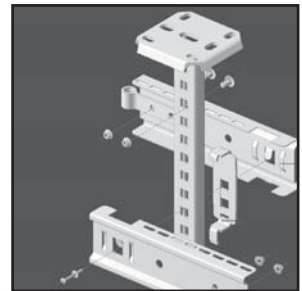
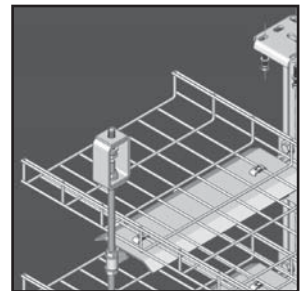


Standard supporting constructions

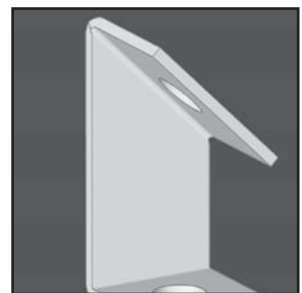


FIRE-RESISTANT SYSTEMS

Non-standard supporting constructions



Accessories



FIRE RESISTANCE

STANDARD SUPPORTING CONSTRUCTION

CABLE TRAYS		
KBS 60	Perforated cable tray	7-12
KPBS	Coupling for Cable tray (BS)	7-12
CABLE LADDERS		
KLBS 60	Cable ladder KL (BS)	7-13
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BK	Fixation clamp for KL	7-14
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MOUNTING SYSTEMS		
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NON-STANDARD SUPPORTING CONSTRUCTION

CABLE TRAYS		
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LOMEGA 150	Bracket/ceiling profile	7-43
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COMEGA 290	Open suspension bracket	7-44
KCLBS	Click-on bracket (BS)	7-44
WK	Joined bracket	7-45
BSKLEM	Clamp for fixation of threaded rod	7-45
MPCL	Assembly profile clips	7-46
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TIM	Threaded rod (DIN 975)	7-49
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ASSEMBLY ACCESSORIES

ACCESSORIES		
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CRO	Giant washer (DIN 125-1 A)	7-57

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 :

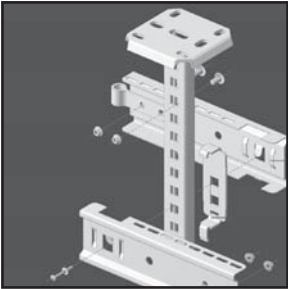
This is a construction that does not comply with one of the above conditions. As a result, transferability is not possible in this case.

Non-standard supporting constructions :

1. Construction with cable tray KBSI 60 (E90)
 - 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

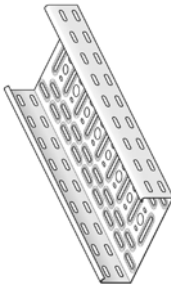


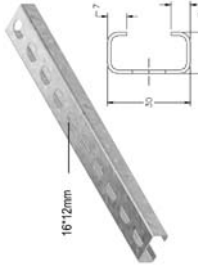
FIRE-RESISTANT SYSTEMS

Standard supporting constructions



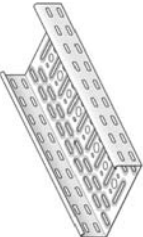
SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

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

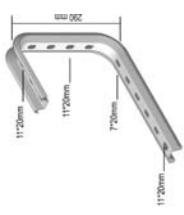
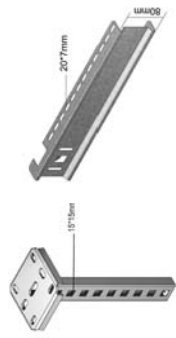
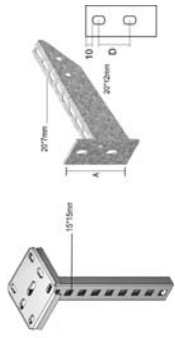
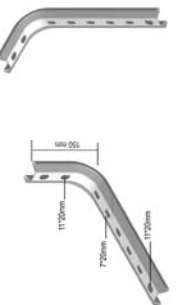
		Conditions	Standard supporting constructions (nr 1 - nr 19)
Constructions with cable tray 	KBS 60	<ul style="list-style-type: none"> - Gauge = 1,5 mm - Max. width = 300 mm - Max. load (F) = 10 kg/m - Max. support distance (L) ≤ 1200 mm - Maximum 3 levels - Percentage of perforations in the cable tray = 12,5 - 15% - Ends of the brackets are held up by threaded rod 	<ol style="list-style-type: none"> 1. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 1 - nr 4) - Mounting to the wall (nr 5 - nr 8) 2. Mounting with double threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 9)
Constructions with cable ladder 	KLBS 60	<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 - Ends of the brackets are held up by threaded rod 	<ol style="list-style-type: none"> 1. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 10 - nr 13) - Mounting to the wall (nr 14 - nr 17)
Vertical mounting 	KL 60	<ul style="list-style-type: none"> - Max. height = 3500 mm - Max. support distance (L) ≤ 1200 mm - Use solid supporting blocs every 3500 mm 	<p>Mounting to the wall (nr 18)</p>
Cable clamps 	DR 15*30	<ul style="list-style-type: none"> - Max. support distance (L) without clamp support = 300 mm - Max. support distance (L) with clamp support = 600 mm 	<p>Mounting to the ceiling and to the wall (nr 19)</p>

SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

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

		Conditions	Standard supporting constructions (nr 1 - nr 9)
<p>KBS 60</p> 		<ul style="list-style-type: none"> - Gauge = 1,5 mm - Max. width = 300 mm - Max. load (F) = 10 kg/m - Max. support distance (L) ≤ 1200 mm - Maximum 3 levels - Percentage of perforations in the cable tray = 12,5 - 15% - Ends of the brackets are held up by threaded rod 	<ul style="list-style-type: none"> 1. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 1 - nr 4) - Mounting to the wall (nr 5 - nr 8) 2. Mounting with double threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 9)

1. Mounting with threaded rod

		To fix with :	Amount	Remark	Class
Nr 1 : Mounting to the ceiling					
<p>Code Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Variant 3, Annexes 8, 9, 13</p>					
	KBS 60* 100 - 300*1,50	KPBS 100 - 300	1		
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	
	LOMEGA 150*400 - 600	Concrete anchor M 12	1		
	LOMEGA 150*150 - 400	Concrete anchor M 10	1		
	LOMEGA 150*150 - 400	M 10	2	Mounting of TIM onto COMEGA	
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto COMEGA	E 30 - E 90
Nr 2 : Mounting to the ceiling					
<p>Code Certificate 3303/9910-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 2, Annexes 4-7, 13</p>					
	KBS 60* 100 - 300*1,50	KPBS 100 - 300	1		
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	
	HSLECL 300 - 1200	Concrete anchor M 8 - 10 - 12	2	1 level : M 8; 2 levels : M 10; 3 levels : M 12	
	KCLBS 100 - 300	VM 4*40	1		E 30 - E 90
	BSKLEM		1		
	TIM 8 - 10 - 12	Concrete anchor M 8 - 10 - 12	1	1 level : M 8; 2 levels : M 10; 3 levels : M 12	
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto KCLBS	
Nr 3 : Mounting to the ceiling					
<p>Code Certificate 3303/9910-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Variant 1, Annexes 1-3, 7, 13</p>					
	KBS 60* 100 - 300*1,50	KPBS 100 - 300	1		
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	
	HSLECL 300 - 1200	Concrete anchor M 8 - 10 - 12	2	For symmetrical mounting : concrete anchor M 12	
	WK 100 - 300	B 10*40 + CRO 10 + M 10	2 + 4 + 2	For symmetrical mounting : B 12*50 + CRO 12 + M 12	E 30 - E 90
	BSKLEM		1		
	TIM 8 - 10 - 12	Concrete anchor M 8 - 10 - 12	1	1 level : M 8; 2 levels : M 10; 3 levels : M 12	
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto WK	
Nr 4 : Mounting to the ceiling					
<p>Code Certificate 3305/9930-2 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Variant 4, Annexes 10, 13</p>					
	KBS 60* 100 - 300*1,50	KPBS 100 - 300	1		
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	
	LOMEGA 150*400 - 600	Concrete anchor M 10	2		
	LOMEGA 150*150 - 400	B 10*30 + CRO 10 + M 10	2 + 2 + 2		E 30 - E 90
	LOMEGA 150*150 - 400	Concrete anchor M 10	1		
	TIM 10	M 10	2	Mounting of TIM onto LOMEGA	
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto LOMEGA	

Nr 5 : Mounting to the wall (45°)	Code	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	KPBS 100 - 300	1	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	E 30 - E 90	
	KPBS 100 - 300	VMK 6*10	12 - 18			
	WK 100-300	Concrete anchor M 10	2			
	BSKLEM		1			
	TIM 10	Concrete anchor M 10	1			
	VS 41*45	Concrete anchor M 12	1	For 45° mounting to the wall		
	VS 41*45	B 12*50 + RO 12 + M 12	1 + 2 + 1	Fixation VS 41*45 onto WK		
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto WK		
	Code					
To fix with :						
Code						
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	KPBS 100 - 300	1		E 30 - E 90	
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
	WK 100-300	Concrete anchor M 10	2			
	BSKLEM		1			
	TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : M 10; 2-3 levels : M 12		
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto WK		
	Code					
	To fix with :					
	Code					
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	KPBS 100 - 300	1	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	E 30 - E 90	
	KPBS 100 - 300	VMK 6*10	12 - 18			
	LOMEGA 150*100 - 400	Concrete anchor M 10	2			
	VOMEGA		1			
	TIM 10	M 10 + CRO 10	4 + 4	Fixation TIM onto VS 41*45		
	VS 41*45	Concrete anchor M 12	1	For 45° mounting to the wall		
	VS 41*45	B 10*20 + RO 10 + M 10	1 + 2 + 1	Fixation VS 41*45 onto LOMEGA		
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto LOMEGA		
	Code					
To fix with :						
Code						
Amount						
Remark						
Class						
	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	KPBS 100 - 300	1	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	E 30 - E 90	
	KPBS C148	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18		
	LOMEGA 150*100 - 400	Concrete anchor M 10	2			
	VOMEGA		1			
	TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : M 10; 2-3 levels : M 12		
	TIM 10 - 12	M 10 - 12 + CRO 10 - 12	2 + 2	Mounting TIM onto LOMEGA		
	KBS 60* 100 - 300*1,50	VMK 6*10	2	Mounting of the cable tray onto LOMEGA		
	Code					
	To fix with :					
Code						
Amount						
Remark						
Class						

2. Mounting with double threaded rod


Nr 9 : Mounting to the ceiling	Code	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	KPBS 100 - 300	1		E 30 - E 90
	KPBS 100 - 300	VMK 6*10	12 - 18	KPBS 100 : 12; KPBS 150 : 16; KPBS 200 - 300 : 18	
	TIM 8 - 10 - 12	Concrete anchor M 8 - 10 - 12	2	1 level : M 8; 2 levels : M 10; 3 levels : M 12	
	MPCL 41*21*1,50	M 8 - 10 - 12 + RO 8 - 10 - 12	4	1 level : M 8; 2 levels : M 10; 3 levels : M 12	
	KBS 60* 100 - 300*1,50	VMK 6*10 + CRO 6	2 + 2	Mounting of the cable tray onto MPCL	
Code					
To fix with :					
Code					
Amount					
Remark					
Class					

- Fixation with certified concrete anchors.

