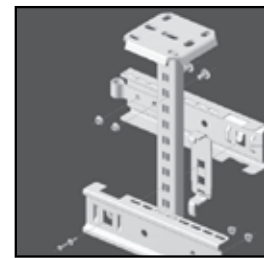
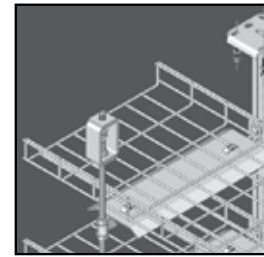


Standard supporting constructions



FIRE-RESISTANT SYSTEMS

Non-standard supporting constructions



Accessories



FIRE RESISTANCE

STANDARD SUPPORTING CONSTRUCTION

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NON-STANDARD SUPPORTING CONSTRUCTION

CABLE TRAYS		
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ASSEMBLY ACCESSORIES

ACCESSORIES		
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FIRE RESISTANCE ACCORDING THE DIN 4102 PART 12 STANDARD

INTRODUCTION

The safety of people in case of fire can only be guaranteed if all the necessary safety requirements (such as fire detectors, emergency lighting, passenger and firemen lifts, smoke and heat discharge installations) remain operational.

RANGE OF APPLICATION

The DIN Standard 4102 part 12 contains the concepts and measures in order to obtain preservation of functionality. The range of application of this standard, however, is limited to 1KV. The preservation of functionality is classified into two groups : E30 and E90. The duration that an installation has to remain operational is described in part 1 of DIN VDE 0108. Thus for example, installations used for signalisation and evacuation of the buildings will have to remain functional for at least 30 minutes (E30); E90 fire-fighting installations (at least 90 minutes) include compressors, smoke hatches, fire-fighting lifts,....

TEST

The preservation of functionality of the cables must not be negatively influenced by the installation during the test. Only horizontal set-ups are tested; the test results for horizontal set-ups are also valid for set-ups at an angle, such as vertical set-ups. This is only possible if the installation is propped up in the transition between vertical and horizontal stretches, in order to prevent the installation from buckling through or sliding off on the sides.

IMPORTANT

For installation, keep in mind that there are two types of installations : Standard Supporting Constructions and Non-Standard Supporting Constructions.

STANDARD SUPPORTING CONSTRUCTION :

Transferability of the cables is obtained by means of this structure. This means that if a cable manufacturer has carried out a test on a standard supporting structure (supporting structure according to the standard), the properties of these cables can then be transferred to other structures.

In part 12 of DIN 4102 it is described as follows :

- Mutual spacing between various stretches under each other, higher than or equal to 250 mm
- Support distance smaller than or equal to 1200 mm
- Min. thickness of the cable tray 1.5 mm
- Max. load for cable trays 10 kg/m
- Max. load for cable ladders 20 kg/m
- Bracket bolted or welded onto the ceiling support
- Max. width of the cable tray 300 mm (percentage of perforations 15±5%)
- Max. width of the cable ladder equal to 400 mm
- Rung distance of the ladders max. 150 mm
- Cable tray height is 60 mm
- Extremity of the bracket held up by threaded rod
- Jointing plates positioned midspan (worst case)

Standard supporting constructions :

1. Construction with cable tray KBS 60 (E90)
 - 1.a. Mounting with threaded rod
 - 1.b. Mounting with double threaded rod
2. Construction with cable ladder KLBS 60 (E90)
 - 2.a. Mounting with threaded rod
3. Vertical mounting with cable ladder KL 60 (E90)
4. Cable clamps with profile DR 15*30 (E90)

NON-STANDARD SUPPORTING CONSTRUCTIONS :

This is a construction that does not comply with one of the above conditions. As a result, transferability is not possible in this case.

Non-standard supporting constructions :

New : Construction with cable tray KBSTI 60 (E90)

Mounting without threaded rod

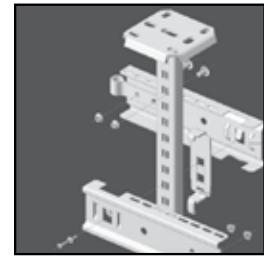
1. Construction with cable tray KBSI 60 (E90)

New : Mounting without threaded rod

- 1.a. Mounting with threaded rod
- 1.b. Mounting with double threaded rod
2. Construction with cable tray KBS 60 (E90)
 - 2.a. Mounting without threaded rod
 - 2.b. Mounting with threaded rod
3. Construction with wire cable tray VF 60 (E90)
 - 3.a. Mounting with threaded rod

FIRE-RESISTANT SYSTEMS

Standard supporting constructions



Nr 5 : Mounting to the wall (45°)		To fix with :	Amount	Remark	Class	
		Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 1 level, Variant 1, Annexes 11, 13				
		KBS 60* 100 - 300*1,50	1		E 30 - E 90	
		KPBS 100 - 300	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
		WK 100-300	2	Concrete anchor M 10		
		BSKLEM	1			
		TIM 10	1	Concrete anchor M 10		
VS 41*45	1	Concrete anchor M 12				
VS 41*45	1 + 2 + 1	B 12*50 + RO 12 + M 12	For 45° mounting to the wall	Fixation VS 41*45 onto WK		
KBS 60* 100 - 300*1,50	2	VMK 6*10	Mounting of the cable tray onto WK			
Nr 6 : Mounting to the wall (90°)		To fix with :	Amount	Remark	Class	
		Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 1, Annexes 11, 13				
		KBS 60* 100 - 300*1,50	1		E 30 - E 90	
		KPBS 100 - 300	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
		WK 100-300	2	Concrete anchor M 10		
		BSKLEM	1			
		TIM 10 - 12	1	Concrete anchor M 10 - 12		
KBS 60* 100 - 300*1,50	2	VMK 6*10	1 level : M 10; 2-3 levels : M 12	Mounting of the cable tray onto WK		
Nr 7 : Mounting to the wall (45°)		To fix with :	Amount	Remark	Class	
		Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 1 level, Variant 2, Annexes 12-13				
		KBS 60* 100 - 300*1,50	1		E 30 - E 90	
		KPBS 100 - 300	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
		LOMEGA 150*100 - 400	2	Concrete anchor M 10		
		VOMEGA	1			
		TIM 10	4 + 4	M 10 + CRO 10		Fixation TIM onto VS 41*45
		VS 41*45	1	Concrete anchor M 12		For 45° mounting to the wall
		VS 41*45	1 + 2 + 1	B 10*20 + RO 10 + M 10		Fixation VS 41*45 onto LOMEGA
		KBS 60* 100 - 300*1,50	2	VMK 6*10		Mounting of the cable tray onto LOMEGA
		Nr 8 : Mounting to the wall (90°)		To fix with :		Amount
		Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 2, Annexes 12-13				
		KBS 60* 100 - 300*1,50	1		E 30 - E 90	
		KPBS 100 - 300	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
		LOMEGA 150*100 - 400	2	Concrete anchor M 10		
		VOMEGA	1			
		TIM 10 - 12	1	Concrete anchor M 10 - 12		1 level : M 10; 2-3 levels : M 12
		TIM 10 - 12	2 + 2	M 10 - 12 + CRO 10 - 12		Mounting TIM onto LOMEGA
KBS 60* 100 - 300*1,50	2	VMK 6*10	Mounting of the cable tray onto LOMEGA			

2. Mounting with double threaded rod


Nr 9 : Mounting to the ceiling		To fix with :	Amount	Remark	Class	
		Certificate 3303/9910-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 6, Annex 10				
		KBS 60* 100 - 300*1,50	1		E 30 - E 90	
		KPBS 100 - 300	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
		TIM 8 - 10 - 12	2	Concrete anchor M 8 - 10 - 12		1 level : M 8; 2 levels : M 10; 3 levels : M 12
		MPCL 41*21*1,50	4	M 8 - 10 - 12 + RO 8 - 10 - 12		1 level : M 8; 2 levels : M 10; 3 levels : M 12
		KBS 60* 100 - 300*1,50	2 + 2	VMK 6*10 + CRO 6		Mounting of the cable tray onto MPCL

- Fixation with certified concrete anchors.

- The amount of products is always calculated for the smallest construction (1 level + asymmetrical

SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

1. Standard supporting constructions applicable with all DIN 4102-12 certified cables

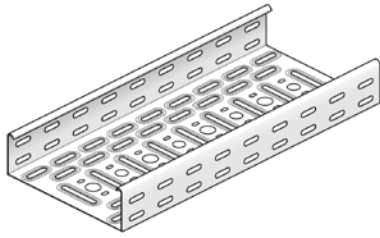
		Conditions	Standard supporting constructions (nr 10 - nr 17)
<p>KLBS 60</p> 		<ul style="list-style-type: none"> - Gauge = 1,5 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) ≤ 1200 mm - Max. rung distance = 150 mm - Maximum 3 levels - Fixation of threaded rod at the end of the brackets 	<p>1. Mounting with threaded rod :</p> <ul style="list-style-type: none"> - Mounting to the ceiling (nr 10 - nr 13) - Mounting to the wall (nr 14 - nr 17)

1. Mounting with threaded rod

Nr	Code	To fix with :	Amount	Remark	Class
Nr 10 : Mounting to the ceiling	Certificate 3305/9930-1 MPA BS : F = 20 kg/m, L = 1200 mm, Max. 3 levels, Variant 1, 2, 6, 12				
	KLBS 60*200 - 400	KPBSKL 200 - 400	1		E 30 - E 90
	KPBSKL 200 - 400	VMK 6*10	20		
	HSLECL 300 - 1200	Concrete anchor M 12	2		
	WK 200 - 400	B 10*40 + CRO 10 + M 10	2 + 4 + 2		
	BSKLEM		1		
TIM 12	Concrete anchor M 12	1			
Nr 11 : Mounting to the ceiling	KLBS 60*200-400	BK	2	Mounting of the cable ladder onto WK	
	Certificate 3305/9930-1 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 2, Annexes 3-6, 12				
	KLBS 60*200 - 400	KPBSKL 200 - 400	1		E 30 - E 90
	KPBSKL 200 - 400	VMK 6*10	20		
	HSLECL 300 - 1200	Concrete anchor M 12	2		
	KCLBS 200 - 400	VM 4*40	1		
BSKLEM		1			
TIM 10-12	Concrete anchor M 12	1	1 level : TIM 10; 2 - 3 levels : TIM 12		
Nr 12 : Mounting to the ceiling	KLBS 60*200-400	BK	2	Mounting of the cable ladder onto KCLBS	
	Certificate 3305/9930-1 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Variant 3, Annexes 7, 8, 12				
	KLBS 60*200 - 300	KPBSKL 200 - 300	1		E 30 - E 90
	KPBSKL 200 - 300	VMK 6*10	20		
	COMEGA 290* 300 - 400	Concrete anchor M 12	2		
	VOMEGA		1		
TIM 10	Concrete anchor M 10	1	Mounting TIM onto COMEGA		
TIM 10	M 10	2	Mounting of the cable ladder onto COMEGA		
Nr 13 : Mounting to the ceiling	KLBS 60*200-400	BK	2	Mounting of the cable ladder onto COMEGA	
	Certificate 3305/9930-1 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Variant 4, Annexes 9, 12				
	KLBS 60*200 - 300	KPBSKL 200 - 300	1		E 30 - E 90
	KPBSKL 200 - 300	VMK 6*10	20		
	LOMEGA 150*400 - 600	Concrete anchor M 10	2		
	LOMEGA 150*300 - 400	B 10*30 + CRO 10 + M 10	2 + 2 + 2		
VOMEGA		1			
TIM 10	Concrete anchor M 10	1	Mounting TIM onto LOMEGA		
TIM 10	M 10	2	Mounting of the cable ladder onto LOMEGA		
KLBS 60*200-400	BK	2			

KBS 60

Perforated cable tray



Max. load	10 daN
Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
HD	KBS 60*100*1.50	60	100	1.500	3000	2.350	60	✓	m
HD	KBS 60*150*1.50	60	150	1.500	3000	2.830	30	✓	m
HD	KBS 60*200*1.50	60	200	1.500	3000	3.320	30	✓	m
HD	KBS 60*300*1.50	60	300	1.500	3000	4.300	30	✓	m

More technical specifications for this product can be found at the end of this chapter.

KPBS

Coupling for Cable tray (BS)



For jointing of KBS.

Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	KPBS 100	55	96	-	-	0.550	1	✓	piece
HD	KPBS 150	55	146	-	-	0.670	1	✓	piece
HD	KPBS 200	55	196	-	-	0.850	1	✓	piece
HD	KPBS 300	55	296	-	-	1.100	1	✓	piece

To fix with:

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece

Use all perforations.

KLBS 60

Cable ladder KL (BS)



Side walls : L-profile
C-rungs

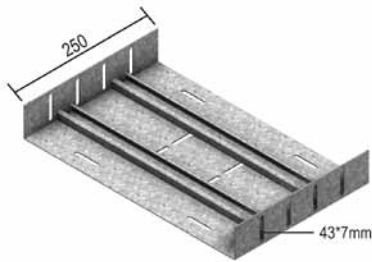
Useful inner height	45 mm
Rung distance	100 mm
Max. load	20 daN
Standard finish	Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
-	KLBS 60*200	60	200	-	3000	2.760	24		m
-	KLBS 60*300	60	300	-	3000	3.360	24		m
-	KLBS 60*400	60	400	-	3000	3.860	24		m

More technical specifications for this product can be found at the end of this chapter.

KPBSKL

Jointing plate for cable ladder (BS)



Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	KPBSKL 200	55	196	-	-	1.100	1		piece
-	KPBSKL 300	55	296	-	-	1.450	1		piece
-	KPBSKL 400	55	396	-	-	1.850	1		piece
To fix with:									
HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece

BK

Fixation clamp for KL



For fixation of the cable ladder on the wall bracket.

Standard finish

Pre-galvanised

Optional finish 1

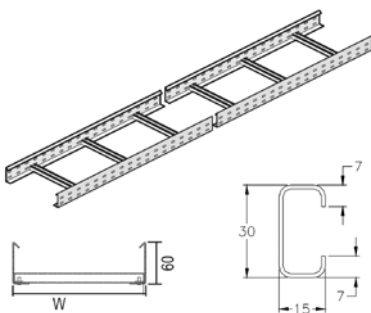
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	BK	-	-	-	-	0.020	50	✓	piece

Bolt B 6*20, nut RM 6 and VFKG 30 inclusive.
Two pieces per bracket.

KL 60

Cable ladder



Can only be used for vertical mounting
Side walls : perforated L-profile
C-rungs

Useful inner height

45 mm

Rung distance

300 mm

Standard finish

Pre-galvanised

Optional finish 1

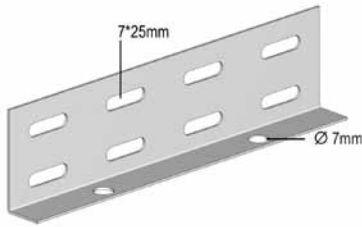
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
HD	KL 60*200	60	200	-	3000	2.370	24	✓	m
HD	KL 60*300	60	300	-	3000	2.570	24	✓	m
HD	KL 60*400	60	400	-	3000	2.770	24	✓	m
To fix with:									
HD	LVBS 60	51,5	200	-	-	0.120	12	✓	piece

More technical specifications for this product can be found at the end of this chapter.

