

## Cable trays/luminaire rails

We have the widest range on the market comprising nine widths in the interval 50-600 mm.

To keep down the number of accessories, we have integrated one support yoke in the splice, this serves as a basis for both ceiling and wall installation.

The lengths of the trays vary and are adapted to the appropriate suspension spacing.

Width 50-200 mm = length 3 m.

Width 300-600 mm = length 2 m.

Painted trays have paint-free ends as standard. With normal splicing this solves equipotential bonding. Other colours and gloss finishes quoted on request.

Sendzimir galvanising is a corrosion protection and variations in shade/appearance may occur.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



## Cable trays/ luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets  
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

# Cable trays

## Basic facts

MP cable trays/luminaire rails are fully integrated with each other, which means that all the accessories are common. The trays are made of pre-galvanised sheet metal (20  $\mu\text{m}$  zinc layer), which generally is considered to meet corrosivity class max C3. For more accurate corrosion assessment see page 4.

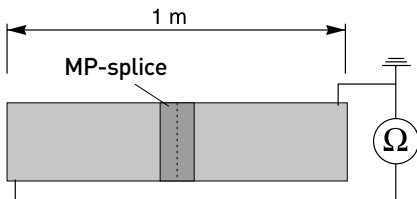
## Paint

Painting is carried out on galvanised trays (20  $\mu\text{m}$ ). Standard colour is white and black. Other colours and gloss finishes quoted on request, state colour using NCS number.

Painted trays are supplied as standard with internal paint-free ends, which solves the equipotential bonding between the trays without additional measures. NB! When joining cut trays without paintfree ends, the equipotential bonding must be made with a cable connection that is screwed between the paint-free surfaces.

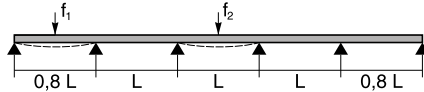
## Equipotential bonding

SP Technical Research Institute of Sweden in Borås has made test measurements equivalent to SS-EN 61537:2007. All MP-cable tray met the demands without additional measures such as screws or locking clips. The resistance value was between about 1 mW for 50 mm wide trays to about 0.5 mW for 600 mm wide trays.



## Loads

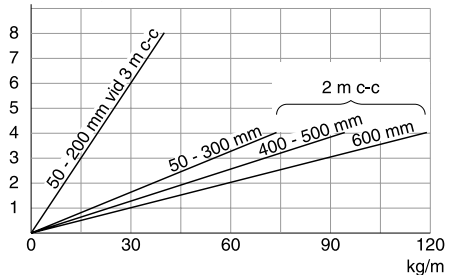
The diagram applies for an inner compartment f2 i.e. all compartments except the outermost. To get the same deflection in the outer compartments f1, the cantilever arm spacing should be 80% of an inner compartment. The diagram shows the deflection in



mm at  $L=2\text{ m}$  and  $L=3\text{ m}$  cantilever arm spacing and suspension at the joint. Ultimate failure load:  $\geq 1.7$  times the load.

In order to get a comprehensive picture of the load possibility, even the load of values of the fastenings must be taken into consideration.

Deflection in mm cantilever arm spacing 2-3 m

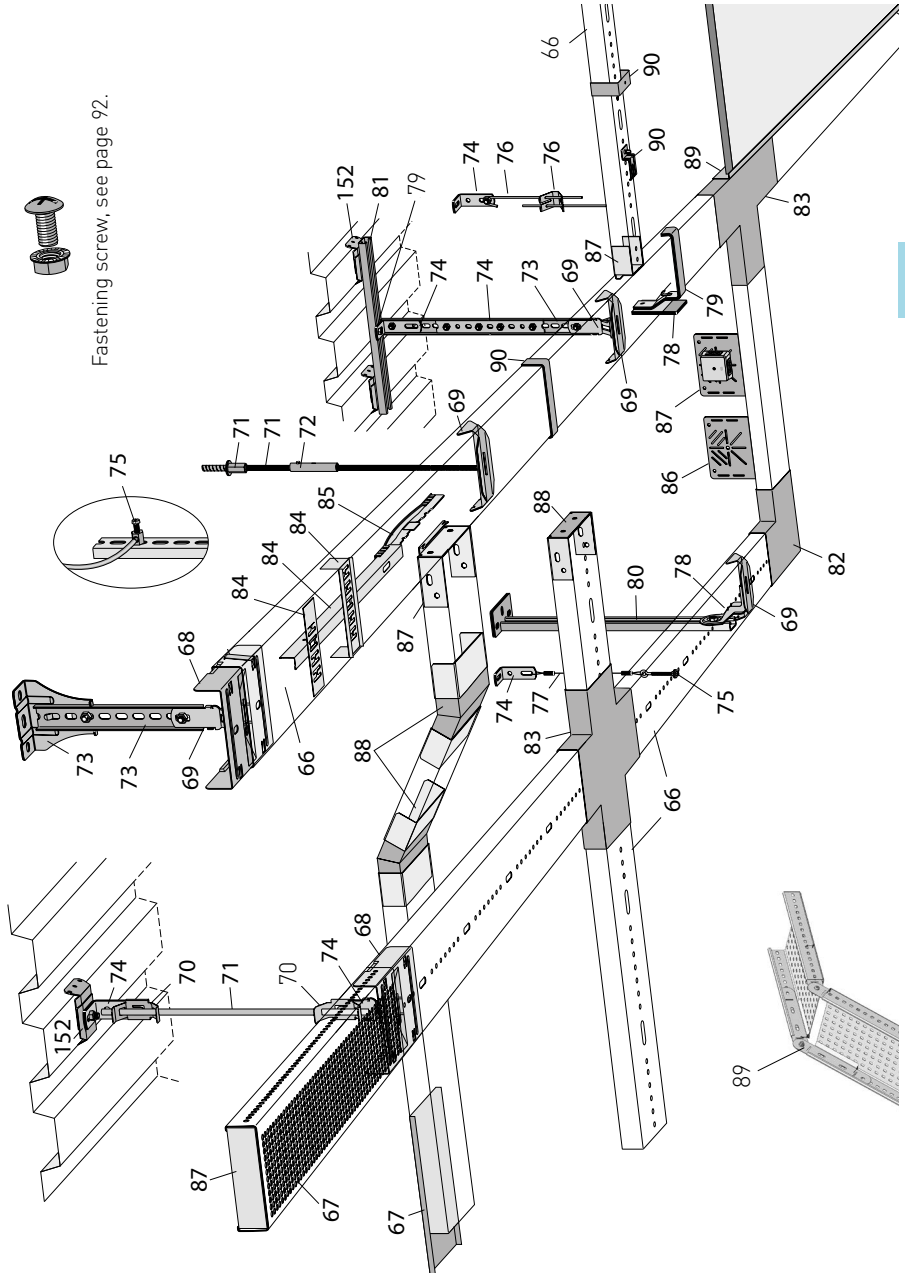


## Note!

Sendzimir galvanising is a corrosion protection and variations in shade/appearance may occur.

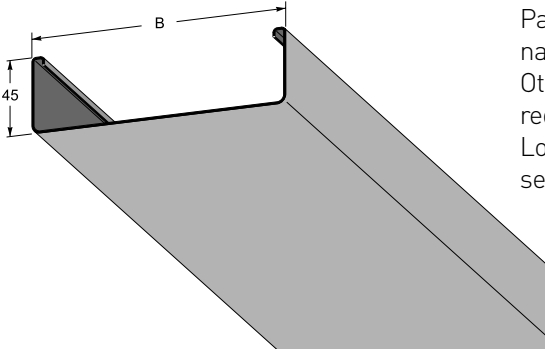
## Cable trays/luminaire rails

Numbers denote page number.



# Cable trays

## Unperforated cable tray



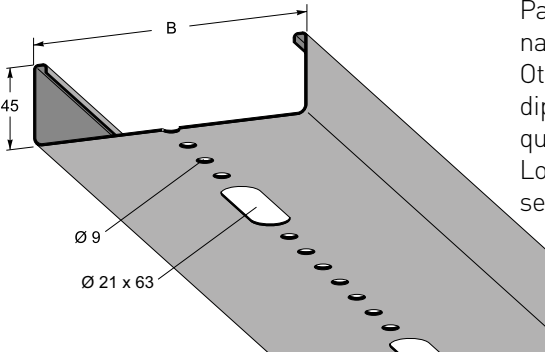
Painted trays are supplied with internally paint-free ends.

Other lengths and colours quoted on request.

Loading and equipotential bonding – see page 64.

B	Zinc 20 µm	E-no	White	E-no	Black	E-no	L	Thickn.
50	MP-390 S	11 170 13	MP-390 V	11 170 14			3 m	1,0
75	MP-310 S	11 170 07	MP-310 V	11 170 08			3 m	1,0
100	MP-320 S	11 170 18	MP-320 V	11 170 19	MP-320 SV	11 170 44	3 m	1,0
150	MP-330 S	11 170 20	MP-330 V	11 170 21			3 m	1,0
200	MP-340 S	11 170 24	MP-340 V	11 170 25	MP-340 SV	11 170 45	3 m	1,0
300	MP-350 S	11 170 30	MP-350 V	11 170 31	MP-350 SV	11 170 46	2 m	1,0
400	MP-360 S	11 170 34	MP-360 V	11 170 35	MP-360 SV	11 170 47	2 m	1,25
500	MP-370 S	11 170 38	MP-370 V	11 170 39			2 m	1,25
600	MP-380 S	11 170 40	MP-380 V	11 170 41	MP-380 SV	11 170 49	2 m	1,5

## Luminaire rail



Painted rails are supplied with internally paint-free ends.

Other lengths and colours and hot-dip galvanized rails quoted on request.

Loading and equipotential bonding – see page 64.