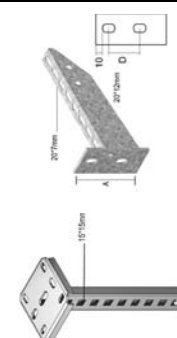
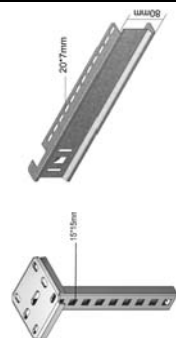
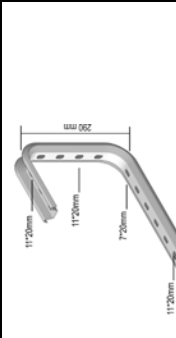
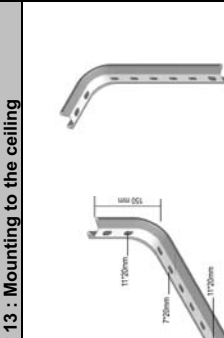
- The amount of products is always calculated for the smallest construction (1 level + asymmetrical).

SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

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

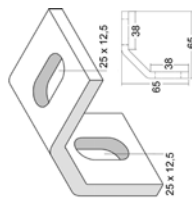

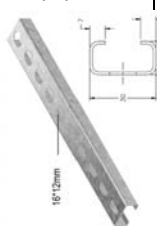
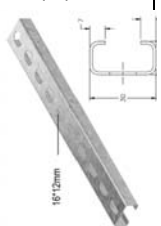
Conditions		Standard supporting constructions (nr 10 - nr 17)
<p>KLBS 60</p> 	<ul style="list-style-type: none"> - Gauge = 1,5 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) ≤ 1200 mm - Max. rung distance = 150 mm - Maximum 3 levels - Fixation of threaded rod at the end 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 10 : Mounting to the ceiling	Code	To fix with :	Amount	Remark	Class
	Certificate 3305/9930-1 MPA BS : F = 20 kg/m, L = 1200 mm, Max. 3 levels, Variant 1, Annexes 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			
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		
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		
KLBS 60*200-400	BK	2			
	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			

SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

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

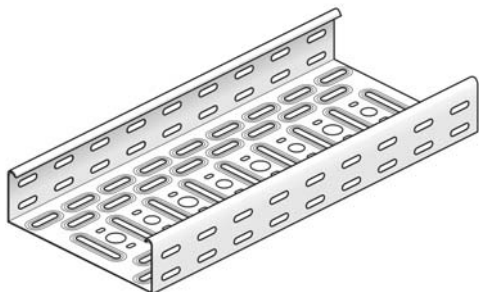
		Conditions	Standard supporting constructions (nr 18 - nr 19)	
<p>Vertical mounting with KL 60</p> 	<p>KL 60</p>  <ul style="list-style-type: none"> - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. height = 3500 mm - Max. support distance (L) ≤ 1200 mm - Solid support blocs every 3500 mm 	<p>Mounting to the wall (nr 18)</p>		
		<p>Nr-18 : Mounting to the wall</p>	<p>To fix with : Certificate 3305/9930-4 MPA - BS : F = 20 kg/m, L = 1200 mm, Annexes 1 - 5 KL 200 - 400 LVBS 60 VMK 6*10 VM 6 * 10 VM 10*20 + RO 10 WV/PIP WV/PIP Concrete anchor M 10 Cable clamps, type H</p>	<p>Amount</p> <p>2 8 2 1 + 2 4 1</p>
<p>Mounting with cable clamps</p> 	<p>DR 15*30</p>  <ul style="list-style-type: none"> - Max. support distance without clamp support = 300 mm - Max. support distance with clamp support = 600 mm 	<p>Mounting to the ceiling and to the wall (nr 19)</p>		
		<p>Nr-19 : Mounting</p>	<p>To fix with : Certificate 3305/9930-3 MAP BS : Annexes 1 - 12 DR 15*30 Concrete anchor M 6 + CRO 6 Cable clamps, type H Clamp support</p>	<p>Amount</p> <p>2 + 2 1</p>

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

- Fixation with certified concrete anchors.

KBS 60

Perforated cable tray



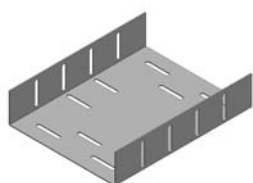
Max. load	10 daN
Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	Stock	Unit			
HD	-	KBS 60*100*1.50	60	100	1,50	3000	2,350	60	✓	m			
HD	-	KBS 60*150*1.50	60	150	1,50	3000	2,830	30	✓	m			
HD	-	KBS 60*200*1.50	60	200	1,50	3000	3,320	30	✓	m			
HD	-	KBS 60*300*1.50	60	300	1,50	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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	-	KPBS 075	-	75	-	-	0,480	1	✓	piece			
HD	-	KPBS 100	-	100	-	-	0,550	1	✓	piece			
HD	-	KPBS 150	-	150	-	-	0,670	1	✓	piece			
HD	-	KPBS 200	-	200	-	-	0,850	1	✓	piece			
HD	-	KPBS 300	-	300	-	-	1,100	1	✓	piece			
HD	-	KPBS 400	-	400	-	-	1,400	1	✓	piece			

To fix with:													
HD	-	VMK 6*10	-	-	M6	-	0,01	250	✓	piece			

Use all perforations.

KLBS 60

Cable ladder KL (BS)



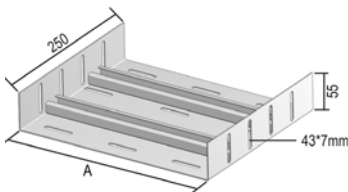
Side walls : L-profile
C-rungs

Useful inner height	45 mm
Rung distance	100 mm
Max. load	20 daN
Length	3000 mm
Standard finish	Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/m	Packaging	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

KPBSKL

Jointing plate for cable ladder (BS)



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

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
HD	KPBSKL 200	-	200	-	-	1,100	1	-	piece
HD	KPBSKL 300	-	300	-	-	1,450	1	-	piece
HD	KPBSKL 400	-	400	-	-	1,850	1	-	piece

To fix with:

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
HD	VMK 6*10	-	-	M6	-	0,01	250	✓	piece

BK

Fixation clamp for KL



For fixation of the cable ladder on the wall bracket.

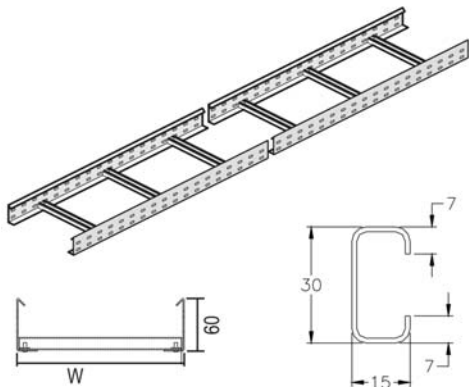
Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
HD	- BK	-	-	-	-	0,020	500	✓	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

1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	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

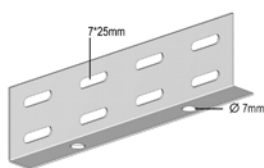
To fix with:

HD	-	LVBS 60	60	-	-	-	0,120	12	✓	piece
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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

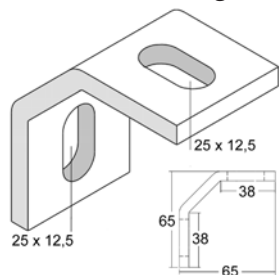
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
HD	-	LVBS 60	60	-	-	-	0,120	12	✓	piece

To fix with:

HD	-	VMK 6*10	-	-	M6	-	0,01	250	✓	piece
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WVPIP

Universal fixing for IPN 80 SL



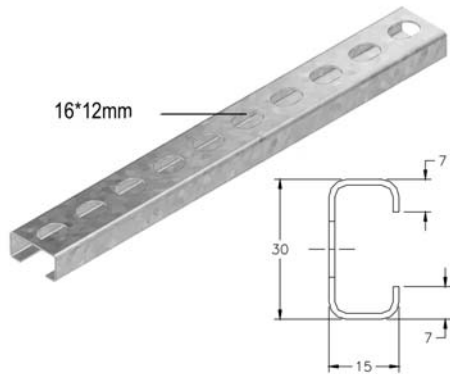
Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	- WVPIP	-	-	6,50	-	0,190	50	✓	piece			

DR 15*30

Supporting profile



For wall and ceiling constructions

Standard finish

Pre-galvanised

Optional finish 1

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

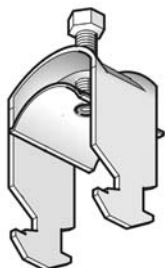
Up to 3 cables per cable clamp

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, for the fixation of 1 cable

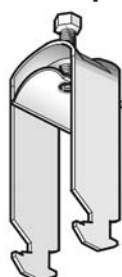
Standard finish Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	- Y 1198	-	12	-	-	0,030	250	✓	piece
-	- Y 1199	-	16	-	-	0,030	250	✓	piece
-	- Y 1200	-	20	-	-	0,040	250	✓	piece
-	- Y 1201	-	24	-	-	0,040	250	✓	piece
-	- Y 1202	-	28	-	-	0,040	250	✓	piece
-	- Y 1203	-	32	-	-	0,060	200	✓	piece
-	- Y 1204	-	36	-	-	0,070	200	✓	piece
-	- Y 1205	-	40	-	-	0,080	200	✓	piece
-	- Y 1206	-	44	-	-	0,090	100	✓	piece
-	- Y 1207	-	48	-	-	0,100	100	✓	piece
-	- Y 1208	-	52	-	-	0,100	100	✓	piece
-	- Y 1209	-	56	-	-	0,110	100	✓	piece
-	- Y 1210	-	60	-	-	0,140	100	✓	piece
-	- Y 1211	-	64	-	-	0,160	100	✓	piece
-	- Y 1212	-	70	-	-	0,160	100	✓	piece

Up to 3 cables per cable clamp.

H2

Cable clamp for 2 cables



Applicable in case of C-rungs 15x30, for the fixation of 2 cables

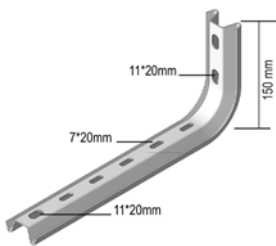
Standard finish Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	- Y 1213	-	12	-	-	0,040	250	✓	piece
-	- Y 1214	-	16	-	-	0,040	250	✓	piece
-	- Y 1215	-	20	-	-	0,040	250	✓	piece
-	- Y 1216	-	24	-	-	0,050	200	✓	piece
-	- Y 1217	-	28	-	-	0,060	250	✓	piece
-	- Y 1218	-	32	-	-	0,080	200	✓	piece
-	- Y 1219	-	36	-	-	0,100	200	✓	piece
-	- Y 1220	-	40	-	-	0,100	200	✓	piece
-	- Y 1221	-	44	-	-	0,130	200	✓	piece
-	- Y 1223	-	52	-	-	0,150	100	✓	piece
-	- Y 1224	-	56	-	-	0,150	100	✓	piece

Up to 3 cables per cable clamp.