LVBS 60

Jointing plate vertical cable ladder(BS)



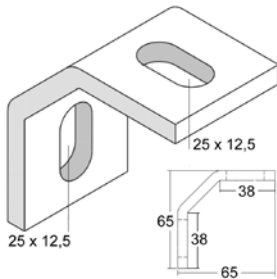
Only for vertical mounting
For jointing of KL 60

Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	LVBS 60	51,5	200	-	-	0.120	12	✓	piece
To fix with:									
HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece

WVPIPN

Universal fixing for IPN 80 SL

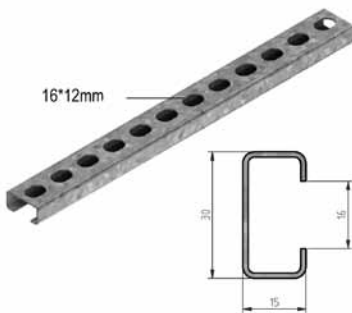


Standard finish	Hot-dip galvanised
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HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	WVPIPN	65	65	6.500	-	0.190	50	✓	piece

DR 15*30

Supporting profile



For wall and ceiling constructions

Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	DR 100	15	30	-	100	0.060	50	✓	piece
HD	DR 150	15	30	-	150	0.080	50	✓	piece
HD	DR 200	15	30	-	200	0.110	50	✓	piece
HD	DR 250	15	30	-	250	0.130	50	✓	piece
HD	DR 300	15	30	-	300	0.160	50	✓	piece
HD	DR 350	15	30	-	350	0.190	50	✓	piece
HD	DR 15*30*2000	15	30	-	2000	0.600	1		m

More technical specifications for this product can be found at the end of this chapter.

Max. support distance without clamp support = 300 mm

Max. support distance with clamp support = 600 mm

Use of cable clamps, type H

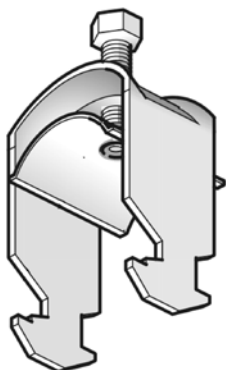
Up to 3 cables per cable clamp

Applicable with all DIN 4102-12 certified cables

Fixation to the ceiling or wall with certified concrete anchors

H1

Cable clamp for 1 cable



Applicable in case of C-rungs 15x30.

Standard finish

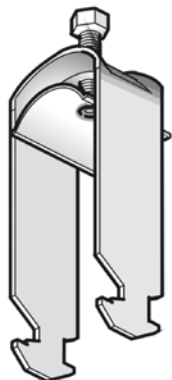
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	Y 1198	-	12	-	-	0.030	50	✓	piece
-	Y 1199	-	16	-	-	0.030	50	✓	piece
-	Y 1200	-	20	-	-	0.040	50	✓	piece
-	Y 1201	-	24	-	-	0.040	50	✓	piece
-	Y 1202	-	28	-	-	0.040	50	✓	piece
-	Y 1203	-	32	-	-	0.060	50	✓	piece
-	Y 1204	-	36	-	-	0.070	50	✓	piece
-	Y 1205	-	40	-	-	0.080	50	✓	piece
-	Y 1206	-	44	-	-	0.090	50	✓	piece
-	Y 1207	-	48	-	-	0.100	50	✓	piece
-	Y 1208	-	52	-	-	0.100	50	✓	piece
-	Y 1209	-	56	-	-	0.110	50	✓	piece
-	Y 1210	-	60	-	-	0.140	50	✓	piece
-	Y 1211	-	64	-	-	0.160	50	✓	piece
-	Y 1212	-	70	-	-	0.160	50	✓	piece

Up to 3 cables per cable clamp.

H2

Cable clamp for 2 cables



Applicable in case of C-rungs 15x30.

Standard finish

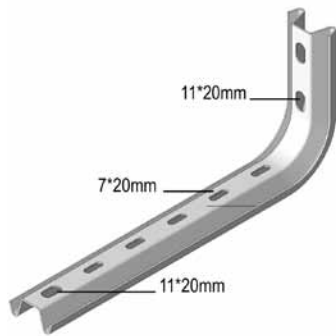
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	Y 1213	-	12	-	-	0.040	50	✓	piece
-	Y 1214	-	16	-	-	0.040	50	✓	piece
-	Y 1215	-	20	-	-	0.040	50	✓	piece
-	Y 1216	-	24	-	-	0.050	50	✓	piece
-	Y 1217	-	28	-	-	0.060	50	✓	piece
-	Y 1218	-	32	-	-	0.080	50	✓	piece
-	Y 1219	-	36	-	-	0.100	50	✓	piece
-	Y 1220	-	40	-	-	0.100	50	✓	piece
-	Y 1221	-	44	-	-	0.130	50	✓	piece
-	Y 1223	-	52	-	-	0.150	50	✓	piece
-	Y 1224	-	56	-	-	0.150	50	✓	piece

Up to 3 cables per cable clamp.

LOMEGA 150

Bracket/ceiling profile



Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	LOMEGA 150*100	145	145	-	-	0.300	12	✓	piece
-	LOMEGA 150*150	145	195	-	-	0.320	12	✓	piece
-	LOMEGA 150*200	145	245	-	-	0.340	12	✓	piece
-	LOMEGA 150*250	145	295	-	-	0.450	12	✓	piece
-	LOMEGA 150*300	145	345	-	-	0.490	12	✓	piece
-	LOMEGA 150*400	145	445	-	-	0.540	6	✓	piece
-	LOMEGA 150*500	145	545	-	-	0.710	6	✓	piece
-	LOMEGA 150*600	145	645	-	-	0.770	6	✓	piece

To fix with:

HD	B 10*30	-	-	M10	30	0.030	250	✓	piece
HD	CRO 10	-	-	M10	-	0.020	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

Can also be used as ceiling profile.

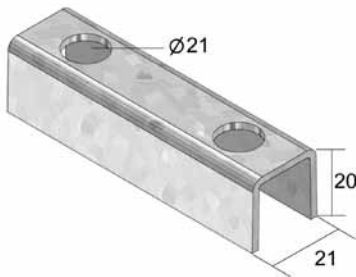
Ends held up through a threaded rod TIM.

Use the VOMEGA to avoid compression of the profile.

When ordering, add 100 mm to the width. E.g. KBS 300: use LOMEGA 150*400.

VOMEGA

Jointing piece



Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	VOMEGA	-	-	-	-	0.060	48	✓	piece

More technical specifications for this product can be found at the end of this chapter.

For wall mounting 1 piece, for double mounting 2 pieces, back to back.

COMEGA 290

Open suspension bracket



Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	COMEGA 290*150	290	195	-	-	0.560	12	✓	piece
-	COMEGA 290*200	290	245	-	-	0.620	12	✓	piece
-	COMEGA 290*250	290	295	-	-	0.760	6	✓	piece
-	COMEGA 290*300	290	345	-	-	0.820	6	✓	piece
-	COMEGA 290*400	290	445	-	-	0.930	6	✓	piece

More technical specifications for this product can be found at the end of this chapter.

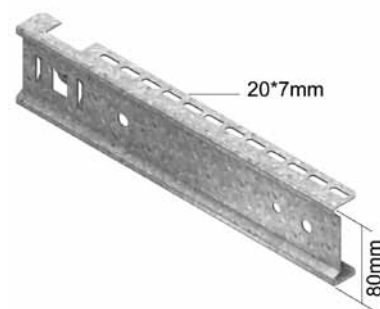
Ends held up by threaded rod TIM 10.

Use the VOMEGA to avoid compression of the profile.

When ordering, add 100 mm to the width. E.g. KBS 300: use COMEGA 290*400.

KCLBS

Click-on bracket (BS)



Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	KCLBS 100	80	180	-	-	0.220	48		piece
-	KCLBS 200	80	280	-	-	0.350	48		piece
-	KCLBS 300	80	380	-	-	0.470	24		piece
-	KCLBS 400	80	480	-	-	0.750	24		piece
To fix with:									
-	VM 4*40	-	-	M4	40	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

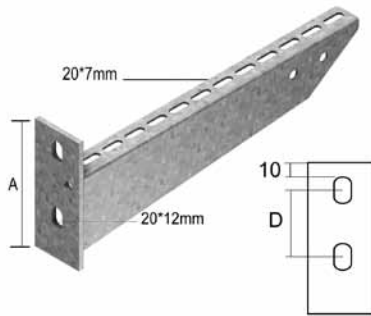
- Completely clipsable, secured with VM 4*40.

- Use CLHS for symmetrical mounting.

- Clamp for fixation of threaded rod (BSKLEM) to order separately.

WK

Joined bracket



Specially intended for wall and tunnel applications

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	WK 100	106,5	117	-	-	0.300	24	✓	piece
-	WK 150	112	167	-	-	0.360	24	✓	piece
-	WK 200	116	217	-	-	0.430	24	✓	piece
-	WK 250	120,5	267	-	-	0.530	12	✓	piece
-	WK 300	125	317	-	-	0.730	12	✓	piece
-	WK 400	134	417	-	-	0.880	12	✓	piece

To fix with:

HD	B 10*40	-	-	M10	40	0.030	250	✓	piece
HD	CRO 10	-	-	M10	-	0.020	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

- Clamp for fixation of threaded rod (BSKLEM) to order separately.
- For symmetrical mounting, use B 12*50 + CRO 12 + M 12.

BSKLEM

Clamp for fixation of threaded rod



Userfriendly. Up to 25% time-saving. Very fast securing of the threaded rod TIM, using a clamping bold. Applicable on WK and KCLBS.

Standard finish

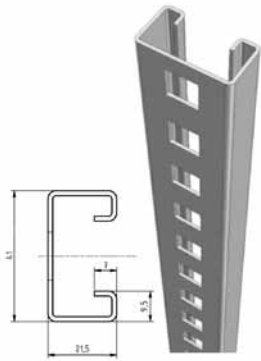
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	BSKLEM	25	125	-	-	0.120	2	✓	piece

- Ends held up through threaded rod TIM.
- No additional bolts and nuts needed.
- Threaded rod can be mounted in 1 continuous length.
- Diameter of the threaded rod TIM not of influence.
- Clamping bolt to be tightened with angular momentum of 10 Nm.

MPCL

Assembly profile clips



Standard finish

Pre-galvanised

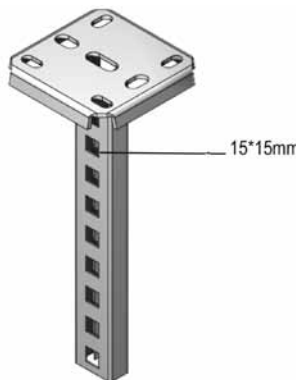
HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	MPCL 41*21*1.50*200	41	21	1.500	210	0.240	10	✓	piece
-	MPCL 41*21*1.50*300	41	21	1.500	300	0.340	10	✓	piece
-	MPCL 41*21*1.50*400	41	21	1.500	420	0.480	10	✓	piece
-	MPCL 41*21*1.50*500	41	21	1.500	510	0.580	10	✓	piece

To fix with:

HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece

HSLECL

Single Ceiling profile clips



Ceiling profile : MP 41*21
Welded headplate of 120 x 120 mm

Max. load

300 daN

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	HSLECL 300	-	-	-	300	0.850	1	✓	piece
-	HSLECL 400	-	-	-	420	1.010	1	✓	piece
-	HSLECL 500	-	-	-	510	1.130	1	✓	piece
-	HSLECL 600	-	-	-	600	1.230	1	✓	piece
-	HSLECL 800	-	-	-	810	1.450	1	✓	piece
-	HSLECL 1000	-	-	-	1020	1.750	1	✓	piece
-	HSLECL 1200	-	-	-	1200	1.950	1	✓	piece

More technical specifications for this product can be found at the end of this chapter.

Also applicable for double mounting.

Fixed with 2 anchoring bolts.

For symmetrical mounting, to fix with 2 anchoring bolts M 12.

CLHS

Adapter clips for HSLECL



For symmetrical mounting of KCLBS

Standard finish

Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	CLHS	-	-	-	-	0.120	24	✓	piece

VS 41*45

Assembly accessorie



To be used when mounting the threaded rod to the wall.

Standard finish	Hot-dip galvanised
-----------------	--------------------

HD	Reference	↑ mm	↔ mm	⊥ mm	↔ mm	kg/piece	📦	Stock	Unit
-	VS 41*45	-	40	3.000	-	0.100	12	✓	piece

More technical specifications for this product can be found at the end of this chapter.

TIM

Threaded rod (DIN 975)



