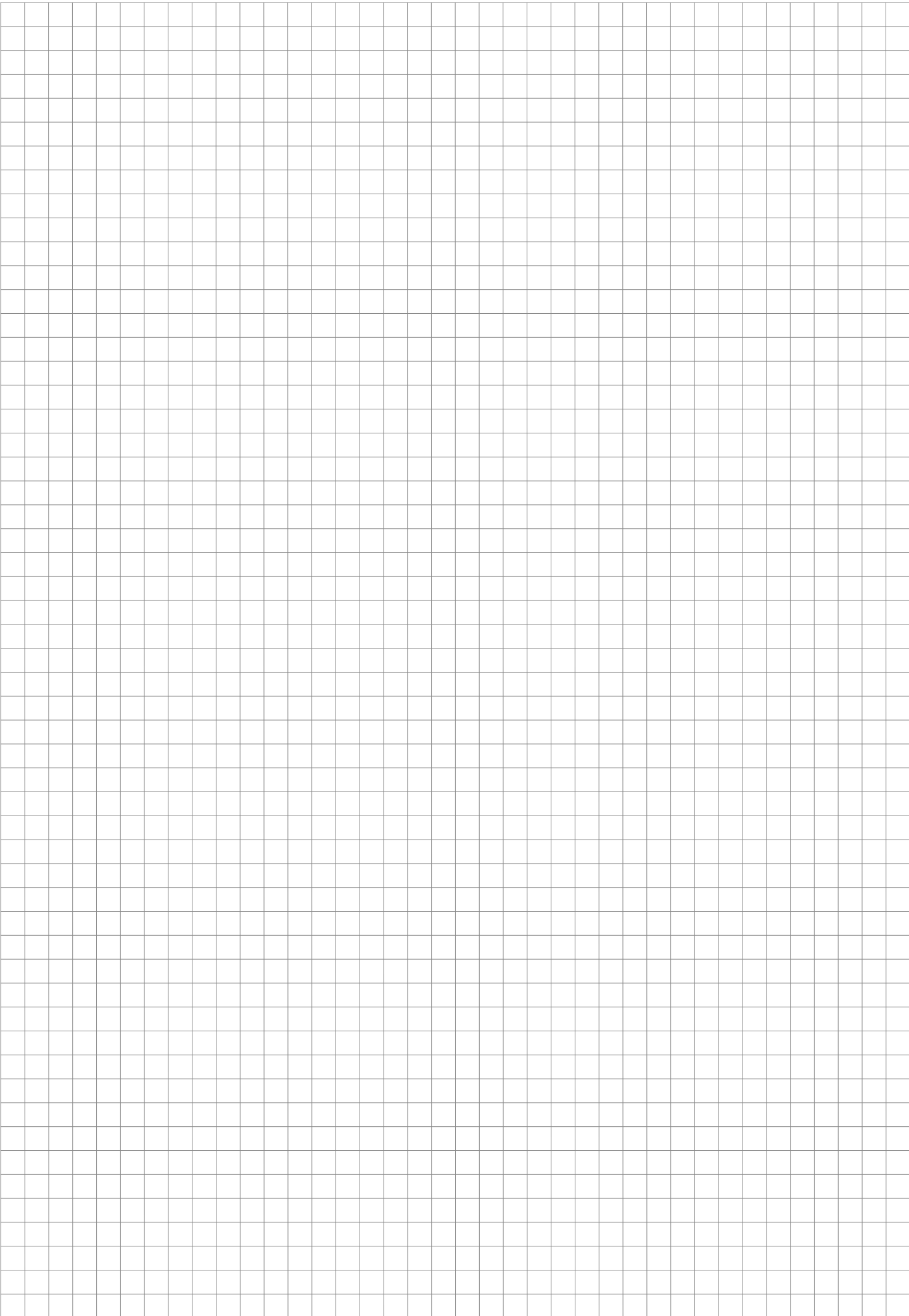
Article number	Ø mm	t mm	G kg/100
GV			
AMF18 M6	6	6,0	2,7
AMF18 M8	8	6,0	2,5
AMF18 M10	10	8,0	3,4
AMF18 M12	12	9,5	4,3