Accessories

LOMEGA 150

Bracket/ceiling profile


Standard finish

Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	LOMEGA 150*100	150	100	-	-	0,300	12	✓	piece
-	LOMEGA 150*150	150	150	-	-	0,320	12	✓	piece
-	LOMEGA 150*200	150	200	-	-	0,340	12	✓	piece
-	LOMEGA 150*250	150	250	-	-	0,450	6	✓	piece
-	LOMEGA 150*300	150	300	-	-	0,490	6	✓	piece
-	LOMEGA 150*400	150	400	-	-	0,540	6	✓	piece
-	LOMEGA 150*500	150	500	-	-	0,710	6	✓	piece
-	LOMEGA 150*600	150	600	-	-	0,770	6	✓	piece

To fix with:

HD	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	B 10*30	-	-	M10	30	0,026	250	✓	piece
-	M 10	-	-	M10	-	0,010	250	✓	piece
-	CRO 10	-	-	M10	-	0,011	250	✓	piece

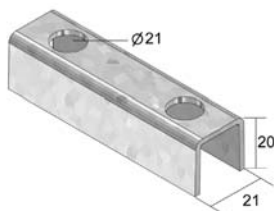
Can also be used as ceiling profile.

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

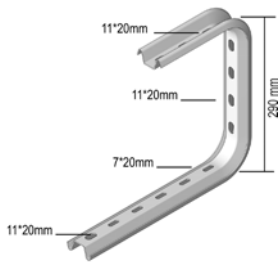
Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

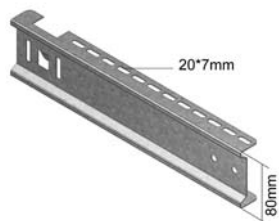


		Standard finish						Pre-galvanised					
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	COMEGA 290*100	290	100	-	-	0,520	12	✓	piece			
-	-	COMEGA 290*150	290	150	-	-	0,560	12	✓	piece			
-	-	COMEGA 290*200	290	200	-	-	0,620	12	✓	piece			
-	-	COMEGA 290*250	290	250	-	-	0,760	12	✓	piece			
-	-	COMEGA 290*300	290	300	-	-	0,820	6	✓	piece			
-	-	COMEGA 290*400	290	400	-	-	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. KBS 300: use COMEGA 290*400.

KCLBS

Click-on bracket (BS)



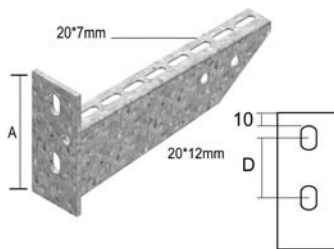
		Standard finish						Pre-galvanised					
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	KCLBS 100	-	100	-	-	0,220	10	-	piece			
-	-	KCLBS 200	-	200	-	-	0,350	10	-	piece			
-	-	KCLBS 300	-	300	-	-	0,470	10	-	piece			
To fix with:													
-	-	VM 4*40	-	-	M4	40	0,010	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.

Accessories

WK

Joined bracket


Specially intended for wall and tunnel applications

Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	WK 100	-	117	-	-	0,300	24	✓	piece			
-	WK 150	-	167	-	-	0,360	24	✓	piece			
-	WK 200	-	217	-	-	0,430	24	✓	piece			
-	WK 250	-	267	-	-	0,530	12	✓	piece			
-	WK 300	-	317	-	-	0,730	12	✓	piece			
-	WK 400	-	417	-	-	0,880	12	✓	piece			

To fix with:

HD	-	B 10*40	-	-	M10	40	0,030	250	✓	piece		
HD	-	CRO 10	-	-	M10	-	0,011	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 bolt. Applicable on WK and KCLBS.

Standard finish Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	- MPCL 41*21*1.50*200	41	21	1,50	200	0,240	10	✓	piece
-	- MPCL 41*21*1.50*300	41	21	1,50	300	0,340	10	✓	piece
-	- MPCL 41*21*1.50*400	41	21	1,50	400	0,480	10	✓	piece
-	- MPCL 41*21*1.50*500	41	21	1,50	500	0,580	10	✓	piece
-	- MPCL 41*21*1.50*600	41	21	1,50	600	0,680	10	✓	piece
-	- MPCL 41*21*1.50*800	41	21	1,50	800	0,920	10	✓	piece
-	- MPCL 41*21*1.50*3000	41	21	1,50	3000	3,420	3	✓	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

Accessories

HSLECL

Single Ceiling profile clips


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

Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	HSLECL 300	-	-	-	300	0,850	1	✓	piece			
-	HSLECL 400	-	-	-	400	1,010	1	✓	piece			
-	HSLECL 500	-	-	-	500	1,130	1	✓	piece			
-	HSLECL 600	-	-	-	600	1,230	1	✓	piece			
-	HSLECL 800	-	-	-	800	1,450	1	✓	piece			
-	HSLECL 1000	-	-	-	1000	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

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	CLHS	-	-	-	-	0,120	100	✓	piece			

VS 41*45

Assembly accessorie



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

Standard finish Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	VS 41*45	-	40	5,00	-	0,100	12	✓	piece			

TIM

Threaded rod (DIN 975)



Standard finish Electro zinc-plated

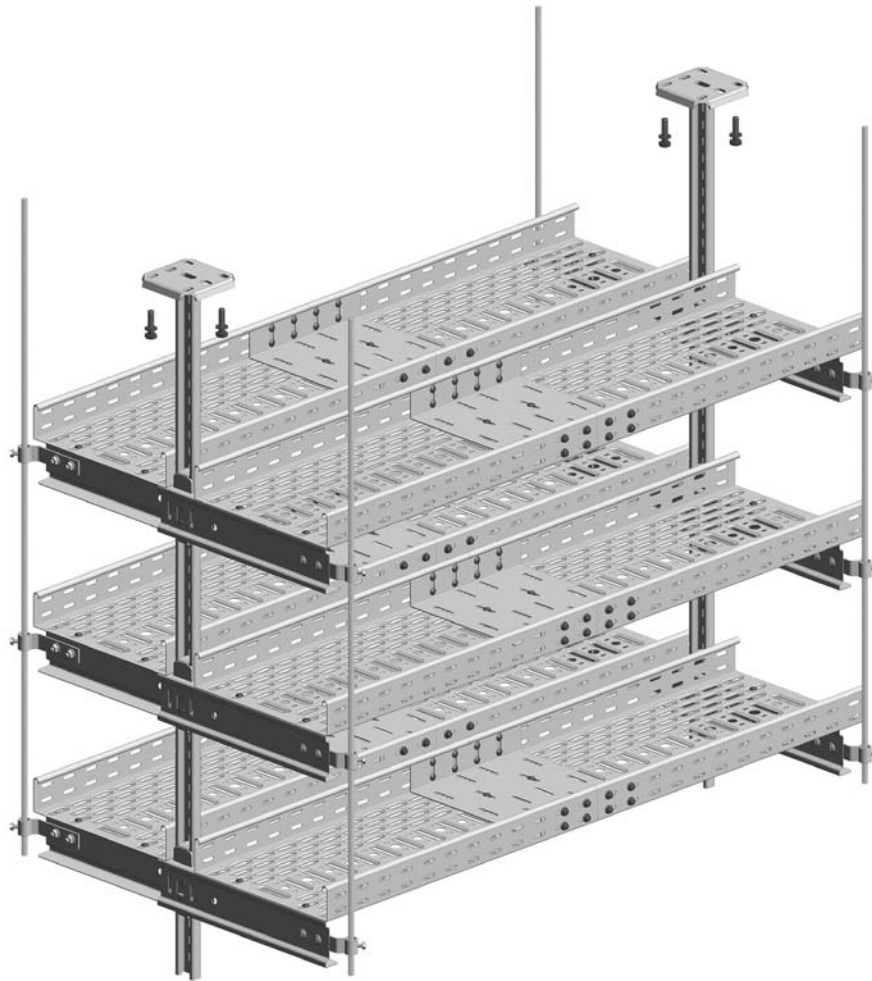
1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	Stock	Unit			
-	-	TIM 8	-	-	M8	2000	0,310	20	✓	m			
-	-	TIM 10	-	-	M10	2000	0,460	20	✓	m			
-	-	TIM 12	-	-	M12	2000	0,700	10	✓	m			