*The hole pattern is tailored to the most common 3- and 5-pole snap-in connectors.*

B	Zinc 20 µm	E-no	White	E-no	Z4/Black	E-no	L	Thickn.
50	MP-391 S	11 170 55	MP-391 V	11 170 56			3 m	1,0
50	MP-391 S6	11 170 50					6 m	1,0
75	MP-311 S	11 170 61	MP-311 V	11 170 62	MP-311 Z4	11 170 63	3 m	1,0
75					MP-311 SV	11 170 73	3 m	1,0
75	MP-311 S6	11 170 59					6 m	1,0
100	MP-321 S	11 170 65	MP-321 V	11 170 66	MP-321 SV	11 170 74	3 m	1,0
100	MP-321 S6	11 170 67					6 m	1,0
150	MP-331 S	11 170 71	MP-331 V	11 170 72			3 m	1,0
200	MP-341 S	11 170 77	MP-341 V	11 170 78			3 m	1,0

The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

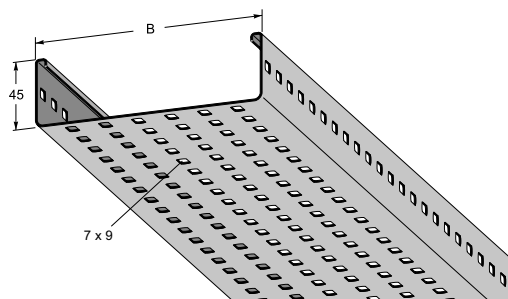
A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.

## Perforated cable tray

Painted trays are supplied with internally paint-free ends.

Other lengths and colours quoted on request. Perforation ~ 13 %.

Loading and equipotential bonding – see page 64.

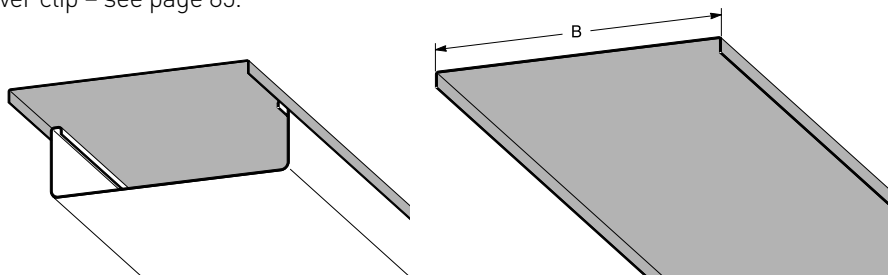


B	Zinc 20 µm	E-no	White	E-no	Length	Thickn.
50	MP-3931 S	11 170 79	MP-3931 V	11 170 80	3 m	1,0
75	MP-3131 S	11 170 81	MP-3131 V	11 170 82	3 m	1,0
100	MP-3231 S	11 170 83	MP-3231 V	11 170 84	3 m	1,0
150	MP-3331 S	11 170 85	MP-3331 V	11 170 86	3 m	1,0
200	MP-3431 S	11 170 87	MP-3431 V	11 170 88	3 m	1,0
300	MP-3531 S	11 170 89	MP-3531 V	11 170 90	2 m	1,0
400	MP-3631 S	11 170 91	MP-3631 V	11 170 92	2 m	1,25
500	MP-3731 S	11 170 93	MP-3731 V	11 170 94	2 m	1,25
600	MP-3831 S	11 171 04	MP-3831 V	11 171 05	2 m	1,5

## Cover

The cover is pressed onto the outside of the tray without tools.

Cover clip – see page 85.



B	Zinc 20 µm	E-no	White	E-no	Z4	E-no	L	Thickn.
50	MP-490 S	11 171 59	MP-490 V	11 171 60	MP-490 Z4	-	3 m	0,6
75	MP-410 S	11 171 61	MP-410 V	11 171 62	MP-410 Z4	11 171 65	3 m	0,6
100	MP-420 S	11 171 69	MP-420 V	11 171 70	MP-420 Z4	-	3 m	0,6
150	MP-430 S	11 171 75	MP-430 V	11 171 76	MP-430 Z4	-	3 m	0,6
200	MP-440 S	11 171 79	MP-440 V	11 171 80	MP-440 Z4	11 171 78	3 m	0,6
300	MP-450 S	11 171 97	MP-450 V	11 171 98	MP-450 Z4	11 172 15	2 m	0,6
400	MP-460 S	11 172 00	MP-460 V	11 172 01	MP-460 Z4	11 172 16	2 m	1,0
500	MP-470 S	11 172 03	MP-470 V	11 172 04	MP-470 Z4	11 172 19	2 m	1,0
600	MP-480 S	11 171 95	MP-480 V	11 171 96	MP-480 Z4	11 172 20	2 m	1,0

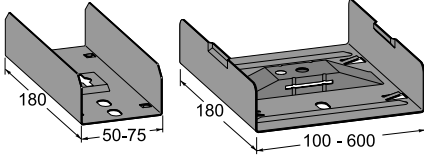
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

NCS 2502-Y  
RAL 9005

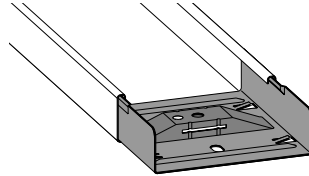
# Cable trays

## Splice bearing

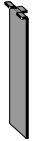


The splice has an integrated support yoke. 50-75 mm has an integrated friction lock. Max load for support yoke in splice = 150 kg evenly distributed load. Ultimate failure load:  $\geq 1.7$  times the maximum load.

B	Zinc 20 $\mu\text{m}$	E-no	Z4	E-no
50	MP-396 S	11 176 10		
75	MP-314 S	11 175 97	MP-314 Z4	11 175 98
100	MP-324 S	11 176 01		
150	MP-334 S	11 176 03		
200	MP-344 S	11 176 07		
300	MP-354 S	11 176 13		
400	MP-364 S	11 176 15		
500	MP-374 S	11 176 19		
600	MP-384 S	11 176 21		

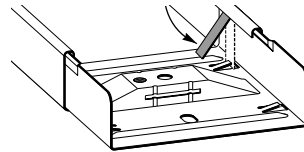


## Lock clips



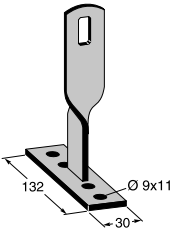
Lock clips used for locking the splice in tray widths 100-600 mm (4 pcs/splice). Supplied 4 pcs./set

Set	Zinc 20 $\mu\text{m}$	E-no
1	MP-906 S	11 176 40
25	MP-906 S2	11 176 39

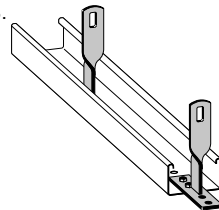


## Splice/suspension

Used as a splice/suspension for hot-dip galvanized luminaire rails.

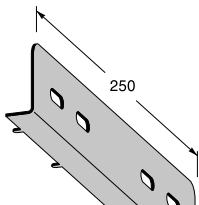


Zinc 60 $\mu\text{m}$	E-no
MP-933 Z	11 173 94

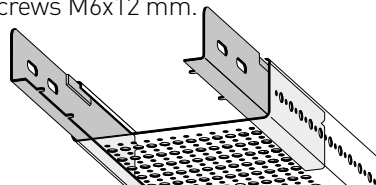


## Side splice

The splice is snapped into position. Can be reinforced with screws M6x12 mm.



Zinc 20 $\mu\text{m}$	E-no
MP-908 S	11 176 43



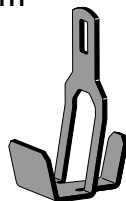
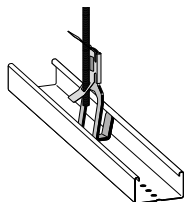
The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10  $\mu\text{m}$   
 S = Zinc 20  $\mu\text{m}$   
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20  $\mu\text{m}$  (AZ 150)  
 Z4 = Zinc/mag. 25  $\mu\text{m}$  (ZM 310)  
 R = Acid resist.

## Support yoke for luminaire rail 75 mm

The luminaire rail is pushed on the support yoke from underneath.

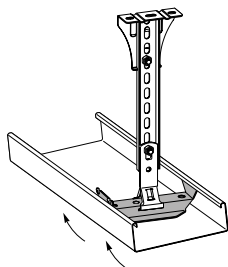
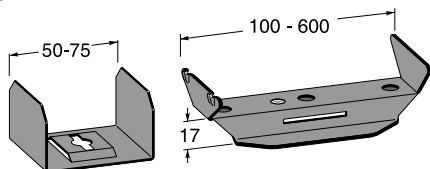


Zinc 20 µm	E-no	White	E-no
MP-515 S	11 173 99	MP-515 V	11 174 00

## Support yoke

Note! Support yoke 50-75 mm slid in from the tray end and can only be used for centre suspension.

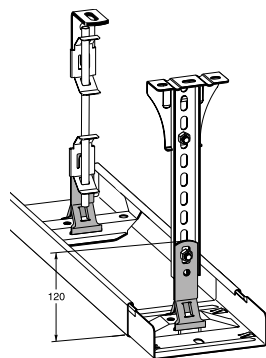
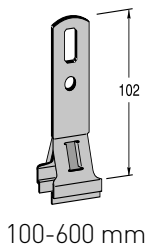
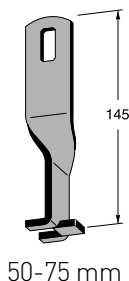
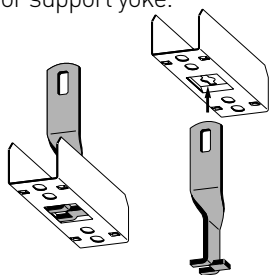
Max load for support yoke = 150 kg evenly distributed load. Ultimate failure load:  $\geq 1.7$  times the maximum load.