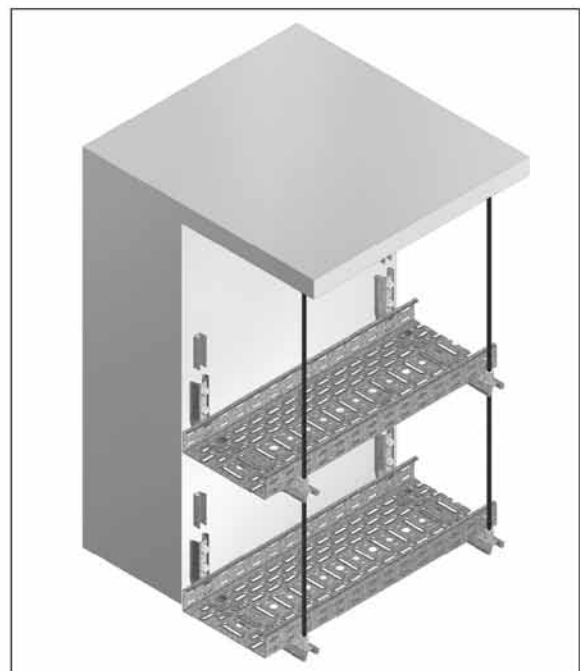
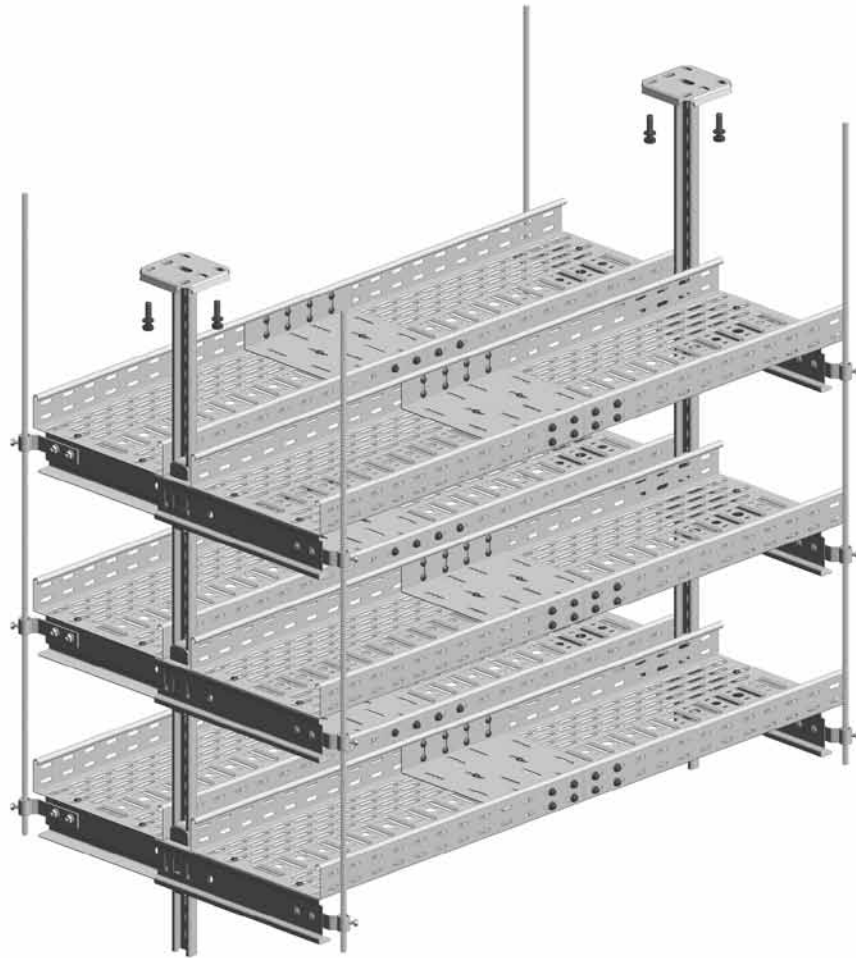
Standard finish	Electro zinc-plated
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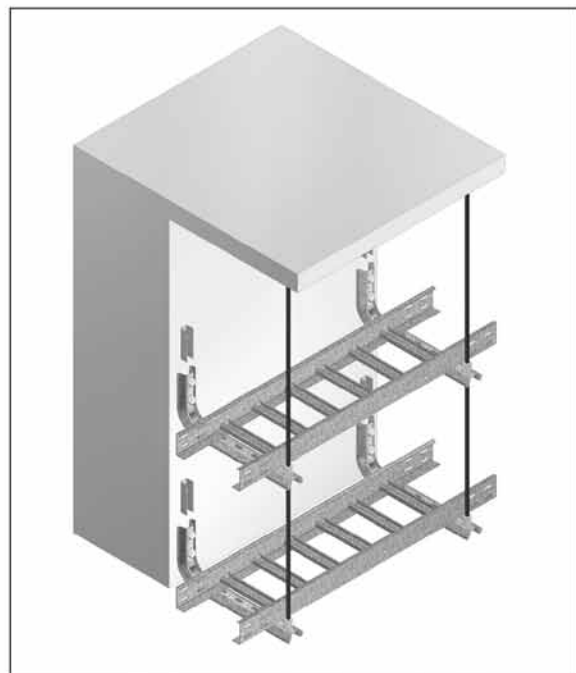
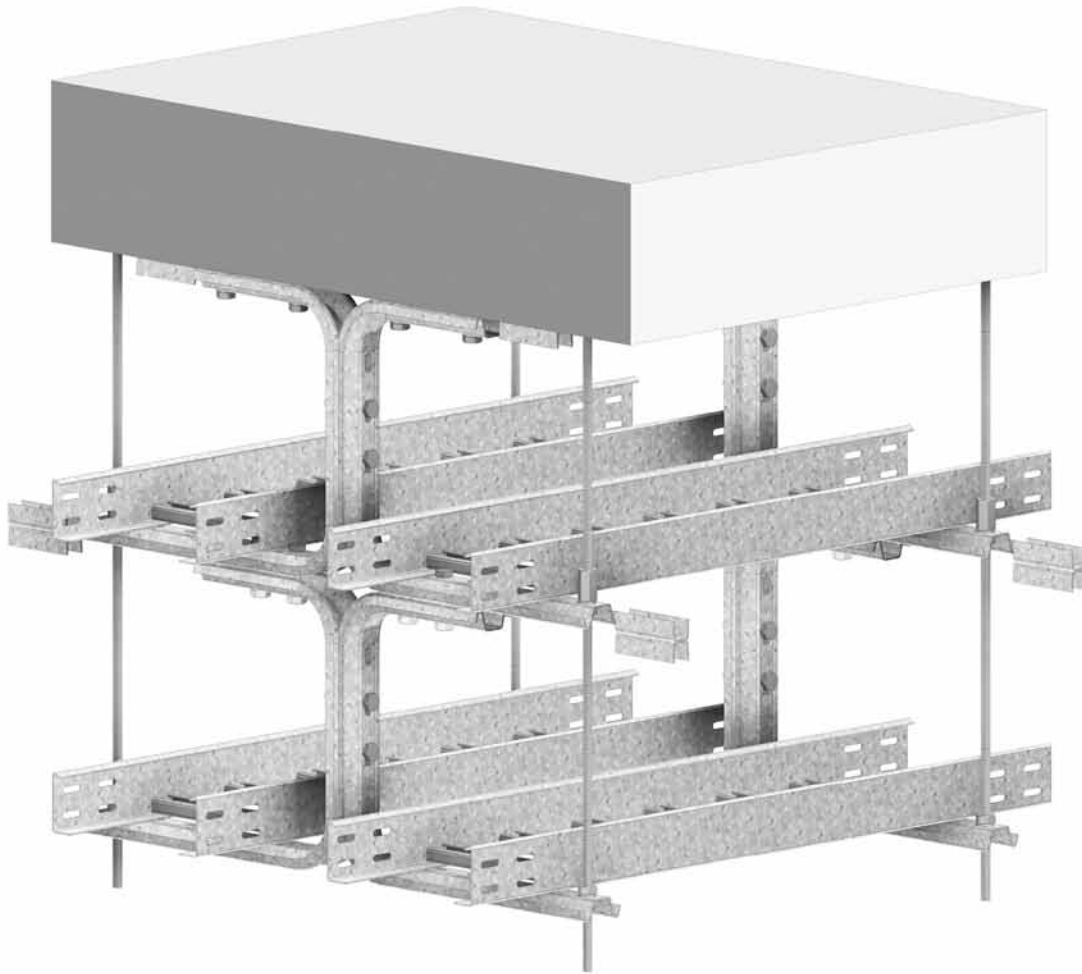
HD	Reference	↑ mm	↔ mm	⊥ mm	↔ mm	kg/m	📦	Stock	Unit
-	TIM 8	-	-	M8	2000	0.310	20	✓	m
-	TIM 10	-	-	M10	2000	0.460	20	✓	m
-	TIM 12	-	-	M12	2000	0.700	10	✓	m

To fix with:									
HD	Reference	↑ mm	↔ mm	⊥ mm	↔ mm	kg/m	📦	Stock	Unit
HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	M 12	-	-	M12	-	0.020	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 12	-	-	M12	-	0.010	250	✓	piece

KBS 60

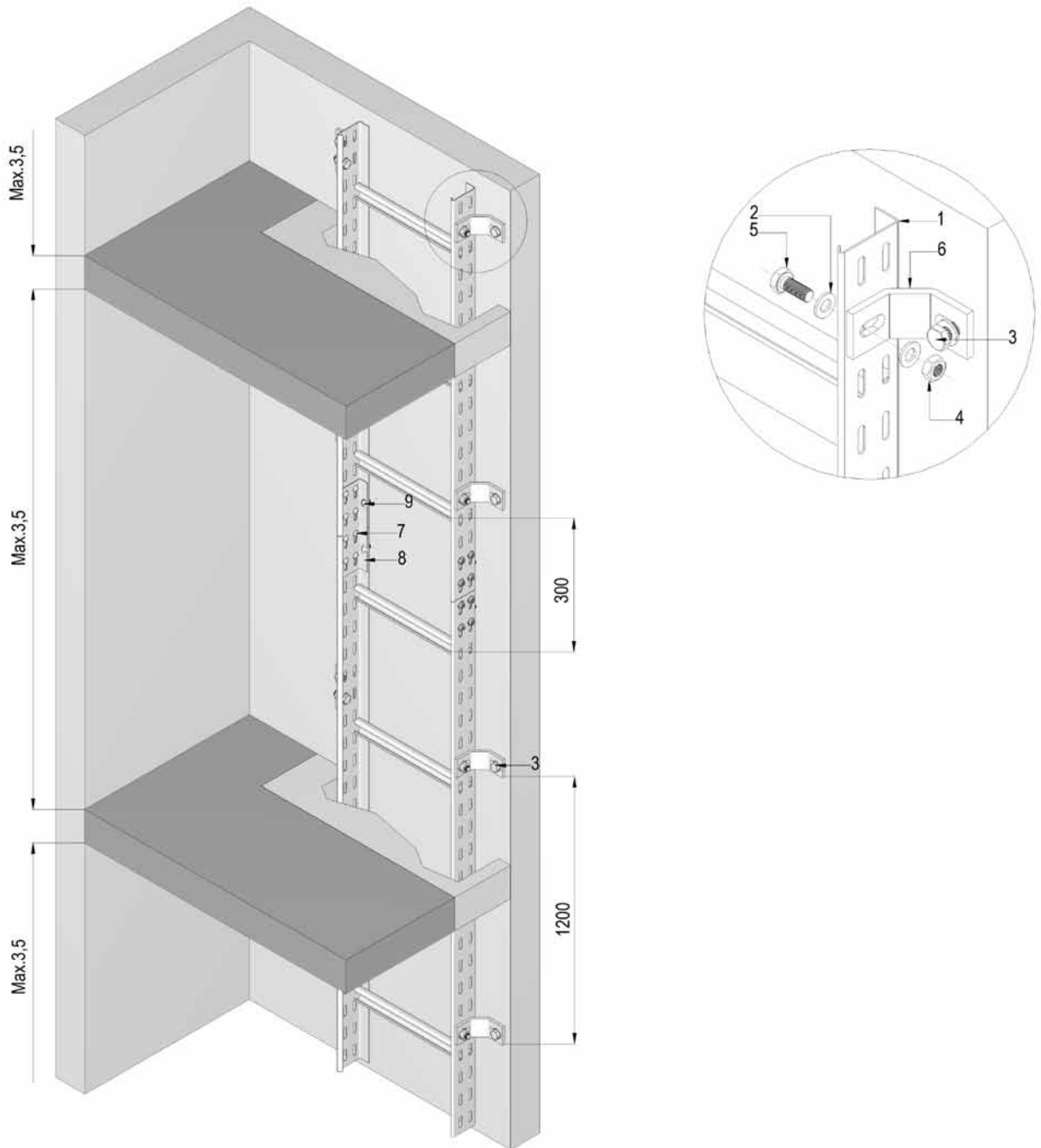
Mounting principle



KLBS 60**Mounting principle**

KL 60

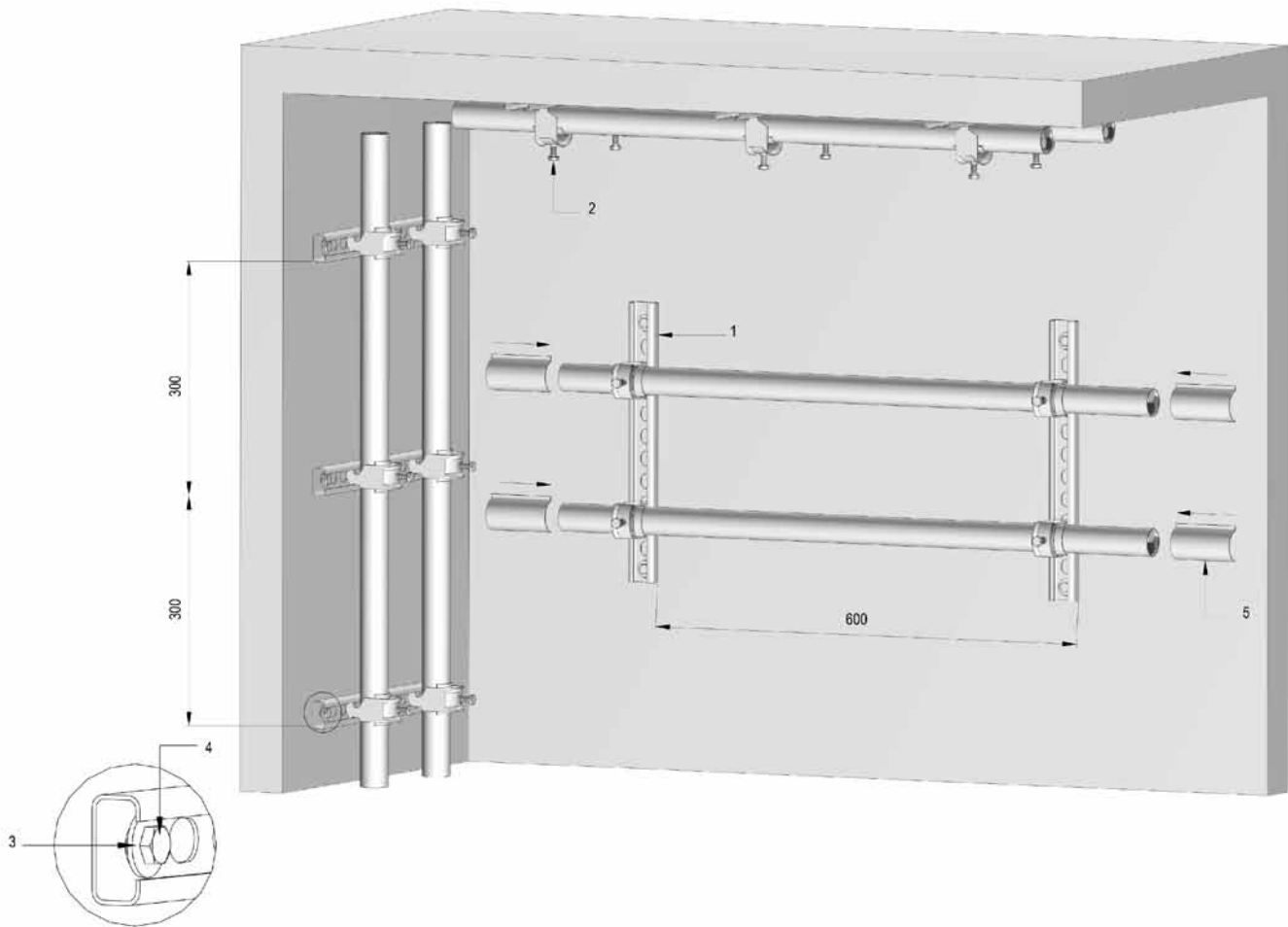
Mounting principle



- 1. KL 60
- 2. RO 10
- 3. Concrete anchor M 10
- 4-5. VM 10*20
- 6. WVPIP
- 7. VMK 6*10
- 8. LVBS 60
- 9. VM 6*10