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			

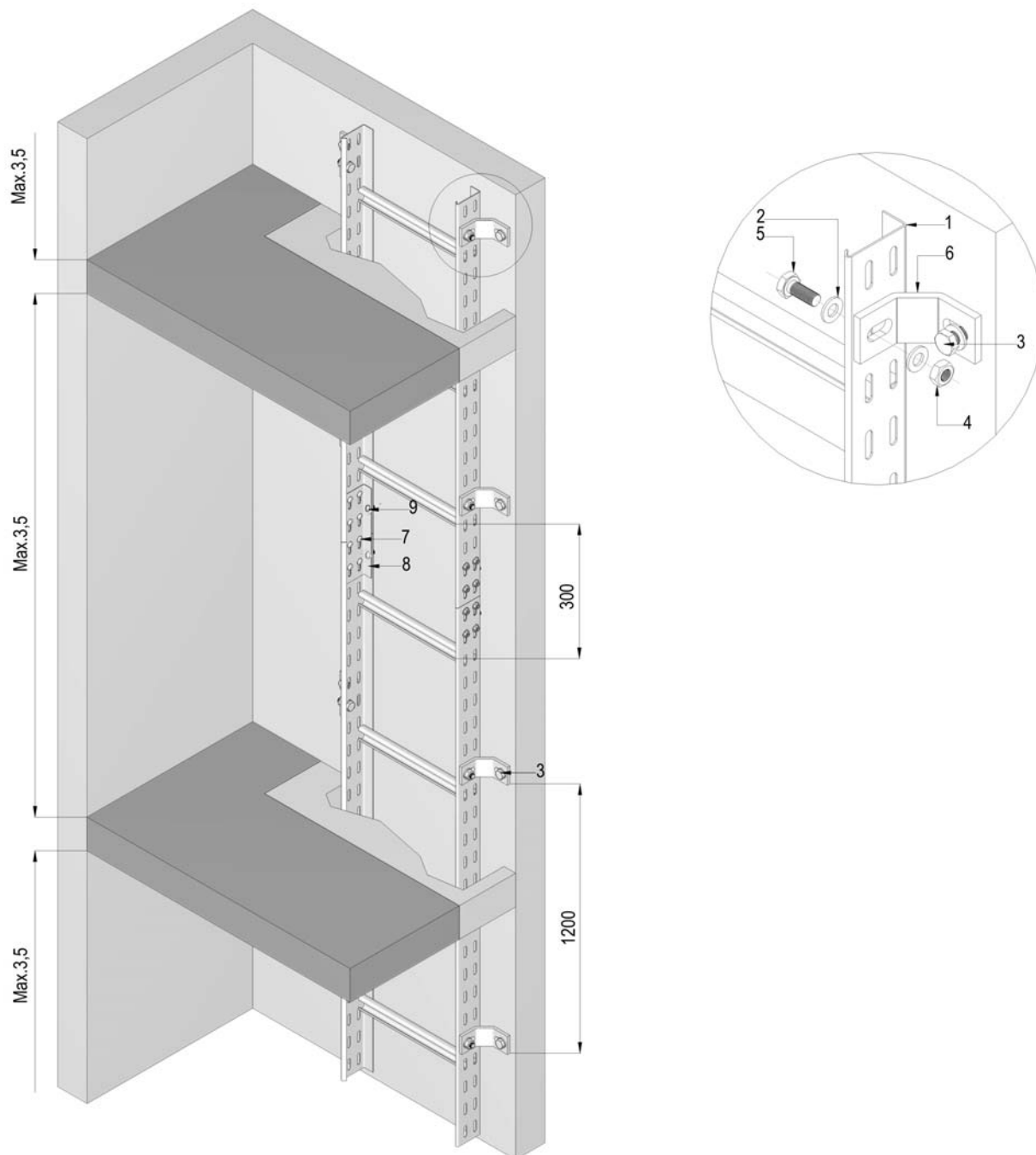
KBS 60

Mounting principle



KL 60

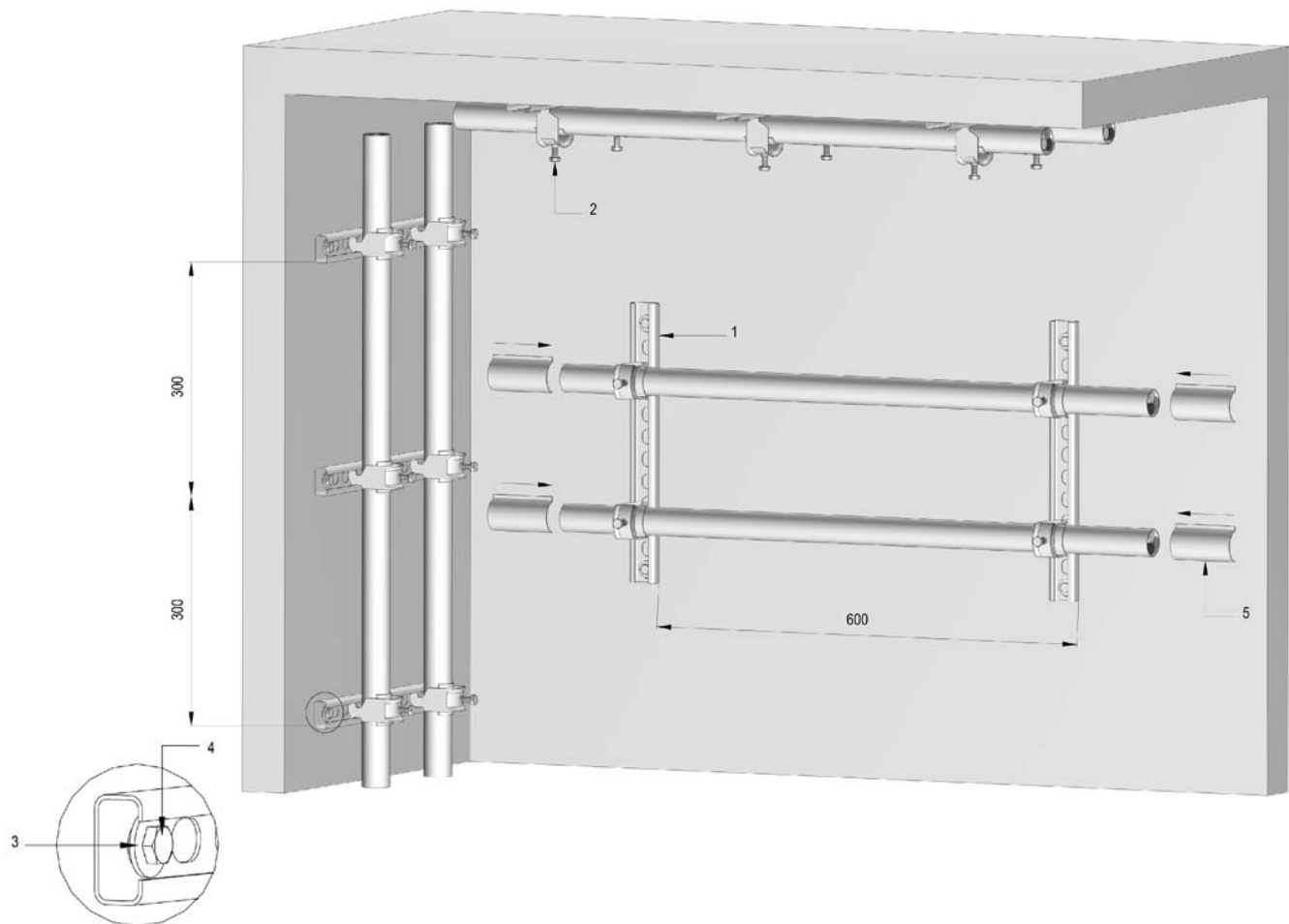
Mounting principle



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

DR 15*30

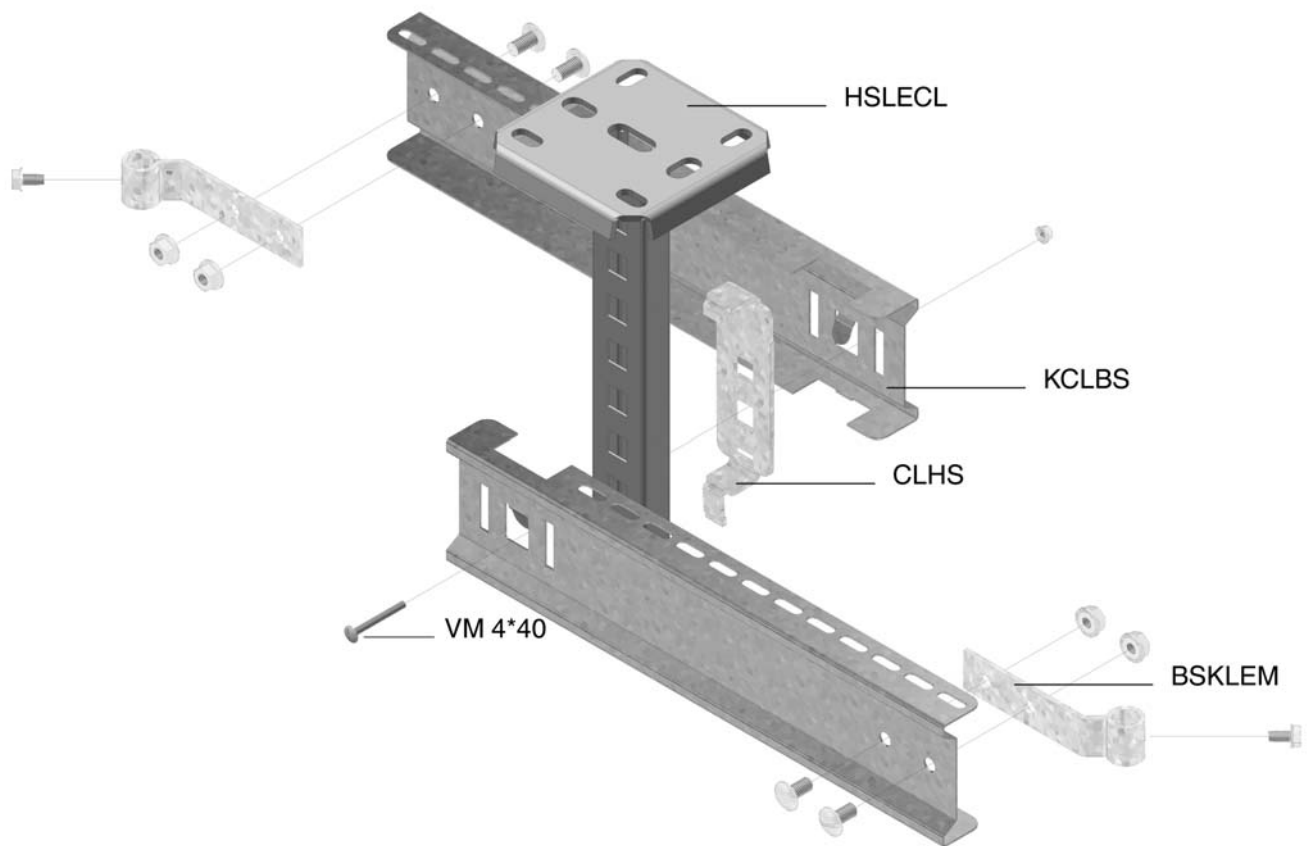
Mounting principle



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

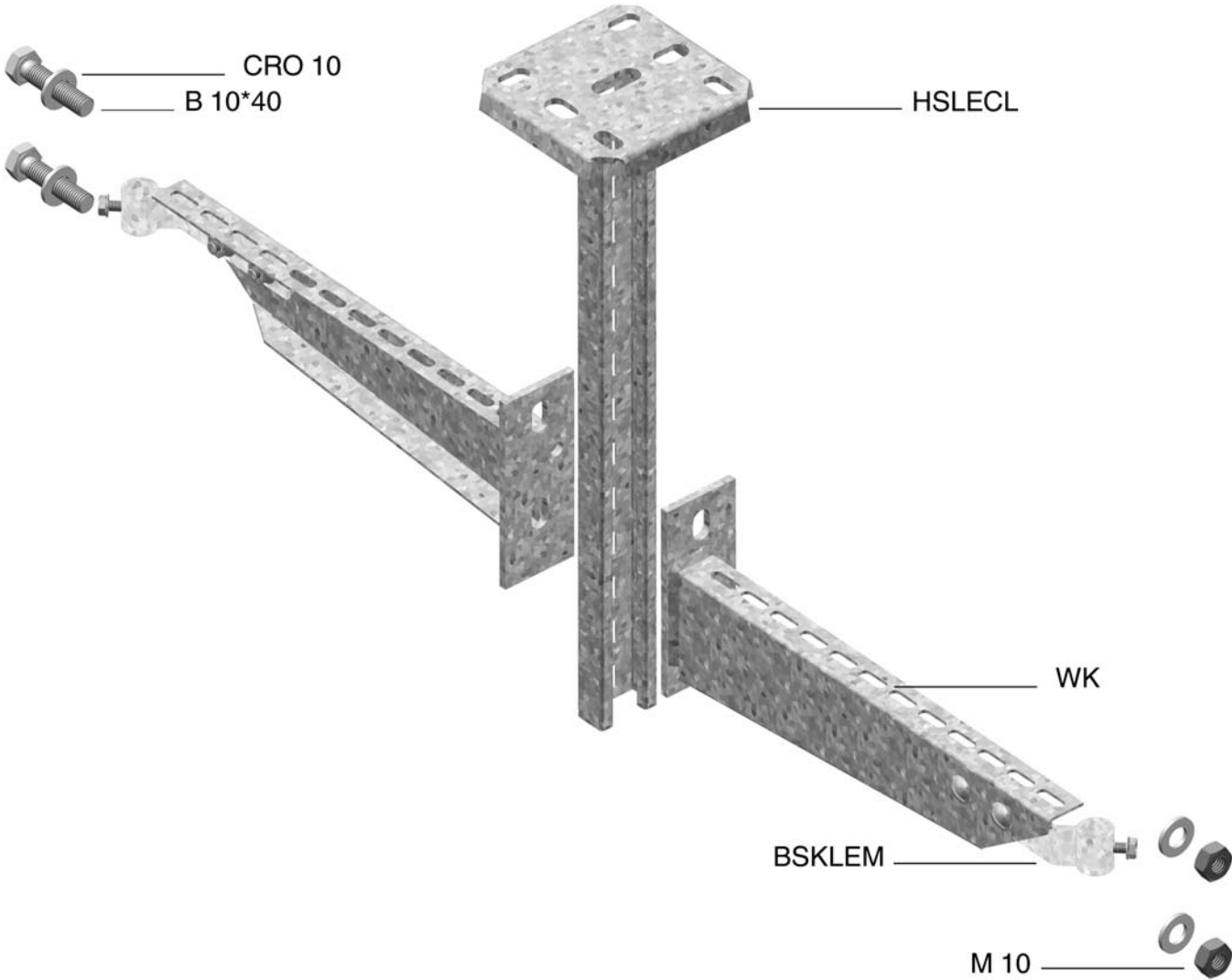
KCLBS

Mounting principle



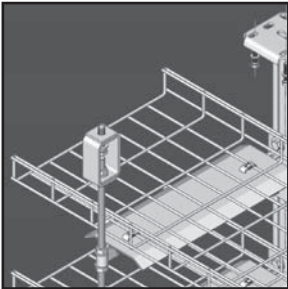
WK

Mounting principle



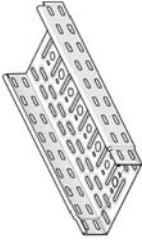
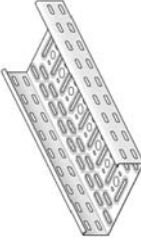
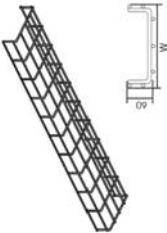
FIRE-RESISTANT SYSTEMS