B	Zinc 20 µm	E-no	Z4	E-no
50	MP-596 S	11 174 51		
75	MP-516 S	11 174 53	MP-516 Z4	11 174 54
100	MP-526 S	11 174 55		
150	MP-536 S	11 174 59		
200	MP-546 S	11 174 63		
300	MP-556 S	11 174 67		
400	MP-566 S	11 174 71		
500	MP-576 S	11 174 75		
600	MP-586 S	11 174 79		

## Pendant bracket

Pendant bracket for installation in splice or support yoke.



Width	Zinc 20 µm	E-no	White/Black	E-no	Zinc 60 µm	E-no
50-75	MP-932 E	11 173 91	MP-932 V	11 173 92	MP-932 Z	11 173 93
50-75			MP-932 SV	11 173 86		
100-600	MP-931 S	11 173 87	MP-931 V	11 173 88		
100-600			MP-931 SV	11 173 85		

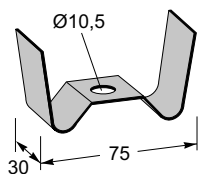
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

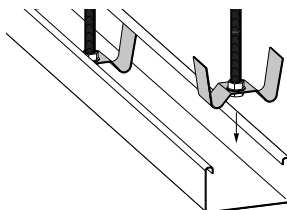
NCS 2502-Y  
RAL 9005

# Cable trays

## Support yoke 75 mm

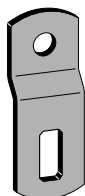


Max load for support yoke = 150 kg evenly distributed load. Ultimate failure load:  $\geq 1.7$  times the maximum load.  
Nuts – see page 107.



Zinc 20 µm	E-no
MP-517 S	11 173 98

## Adapter – threaded rod bracket

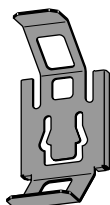


For installation of the threaded rod or pendant rail in sloping ceilings. Combined with angle the threaded rod bracket.



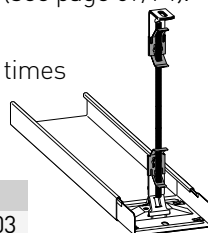
Zinc 60 µm	E-no	White	E-no
MP-902 Z	11 175 10	MP-902 V	11 175 11

## Threaded rod bracket



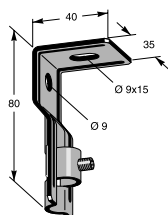
The threaded rod bracket is pressed on angle bracket/- pendant bracket (see page 69/74).

Maximum load: 125 kg  
Ultimate failure load:  $\geq 1.7$  times the maximum load.



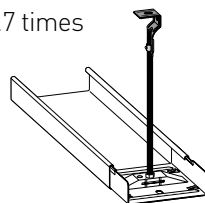
Zinc 10 µm	E-no	White	E-no	Black	E-no
MP-925 E	11 175 01	MP-925 V	11 175 02	MP-925 SV	11 175 03

## Ceiling bracket



Use a 3 mm hex key for the locking screw.

Maximum load: 75 kg  
Ultimate failure load:  $\geq 1.7$  times the maximum load.



Zinc 20 µm	E-no	White	E-no
MP-920 S	11 175 51	MP-920 V	11 175 52

The letter in the MP No. denotes the surface finish according to: (also see page 4)

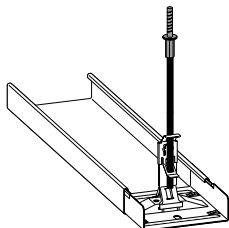
E = Electrogalv. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.



## Ceiling bracket for threaded rod M8/M10

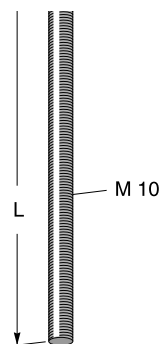
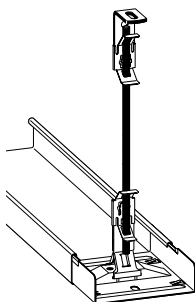
Ceiling bracket intended for fastening threaded rod M8 or M10 in concrete. Drill a  $\varnothing 6 \times 65$  mm hole in the substrate, screw the ceiling bracket in the hole. In uncracked concrete K25 the pull-out force is 400 kg with three-fold safety.



B	Pack.	Zinc 10 $\mu\text{m}$	E-no
7,5x55	40 pcs	MP-023 E	11 175 50

## Threaded rod M10

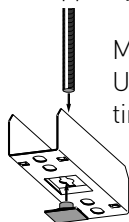
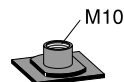
In order to get an adjustment of  $\pm 25$  mm in combination with the threaded rod bracket, cut the pendant as follows:  
 50-75 mm 90 mm shorter than the required inset height.  
 100-600 mm 50 mm shorter than the required inset height.



L	Zinc 10 $\mu\text{m}$	E-no	White/Black	E-no
2000	MP-927 E	11 175 55	MP-927 V	11 175 56
3000	MP-928 E	11 175 57	MP-928 V	11 175 58
3000			MP-928 SV	11 175 64

## Threaded rod nut

Used together with galvanized threaded rod in widths 50-75 mm.  
 For widths 100-600 mm, use counter nuts directly on the splice/support yoke.



Maximum load: 125 kg  
 Ultimate failure load:  $\geq 1.7$  times the maximum load.

Zinc 10 $\mu\text{m}$	E-no
MP-929 E	11 173 97

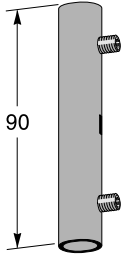
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
 B = Beige  
 SV = Black  
 NCS 2502-Y  
 RAL 9005

# Cable trays

## Pipe joint

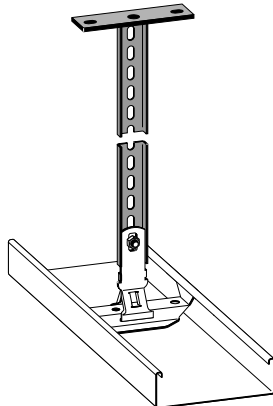
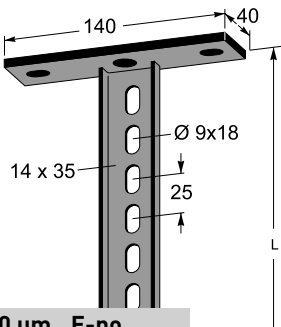
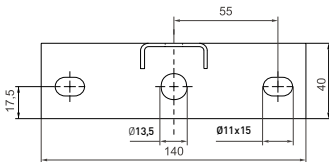
For splicing threaded rods. The joint is locked using a 3 mm set screw.



Zinc 10 µm	E-no	White	E-no
MP-926 E	11 175 21	MP-926 V	11 175 22

## Ceiling pendant type MP-P

If more powerful pendants are required, use ceiling pendant type MP-V - see page 80.



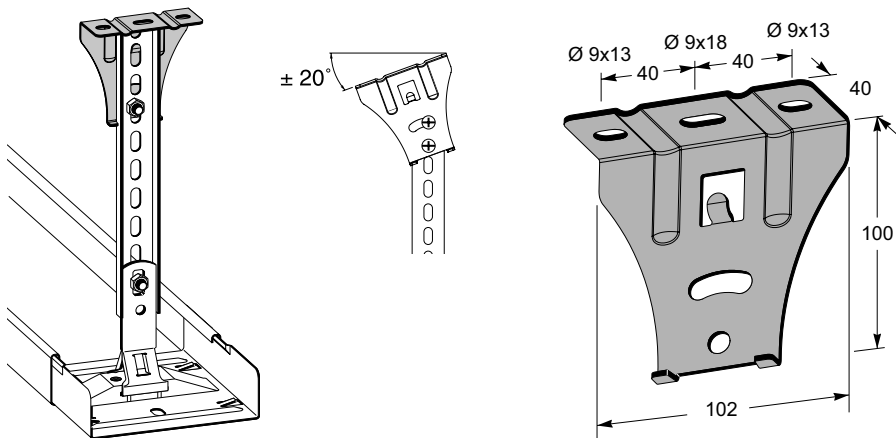
L	Zinc 60 µm	E-no
300	MP-957 Z	11 157 04
400	MP-958 Z	11 157 06
500	MP-959 Z	11 157 08
700	MP-960 Z	11 157 10
1 000	MP-961 Z	11 157 12

The letter in the MP No. denotes the surface finish according to: (also see page 4)

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S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

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R = Acid resist.

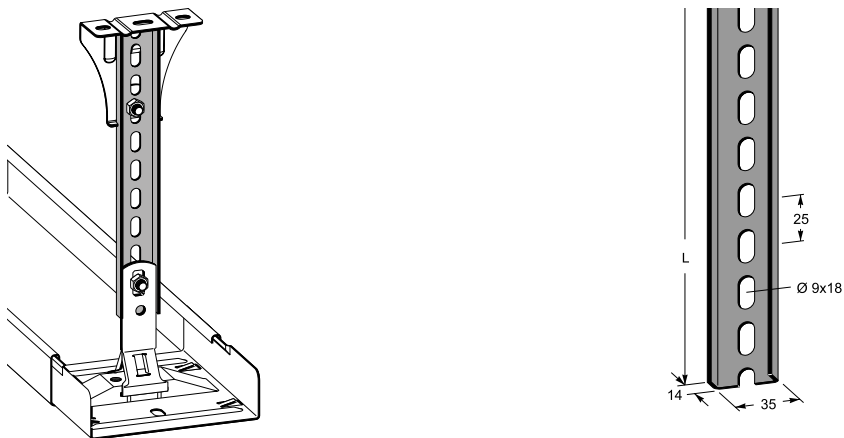
## Ceiling bracket type TL for pendant rail



Zinc 20 µm	E-no	White	E-no	Black	E-no
MP-904 S	11 153 46	MP-904 V	11 153 48	MP-904 SV	11 153 51

## Pendant rail

The rail is equipped with cutting marks c-c 100 mm.