DR 15*30

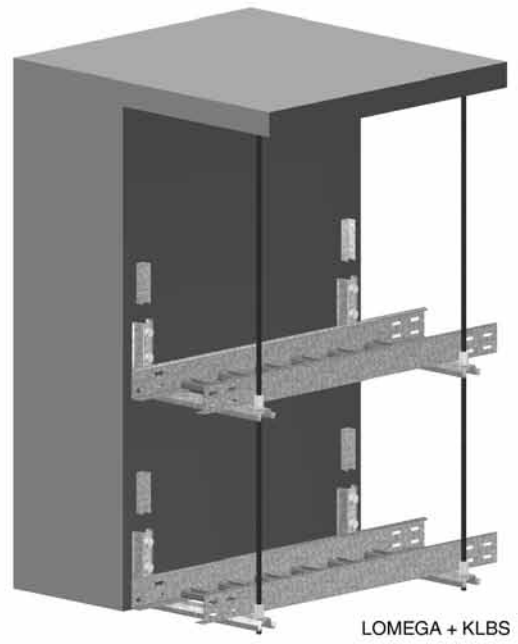
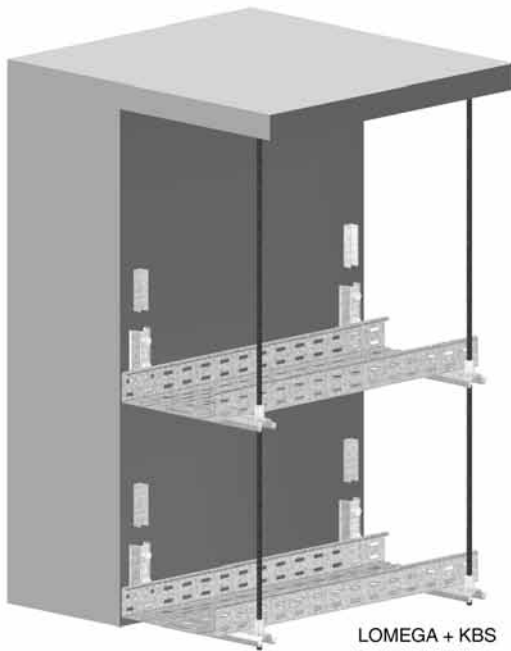
Mounting principle



- 1. DR 15*30
- 2. Cable clamp, type H
- 3. CRO 6
- 4. Concrete anchor M 6
- 5. Clamp support