Non-standard supporting constructions



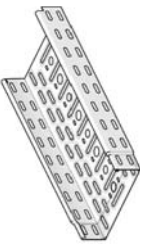
SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

2. Non-standard supporting constructions these constructions are only tested with Dätwyler cables

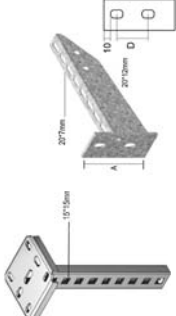
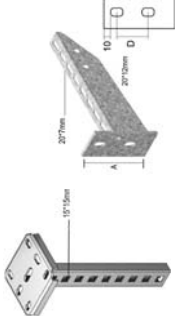
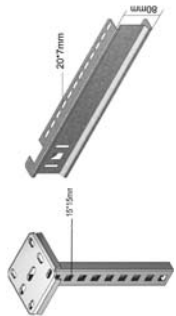
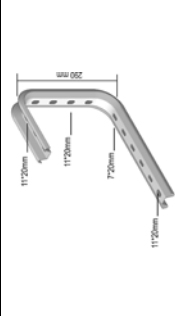
		Conditions	Non-standard supporting constructions (nr 1 - nr 21)
<p>Constructions with cable tray</p> 	KBSI 60	<ul style="list-style-type: none"> - Gauge = 1 mm - 1,25 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels 	<ol style="list-style-type: none"> 1. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 1 - nr 6) - Mounting to the wall (nr 7 - nr 12) 2. Mounting with double threaded rod (nr 13)
<p>Constructions with cable tray</p> 	KBS 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 	<ol style="list-style-type: none"> 1. Mounting without threaded rod : <ul style="list-style-type: none"> - Mounting to the wall (nr 14) 2. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 15 - nr 16) - Mounting to the wall (nr 17 - nr 18)
<p>Constructions with wire cable tray</p> 	VF 60	<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 	<ol style="list-style-type: none"> 1. Mounting with threaded rod : <ul style="list-style-type: none"> - Mounting to the ceiling (nr 19) - Mounting to the wall (nr 20 - nr 21)

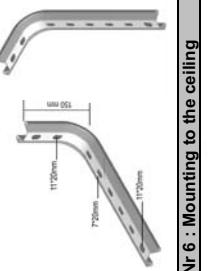
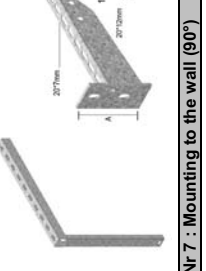
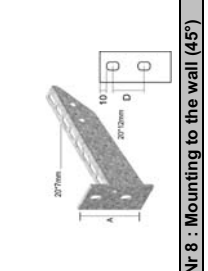
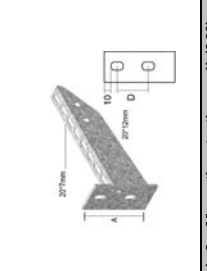

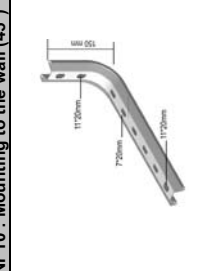
SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

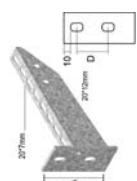
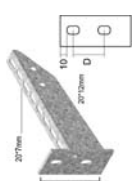
2. Non-standard supporting constructions these constructions are only tested with Dätwyler cables

Conditions		Non-standard supporting constructions (nr 1 - nr 13)
<p>KBSI 60</p>  <p>Constructions with cable tray KBSI 60</p> <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 	<p>1. Mounting with threaded rod : - Mounting to the ceiling (nr 1 - nr 6) - Montages tegen wand (nr 7 - nr 12)</p> <p>2. Mounting with double threaded rod (nr 13)</p>	


1. Mounting with threaded rod

Nr	Code	To fix with :	Amount	Remark	Class
<p>Nr 1 : Mounting to the ceiling</p> 	Code				
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr 2.1.3.4, Annexes 2.1, 2.2				
	KBSI 60*075 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90
	HSLECL 300 - 1200	Concrete anchor M 12	2	For symmetrical mounting : B 12*50 + CRO 12 + M 12	
	WK 100 - 300	B 10*40 + CRO 10 + M 10	1 + 2 + 1		
	BSKLEM	Concrete anchor M 10 - 12	1	1 level : M 10; 2 - 3 levels : M 12	
TIM 10 - 12	VMK 6*10	2	Mounting of the cable tray onto WK		
Code					
<p>Nr 2 : Mounting to the ceiling</p> 	Code				
	Certificate 3303/9910 MPA BS : F = 20 kg/m, L = 1500 mm, Max. 2 levels, Nr 2.1.3.10, Annexes 2.10, 2.11				
	KBSI 60*075 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90
	HSLECL 300 - 1200	Concrete anchor M 12	2	For symmetrical mounting : B 12*50 + CRO 12 + M 12	
	WK 100 - 300	B 10*40 + CRO 10 + M 10	1 + 2 + 1		
	BSKLEM	Concrete anchor M 10 - 12	1	1 level : M 10; 2 levels : M 12	
TIM 10 - 12	VMK 6*10	2	Mounting of the cable tray onto WK		
Code					
<p>Nr 3 : Mounting to the ceiling</p> 	Code				
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr 2.1.3.4, Annexes 2.3, 2.4, 2.10				
	KBSI 60*075 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90
	HSLECL 300 - 1200	Concrete anchor M 12	2		
	KCLBS 100 - 300	VM 4*40	1	1 level : M 10; 2 - 3 levels : M 12	
	TIM 10 - 12	Concrete anchor M 10 - 12	2	Mounting of the cable tray onto KCLBS	
KBSI 60*075 - 300*1,25	VMK 6*10	2			
Code					
<p>Nr 4 : Mounting to the ceiling</p> 	Code				
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Nr 2.1.3.4, Annexes 2.6, 2.7, 2.10				
	KBSI 60*075 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90
	COMEGA 290*100 - 400	Concrete anchor M 12	1		
	VOMEGA	Concrete anchor M 10	1	Fixation of TIM onto COMEGA	
	TIM 10	M 10	2	Mounting of the cable tray onto COMEGA	
KBSI 60*075 - 300*1,25	VMK 6*10	2			
Code					

Nr	To fix with :	Code	To fix with :	Amount	Remark	Class				
Nr 5 : Mounting to the ceiling		Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 2 levels, Nr. 2.1.3.4, Annexes 2.8, 2.10								
		KBSI 60*075 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90				
		LOMEGA 150*400 - 600	Concrete anchor M 10	2						
		LOMEGA 150*100 - 400	B 10*30 + CRO 10 + M 10	2 + 2 + 2						
		LOMEGA		1						
		TIM 10	Concrete anchor M 10	1						
		TIM 10	M 10	2	Fixation of TIM onto LOMEGA					
KBSI 60*075 - 300*1,25	VMK 6*10	2	Mounting of the cable tray onto LOMEGA							
Nr 6 : Mounting to the ceiling		Certificate 3321/38010 MPA BS : F = 20 kg/m, L = 1500 mm, Max. 2 levels, Nr. 2.1.2.1, Annexes 1.1 - 1.5, 1.8, 1.9								
		KBSI 60*075 - 400*1,00	VMK 6*10	6		E 30 - E 90				
		HSLBS 400 - 1200	Concrete anchor M 10 - 12 + RO 10 - 12 + VS 41*44	2 + 2 + 2	1 level : M 10; 2 levels : M 12					
		WK 100 - 400	B 10*40 + CRO 10 + M 10	1 + 2 + 1						
		BSKLEIM		1						
		TIM 10 - 12	VS 41*44 + GM 41 M 10-12 + M 10-12 + RO 10-12	1 + 1 + 1 + 1	1 level : TIM 10; 2 levels : TIM 12					
		KBSI 60*075 - 300*1,25	VMK 6*10	2	Mounting of the cable tray onto WK					
Nr 7 : Mounting to the wall (90°)		Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr. 2.1.3.5, Annexes 2.5, 2.10								
		KBSI 60*75 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90				
		WK 100 - 300	Concrete anchor M 10	2						
		BSKLEIM		1						
		TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : TIM 10; 2 - 3 levels : TIM 12					
		KBSI 60*075 - 300*1,25	VMK 6*10	2	Mounting of the cable tray onto WK					
		Nr 8 : Mounting to the wall (45°)		Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 1 level, Nr. 2.1.3.5, Annexes 2.5, 2.10						
KBSI 60*75 - 300*1,25	VMK 6*10			6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8		E 30 - E 90			
WK 100-300	Concrete anchor M 10			2						
BSKLEIM				1						
TIM 10	M 10 + RO 10			4 + 4						
VS 41*45	Concrete anchor M 12			1						
VS 41*45	B 12*50 + RO 12 + M 12			1 + 2 + 1						
KBSI 60*075 - 300*1,25	VMK 6*10	2	Mounting of the cable tray onto WK							
Nr 9 : Mounting to the wall (90°)		Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr. 2.1.3.5, Annexes 2.9, 2.10								
		KBSI 60*75 - 300*1,25	VMK 6*10	6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90				
		LOMEGA 150*100 - 400	Concrete anchor M 10	2						
		TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : TIM 10; 2 - 3 levels : TIM 12					
		KBSI 60*075 - 300*1,25	VMK 6*10	2	Mounting of the cable tray onto LOMEGA					
		Nr 10 : Mounting to the wall (45°)		Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 1 level, Nr. 2.1.3.5, Annexes 2.9, 2.10						
				KBSI 60*75 - 300*1,25	VMK 6*10		6 - 8	KBSI 60*075 - 200 : 6; KBSI 60*300 - 400 : 8	E 30 - E 90	
LOMEGA 150*100 - 400	Concrete anchor M 10			2						
TIM 10	M 10 + RO 10			4 + 4						
VS 41*45	Concrete anchor M 12			1						
VS 41*45	B 10*20 + RO 10 + M 10			1 + 2 + 1						
KBSI 60*075 - 300*1,25	VMK 6*10			2	Mounting of the cable tray onto LOMEGA					