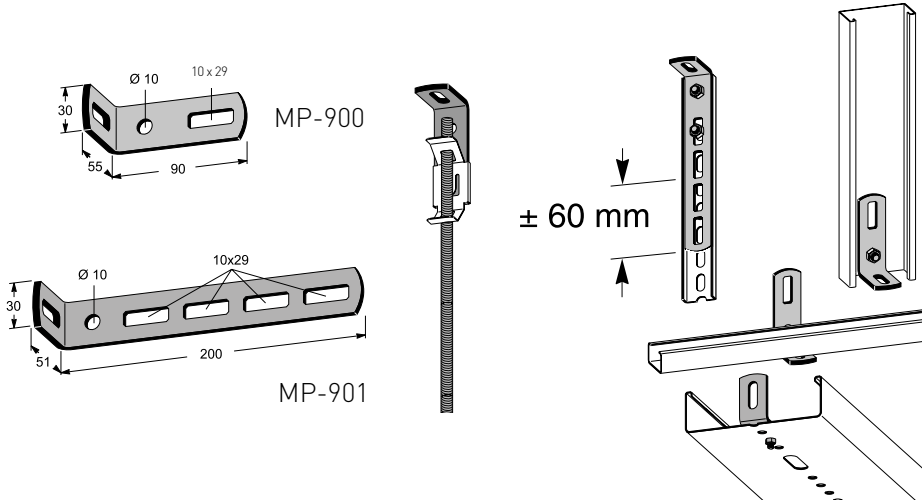
L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	White/Black	E-no
300	MP-911 S	11 153 26	MP-911 Z	11 153 27	MP-911 V	11 153 28
500	MP-912 S	11 153 32	MP-912 Z	11 153 33	MP-912 V	11 153 34
3000	MP-910 S	11 153 38	MP-910 Z4	11 153 36	MP-910 V	11 153 40
3000					MP-910 SV	11 153 30

The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
 B = Beige NCS 2502-Y  
 SV = Black RAL 9005

# Cable trays

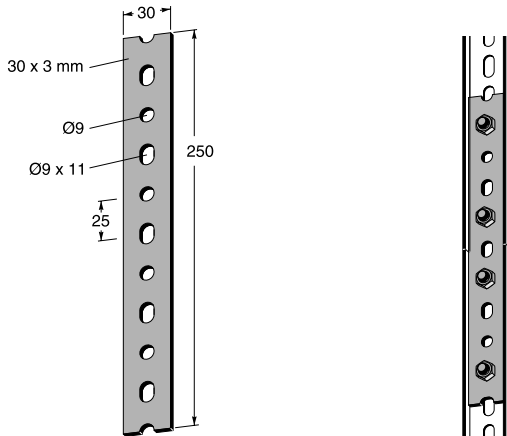
## Angle bracket



Zinc 10 µm	E-no	Zinc 60 µm	E-no	White	E-no	Black	E-no
MP-900 E	11 153 84	MP-900 Z	11 153 85	MP-900 V	11 153 86	MP-900 SV	11 153 91
		MP-901 Z	11 153 81	MP-901 V	11 153 82		

## Splice for pendant rail

The splice fits in the pendant rail's fold.



Zinc 60 µm	E-no	White	E-no
MP-919 Z	11 153 11	MP-919 V	11 153 12

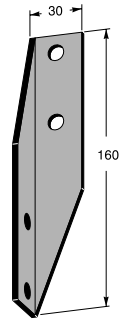
74 The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
 S = Zinc 20 µm  
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
 Z4 = Zinc/mag. 25 µm (ZM 310)  
 R = Acid resist.

## Pendant bracket

The pendant angle piece is used when you need to turn the pendant rail 90°, for example, to install accessories.

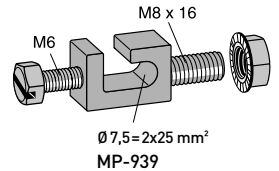
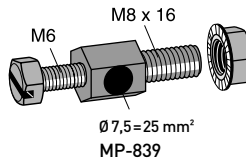
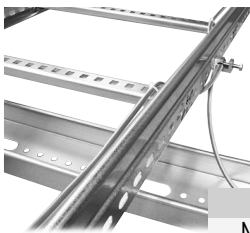


Zinc 60 µm E-no	White E-no
MP-918 Z 11 153 23	MP-918 V 11 153 24

## Potential connection screw

Connect the conductor directly to the potential connection screw, without a cable lug.

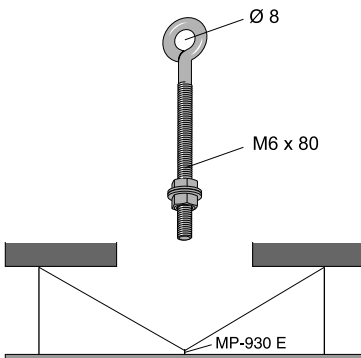
10 per package.



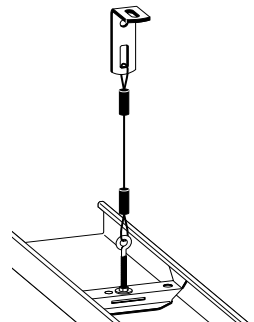
Dim	Zinc 10 µm E-no	Acid resist. E-no
M8 x 16	MP-839 E 11 157 88	MP-839 R 11 157 89
M8 x 16	MP-939 E 11 157 83	MP-939 R 11 157 85

## Eyebolt

The eyebolt should not be used as a single pendant for tray widths over 150 mm.



An example of offloading with wire where standard pendant suspension cannot be used.



Zinc 10 µm E-no
MP-930 E 11 174 11

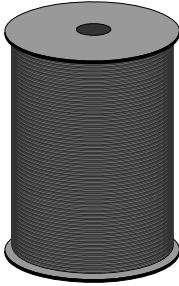
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

NCS 2502-Y  
RAL 9005

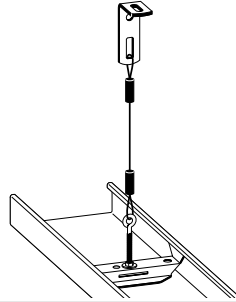
# Cable trays

## Wire



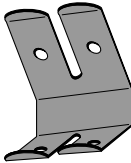
A "terminal block" can be used to lock the wire. Maximum load 125 kg,  $\geq 1.7$  times the maximum load.

Wire  $\varnothing$  2 mm.  
Length 100 m.



<b>Zinc 10 <math>\mu</math>m</b>	<b>E-no</b>
MP-770 E	11 185 00

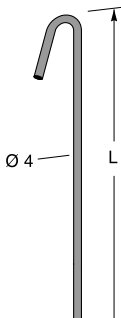
## Wire pendant lock



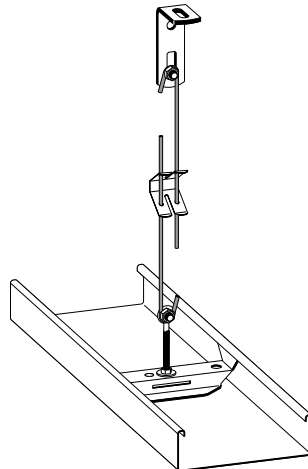
<b>Zinc 20 <math>\mu</math>m</b>	<b>E-no</b>
MP-710 S	11 185 02



## Wire pendant



L	Zinc 20 $\mu$ m	E-no
300	MP-712 S	11 185 24
500	MP-713 S	11 185 26
1000	MP-714 S	11 185 28
2000	MP-715 S	11 185 30



The letter in the MP No.denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10  $\mu$ m  
S = Zinc 20  $\mu$ m  
Z = Zinc SS-EN ISO1461

A = Aluzinc 20  $\mu$ m (AZ 150)  
Z4 = Zinc/mag. 25  $\mu$ m (ZM 310)  
R = Acid resist.

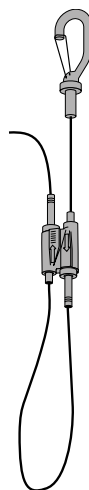
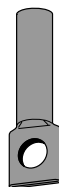
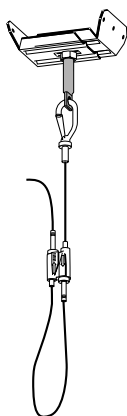
## Wire pendant 2 mm

Wire with quick lock, Ø2 mm.  
Maximum load 125 kg,  $\geq 1.7$  times the maximum load.

Eyebush M8x50

For wire suspension in concrete or sheet-metal roofs. (See page 155 for concrete screws and page 152 for sheet-metal roof brackets.)

10 per package.



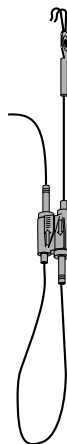
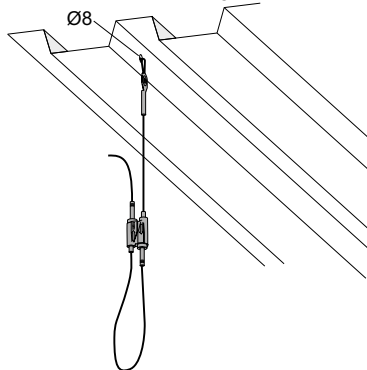
L	Zinc 20 µm	E-no
1000	MP-701 E	11 185 31
2000	MP-702 E	11 185 32
3000	MP-703 E	11 185 33
5000	MP-705 E	11 185 34
Eye bush	MP-706 E	11 185 35

## Wire pendant with hook 2 mm

Wire (Ø 2 mm) with quick lock and hook for attaching directly in sheet-metal roofs, holes Ø 8 mm.

The hook is snapped into the hole and locks without additional action.

Maximum load 125 kg,  $\geq 1.7$  times the maximum load.