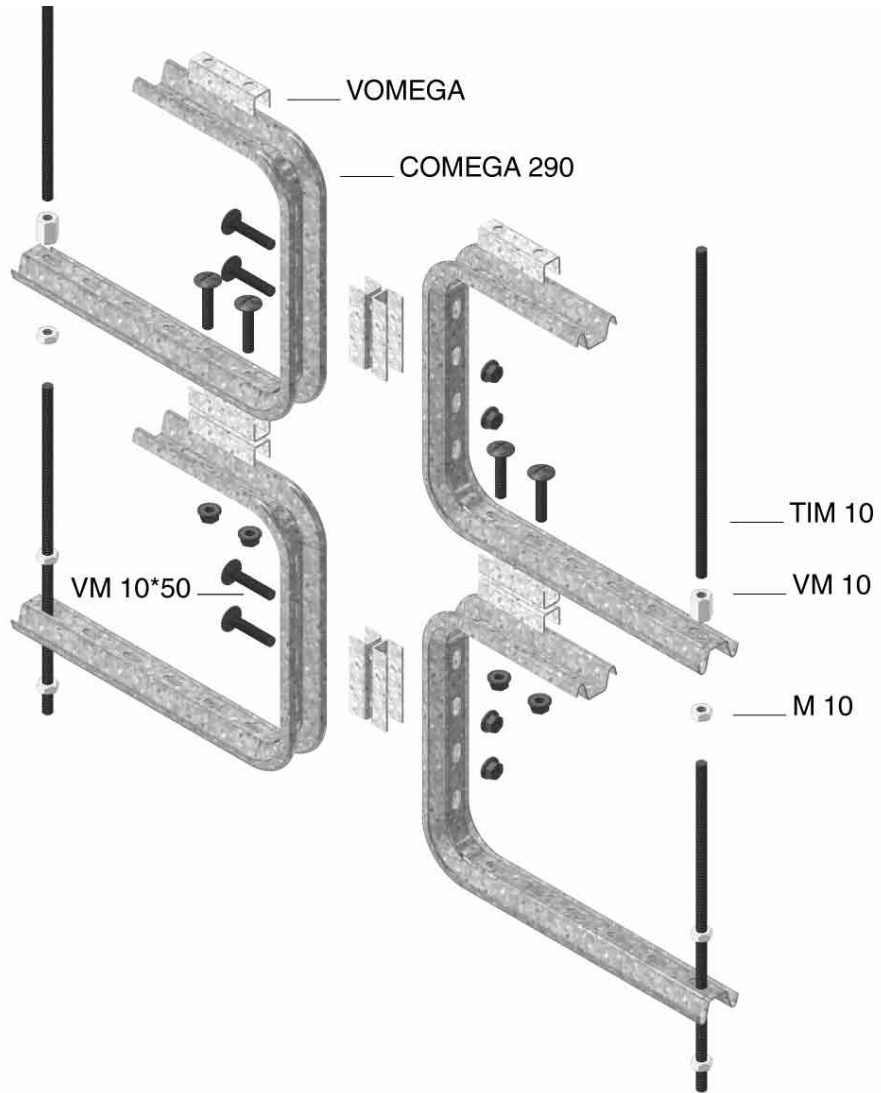
LOMEGA 150

Mounting principle



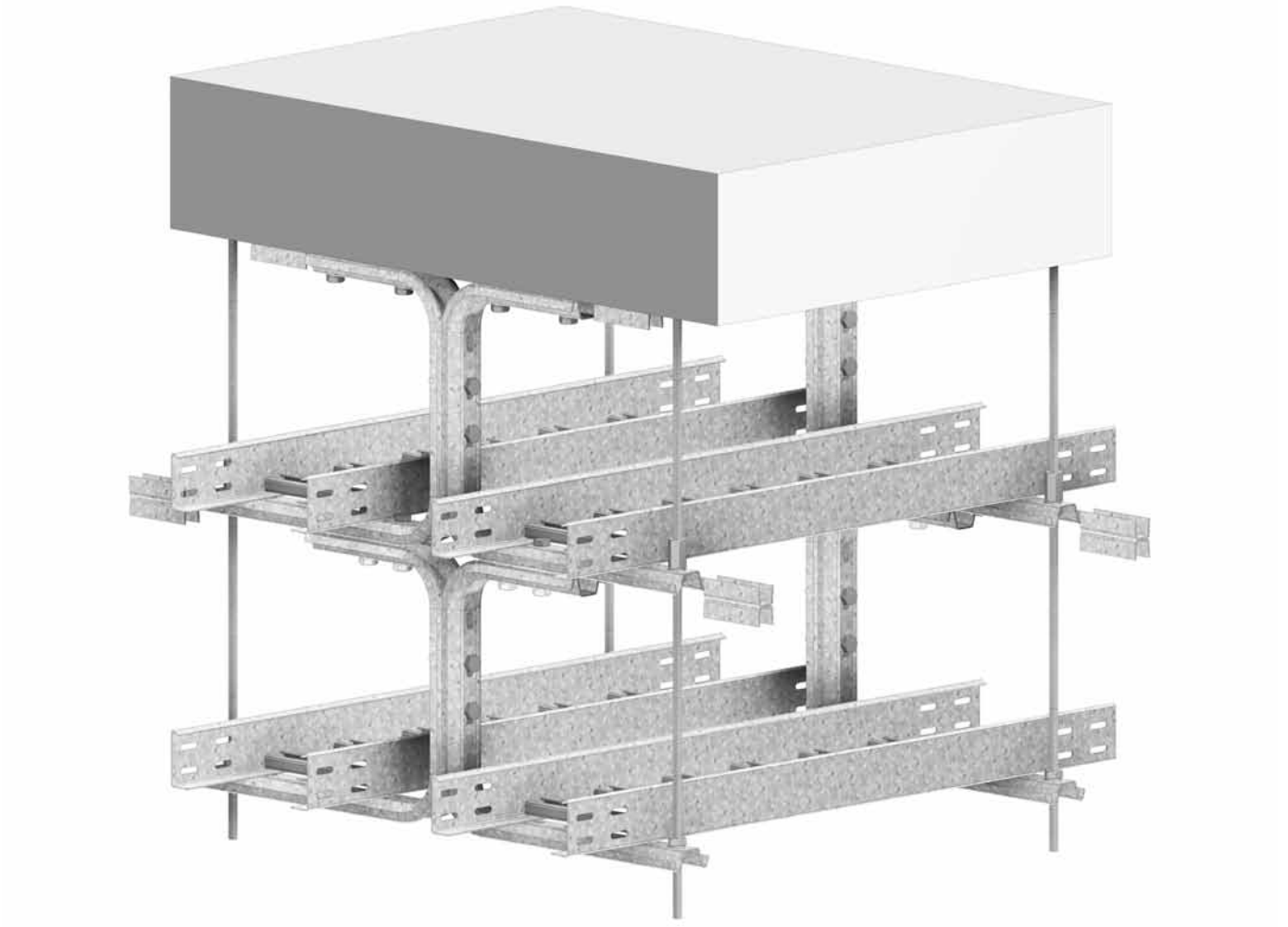
VOMEGA

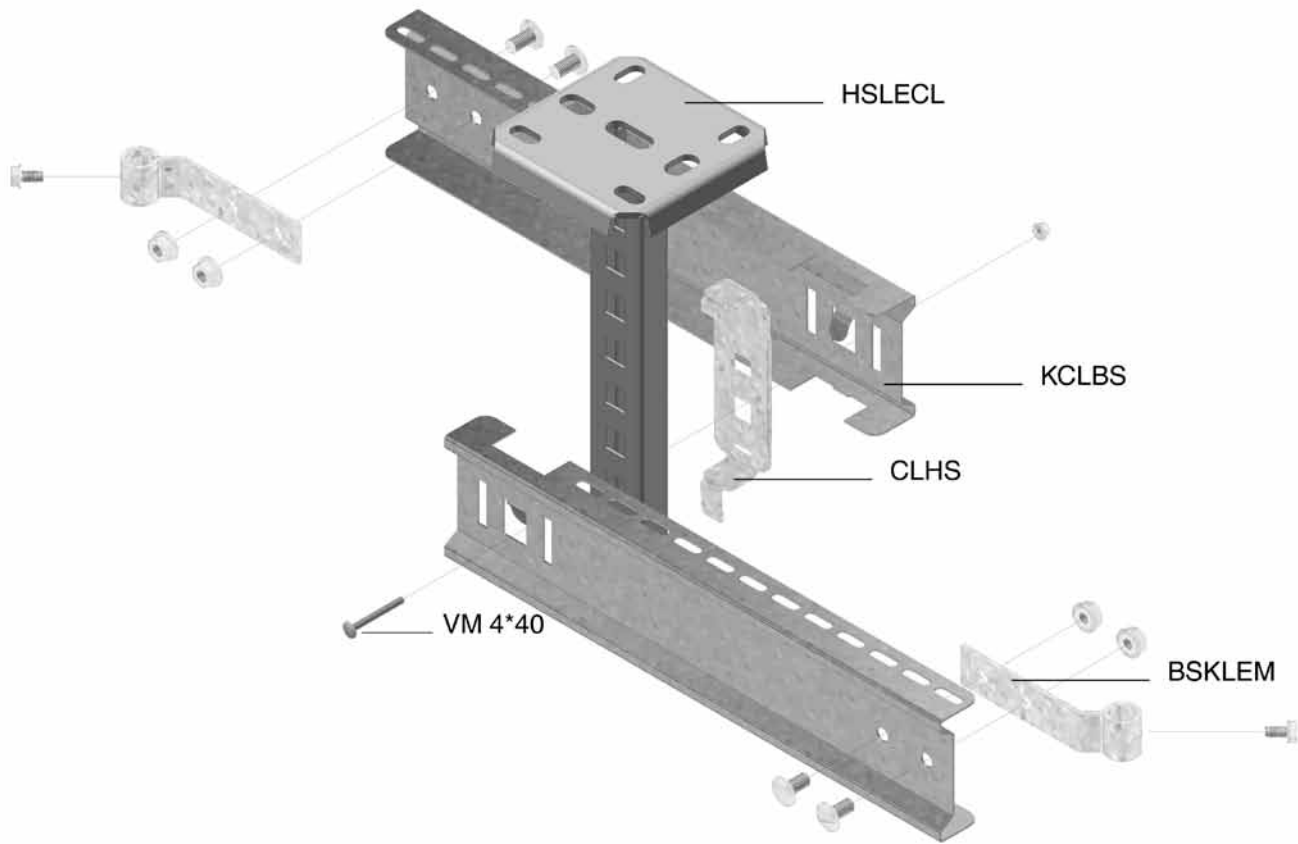
Mounting principle



COMEGA 290

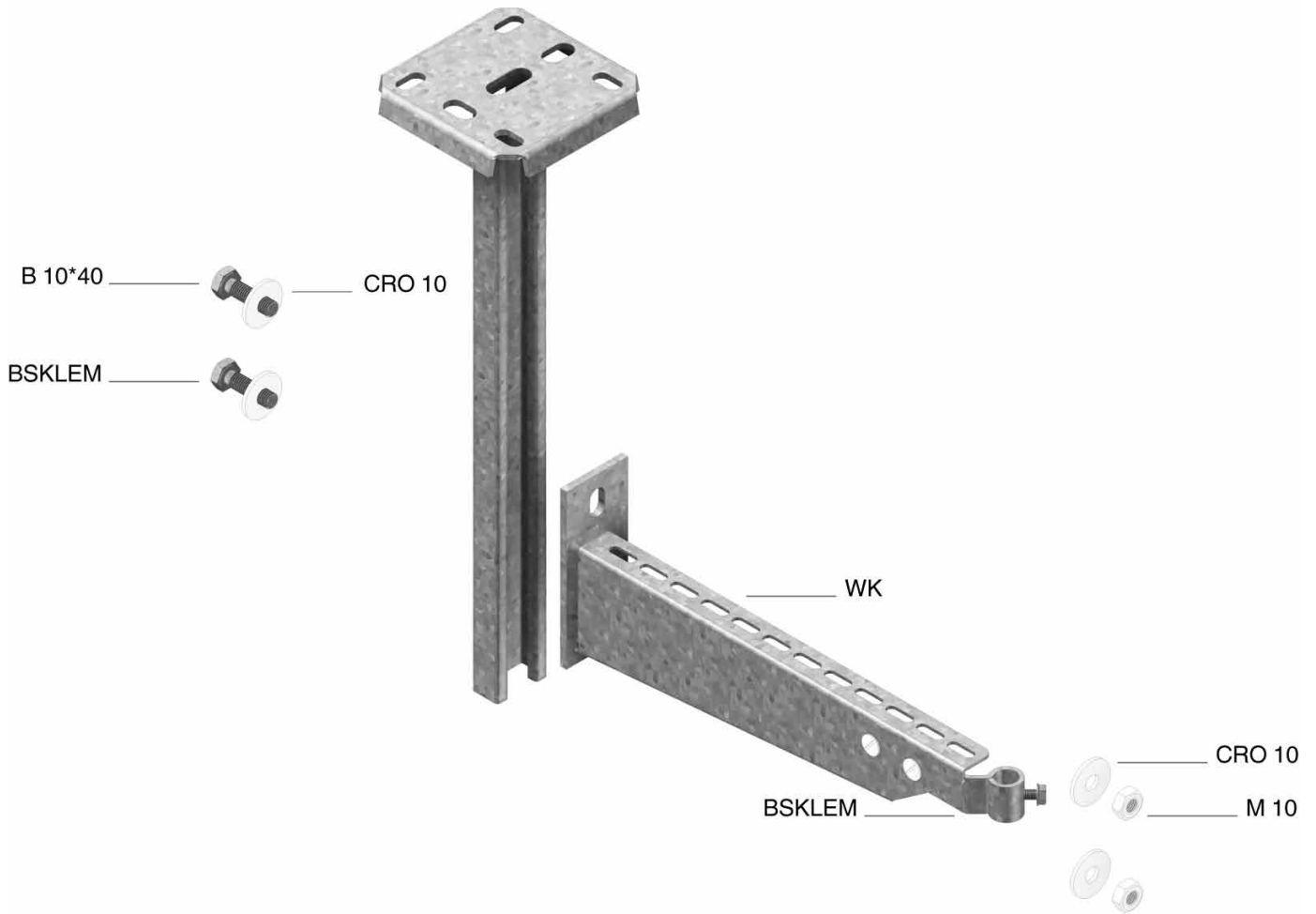
Mounting principle

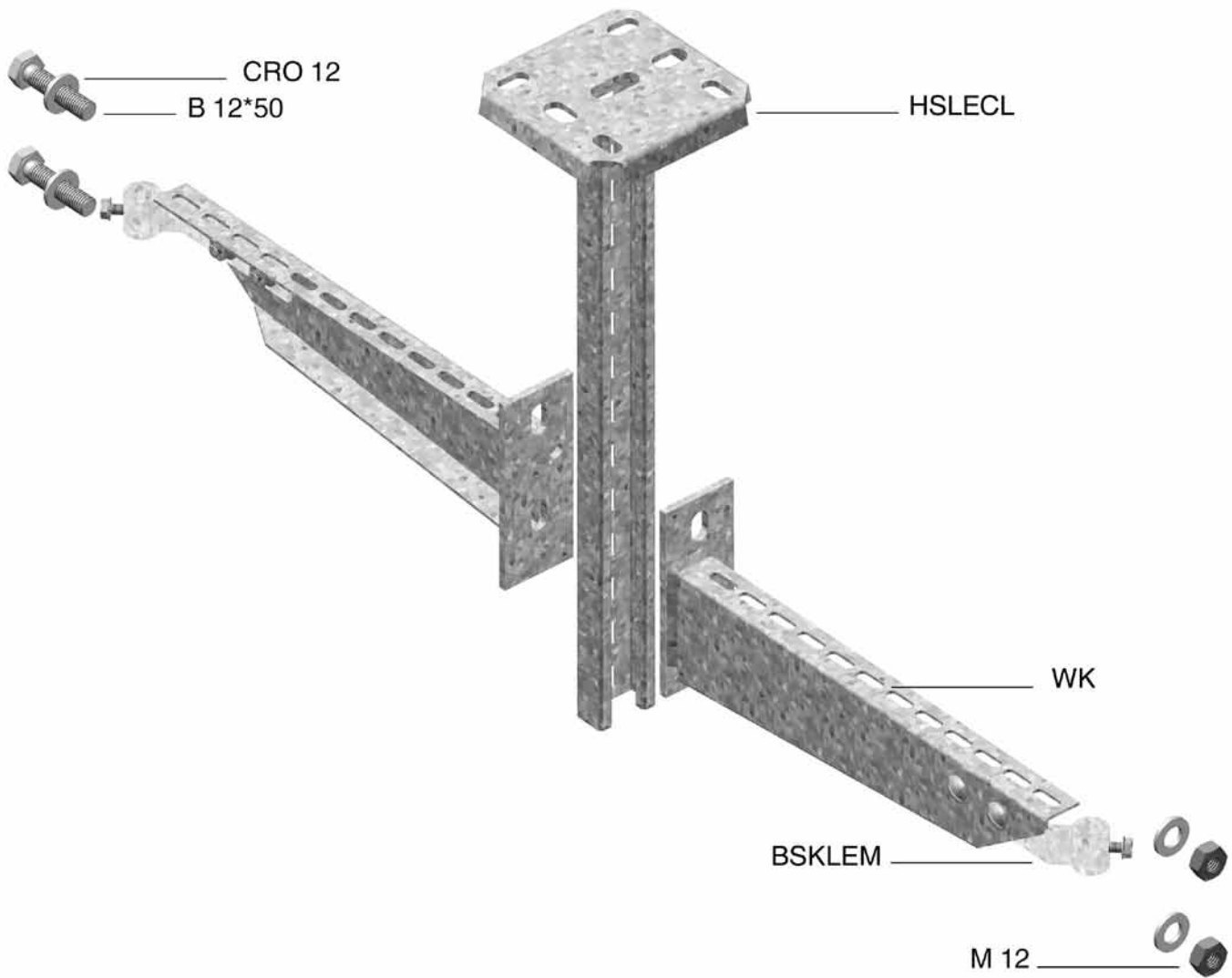


KCLBS**Mounting principle**

WK

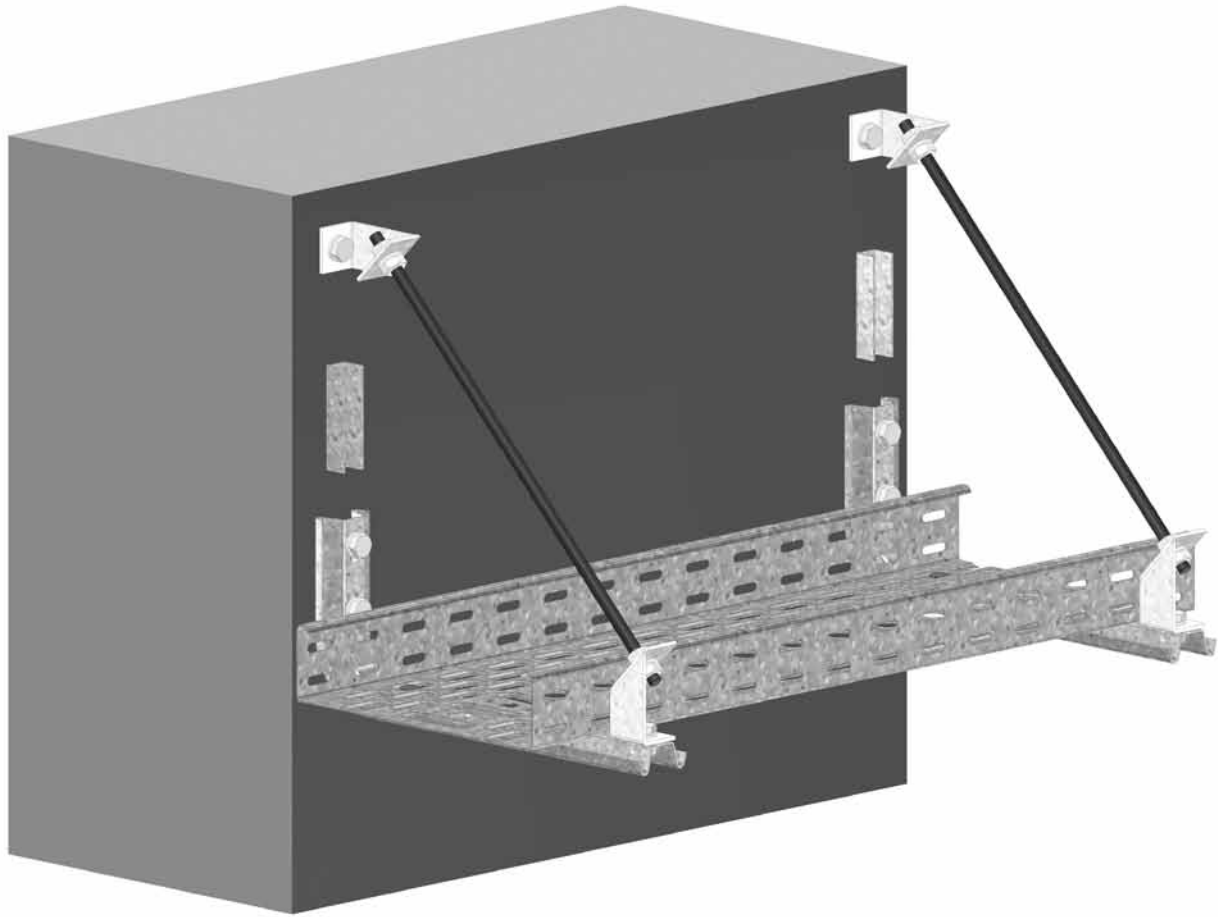
Mounting principle



HSLECL**Mounting principle**

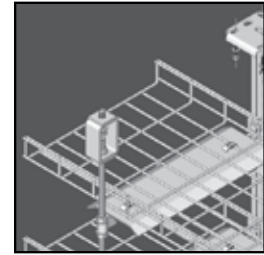
VS 41*45

Mounting principle



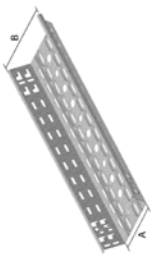
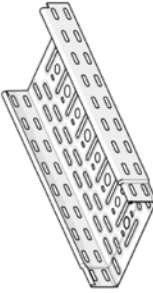

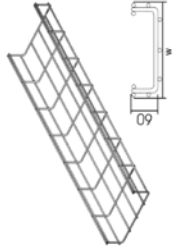
FIRE-RESISTANT SYSTEMS

Non-standard supporting constructions



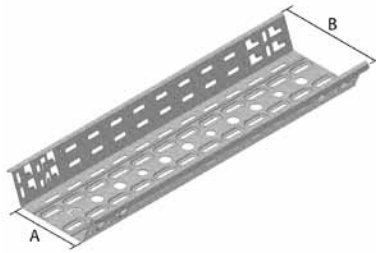
SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

2. Non-standard supporting constructions

		Conditions	Non-standard supporting constructions (a-d; nr 1 - nr 21)
<p>Constructions with cable tray</p> 	KBSTI 60	<ul style="list-style-type: none"> - Gauge = 0,75 mm - 1,00 mm - Max. width = 300 - 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels - Tested with Dätwyler, Prysmian and Prakab cables 	<p>NEW : 1. Mounting without threaded rod : - Mounting to the ceiling (a - b)</p>
<p>Constructions with cable tray</p> 	KBSI 60	<ul style="list-style-type: none"> - Gauge = 0,75 mm - 1,00 mm - Max. width = 300 - 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels - Tested with Dätwyler, Prysmian and Prakab cables 	<p>NEW : 1. Mounting without threaded rod : - Mounting to the ceiling (c - d)</p>
<p>Constructions with cable tray</p> 	KBS 60	<ul style="list-style-type: none"> - Gauge = 1 mm - 1,25 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels - Tested with Dätwyler cables 	<p>1. Mounting with threaded rod : - Mounting to the ceiling (nr 1 - nr 6) - Mounting to the wall (nr 7 - nr 12)</p> <p>2. Mounting with double threaded rod (nr 13)</p>
<p>Constructions with wire cable tray</p> 	VF 60	<ul style="list-style-type: none"> - Gauge = 1,50 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels - Tested with Dätwyler cables 	<p>1. Mounting without threaded rod : - Mounting to the wall (nr 14)</p> <p>2. Mounting with threaded rod : - Mounting to the ceiling (nr 15 - nr 16) - Mounting to the wall (nr 17 - nr 18)</p>
		<ul style="list-style-type: none"> - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels - Tested with Dätwyler cables 	<p>1. Mounting with threaded rod : - Mounting to the ceiling (nr 19) - Mounting to the wall (nr 20 - nr 21)</p>

KBSTI 60

Cable tray snap-in



Taper-shape
 Optimally stackable
 Snap-in
 Random overlap

Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

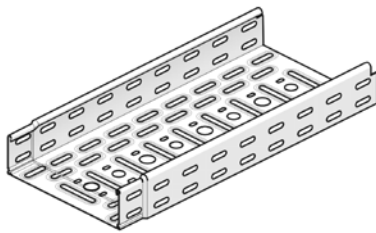
Width	150	200	250	300	400
A	85	135	185	235	335
B	151	201	251	301	401

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
HD	KBSTI 60*150*0.75	60	150	0.750	3000	1.540	30	✓	m
-	KBSTI 60*150*1.00	60	150	1.000	3000	1.960	30	✓	m
HD	KBSTI 60*200*0.75	60	200	0.750	3000	1.760	30	✓	m
-	KBSTI 60*200*1.00	60	200	1.000	3000	2.350	30	✓	m
HD	KBSTI 60*250*0.75	60	250	0.750	3000	2.070	30	✓	m
-	KBSTI 60*250*1.00	60	250	1.000	3000	2.760	30	✓	m
HD	KBSTI 60*300*0.75	60	300	0.750	3000	2.370	30	✓	m
-	KBSTI 60*300*1.00	60	300	1.000	3000	3.160	30	✓	m
-	KBSTI 60*400*1.00	60	400	1.000	3000	3.970	30	✓	m

More technical specifications for this product can be found at the end of this chapter.

KBSI 60

Cable tray with interlocking ends



Bracket distance	1500 mm
Standard finish	Pre-galvanised

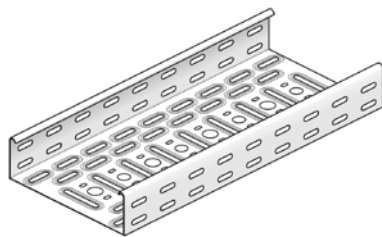
HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
-	KBSI 60*075*1.00	60	75	1.000	3000	1.400	60	✓	m
-	KBSI 60*075*1.25	60	75	1.250	3000	1.750	60	✓	m
HD	KBSI 60*100*0.75	60	100	0.750	3000	1.170	60	✓	m
HD	KBSI 60*100*1.00	60	100	1.000	3000	1.560	60	✓	m
-	KBSI 60*100*1.25	60	100	1.250	3000	1.950	60	✓	m
HD	KBSI 60*150*0.75	60	150	0.750	3000	1.420	30	✓	m
HD	KBSI 60*150*1.00	60	150	1.000	3000	1.890	30	✓	m
-	KBSI 60*150*1.25	60	150	1.250	3000	2.360	30	✓	m
HD	KBSI 60*200*0.75	60	200	0.750	3000	1.660	30	✓	m
HD	KBSI 60*200*1.00	60	200	1.000	3000	2.220	30	✓	m
-	KBSI 60*200*1.25	60	200	1.250	3000	2.770	30	✓	m
HD	KBSI 60*250*0.75	60	250	0.750	3000	1.910	30	✓	m
-	KBSI 60*250*1.00	60	250	1.000	3000	2.540	30	✓	m
HD	KBSI 60*300*0.75	60	300	0.750	3000	2.150	30	✓	m
HD	KBSI 60*300*1.00	60	300	1.000	3000	2.870	30	✓	m
-	KBSI 60*300*1.25	60	300	1.250	3000	3.580	30	✓	m
HD	KBSI 60*400*1.00	60	400	1.000	3000	3.520	30	✓	m

To fix with:									
HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

KBS 60

Perforated cable tray

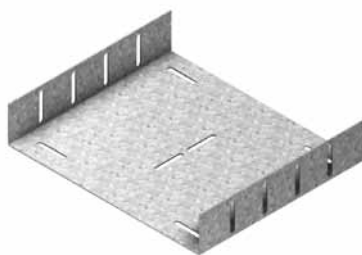


Max. load	10 daN
Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
HD	KBS 60*100*1.50	60	100	1.500	3000	2.350	60	✓	m
HD	KBS 60*150*1.50	60	150	1.500	3000	2.830	30	✓	m
HD	KBS 60*200*1.50	60	200	1.500	3000	3.320	30	✓	m
HD	KBS 60*300*1.50	60	300	1.500	3000	4.300	30	✓	m
HD	KBS 60*400*1.50	60	400	1.500	3000	5.280	30	✓	m

KPBS

Coupling for Cable tray (BS)



For jointing of KBS.

Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	KPBS 100	55	96	-	-	0.550	1	✓	piece
HD	KPBS 150	55	146	-	-	0.670	1	✓	piece
HD	KPBS 200	55	196	-	-	0.850	1	✓	piece
HD	KPBS 300	55	296	-	-	1.100	1	✓	piece
HD	KPBS 400	55	396	-	-	1.400	1	✓	piece

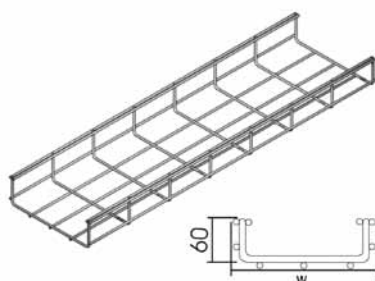
To fix with:

HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece
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Use all perforations.

VF 60

Wire cable tray heavy duty



Screen : 50 x 100 mm
Thread : Ø 5 mm

Standard finish	Electro zinc-plated
Optional finish 1	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
HD	VF 60*150	60	147	-	3000	1.340	20	✓	m
HD	VF 60*200	60	197	-	3000	1.530	30	✓	m
HD	VF 60*300	60	297	-	3000	1.920	30	✓	m
HD	VF 60*400	60	397	-	3000	2.300	30	✓	m

To fix with:

HD	VFK	-	-	-	-	0.020	100	✓	piece
----	------------	---	---	---	---	-------	-----	---	-------

More technical specifications for this product can be found at the end of this chapter.

VFKS

Support joint for VF/VFL



Standard finish Pre-galvanised
Optional finish 1 Hot-dip galvanised

HD	Reference	mm	mm	mm	mm	kg/piece		Stock	Unit
HD	VFKS	55	250	-	-	0.270	10	✓	piece

For maximum stability and safety. Can only be used with 'VF 60'.
Toothed round head RBK 6*20 and nut RM 8 inclusive.

SPBS

Support plate for wire cable tray (BS)



For maximum stability and safety.

Standard finish Pre-galvanised
Optional finish 1 Hot-dip galvanised

HD	Reference	mm	mm	mm	mm	kg/piece		Stock	Unit
HD	SPBS 150	-	150	-	-	0.450	3	✓	piece
HD	SPBS 200	-	200	-	-	0.610	3	✓	piece
HD	SPBS 300	-	300	-	-	0.910	3	✓	piece
HD	SPBS 400	-	400	-	-	1.220	3	✓	piece

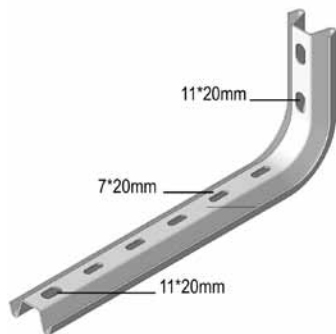
To fix with:

HD	VFK	-	-	-	-	0.020	100	✓	piece
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SPBS and the wire cable tray are fixed onto the bracket through the VFK.

LOMEGA 150

Bracket/ceiling profile



Standard finish Pre-galvanised

HD	Reference	mm	mm	mm	mm	kg/piece		Stock	Unit
-	LOMEGA 150*100	145	145	-	-	0.300	12	✓	piece
-	LOMEGA 150*150	145	195	-	-	0.320	12	✓	piece
-	LOMEGA 150*200	145	245	-	-	0.340	12	✓	piece
-	LOMEGA 150*250	145	295	-	-	0.450	12	✓	piece
-	LOMEGA 150*300	145	345	-	-	0.490	12	✓	piece
-	LOMEGA 150*400	145	445	-	-	0.540	6	✓	piece
-	LOMEGA 150*500	145	545	-	-	0.710	6	✓	piece
-	LOMEGA 150*600	145	645	-	-	0.770	6	✓	piece

To fix with:

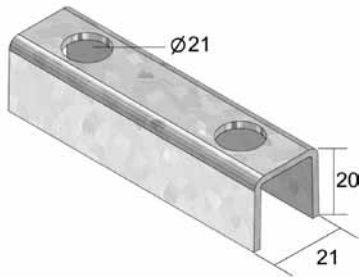
HD	B 10*30	-	-	M10	30	0.030	250	✓	piece
HD	CRO 10	-	-	M10	-	0.020	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

Can also be used as ceiling profile.
 Ends held up through a threaded rod TIM.
 Use the VOMEGA to avoid compression of the profile.
 When ordering, add 100 mm to the width. E.g. KBSI 300: use LOMEGA 150*400.

VOMEGA

Joining piece



Standard finish

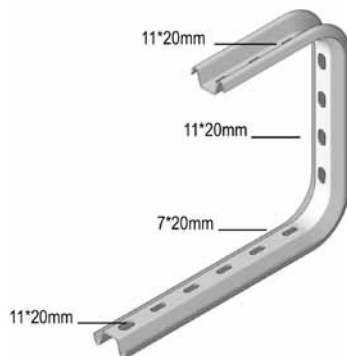
Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	VOMEGA	-	-	-	-	0.060	48	✓	piece

For wall mounting 1 piece, for double mounting 2 pieces, back to back.

COMEGA 290

Open suspension bracket



Standard finish

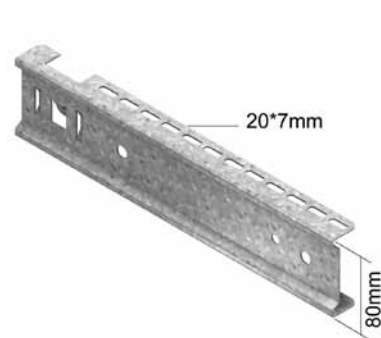
Pre-galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	COMEGA 290*100	290	145	-	-	0.520	12	✓	piece
-	COMEGA 290*150	290	195	-	-	0.560	12	✓	piece
-	COMEGA 290*200	290	245	-	-	0.620	12	✓	piece
-	COMEGA 290*250	290	295	-	-	0.760	6	✓	piece
-	COMEGA 290*300	290	345	-	-	0.820	6	✓	piece
-	COMEGA 290*400	290	445	-	-	0.930	6	✓	piece

Ends held up by threaded rod TIM 10.
 Use the VOMEGA to avoid compression of the profile.
 When ordering, add 100 mm to the width. E.g. KBSI 300: use COMEGA 290*400.

KCLBS

Click-on bracket (BS)



Standard finish

Pre-galvanised

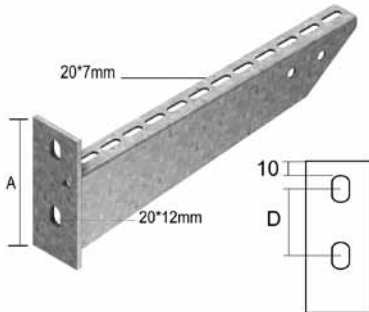
HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	KCLBS 100	80	180	-	-	0.220	48		piece
-	KCLBS 200	80	280	-	-	0.350	48		piece
-	KCLBS 300	80	380	-	-	0.470	24		piece
-	KCLBS 400	80	480	-	-	0.750	24		piece
To fix with:									
-	VM 4*40	-	-	M4	40	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

- Completely clipsable, secured with VM 4*40.
- Use CLHS for symmetrical mounting.
- Clamp for fixation of threaded rod (BSKLEM) to order separately.

WK

Joined bracket



Specially intended for wall and tunnel applications

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	WK 100	106,5	117	-	-	0.300	24	✓	piece
-	WK 150	112	167	-	-	0.360	24	✓	piece
-	WK 200	116	217	-	-	0.430	24	✓	piece
-	WK 250	120,5	267	-	-	0.530	12	✓	piece
-	WK 300	125	317	-	-	0.730	12	✓	piece
-	WK 400	134	417	-	-	0.880	12	✓	piece

- Clamp for fixation of threaded rod (BSKLEM) to order separately.
- For symmetrical mounting, use B 12*50 + CRO 12 + M 12.

BSKLEM

Clamp for fixation of threaded rod



Userfriendly. Up to 25% time-saving. Very fast securing of the threaded rod TIM, using a clamping bold. Applicable on WK and KCLBS.

Standard finish

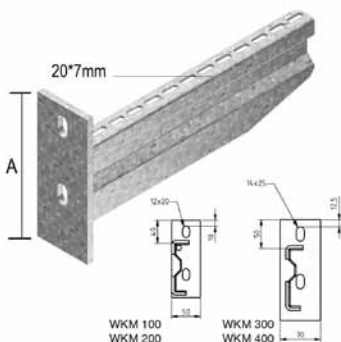
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	BSKLEM	25	125	-	-	0.120	2	✓	piece

Ends held up through threaded rod TIM.
No additional bolts and nuts needed.
Threaded rod can be mounted in 1 continuous length.
Diameter of the threaded rod TIM not of influence.
Clamping bolt to be tightened with angular momentum of 10 Nm.

WKM

Heavy joined bracket



For direct fixation on the wall and also for fixation on the ceiling profile

On Demand

Powder coating / Duplex System

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	WKM 100	125	125	-	-	0.450	24	✓	piece
-	WKM 200	134	225	-	-	0.650	24	✓	piece
-	WKM 300	175	325	-	-	1.530	12	✓	piece
-	WKM 400	175	425	-	-	1.830	12	✓	piece

Max. load (in daN): Uniformly distributed load (UDL) over complete width of cantilever brackets.

HSMU

Ceiling profile medium heavy



Max. load	1000 daN
Standard finish	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	HSMU 50*200	-	-	-	200	0.940	1	✓	piece
-	HSMU 50*300	-	-	-	300	1.160	1	✓	piece
-	HSMU 50*400	-	-	-	400	1.380	1	✓	piece
-	HSMU 50*500	-	-	-	500	1.610	1	✓	piece
-	HSMU 50*600	-	-	-	600	1.830	1	✓	piece
-	HSMU 50*800	-	-	-	800	2.270	1	✓	piece
-	HSMU 50*1000	-	-	-	1000	2.710	1	✓	piece
-	HSMU 50*1200	-	-	-	1200	3.150	1	✓	piece
-	HSMU 50*1500	-	-	-	1500	3.820	1	✓	piece

More technical specifications for this product can be found at the end of this chapter.

TSU 50

Spacer HSMU 50



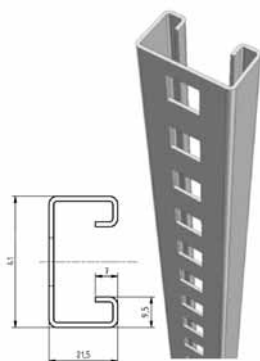
Standard finish	Hot-dip galvanised
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HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	TSU 50	-	-	-	-	0.140	6	✓	piece

Bolt B 10*80, CRO 10 and nuts M 10 inclusive.

MPCL

Assembly profile clips



Standard finish	Pre-galvanised
-----------------	----------------

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	MPCL 41*21*1.50*200	41	21	1.500	210	0.240	10	✓	piece
-	MPCL 41*21*1.50*300	41	21	1.500	300	0.340	10	✓	piece
-	MPCL 41*21*1.50*400	41	21	1.500	420	0.480	10	✓	piece
-	MPCL 41*21*1.50*500	41	21	1.500	510	0.580	10	✓	piece
-	MPCL 41*21*1.50*600	41	21	1.500	600	0.680	10	✓	piece
-	MPCL 41*21*1.50*800	41	21	1.500	810	0.920	10	✓	piece
-	MPCL 41*21*1.50*3000	41	21	1.500	3000	1.150	3	✓	m

To fix with:

HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece

HSLECL

QUICK & CLICK

Single Ceiling profile clips



Ceiling profile : MP 41*21
Welded headplate of 120 x 120 mm

Max. load	300 daN
Standard finish	Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	HSLECL 300	-	-	-	300	0.850	1	✓	piece
-	HSLECL 400	-	-	-	420	1.010	1	✓	piece
-	HSLECL 500	-	-	-	510	1.130	1	✓	piece
-	HSLECL 600	-	-	-	600	1.230	1	✓	piece
-	HSLECL 800	-	-	-	810	1.450	1	✓	piece
-	HSLECL 1000	-	-	-	1020	1.750	1	✓	piece
-	HSLECL 1200	-	-	-	1200	1.950	1	✓	piece

Also applicable for double mounting.
Fixed with 2 anchoring bolts.
For symmetrical mounting, to fix with 2 anchoring bolts M 12.

CLHS

Adapter clips for HSLECL



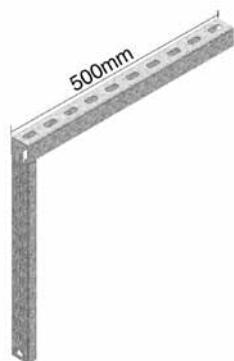
For symmetrical mounting of KCLBS

Standard finish	Pre-galvanised
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HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	CLHS	-	-	-	-	0.120	24	✓	piece

HSLEBS

Single ceiling profile (BS)



Only 2 fixing points needed

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	HSLEBS 400	-	-	-	400	1.860	1	✓	piece
-	HSLEBS 600	-	-	-	600	2.100	1	✓	piece
-	HSLEBS 800	-	-	-	800	2.200	1	✓	piece
-	HSLEBS 1200	-	-	-	1200	2.800	1	✓	piece

To fix with:

-	VS 41*44	-	40	5.000	-	0.110	12	✓	piece
HD	GM 41 M 8	-	-	M8	-	0.030	48	✓	piece
HD	GM 41 M 10	-	-	M10	-	0.040	48	✓	piece
HD	GM 41 M 12	-	-	M12	-	0.040	48	✓	piece
HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	M 12	-	-	M12	-	0.020	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 12	-	-	M12	-	0.010	250	✓	piece

More technical specifications for this product can be found at the end of this chapter.