Nr 11 : Mounting to the wall (90°)	Code	To fix with :	Amount	Remark	Class
	Certificate P-3321/380/10-MPA BS : F = 20 kg/m, L = 1500 mm, Max. 2 levels, Nr 2.1.2.1, Annexes 1.1 - 1.5, 1.8, 1.9				
	KBSI 60°0,75 - 400*1,00	VMK 6°10	6		
	WK 100 - 400	Concrete anchor M 10	1		
	BSKLEM		1		
	TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : TIM 10; 2 levels : TIM 12	E 30 - E 90
KBSI 60°0,75 - 400*1,00	VMK 6°10	2	Mounting of the cable tray onto WK		
Nr 12 : Mounting to the wall (45°)	Code	To fix with :	Amount	Remark	Class
	Certificate P-3321/380/10-MPA BS : F = 20 kg/m, L = 1500 mm, Max. 1 level, Nr 2.1.2.1, Annexes 1.1 - 1.5, 1.8, 1.9				
	KBSI 60°0,75 - 400*1,00	VMK 6°10	6		
	WK 100 - 400	Concrete anchor M 10	1		
	BSKLEM		1		
	TIM 10	M 10 + RO 10	4 + 4		E 30 - E 90
	VS 41°45	Concrete anchor M 12	1		
	VS 41°45	B 12°50 + RO 12 + M 12	1 + 2 + 1		
KBSI 60°0,75 - 400*1,00	VMK 6°10	2	Mounting of the cable tray onto WK		

2. Ophanging met dubbele draadstang

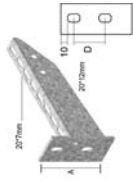
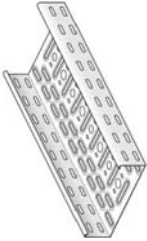
Nr 13 : Mounting to the ceiling	Code	To fix with :	Amount	Remark	Class
	Certificate P-3321/380/10-MPA BS : F = 20 kg/m, L = 1200 mm, Max. 2 levels, Nr 2.1.2.2, Annexes 1.6 - 1.9				
	KBSI 60°0,75 - 400*1,00	VMK 6°10	5		
	TIM 10 - 12	Concrete anchor M 10 - 12	2	1 level : M 10; 2 levels : M 12	E 30 - E 90
	MPCL	M 10 - 12 + RO 10 - 12	4	1 level : M 10; 2 levels : M 12	
	KBSI 60°0,75 - 400*1,00	VMK 6°10 + CRO 6	2	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

2. Non-standard supporting constructions these constructions are only tested with Dätwyler cables

		Conditions	Non-standard supporting constructions (nr 14 - nr 18)
Constructions with cable tray KBS 60 		KBS 60  - Gauge = 1,50 mm - Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels	1. Mounting without threaded rod : - Mounting to the wall (nr 14) 2. Mounting with threaded rod : - Mounting to the ceiling (nr 15 - nr 16) - Mounting to the wall (nr 17 - nr 18)

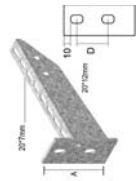

1. Mounting without threaded rod

Nr 14 : Mounting to the wall	Code	To fix with :	Amount	Remark	Class
	Certificate 3303/9910 MPA BS : F = 20 kg/m, L = 1200 mm, Max. 2 levels, Nr 2.1.3.12, Annexes 1.9 - 1.10				
	KBS 60*100 - 400*1,50	KPBS 100 - 400	1		
	KPBS 100 - 400	VMK 6*10	12 - 16	KPBS 100-150 : 12; KPBS 200-300 : 14; KPBS 400 : 16	
	WK 100 - 400	Concrete anchor M 10	1		
	KBS 60*100 - 400*1,50	VMK 6*10	2 - 4	Mounting of the cable tray onto WK; KBS 60*100-250 : 2; KBS 60*300-400 : 4	E 30 - E 60

2. Mounting with threaded rod

Nr 15 : Mounting to the ceiling	Code	To fix with :	Amount	Remark	Class
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr 2.1.3.1, Annexes 1.1, 1.2, 1.9				
	KBS 60*100 - 400*1,50	KPBS 100 - 400	1		
	KPBS 100 - 400	VMK 6*10	12 - 16	KPBS 100-150 : 12; KPBS 200-300 : 14; KPBS 400 : 16	
	HSLECL 300 - 1200	Concrete anchor M 10 - 12	2	1 level : M 10, 2-3 levels : M 12	
	WK 100 - 400	B 10*40 + CRO 10 + M 10	2 + 4 + 2	For symmetrical mounting : B 12*50 + CRO 12 + M 12	E 30 - E 90
	BSKLEM		1		
	TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : TIM 10, 2-3 levels : TIM 12	
	KBS 60*100 - 400*1,50	VMK 6*10	2	Mounting of the cable tray onto WK	

Nr 16 : Mounting to the ceiling	Code	To fix with :	Amount	Remark	Class
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr 2.1.3.1, Annexes 1.3 - 1.5, 1.9				
	KBS 60*100 - 400*1,50	KPBS 100 - 400	1		
	KPBS 100 - 400	VMK 6*10	12 - 16	KPBS 100-150 : 12; KPBS 200-300 : 14; KPBS 400 : 16	
	HSLECL 300 - 1200	Concrete anchor M 10 - 12	2	1 level : M 10, 2-3 levels : M 12	
	KCLBS 100 - 400	VM 4*40	1		
	TIM 10 - 12	Concrete anchor M 10 - 12	1	1 level : TIM 10, 2-3 levels : TIM 12	
	KBS 60*100 - 400*1,50	VMK 6*10	2	Mounting of the cable tray onto KCLBS	E 30 - E 90

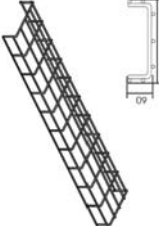
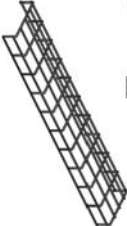
Nr 17 : Mounting to the wall (90°)	Code	To fix with :	Amount	Remark	Class
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 3 levels, Nr. 2.1.3.2, Annexes 1.6 - 1.9	KPBS 100 - 400	1	KPBS 100-150 : 12, KPBS 200-300 : 14; KPBS 400 : 16	E 30 - E 90
	KBS 60*100 - 400*1,50	VMK 6*10	12 - 16		
	KPBS 100 - 400	Concrete anchor M 10	2		
	WK 100 - 400	Concrete anchor M 10 - 12	1	1 level : TIM 10, 2-3 levels : TIM 12	Mounting of the cable tray onto WK
	BSKLEM	VMK 6*10	2		
	TIM 10 - 12				
KBS 60*100 - 400*1,50					
Nr 18 : Mounting to the wall (45°)	Code	To fix with :	Amount	Remark	Class
	Certificate 3303/9910 MPA BS : F = 10 kg/m, L = 1200 mm, Max. 1 level, Nr. 2.1.3.3, Annexes 1.6 - 1.9	KPBS 100 - 400	1	KPBS 100-150 : 12, KPBS 200-300 : 14; KPBS 400 : 16	E 30 - E 90
	KBS 60*100 - 400*1,50	VMK 6*10	12 - 16		
	KPBS 100 - 400	Concrete anchor M 10	2		
	WK 400	Concrete anchor M 10	1		
	BSKLEM	M 10 + RO 10	4 + 4		
	TIM 10	Concrete anchor M 12	1		
	VS 41*45	B 12*50 + RO 12 + M 12	1 + 2 + 1		
	KBSI 60*075 - 400*1,50	VMK 6*10	2	Mounting of the cable tray onto WK	

- Fixation with certified concrete anchors.

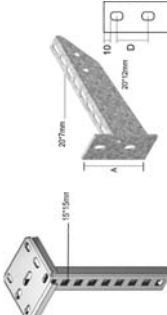


- The amount of products is always calculated for the smallest construction (1 level + asymmetrical).

SELECTION TABLES FOR FIRE-RESISTANT SYSTEMS

2. Non-standard supporting constructions these constructions are only tested with Dätwyler cables.

		Conditions	Non-standard supporting constructions (nr 19 - nr 21)
Constructions with wire cable tray VF 60 	VF 60 	- Max. width = 400 mm - Max. load (F) = 20 kg/m - Max. support distance (L) = 1500 mm - Maximum 3 levels	1. Mounting with threaded rod : - Mounting to the ceiling (nr 19) - Mounting to the wall (nr 20 - nr 21)

1. Mounting with threaded rod

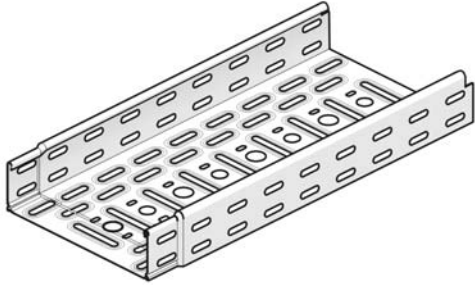
		To fix with :	Amount	Remark	Class
Nr 19 : Mounting to the ceiling 	Code Certificate 3303/9910 MPA BS : F = 20 kg/m, L = 1500 mm, Max. 2 levels, Nr 2.1.3.7, Annexes 3.1, 3.3 - 3.8	VF 60*150 - 400	2 + 3		
		SPBS	2	SPBS simultaneously used for fixation of the wire cable tray	
		HSLECL 300 - 1200	2		
		WK 150 - 400	2 + 4 + 2	For symmetrical mounting : B 12*50 + CRO 12 + M 12	E 30 - E 90
		BSKLEM	1		
		TIM 12	1		
Nr 20 : Mounting to the wall (90°) 	Code Certificate 3303/9910 MPA BS : F = 20 kg/m, L = 1500 mm, Max. 3 levels, Nr 2.1.3.8, Annexes 3.2 - 3.8	VF 60*150 - 400	2 + 3		
		SPBS	2	SPBS simultaneously used for fixation of the wire cable tray	
		WK 150 - 400	2		
		BSKLEM	1		E 30 - E 90
		TIM 12	1		
Nr 21 : Mounting to the wall (45°) 	Code Certificate 3303/9910 MPA BS : F = 20 kg/m, L = 1500 mm, Max. 1 level, Nr 2.1.3.9, Annexes 3.2 - 3.8	VF 60*150 - 300	2 + 3		
		SPBS	2	SPBS simultaneously used for fixation of the wire cable tray	
		WK 150 - 300	2		
		BSKLEM	1		E 30 - E 90
		TIM 12	1		
		VS 41*45	2 + 4 + 2		

- Fixation with certified concrete anchors.