L	Zinc 10 µm	E-no
3000	MP-707 E	11 185 36
5000	MP-708 E	11 185 37

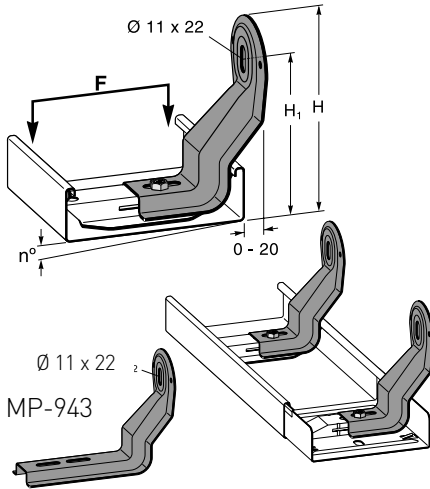
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

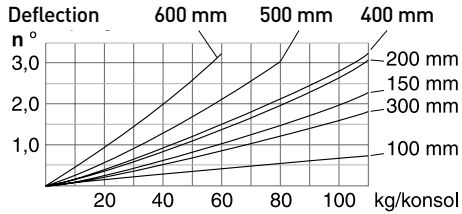
NCS 2502-Y  
RAL 9005

# Cable trays

## Internal support cantilever arm



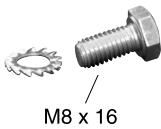
Fitted in the splice or support yoke with bolt MP-941 E, see below.  
The diagram shows the deflection (n°) in degrees for an evenly distributed load F (kg) on the cantilever arm.



Ultimate failure load:  $\geq 1.7$  times the maximum load.

B	H	H1	Zinc 20 $\mu\text{m}$	E-no	White	E-no	Black	E-no
100-200	155	120	MP-942 S	11 172 05	MP-942 V	11 172 06	MP-942 SV	11 172 08
300-600	180	144	MP-943 S	11 172 09	MP-943 V	11 172 10	MP-943 SV	11 172 12

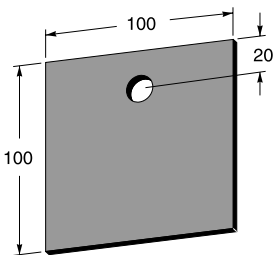
## Bolt



Bolt including lock washer for installing the internal cantilever arm in the splice or yoke.

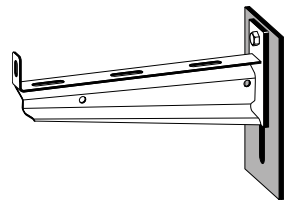
Zinc 10 $\mu\text{m}$	E-no
MP-941 E	11 157 13

## Backing plate



The backing plate is used to distribute the surface pressure of a cantilever arm on walls with a porous surface material.

Plate thickness = 5 mm.



Zinc 60 $\mu\text{m}$	E-no	White	E-no
MP-962 Z	11 172 80	MP-962 V	11 172 81

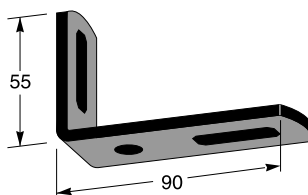
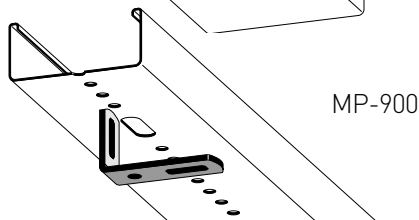
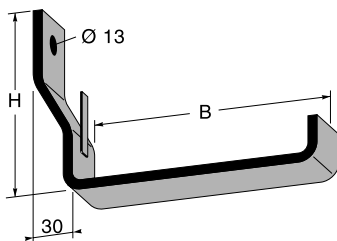
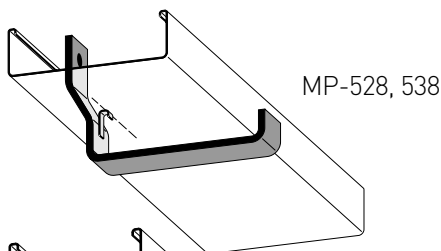
The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10  $\mu\text{m}$   
S = Zinc 20  $\mu\text{m}$   
Z = Zinc SS-EN ISO1461

A = Aluzinc 20  $\mu\text{m}$  (AZ 150)  
Z4 = Zinc/mag. 25  $\mu\text{m}$  (ZM 310)  
R = Acid resist.



## External cantilever arm



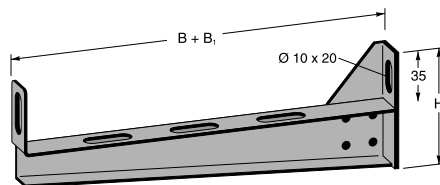
B	H	Max. load	Zinc 60 µm	E-no	White/Black	E-no
100	125	40 kg	MP-528 Z	11 172 57	MP-528 V	11 172 58
150	125	50 kg	MP-538 Z	11 172 61	MP-538 V	11 172 62
			MP-900 Z	11 153 85	MP-900 V	11 153 86
					MP-900 SV	11 153 91

## External cantilever arm

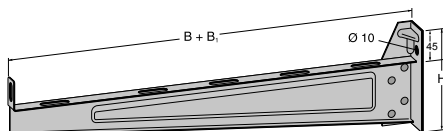
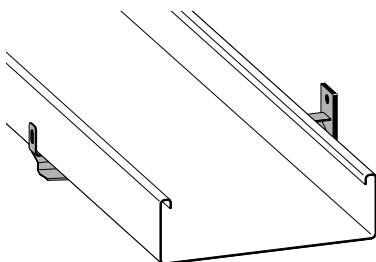
Cantilever arm designed for greater loads.

Maximum load = 150 kg.

Ultimate failure load:  $\geq 1.7$  times the maximum load.



MP-753-755



MP-756-762

B	B1	H	Zinc 20 µm	E-no	White	E-no
200	40	80	MP-753 S	11 165 52	MP-753 V	11 165 53
300	40	90	MP-754 S	11 165 61	MP-754 V	11 165 62
400	40	100	MP-755 S	11 165 70	MP-755 V	11 165 71
500	50	150	MP-756 S	11 165 74	MP-756 V	11 165 75
600	50	150	MP-762 S	11 165 80	MP-762 V	11 165 82

The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

NCS 2502-Y  
RAL 9005

# Cable trays

## Ceiling pendant type MP-V

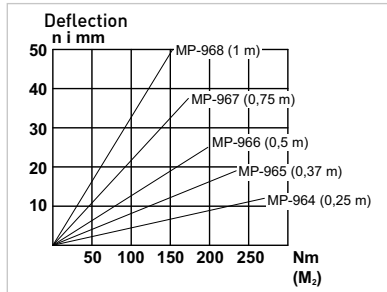
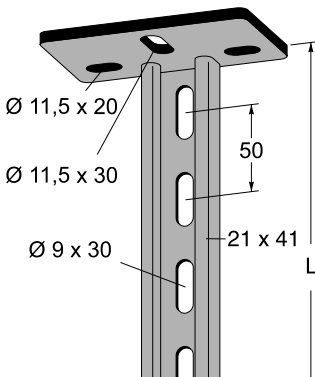
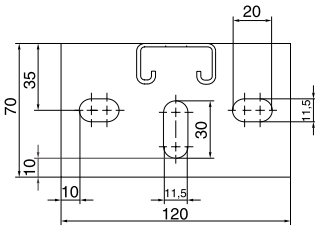
### Heavy-duty ceiling pendants - see pages 30-31.

Deflection ceiling pendant MP-V

In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula  $M_2 = F \times (B+0.12)/2$ .

Read the deflection in the diagram for the selected pendant.

In the diagram, the maximum permitted deflection according to SS-EN 61537 (1/20 of the length) for each pendant for the end of the load curve.

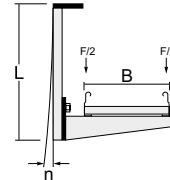


$M_2$  = Bending torque in Nm

F = Load in N

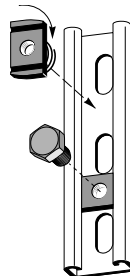
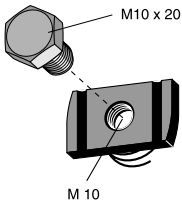
B = Ladder width in m

L	Zinc 60 µm	E-no	White	E-no
250	MP-964 Z	11 157 20	MP-964 V	11 157 21
375	MP-965 Z	11 157 24	MP-965 V	11 157 25
500	MP-966 Z	11 157 28	MP-966 V	11 157 29
750	MP-967 Z	11 157 32	MP-967 V	11 157 33
1000	MP-968 Z	11 157 36	MP-968 V	11 157 37



## Nut washer for ceiling pendant

Nut washer (H = 21) is equipped with a spring that prevents it from slipping out of position.



Zinc 60 µm	E-no
MP-978 Z	11 157 16

The letter in the MP No. denotes the surface finish according to: (also see page 4)

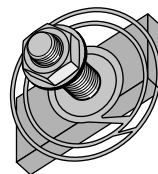
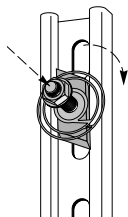
E = Electrogalv. 10 µm  
 S = Zinc 20 µm  
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
 Z4 = Zinc/mag. 25 µm (ZM 310)  
 R = Acid resist.

## T-screw

T-screw for fastening in ceiling pendants/anchor rails. Suitable for profiles with 21 mm and 41 mm height.

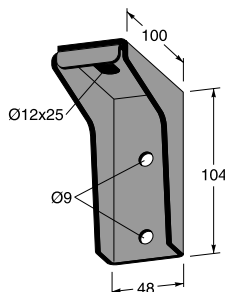
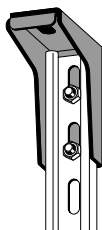
1. Placed in the rail opening.
2. Press the screw.
3. The T screw rotates to the right position.