VS 41*44

Assembly accessorie



Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	VS 41*44	-	40	5.000	-	0.110	12	✓	piece

VS 41*45

Assembly accessorie



To be used when mounting the threaded rod to the wall.

Standard finish

Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	📦	Stock	Unit
-	VS 41*45	-	40	3.000	-	0.100	12	✓	piece

TIM

Threaded rod (DIN 975)



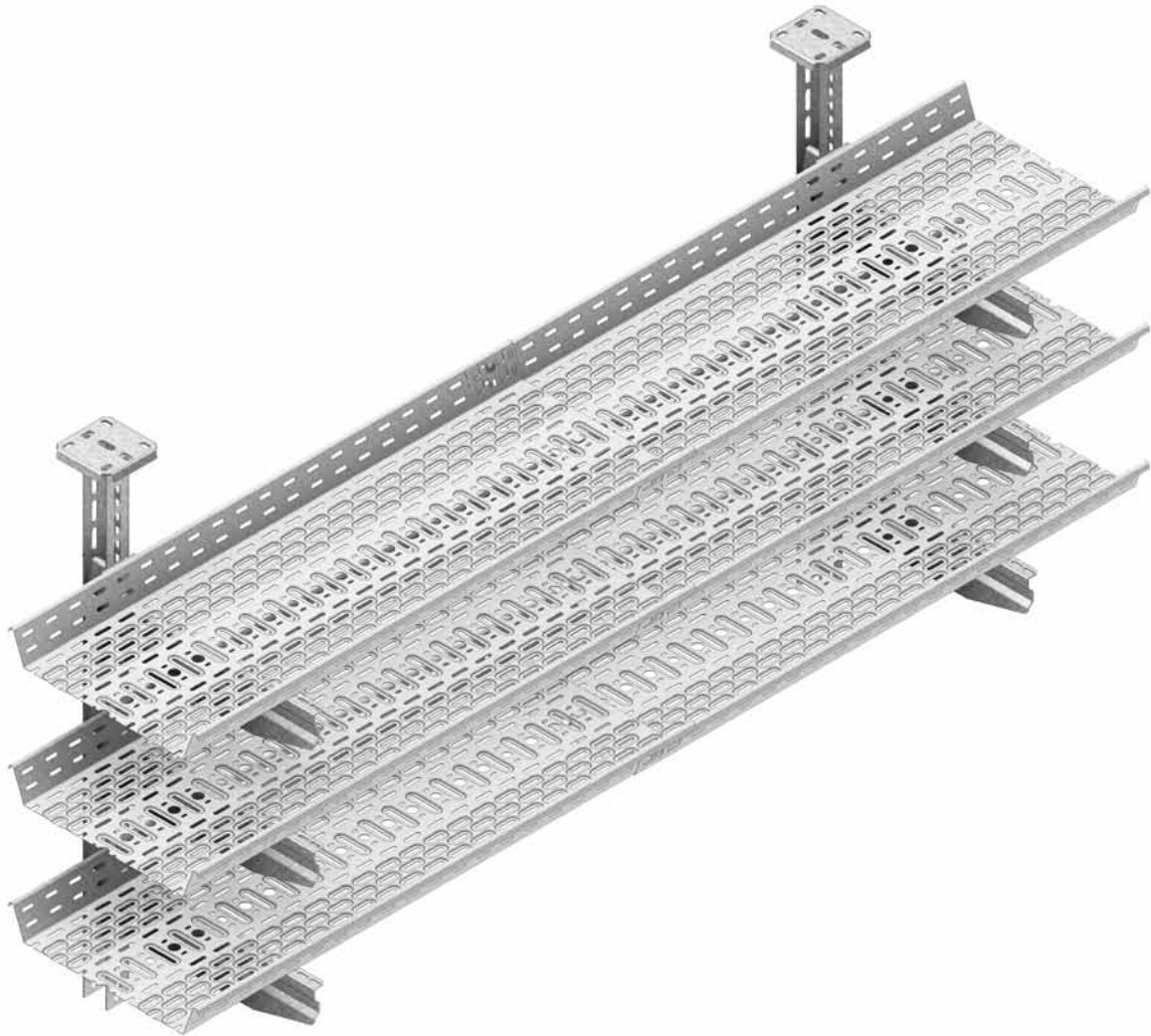
Standard finish

Electro zinc-plated

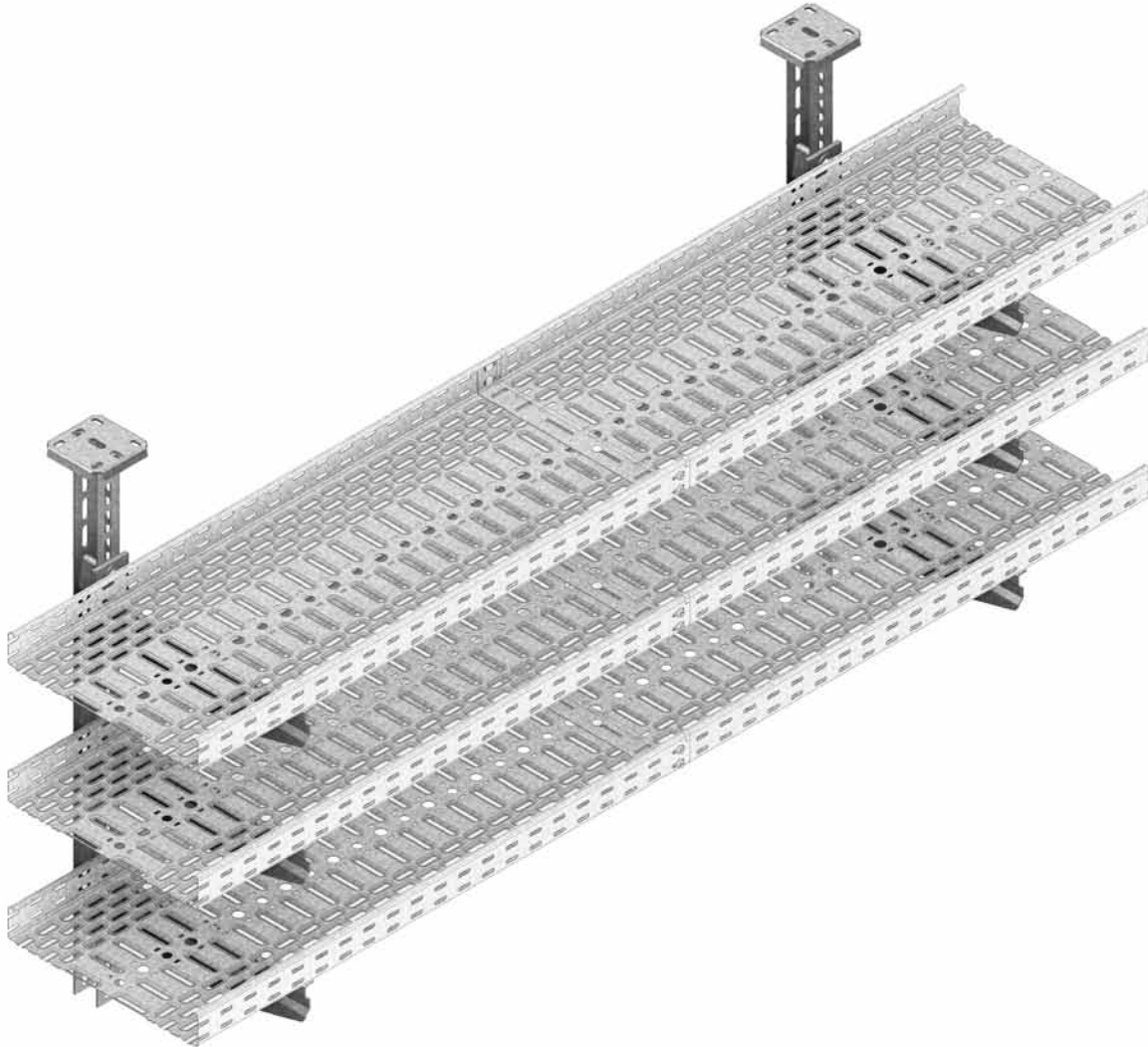
HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/m	⊞	Stock	Unit
-	TIM 8	-	-	M8	2000	0.310	20	✓	m
-	TIM 10	-	-	M10	2000	0.460	20	✓	m
-	TIM 12	-	-	M12	2000	0.700	10	✓	m

To fix with:

HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	M 12	-	-	M12	-	0.020	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 12	-	-	M12	-	0.010	250	✓	piece

KBSTI 60**Mounting principle**

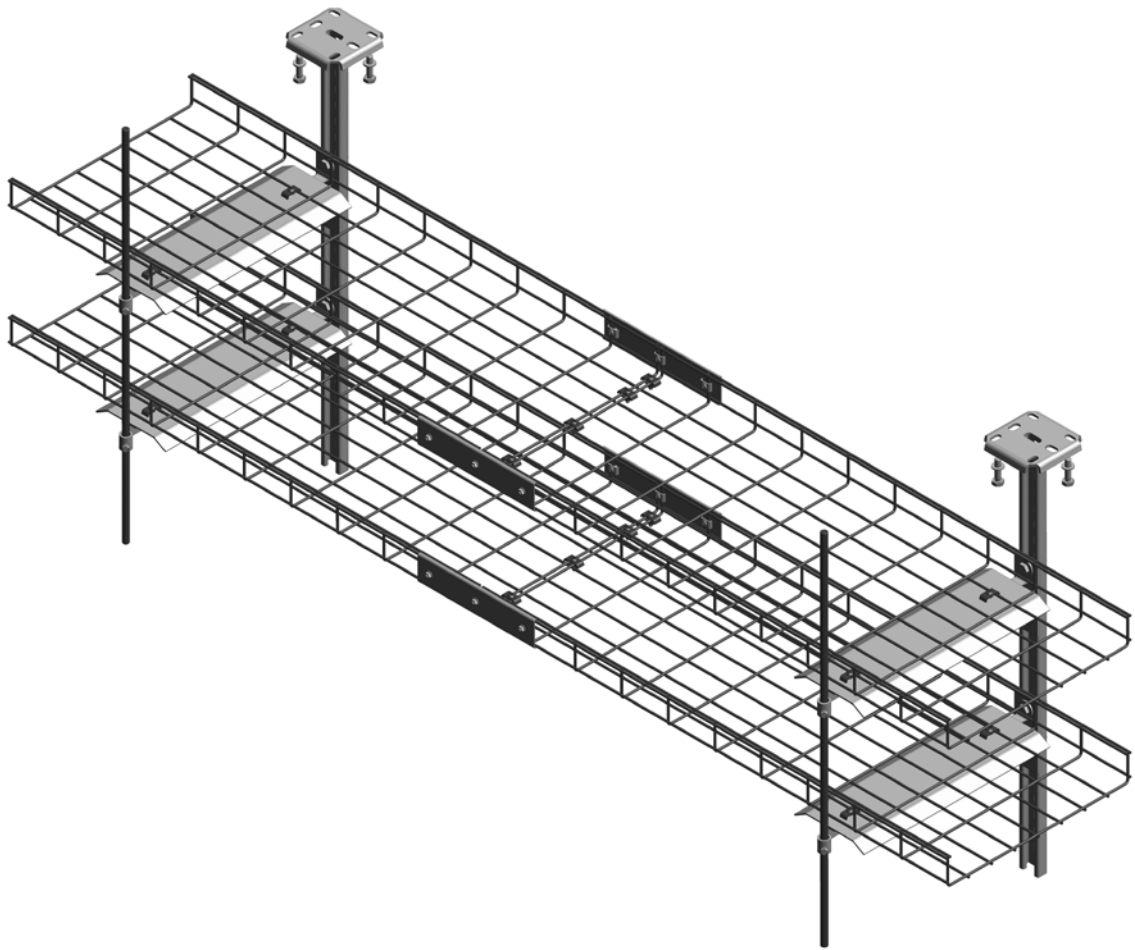
KBSTI 60 + HSMU + TSU 50 + WKM : these constructions are tested with Dätwyler, Prysmian and Prakab cables.

KBSI 60**Mounting principle**

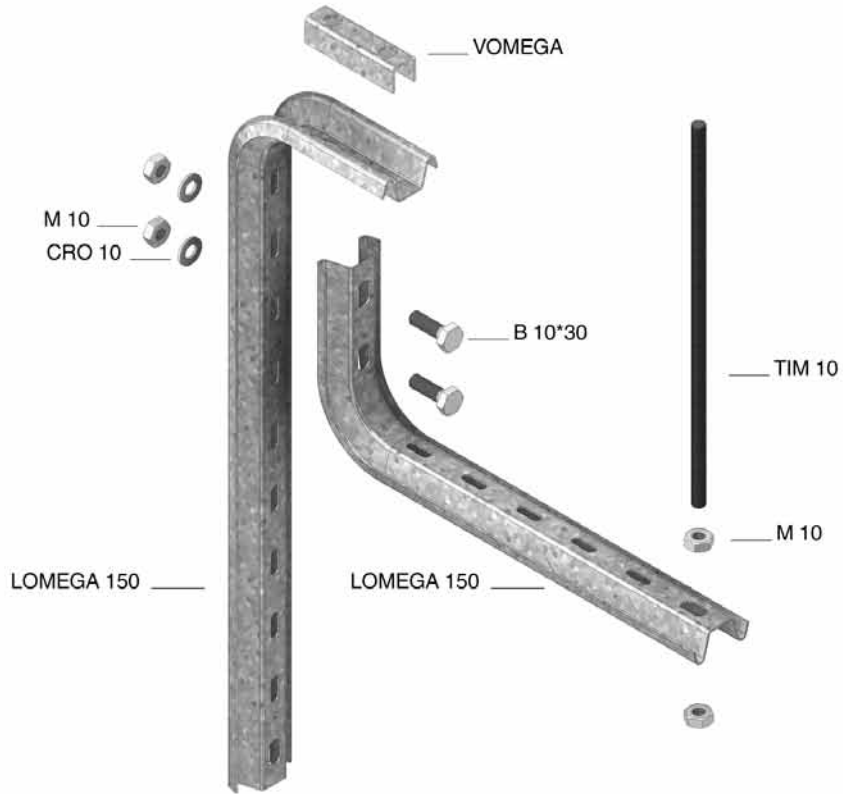
KBSI 60 + HSMU + TSU 50 + WKM : these constructions are tested with Dätwyler, Prysmian and Prakab cables.