F			
AMF18 M6F	6	6,0	2,9
AMF18 M8F	8	6,0	2,7
AMF18 M10F	10	8,0	3,6
AMF18 M12F	12	9,5	4,6

AM11 Channel nut

Article number	Ø mm	t mm	G kg/100
F			
AM11 M6F	6	5,0	1,0
E			
AM11 M6E	8	5,0	0,9







Numeric index

A		
AM11	Channel nut	D09
AM18	Channel nut, A 7/ A 8	D09
AMF18	Channel spring nut, A 7/ A 8	D09
D		
DKSLL	Ceiling fixed bracket, light duty	C04
F		
FKS	Slotted cylinder head screw, DIN 84	D08
G		
GB	Threaded rod, DIN 976-1	D05
K		
KLR	Fixing set	D06
KLRL	Clamping assembly	D06
KLS	Fixing set	D07
KLU	Fixing set	D03
KSL-SP	Spacer KSL	C04
KWF	Bracket, light duty	C03
L		
LA 100	Cable ladder branch-piece, height=100 mm	B08
LA 50	Cable ladder branch-piece, height=50 mm	B07
LA 60	Cable ladder branch-piece, height=60 mm	B08
LD	Cable ladder cover	B09
LDR	Cable ladder cover with turning bolt	B09
LG 100	Cable ladder, height=100 mm	B05
LG 50	Cable ladder, height=50 mm	B03
LG 60	Cable ladder, height=60 mm	B04
LGV 100	Cable ladder coupler, height=100 mm	B10
LGV 50	Cable ladder coupler, height=50 mm	B10
LGV 60	Cable ladder coupler, height=60 mm	B10
LGVH 100	Cable ladder coupler, height=100 mm	B11
LGVH 50	Cable ladder coupler, height=50 mm	B11
LGVH 60	Cable ladder coupler, height=60 mm	B11
LGVV 100	Cable ladder coupler, height=100 mm	B12
LGVV 50	Cable ladder coupler, height=50 mm	B12
LGVV 60	Cable ladder coupler, height=60 mm	B12
LIB 100	Cable ladder inside bend, height=100 mm	B07
LIB 50	Cable ladder inside bend, height=50 mm	B06
LIB 60	Cable ladder inside bend, height=60 mm	B06
LTR 50	Cable ladder barrier strip, height=33 mm	B13
LTR 60	Cable ladder barrier strip, height=50 mm	B13
R		
RAA 60	Cable tray attachment branch-piece, height=60 mm	A04
RAAD	Cable tray attachment branch-piece cover	A08
RAADR	Cable tray attachment branch-piece cover with bar lock	A08
RAE 60	Cable tray attachment corner, height=60 mm	A04
RB 60	Cable tray bend, height=60 mm	A05
RB45 60	Cable tray bend, height=60 mm	A05
RBD	Cable tray bend cover	A07
RBD45	Cable tray bend cover	A07
RBDR	Cable tray bend cover with bar lock	A07
RBDR45	Cable tray bend cover with bar lock	A07
RD	Cable tray cover	A06
RDR	Cable tray cover with bar lock	A06
RG 60	Cable tray, perforated, height=60 mm	A03
RGV 60	Cable tray coupler, height=60 mm	A09
RTR 60	Cable tray barrier strip, height=60 mm	A09
RUS 41	Square washer	D08
S		
SA	Anchor	D04
SAZ	Anchor	D04
SD	Expansion anchor	D04
U		
U-03/U-04 (U-22)	Profile rail, perforated, 22x37 mm	C05
U-13/U-14 (U-44)	Profile rail, perforated, 44x37 mm	C05
U-52	Rail coupler, profile U-03 / U-13	C05
U-520 - U-526	Bracket, light duty	C03