Size	Zinc 10 µm	E-no
M8 x 25	MP-983 E	11 158 20
M10 x 35	MP-984 E	11 158 22

## Ceiling bracket

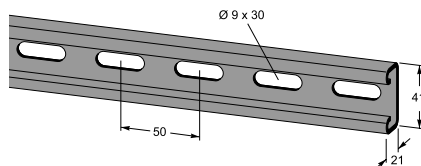
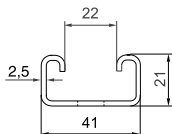
The ceiling bracket is combined with an anchor rail for side-hung tray installation. Choose from ready-cut lengths or cut to the desired length yourself, see below. The installation can handle larger loads than the corresponding ceiling pendant type MP-V - see page 80.



Zinc 20 µm	E-no	White	E-no	Black	E-no
MP-230 S	11 157 97	MP-230 V	11 157 96	MP 230SV	11 153 32

## Anchor rail type MP-V

A T-bolt or nut washer H = 21 mm is used when fastening to a rail.



L	Zinc 20 µm	E-no	White/Black	E-no
250	MP-024 S	11 158 39	MP-024 V	11 158 38
375	MP-025 S	11 158 43	MP-025 V	11 158 42
500	MP-026 S	11 158 47	MP-026 V	11 158 46
750	MP-027 S	11 158 51	MP-027 V	11 158 50
1000	MP-028 S	11 158 55	MP-028 V	11 158 54
3000	MP-231 S	11 158 02	MP-231 V	11 158 01
3000			MP-231 SV	11 158 11

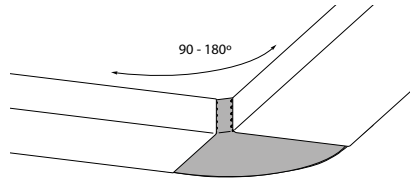
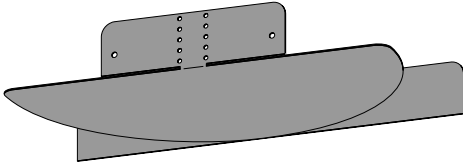
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black  
NCS 2502-Y  
RAL 9005

# Cable trays

## Adjustable hook

Adjustable hook for all tray types.

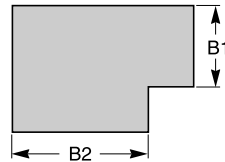
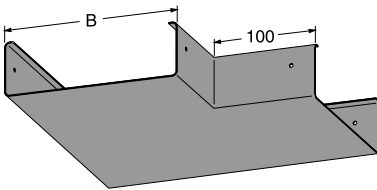


B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-493 S	11 193 00	MP-493 V	11 193 01		
75	MP-413 S	11 193 02	MP-413 V	11 193 03	MP-413 SV	11 193 06
100	MP-423 S	11 193 04	MP-423 V	11 193 05	MP-423 SV	11 193 07
150	MP-433 S	11 193 08	MP-433 V	11 193 09		
200	MP-443 S	11 193 12	MP-443 V	11 193 13	MP-443 SV	11 193 14
300	MP-453 S	11 193 16	MP-453 V	11 193 17	MP-453 SV	11 193 18
400	MP-463 S	11 193 20	MP-463 V	11 193 21	MP-463 SV	11 193 22
500	MP-473 S	11 193 24	MP-473 V	11 193 25		
600	MP-483 S	11 193 28	MP-483 V	11 193 29	MP-483 SV	11 193 30

## Flat elbow

The junction is also an external splice, which conceals the unpainted edges of cut trays.

Non-uniform flat elbows are quoted on request (specify size when viewed from above).



B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-497 S	11 192 00	MP-497 V	11 192 01		
75	MP-417 S	11 179 45	MP-417 V	11 179 46	MP-417 SV	11 179 47
100	MP-427 S	11 192 04	MP-427 V	11 192 05	MP-427 SV	11 192 06
150	MP-437 S	11 192 08	MP-437 V	11 192 09		
200	MP-447 S	11 192 12	MP-447 V	11 192 13	MP-447 SV	11 192 14
300	MP-457 S	11 192 16	MP-457 V	11 192 17	MP-457 SV	11 192 18
400	MP-467 S	11 192 20	MP-467 V	11 192 21	MP-467 SV	11 192 22
500	MP-477 S	11 192 24	MP-477 V	11 192 25		
600	MP-487 S	11 192 26	MP-487 V	11 192 27	MP-487 SV	11 192 23

The letter in the MP No. denotes the surface finish according to: (also see page 4)

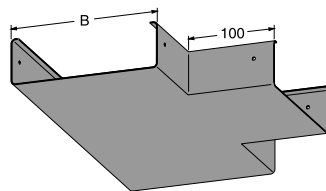
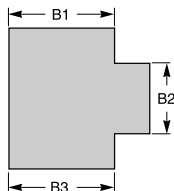
E = Electrogalv. 10 µm  
 S = Zinc 20 µm  
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
 Z4 = Zinc/mag. 25 µm (ZM 310)  
 R = Acid resist.

## Tee piece

The junction is also an external splice, which conceals the unpainted edges of cut trays. A simple form of Tee piece can be made using an end hook - see page 87.

Non-uniform Tee pieces are quoted on request (specify size when viewed from above).

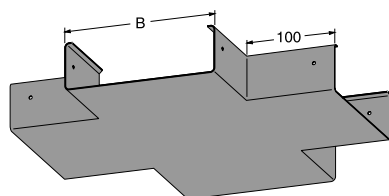
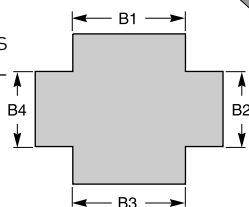


B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-498 S	11 192 28	MP-498 V	11 192 29		
75	MP-418 S	11 179 05	MP-418 V	11 179 06	MP-418 SV	11 179 09
100	MP-428 S	11 192 32	MP-428 V	11 192 33	MP-428 SV	11 192 34
150	MP-438 S	11 192 36	MP-438 V	11 192 37		
200	MP-448 S	11 192 40	MP-448 V	11 192 41	MP-448 SV	11 192 42
300	MP-458 S	11 192 44	MP-458 V	11 192 45	MP-458 SV	11 192 46
400	MP-468 S	11 192 48	MP-468 V	11 192 49	MP-468 SV	11 192 50
500	MP-478 S	11 192 52	MP-478 V	11 192 53		
600	MP-488 S	11 192 54	MP-488 V	11 192 55	MP-488 SV	11 192 51

## Cross piece

The junction is also an external splice, which conceals the unpainted edges of cut trays. A simple form of cross piece can be made using an end hook - see page 87.

Non-uniform cross pieces are quoted on request (specify size when viewed from above).



B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-499 S	11 192 56	MP-499 V	11 192 57		
75	MP-419 S	11 180 05	MP-419 V	11 180 06	MP-419 SV	11 180 07
100	MP-429 S	11 192 60	MP-429 V	11 192 61	MP-429 SV	11 192 62
150	MP-439 S	11 192 64	MP-439 V	11 192 65		
200	MP-449 S	11 192 68	MP-449 V	11 192 69	MP-449 SV	11 192 70
300	MP-459 S	11 192 72	MP-459 V	11 192 73	MP-459 SV	11 192 74
400	MP-469 S	11 192 76	MP-469 V	11 192 77	MP-469 SV	11 192 78
500	MP-479 S	11 192 80	MP-479 V	11 192 81		
600	MP-489 S	11 192 84	MP-489 V	11 192 85	MP-489 SV	11 192 79

The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black  
NCS 2502-Y  
RAL 9005

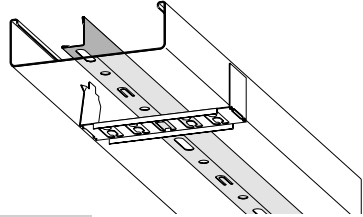
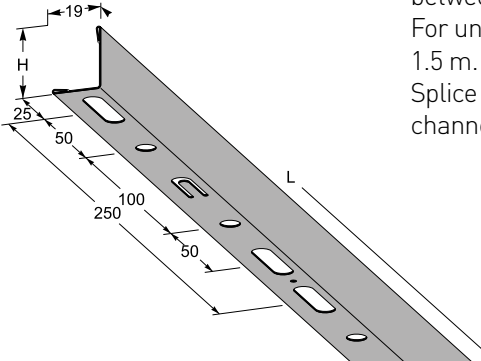
# Cable trays

## Divider

Dividers designed for channel division of the tray are locked by a tie support. Two tie supports are ideal on a divider which sits free between two splices.

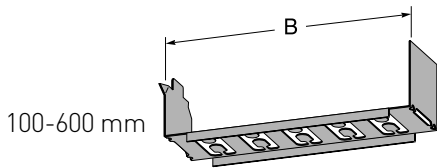
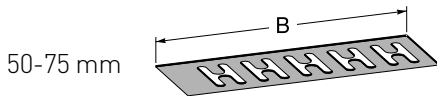
For unbroken sections use one support per 1.5 m.

Splice for a divider gives an uninterrupted channel over the tray's splice/yoke.

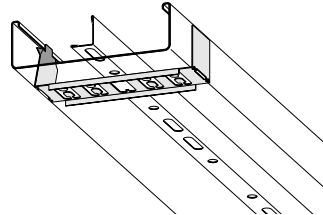


H	L	Zinc 20 µm	E-no	White	E-no
25	1750	MP-127 S	11 184 70		
25	2750	MP-137 S	11 184 72	MP-137 V	11 184 75
40	1750	MP-148 S	11 184 77		
40	2750	MP-149 S	11 184 78		

## Tie support - support for dividers



Support for fastening dividers that snap onto the edge of the tray. Channel widths are designed in increments of 25 mm. The support can also be used to secure cables with cable ties/tie wire.