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

KBSI 60

Cable tray with interlocking ends

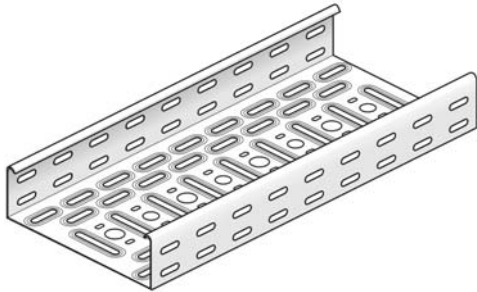


Bracket distance	1500 mm
Standard finish	Pre-galvanised

1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	Stock	Unit			
-	-	KBSI 60*075*1.00	60	75	1,00	3000	1,400	60	✓	m			
-	-	KBSI 60*075*1.25	60	75	1,25	3000	1,750	60	✓	m			
HD	-	KBSI 60*100*1.00	60	100	1,00	3000	1,560	60	✓	m			
-	-	KBSI 60*100*1.25	60	100	1,25	3000	1,950	60	✓	m			
HD	-	KBSI 60*150*1.00	60	150	1,00	3000	1,890	30	✓	m			
-	-	KBSI 60*150*1.25	60	150	1,25	3000	2,360	30	✓	m			
HD	-	KBSI 60*200*1.00	60	200	1,00	3000	2,220	30	✓	m			
-	-	KBSI 60*200*1.25	60	200	1,25	3000	2,770	30	✓	m			
-	-	KBSI 60*250*1.00	60	250	1,00	3000	2,540	30	✓	m			
HD	-	KBSI 60*300*1.00	60	300	1,00	3000	2,870	30	✓	m			
-	-	KBSI 60*300*1.25	60	300	1,25	3000	3,580	30	✓	m			
HD	-	KBSI 60*400*1.00	60	400	1,00	3000	3,520	30	✓	m			
To fix with:													
HD	-	VMK 6*10	-	-	M6	-	0,01	250	✓	piece			

KBS 60

Perforated cable tray

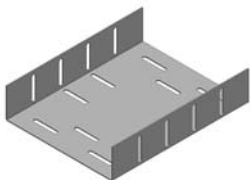


Max. load	10 daN
Standard finish	Pre-galvanised
Optional finish 1	Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	Stock	Unit			
HD	-	KBS 60*100*1.50	60	100	1,50	3000	2,350	60	✓	m			
HD	-	KBS 60*150*1.50	60	150	1,50	3000	2,830	30	✓	m			
HD	-	KBS 60*200*1.50	60	200	1,50	3000	3,320	30	✓	m			
HD	-	KBS 60*300*1.50	60	300	1,50	3000	4,300	30	✓	m			
HD	-	KBS 60*400*1.50	60	400	1,50	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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	-	KPBS 075	-	75	-	-	0,480	1	✓	piece			
HD	-	KPBS 100	-	100	-	-	0,550	1	✓	piece			
HD	-	KPBS 150	-	150	-	-	0,670	1	✓	piece			
HD	-	KPBS 200	-	200	-	-	0,850	1	✓	piece			
HD	-	KPBS 300	-	300	-	-	1,100	1	✓	piece			
HD	-	KPBS 400	-	400	-	-	1,400	1	✓	piece			

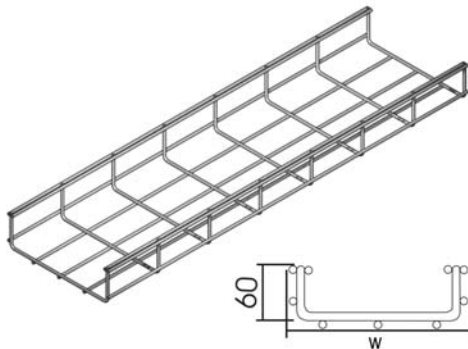
To fix with:

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	-	VMK 6*10	-	-	M6	-	0,01	250	✓	piece			

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

1	Reference	Height	Width	Thickness	Length	kg/m	Packaging	Stock	Unit
HD	- VF 60*150	60	150	-	3000	1,340	20	✓	m
HD	- VF 60*200	60	200	-	3000	1,530	30	✓	m
HD	- VF 60*300	60	300	-	3000	1,920	30	✓	m
HD	- VF 60*400	60	400	-	3000	2,300	30	✓	m

To fix with:

HD	- VFK	-	-	-	-	0,020	100	✓	piece
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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

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
HD	- VFKS	60	-	-	-	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)



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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	-	SPBS 100	-	100	-	-	0,330	3	✓	piece			
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			

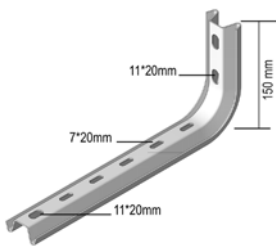
To fix with:

HD	-	VFK	-	-	-	-	0,020	100	✓	piece			
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For maximum stability and safety. Can only be used with 'VF 60'.
 SPBS and the wire cable tray are fixed onto the bracket through the VFK.

Accessories

LOMEGA 150

Bracket/ceiling profile


Standard finish

Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	LOMEGA 150*100	150	100	-	-	0,300	12	✓	piece
-	LOMEGA 150*150	150	150	-	-	0,320	12	✓	piece
-	LOMEGA 150*200	150	200	-	-	0,340	12	✓	piece
-	LOMEGA 150*250	150	250	-	-	0,450	6	✓	piece
-	LOMEGA 150*300	150	300	-	-	0,490	6	✓	piece
-	LOMEGA 150*400	150	400	-	-	0,540	6	✓	piece
-	LOMEGA 150*500	150	500	-	-	0,710	6	✓	piece
-	LOMEGA 150*600	150	600	-	-	0,770	6	✓	piece

To fix with:

HD	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	B 10*30	-	-	M10	30	0,026	250	✓	piece
-	M 10	-	-	M10	-	0,010	250	✓	piece
-	CRO 10	-	-	M10	-	0,011	250	✓	piece

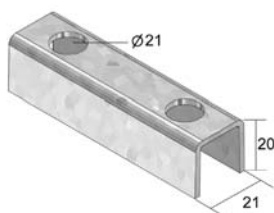
Can also be used as ceiling profile.

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

Jointing piece


Standard finish

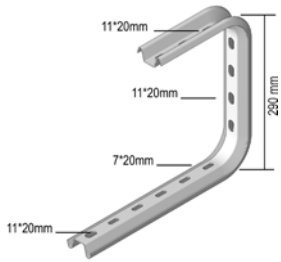
Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

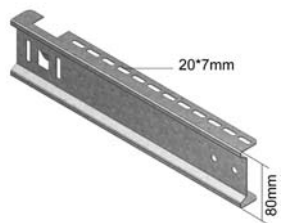


		Standard finish						Pre-galvanised					
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	COMEGA 290*100	290	100	-	-	0,520	12	✓	piece			
-	-	COMEGA 290*150	290	150	-	-	0,560	12	✓	piece			
-	-	COMEGA 290*200	290	200	-	-	0,620	12	✓	piece			
-	-	COMEGA 290*250	290	250	-	-	0,760	12	✓	piece			
-	-	COMEGA 290*300	290	300	-	-	0,820	6	✓	piece			
-	-	COMEGA 290*400	290	400	-	-	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)



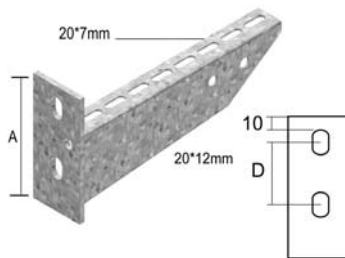
		Standard finish						Pre-galvanised					
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	KCLBS 100	-	100	-	-	0,220	10	-	piece			
-	-	KCLBS 200	-	200	-	-	0,350	10	-	piece			
-	-	KCLBS 300	-	300	-	-	0,470	10	-	piece			
To fix with:													
-	-	VM 4*40	-	-	M4	40	0,010	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.

Accessories

WK

Joined bracket


Specially intended for wall and tunnel applications

Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	WK 100	-	117	-	-	0,300	24	✓	piece			
-	WK 150	-	167	-	-	0,360	24	✓	piece			
-	WK 200	-	217	-	-	0,430	24	✓	piece			
-	WK 250	-	267	-	-	0,530	12	✓	piece			
-	WK 300	-	317	-	-	0,730	12	✓	piece			
-	WK 400	-	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 bolt. Applicable on WK and KCLBS.

Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	MPCL 41*21*1.50*200	41	21	1,50	200	0,240	10	✓	piece			
-	-	MPCL 41*21*1.50*300	41	21	1,50	300	0,340	10	✓	piece			
-	-	MPCL 41*21*1.50*400	41	21	1,50	400	0,480	10	✓	piece			
-	-	MPCL 41*21*1.50*500	41	21	1,50	500	0,580	10	✓	piece			
-	-	MPCL 41*21*1.50*600	41	21	1,50	600	0,680	10	✓	piece			
-	-	MPCL 41*21*1.50*800	41	21	1,50	800	0,920	10	✓	piece			
-	-	MPCL 41*21*1.50*3000	41	21	1,50	3000	3,420	3	✓	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

Standard finish Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	HSLECL 300	-	-	-	300	0,850	1	✓	piece			
-	-	HSLECL 400	-	-	-	400	1,010	1	✓	piece			
-	-	HSLECL 500	-	-	-	500	1,130	1	✓	piece			
-	-	HSLECL 600	-	-	-	600	1,230	1	✓	piece			
-	-	HSLECL 800	-	-	-	800	1,450	1	✓	piece			
-	-	HSLECL 1200	-	-	-	1200	1,950	1	✓	piece			
-	-	HSLECL 1000	-	-	-	1000	1,750	1	✓	piece			

Also applicable for double mounting.

Fixed with 2 anchoring bolts.

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

Accessories

CLHS

Adapter clips for HSLECL


For symmetrical mounting of KCLBS

Standard finish

Pre-galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit
-	- CLHS	-	-	-	-	0,120	100	✓	piece

HSLEBS

Single ceiling profile (BS)


Only 2 fixing points needed

Standard finish

Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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	-	-	-	800	2,800	1	✓	piece

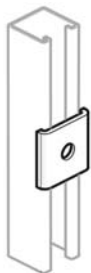
To fix with:

-	- VS 41*44	-	40	5,00	-	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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	VS 41*44	-	40	5,00	-	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

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	VS 41*45	-	40	5,00	-	0,100	12	✓	piece			

TIM

Threaded rod (DIN 975)