Product line index

Anchor	SA	D04
Anchor	SAZ	D04
Bracket, light duty	KWF	C03
Bracket, light duty	U-520 - U-526	C03
Cable ladder barrier strip, height=33 mm	LTR 50	B13
Cable ladder barrier strip, height=50 mm	LTR 60	B13
Cable ladder branch-piece, height=100 mm	LA 100	B08
Cable ladder branch-piece, height=50 mm	LA 50	B07
Cable ladder branch-piece, height=60 mm	LA 60	B08
Cable ladder coupler, height=100 mm	LGV 100	B10
Cable ladder coupler, height=100 mm	LGVH 100	B11
Cable ladder coupler, height=100 mm	LGVV 100	B12
Cable ladder coupler, height=50 mm	LGV 50	B10
Cable ladder coupler, height=50 mm	LGVH 50	B11
Cable ladder coupler, height=50 mm	LGVV 50	B12
Cable ladder coupler, height=60 mm	LGV 60	B10
Cable ladder coupler, height=60 mm	LGVH 60	B11
Cable ladder coupler, height=60 mm	LGVV 60	B12
Cable ladder cover	LD	B09
Cable ladder cover with turning bolt	LDR	B09
Cable ladder inside bend, height=100 mm	LIB 100	B07
Cable ladder inside bend, height=50 mm	LIB 50	B06
Cable ladder inside bend, height=60 mm	LIB 60	B06
Cable ladder, height=100 mm	LG 100	B05
Cable ladder, height=50 mm	LG 50	B03
Cable ladder, height=60 mm	LG 60	B04
Cable tray attachment branch-piece cover	RAAD	A08
Cable tray attachment branch-piece cover with bar lock	RAADR	A08
Cable tray attachment branch-piece, height=60 mm	RAA 60	A04
Cable tray attachment corner, height=60 mm	RAE 60	A04
Cable tray barrier strip, height=60 mm	RTR 60	A09
Cable tray bend cover	RBD	A07
Cable tray bend cover	RBD45	A07
Cable tray bend cover with bar lock	RBDR	A07
Cable tray bend cover with bar lock	RBDR45	A07
Cable tray bend, height=60 mm	RB 60	A05
Cable tray bend, height=60 mm	RB45 60	A05
Cable tray coupler, height=60 mm	RGV 60	A09
Cable tray cover	RD	A06
Cable tray cover with bar lock	RDR	A06
Cable tray, perforated, height=60 mm	RG 60	A03
Ceiling fixed bracket, light duty	DKSLL	C04
Channel nut	AM11	D09
Channel nut, A 7/ A 8	AM18	D09
Channel spring nut, A 7/ A 8	AMF18	D09
Clamping assembly	KLRL	D06
Expansion anchor	SD	D04
Fixing set	KLR	D06
Fixing set	KLS	D07
Fixing set	KLU	D03
Profile rail, perforated, 22x37 mm	U-03/U-04 (U-22)	C05
Profile rail, perforated, 44x37 mm	U-13/U-14 (U-44)	C05
Rail coupler, profile U-03 / U-13	U-52	C05
Slotted cylinder head screw, DIN 84	FKS	D08
Spacer KSL	KSL-SP	C04
Square washer	RUS 41	D08
Threaded rod, DIN 976-1	GB	D05

Legend

A	Cross section (useable) of cable tray
a	Wire distance
B	Width
D Ø	Diameter
d	Thickness
F _D	Dowel load
G	Weight per piece
H	Height
H _{max}	Maximum height
IK	Internal hexagon
k	Clamping range
L	Length
L _{min}	Minimum length
I _y	Torque of inertia around y-axis
I _z	Torque of inertia around z-axis
M	Torque
I	Capacity
P	Load
P _{max}	Maximum permissible load
P _{zul}	Permissible load
Q _{LK}	Distributed load power cable
Q _{SK}	Distributed load control cable
R	Radius
StA	Distance between supports
SW	Wrench size
t	Material thickness
T	Depth
T _{max}	Maximum temperature
W _y	Resisting torque around y-axis
W _z	Resisting torque around z-axis
B	Steel, untreated and non-corrosive
E	Stainless steel, material no. 1.4301 (ANSI 304) (V2A)
E4	Stainless steel, material no. 1.4571 (ANSI 316 Ti) / 1.4404 (ANSI 316 L)
EPDM	Ethylene-propylene-caoutchouc
F	Hot-dip galvanized, according to EN ISO 1461
FP	Galvanized, according to EN ISO 10683:2014
GV	Fastenings galvanized, according to ISO 4042
M	Sand blasted and imprimer
PA	Polyamide
PE	Polyethylen
PVC	Polyvinyl chloride
S	Continuously hot galvanized (Sendzimir process) (EN 10346) (10244-2 for wire)
ZM	Coating Magnelis [®] , EN 10346
	Do not walk upon!
	Products included in the E30-E90 system. Detailed information is available in the CNBOP-PIB National Technical Assessment No. CNBOP-PIB-KOT-2017/0013-3703 issue 3 rd



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