B	Zinc 20 µm	E-no
50	MP-696 S	11 185 08
75	MP-616 S	11 185 09
100	MP-627 S	11 185 40
150	MP-637 S	11 185 42
200	MP-647 S	11 185 44
300	MP-657 S	11 185 46
400	MP-667 S	11 185 48
500	MP-677 S	11 185 50
600	MP-687 S	11 185 52

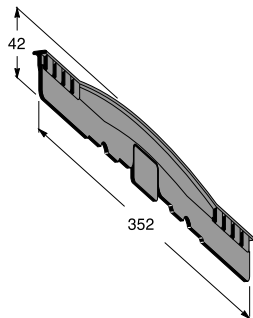
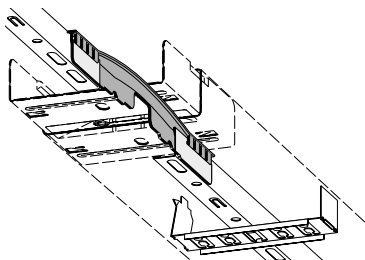
The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogaly. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.

## Splice for divider

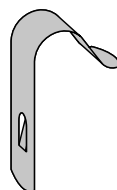
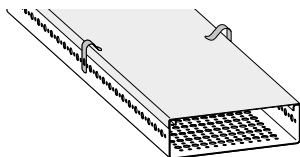
Splice for divider gives an uninterrupted channel over the splice/yoke.



Plastic	E-no
MP-137 P	11 184 73

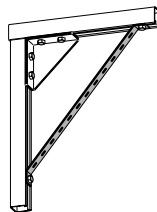
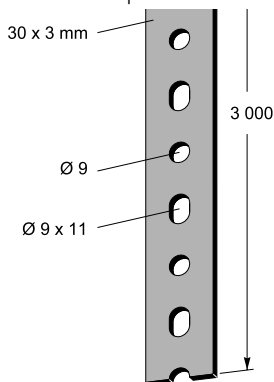
## Cover clip

Cable clip for cable trays and luminaire rails. In solid cable trays and luminaire rails, a  $\text{\O}7$  mm hole is drilled in the centre of the tray side for the clip.



Stainless	E-no
MP-401 R	11 171 50

Bracing strap is cut and knocked into the desired shape.



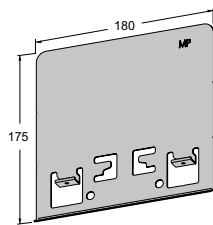
Zinc 60 $\mu\text{m}$	E-no
MP-210 Z	11 157 02

The letter in the MP No. denotes the surface finish according to: (also see page 4)

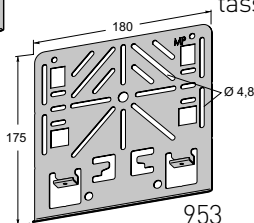
V = White  
 B = Beige  
 SV = Black  
 NCS 2502-Y  
 RAL 9005

# Cable trays

## Mounting plate

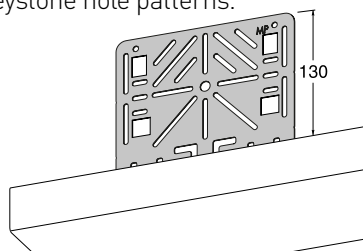


952



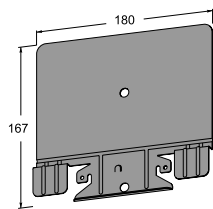
953

Mounting plate that snaps onto the edge of the tray. Used when the suspended ceiling bar is mounted on edge of the tray. The plate also has 2+2 positions for data jacks with Actassi and Keystone hole patterns.

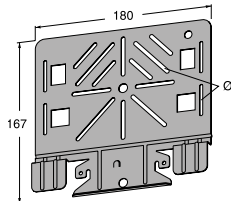


	Zinc 20 µm	E-no	White	E-no	Z4	E-no
Unperf.	MP-952 S	11 183 80	MP-952 V	11 183 81		
Perf.	MP-953 S	11 183 83	MP-953 V	11 183 84	MP-953 Z4	11 183 85

## Mounting plate

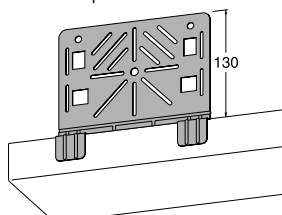


954



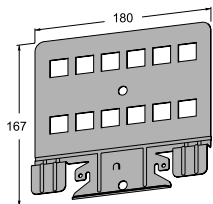
955

Mounting plate with folding tabs that lock under the edge of the tray. The plate also has 2+2 positions for data jacks with Actassi and Keystone hole patterns.



	Zinc 20 µm	E-no	White	E-no	Black	E-no
Unperf.	MP-954 S	11 184 00	MP-954 V	11 184 01		
Perf.	MP-955 S	11 184 02	MP-955 V	11 184 03	MP-955 SV	11 184 04

## Mounting plate for data sockets



MP-954 SK (Keystone)  
 MP-954 SL (Actassi)  
 MP-954 VK (Keystone)  
 MP-954 VL (Actassi)

Zinc 20 µm	E-no	White	E-no
MP-954 SK	11 184 15	MP-954 VK	11 184 16
MP-954 SL	11 184 17	MP-954 VL	11 184 18

The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
 S = Zinc 20 µm  
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
 Z4 = Zinc/mag. 25 µm (ZM 310)  
 R = Acid resist.

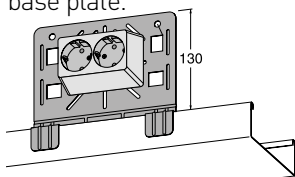
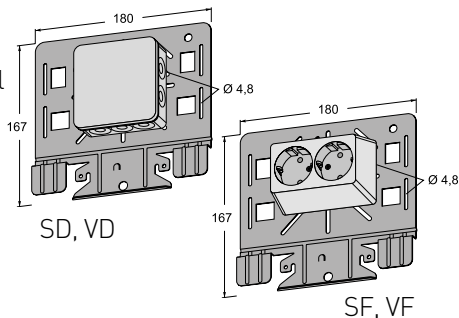


## Mounting plate + junction box IP65/socket outlet IP21

Mounting plate with pre-installed junction box in white halogen-free thermoplastic with ten entries. Supplied without terminal block.

Suitable strain relief - ABB E14 382 73 and terminal block ABB E14 384 01.

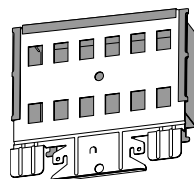
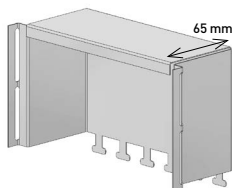
Mounting plate with pre-installed twoway socket outlet in white halogen-free polycarbonate, tamper resistant with base plate.



Zinc 20 µm	E-no	White	E-no
MP-955 SD	11 184 09	MP-955 VD	11 184 10
MP-955 SF	11 184 13	MP-955 VF	11 184 14

## Hood for mounting plate

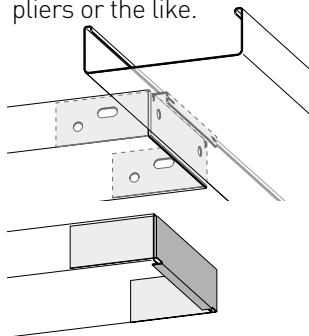
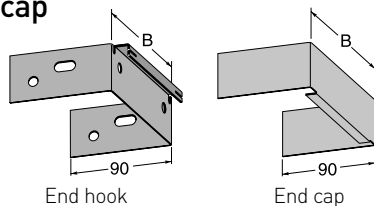
Hood for mounting plate MP-954 - see page 86.



Zinc 20 µm	E-no	White	E-no
MP-956 S	11 183 98	MP-956 V	11 183 99

## End hook/end cap

The end hook has locking tabs that prevent the connecting tray from loosening or tipping. To prevent the end hook from sliding longitudinally, close the hook section with a pair of pliers or the like.



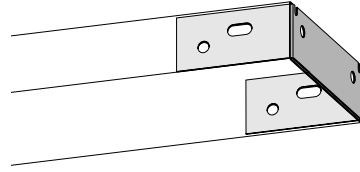
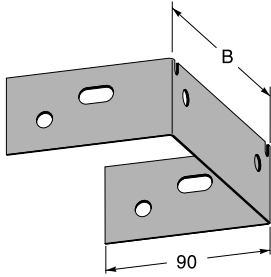
B	End hook		End cap	
	Zinc 20 µm	E-no	White	E-no
50	MP-599 S	11 178 65	MP-592 V	11 179 10
75	MP-519 S	11 178 68	MP-512 V	11 179 12
100	MP-529 S	11 178 71	MP-522 V	11 179 14
150	MP-539 S	11 178 76	MP-532 V	11 179 16
200	MP-549 S	11 178 77	MP-542 V	11 179 18
300	MP-559 S	11 178 78	MP-552 V	11 179 20
400	MP-569 S	11 178 79	MP-562 V	11 179 22
500	MP-579 S	11 178 80	MP-572 V	11 179 24
600	MP-589 S	11 178 93	MP-582 V	11 179 26

The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
 B = Beige  
 SV = Black  
 NCS 2502-Y  
 RAL 9005

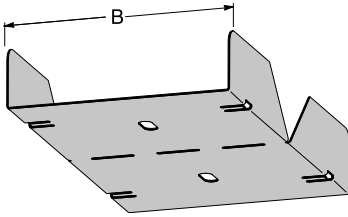
# Cable trays

## End bracket



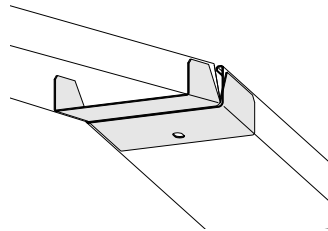
B	Zinc 20 µm	E-no	White	E-no
50	MP-594 S	11 178 81	MP-594 V	11 178 82
75	MP-514 S	11 179 00	MP-514 V	11 179 03
100	MP-524 S	11 178 85	MP-524 V	11 178 86
150	MP-534 S	11 178 87	MP-534 V	11 178 88
200	MP-544 S	11 178 89	MP-544 V	11 178 90
300	MP-554 S	11 178 91	MP-554 V	11 178 92
400	MP-564 S	11 178 94	MP-564 V	11 178 95
500	MP-574 S	11 178 98	MP-574 V	11 178 99
600	MP-584 S	11 179 07	MP-584 V	11 179 08

## Level link



Installed as a splice in the tray. For a 90° - fall use the MP-downward bend.