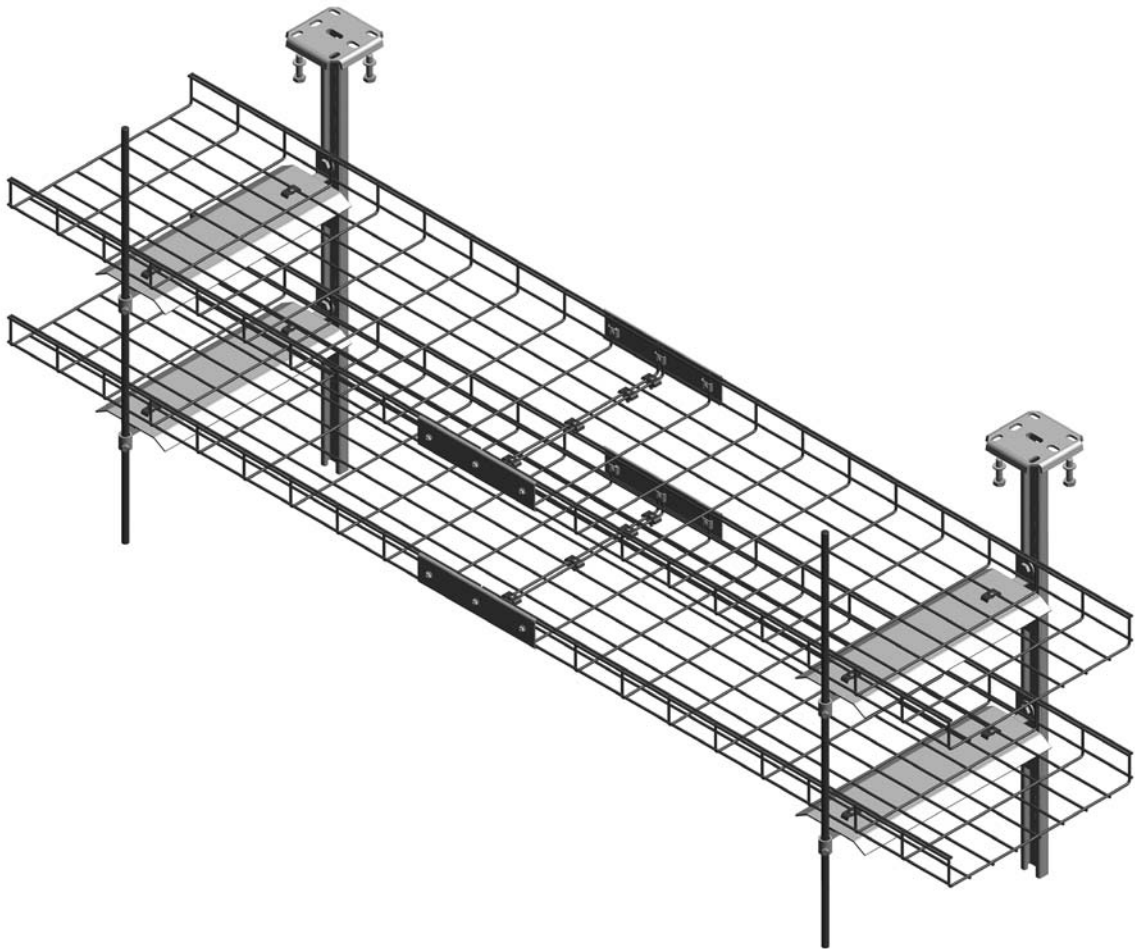
Standard finish

Electro zinc-plated

1		Reference	Height	Width	Thickness	Length	kg/m	Packaging	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			

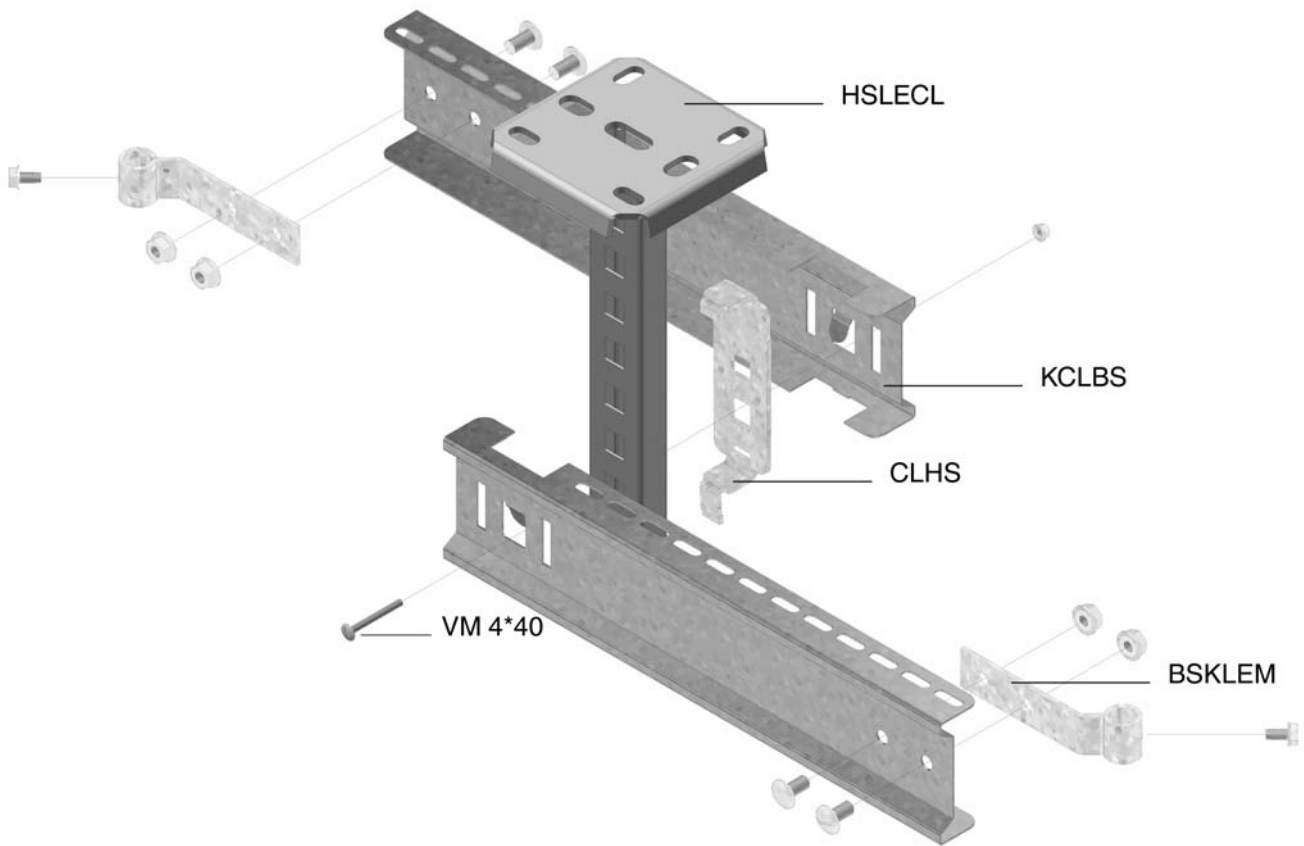
To fix with:

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			

VF 60**Mounting principle**

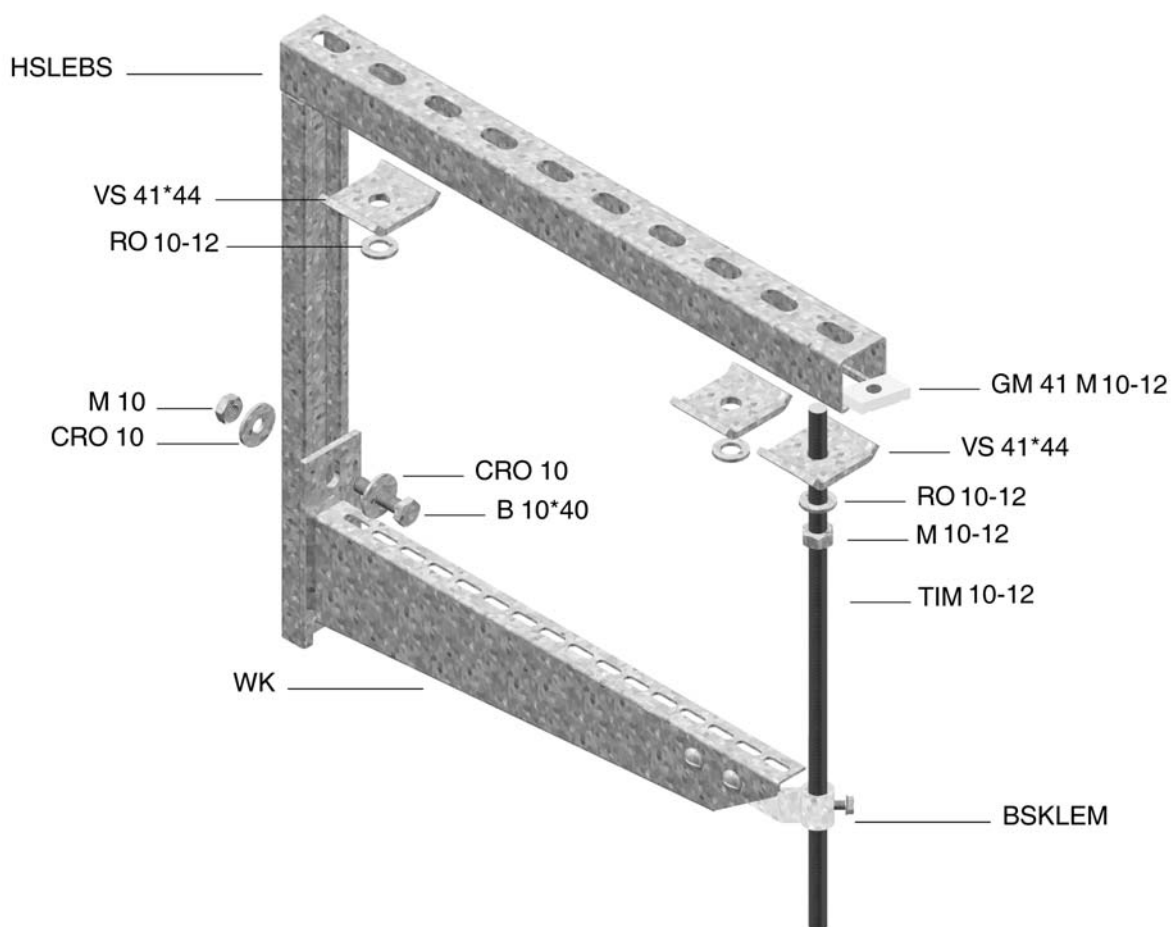
KCLBS

Mounting principle



HSLEBS

Mounting principle



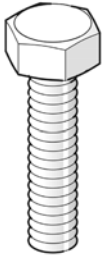
FIRE-RESISTANT SYSTEMS

Accessories



B

Bolt (DIN 933)



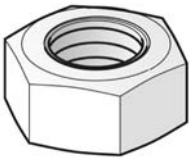
Standard finish	Electro zinc-plated
Optional finish 1	Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	- B 10*20	-	-	M10	20	0,022	250	✓	piece			
HD	- B 10*30	-	-	M10	30	0,026	250	✓	piece			
HD	- B 10*40	-	-	M10	40	0,030	250	✓	piece			
HD	- B 12*50	-	-	M12	50	0,055	250	✓	piece			

To order per 250 pieces.

M

Nut (DIN 934)



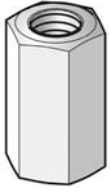
Standard finish	Electro zinc-plated
Optional finish 1	Hot-dip galvanised

1	Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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.

Accessories

VM 6334

Coupling nut (DIN 6334)


Standard finish

Electro zinc-plated

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

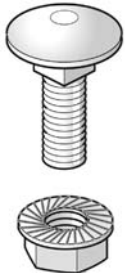
Electro zinc-plated

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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 (DIN 603)



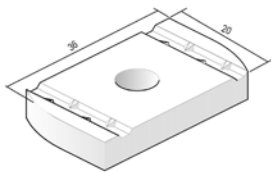
Standard finish	Electro zinc-plated
Optional finish 1	Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
HD	-	VMK 6*10	-	-	M6	-	0,01	250	✓	piece			

To order per 250 pieces.

GM 41

Sliding nut for supporting profile



For stepless fixation of the brackets on the ceiling profiles.

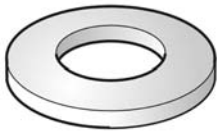
Standard finish	Electro zinc-plated
Optional finish 1	Hot-dip galvanised

1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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.

Accessories

RO

Giant washer (DIN 125-1 A)


		Standard finish							Electro zinc-plated				
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	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

Giant washer (DIN 125-1 A)


		Standard finish							Electro zinc-plated				
1		Reference	Height	Width	Thickness	Length	kg/piece	Packaging	Stock	Unit			
-	-	CRO 6	-	-	M6	-	0,010	250	✓	piece			
HD	-	CRO 8	-	-	M8	-	0,008	250	✓	piece			
HD	-	CRO 10	-	-	M10	-	0,011	250	✓	piece			
HD	-	CRO 12	-	-	M12	-	0,023	250	✓	piece			

To order per 250 pieces.