VF 60

Mounting principle

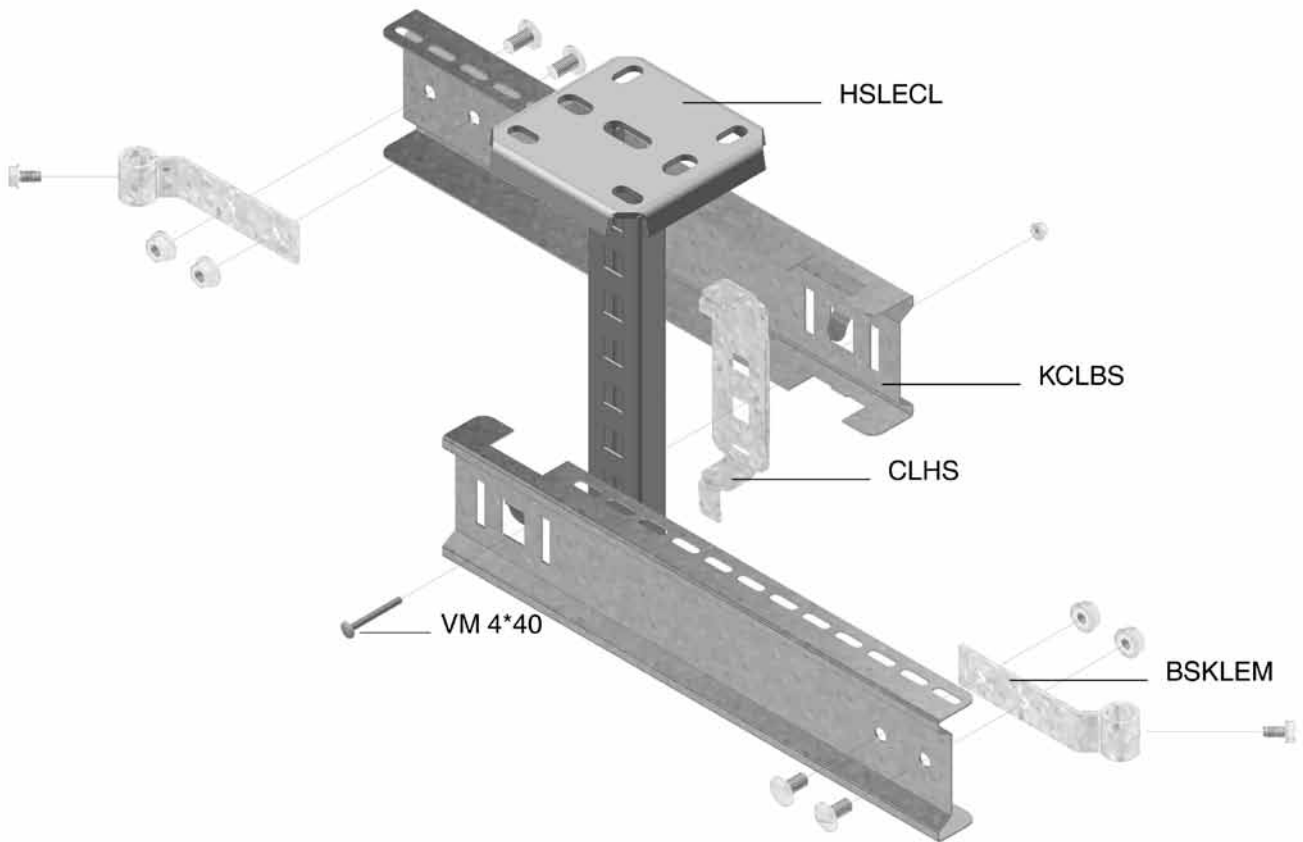


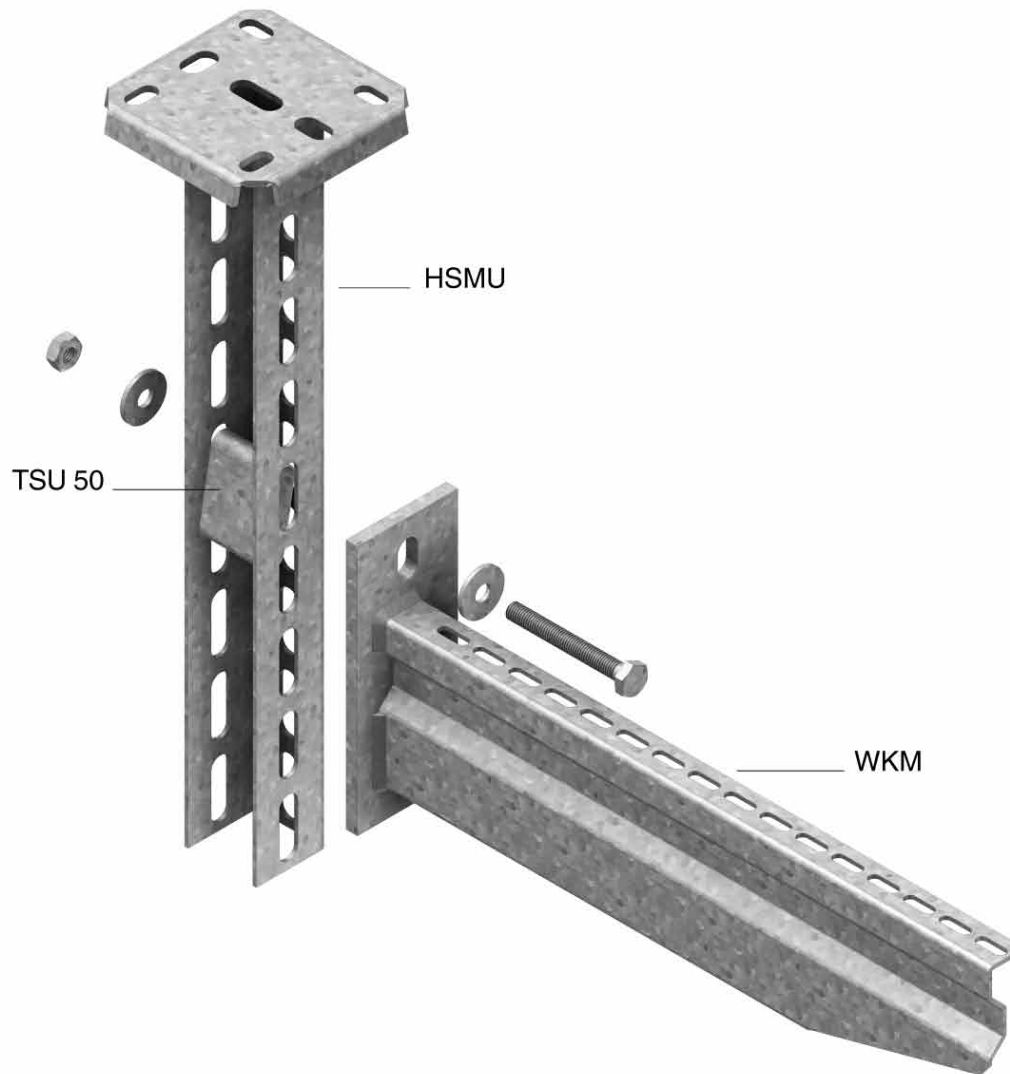
LOMEGA 150
Mounting principle



KCLBS

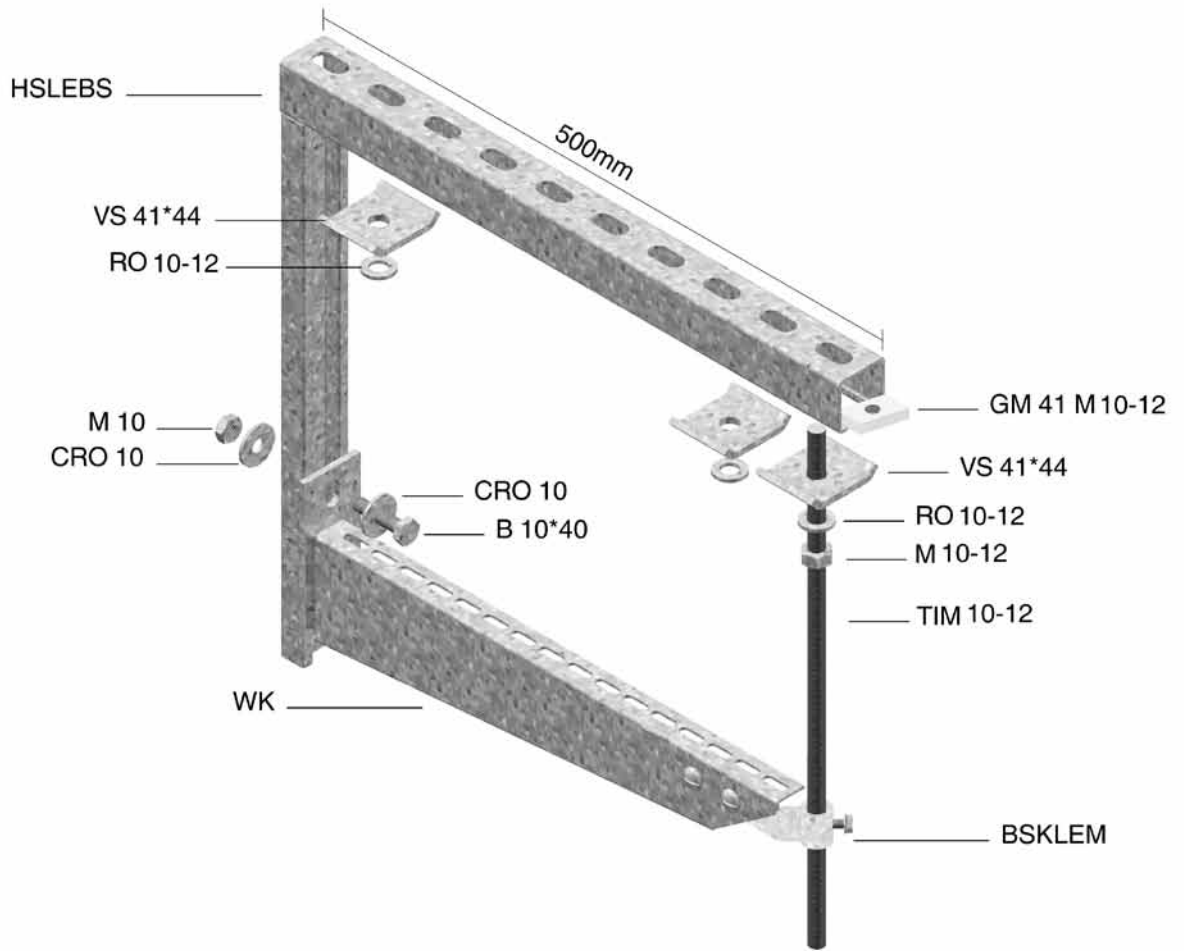
Mounting principle



HSMU**Mounting principle**

HSLEBS

Mounting principle



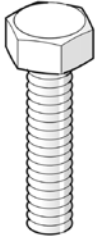
FIRE-RESISTANT SYSTEMS

Accessories



B

Bolt (DIN 933)



Standard finish

Electro zinc-plated

Optional finish 1

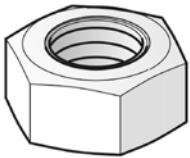
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	⊘ mm	↔ mm	kg/piece	⊠	Stock	Unit
HD	B 10*20	-	-	M10	20	0.030	250	✓	piece
HD	B 10*30	-	-	M10	30	0.030	250	✓	piece
HD	B 10*40	-	-	M10	40	0.030	250	✓	piece
HD	B 12*50	-	-	M12	50	0.060	250	✓	piece

To order per 250 pieces.

M

Nut (DIN 934)



Standard finish

Electro zinc-plated

Optional finish 1

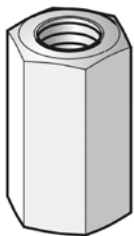
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	⊘ mm	↔ mm	kg/piece	⊠	Stock	Unit
HD	M 8	-	-	M8	-	0.010	250	✓	piece
HD	M 10	-	-	M10	-	0.010	250	✓	piece
HD	M 12	-	-	M12	-	0.020	250	✓	piece

To order per 250 pieces.

VM 6334

Coupling nut (DIN 6334)



Standard finish

Electro zinc-plated

HD	Reference	↑ mm	↔ mm	⊘ mm	↔ mm	kg/piece	⊠	Stock	Unit
-	VM 8	24	-	M8	-	0.020	48	✓	piece
-	VM 10	30	-	M10	-	0.040	48	✓	piece
-	VM 12	36	-	M12	-	0.060	48	✓	piece

VM

Nut and Bolt



Standard finish

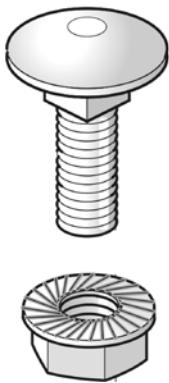
Electro zinc-plated

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
-	VM 4*40	-	-	M4	40	0.010	250	✓	piece
HD	VM 6*10	-	-	M6	10	0.010	250	✓	piece
-	VM 10*50	-	-	M10	50	0.050	250	✓	piece

To order per 250 pieces.

VMK

Toothed round head bolt/nut



Standard finish

Electro zinc-plated

Optional finish 1

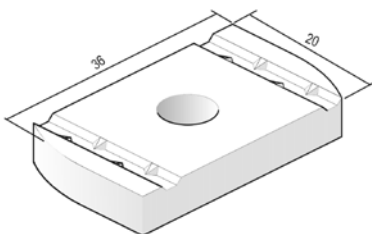
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	VMK 6*10	-	-	M6	-	0.010	250	✓	piece

To order per 250 pieces.

GM 41

Sliding nut for supporting profile



For stepless fixation of the brackets on the ceiling profiles.

Standard finish

Electro zinc-plated

Optional finish 1

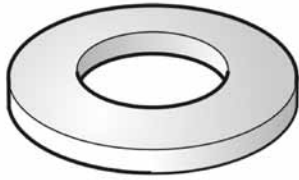
Hot-dip galvanised

HD	Reference	↑ mm	↔ mm	↔ mm	↔ mm	kg/piece	⊞	Stock	Unit
HD	GM 41 M 8	-	-	M8	-	0.030	48	✓	piece
HD	GM 41 M 10	-	-	M10	-	0.040	48	✓	piece
HD	GM 41 M 12	-	-	M12	-	0.040	48	✓	piece

Used with the profiles MP 41*21 and MP 41*41.

RO

Giant washer (DIN 125-1 A)



Standard finish

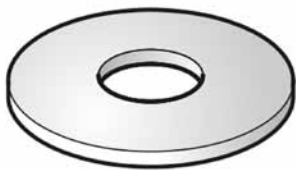
Electro zinc-plated

HD	Reference	↑ mm	↔ mm	⊘ mm	↔ mm	kg/piece	📦	Stock	Unit
-	RO 6	-	-	M6	-	0.010	250	✓	piece
HD	RO 8	-	-	M8	-	0.010	250	✓	piece
HD	RO 10	-	-	M10	-	0.010	250	✓	piece
HD	RO 12	-	-	M12	-	0.010	250	✓	piece

To order per 250 pieces.

CRO

Flat giant washer (DIN 9021)



Standard finish

Electro zinc-plated

HD	Reference	↑ mm	↔ mm	⊘ mm	↔ mm	kg/piece	📦	Stock	Unit
-	CRO 6	-	-	M6	-	0.010	250	✓	piece
HD	CRO 8	-	-	M8	-	0.010	250	✓	piece
HD	CRO 10	-	-	M10	-	0.020	250	✓	piece
HD	CRO 12	-	-	M12	-	0.030	250	✓	piece

To order per 250 pieces.