Option - cut into the side edge of the tray and knock the tray to the desired angle.



B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-398 S	11 177 70	MP-398 V	11 177 71		
75	MP-318 S	11 177 72	MP-318 V	11 177 73	MP-318 SV	11 177 76
100	MP-328 S	11 177 74	MP-328 V	11 177 75	MP-328 SV	11 177 77
150	MP-338 S	11 177 78	MP-338 V	11 177 79		
200	MP-348 S	11 177 82	MP-348 V	11 177 83	MP-348 SV	11 177 84
300	MP-358 S	11 177 86	MP-358 V	11 177 87	MP-358 SV	11 177 88
400	MP-368 S	11 177 90	MP-368 V	11 177 91	MP-368 SV	11 177 92
500	MP-378 S	11 177 94	MP-378 V	11 177 95		
600	MP-388 S	11 177 98	MP-388 V	11 177 99	MP-388 SV	11 178 00

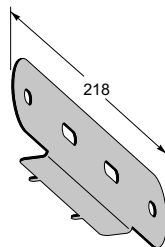
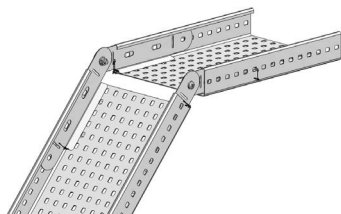
The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.

## Universal link - perforated tray

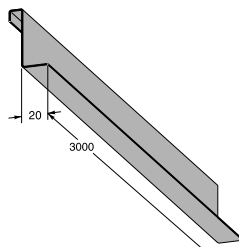
The universal link snaps into place (4 links/splice) and is fitted with a screw M6x12 mm - see page 137.



Zinc 20 µm	E-no
MP-909 S	11 176 45

## Suspended ceiling holder

Profile length = 3 m. Can be used with mounting plate (MP-952 and MP-953, page 86) along with suspended ceiling holder.



Zinc 20 µm	E-no	White	E-no
MP-625 S	11 190 24	MP-625 V	11 190 25

## Reduction piece

Made to order, order according to the table.

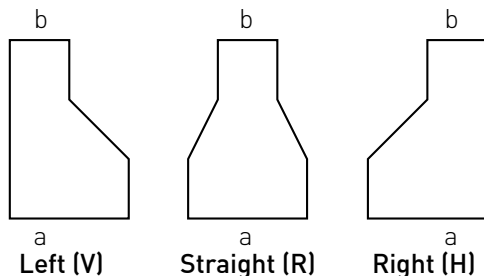
Form	Inside measur.	Outside measur.	Surface finish
V	a	b	S/V
R	a	b	S/V
H	a	b	S/V

E.g.

**V 300-100 S** is a reduction to the left from 300 mm to 100 mm in galvanised finish.

**H 600-200 V** is a reduction to the right from 600 mm to 200 mm in white finish.

### View from above



The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
B = Beige  
SV = Black

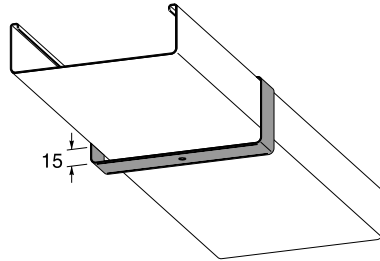
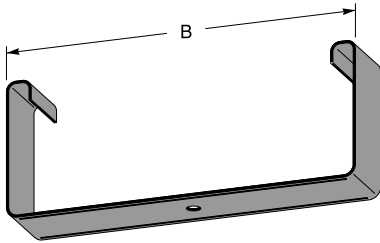
NCS 2502-Y  
RAL 9005

# Cable trays

## Luminaire bracket

The luminaire bracket encloses the entire tray. Luminaires with plugs are then easy to remove.

Bracket for tray widths 300-600 mm are made to order

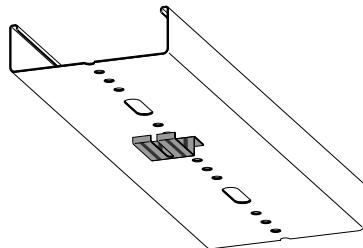
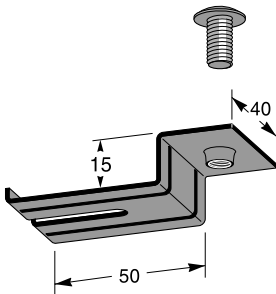


B	Zinc 20 µm	E-no	White	E-no	Z4	E-no
50	MP-692 S	11 184 33	MP-692 V	11 184 34		
75	MP-612 S	11 184 37	MP-612 V	11 184 38	MP-612 Z4	11 184 36
100	MP-622 S	11 184 39	MP-622 V	11 184 40		
150	MP-632 S	11 184 43	MP-632 V	11 184 44		
200	MP-642 S	11 184 47	MP-642 V	11 184 48		

## Luminaire bracket

The angled luminaire bracket is screwed to hole system in the luminaire rail.

**TIP!** First fit the bracket on the luminaire and align the fastening holes with the rail's hole system c-c 25 mm, then screw the luminaire onto the rail. The bracket is supplied with screw M8x16 mm.



Zinc 20 µm	E-no
MP-935 S	11 184 21

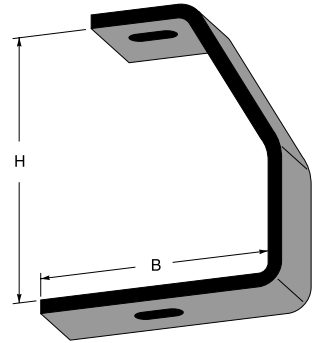
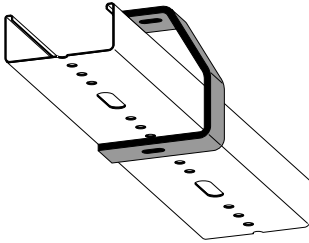
90 The letter in the MP No. denotes the surface finish according to: (also see page 4)

E = Electrogaly. 10 µm  
 S = Zinc 20 µm  
 Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
 Z4 = Zinc/mag. 25 µm (ZM 310)  
 R = Acid resist.

## Ceiling support

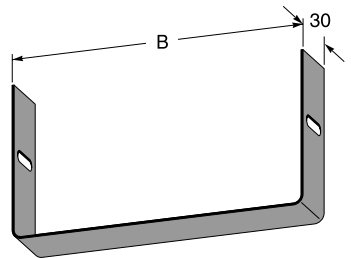
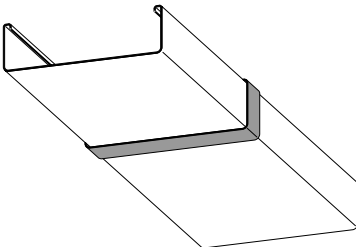
Extends 4 mm below the tray.



B	H	Zinc 60 µm	E-no	White	E-no
50	96	MP-593 Z	11 173 09	MP-593 V	11 173 10
75	96	MP-513 Z	11 173 11	MP-513 V	11 173 12
100	120	MP-523 Z	11 173 17	MP-523 V	11 173 18

## Décor splice

The décor splice is fitted over the joints to hide gaps and unevenness. They effectively eliminate problems with reflections and provide a rhythmic and harmonic patterns in corridors for example.



B	White	E-no
50	MP-395 V	11 176 82
100	MP-325 V	11 176 84
150	MP-335 V	11 176 86
200	MP-345 V	11 176 88
300	MP-355 V	11 176 90
400	MP-365 V	11 176 92
500	MP-375 V	11 176 94
600	MP-385 V	11 176 96

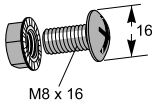
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White  
 B = Beige  
 SV = Black

NCS 2502-Y  
 RAL 9005

# Cable trays

## Fastening screw

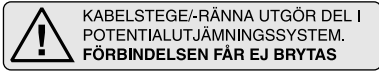


Fastening screws with integrated lock washer. The screws are NOT supplied with the accessories.

50 per package.

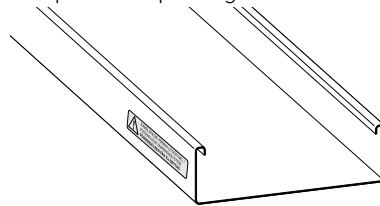
Zinc 20 µm	E-no
MP-937 E	11 157 11

## Potential marking



A water-resistant label is attached to the tray. The label is yellow and has the dimensions 100x18 mm.

Note: the text is in swedish  
100 pcs./roll (package).



Label	E-no
MP-837 F	11 167 15

## Touch-up paint RAL 9010

Spray can 400 ml.  
Colour : White  
Dust dry in about 30 minutes.  
Covers approx. 2.5 m<sup>2</sup>.

Touch-up paint in 25 ml bottle.  
Colour : White.



Type of paint	White	E-no
Spray paint 400 ml	MP-948 V	11 195 00
Brush paint 25 ml	MP-951 V	16 934 42

The letter in the MP No.denotes the surface finish according to: (also see page 4)

E = Electrogalv. 10 µm  
S = Zinc 20 µm  
Z = Zinc SS-EN ISO1461

A = Aluzinc 20 µm (AZ 150)  
Z4 = Zinc/mag. 25 µm (ZM 310)  
R = Acid resist.