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Surface selection

Which surface treatment should I choose?

A simple rule of thumb is that you can use surface treatments as follows:

Surface treatment		Corrosiveness class
Electro-zinc plated		C1
Coated plating		C2
Pre-galvanised plate	Z275 (Sendzimir)	C2
Aluzinc	AZ150	C3
Hot-dip galvanizing	SS-EN ISO 1461	C3 (C4)
Aluzinc	AZ185	C4
Zinc+ED-coating+powder coating		C5-I, C5-M
Stainless steel, acid-proof		

Each corrosiveness class has quite a broad span and the service life need may vary. To determine more precisely what surface treatment your project requires, follow these instructions:

1. Decide which corrosiveness class in table 1:23a corresponds best to your project.
2. Select surface treatment according to the service life requirement for the corrosiveness class selected, see table 2.
3. In the MP code column, each alternative is represented by a letter. Select products with the relevant letter in MP no. If there is no product for the alternative selected, elect the nearest product below as shown in the table.

Example: You must fit cable ladders in unheated warehouse premises.

1. Table 1:23 clearly shows that we have a C2 environment here.
2. The warehouse hall will be in use for more than 25 years; we select pregalvanised plate Z275.
3. The MP code will be S here; cable ladders are available with S in the MP-no., so this is what we choose. All components for assembly must thus have an MP code S or a letter further down in the list in table 2.

The letters in the MP number represent:

				Layer thickness
E	=	Electro-zinc plated		10 µm
V	=	White coating	NCS 0502-Y	60-70 µm
B	=	Beige coating	NCS 2502-Y	60-70 µm
S	=	Pre-galvanised plate	Z275 (Sendzimir)	20 µm
A	=	Aluzinc	AZ150	20 µm
Z	=	Hot-dip galvanizing	SS-EN ISO 1461	60 µm
AZ	=	Aluzinc	AZ185	25 µm
Y	=	Zinc+ED-coating+Powder	Z-EDP (RAL 7021)	105-200 µm
R	=	Stainless steel acid-proof	—	

Table 1:23a

Corrosiveness classes as per SS-EN ISO 12944-2, with reference to the corrosiveness of the atmosphere and environmental examples

Corrosiveness Class	Corrosiveness of the Enviroment	Examples of Typical Environments in the Temperate Climate Zone (informative)	
		Outdoors	Indoors
C1	Very low	-	Heated zones with dry air and insignificant amounts of pollution, e.g. offices, shops, schools and hotels.
C2	Low	Atmospheres with low air pollution content. Rural areas	Non-heated zones with varying temperatures and humidity. Low frequency of air condensation and low pollution content, e.g. sports halls, storage premises.
C3	Moderate	Atmospheres with a certain amount of salt or moderate amounts of air pollution. Town areas with lightly industrialised areas. Areas with some influence from the coast.	Zones with moderate humidity and a certain amount of air pollution from production processses, e.g. breweries, dairies, laundries
C4	High	Atmosphere with a moderate amount of salt or pronounced quantities of air pollution. Industry and coastal areas.	Zones with high humidity and large amounts of pollution from production processes, e.g. chemical industries, swimming pools, shipyards.
C5-I	Very high (industrial)	Industrial zones with high humidity and an aggressive atmosphere.	Zones with almost permanent moisture condensation and large amounts of air pollution.
C5-M	Very high (marine)	Coastal and offshore areas with large quantities of salt.	Zones with almost permanent moisture condensation and large amounts of air pollution.

Table 2 is a calculation of the service life of the surface treatment until red rust appears on the surface

Table 2

		C1		C2		C3		C4		C5-I		C5-M	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
Electro-zinc plated [1]	E	∞	∞	7,1	50	2,4	7,1	1,2	2,1	0,6	1,2	0,6	1,2
Coated plating	V, B	∞	∞	7,1	50	2,4	7,1	1,2	2,1	0,6	1,2	0,6	1,2
Pre-galvanised plate (Z275) [1]	S	∞	∞	19	130	6	19	3	6	2	3	2	4
Aluzinc (AZ150) [1]	A	∞	∞	73	462	31	73	22	31	-	22	-	22
Hot-dip galvanizing [1]	Z	∞	∞	66	460	22	66	11	22	6	11	6	11
Aluzinc (AZ185) [1]	AZ	∞	∞	91	578	39	91	28	39	-	28	-	28
Zinc+ED-coating+powder coating	Y	∞	∞	∞	∞	[2]	[2]	[2]	[2]	[2]	[2]	[2]	[2]
Stainless steel, acid-proof	R	∞	∞	∞	∞	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]

1) The results this year are a calculated estimate of SSAB until red rust becomes visible.

2) Z-EDP, the service life is long for corrosiveness class C5 I and M, meets BSK 99 recommendations for high durability as per table 8:72e S9.12. See process description on page 7.

3) Acid-proof steel normally has a very long service life, even in corrosiveness class C5 I and M. The presence of negative substances may reduce the service life significantly.

Aluzinc

Hot-dip galvanizing or Aluzinc?

Traditionally we have always offered hot-dip-galvanised products for tougher environments.
An evaluation of Aluzinc has provided a surprisingly positive response, with advantages such as:

- Better corrosion protection.
- Lower cost.
- Better conductivity after corrosion.
- Environmental benefits.
- A smooth, hard surface.

Better corrosion protection

The tougher the environment, the more you notice the benefits of Aluzinc. Aluzinc therefore functions superbly in industrial environments with an aggressive atmosphere of high humidity and heat. Aluzinc also functions better than zinc-coated steel in ocean environments, where the combination of salt and moisture creates a very corrosive environment.
When zinc corrodes, a white rust is formed that is electrically insulating. Aluzinc forms black rust, which has bettter conductive characteristics, which is an advantage for potential balancing.
It is only in environments with PH > 9 and in water that Aluzinc has poorer characteristics than hot-dip galvanised zinc and should be avoided.
There is a guideline service life comparison between Aluzinc and other surface treatments in table 2 on page 5.

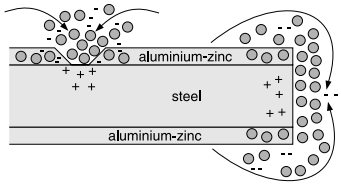
What is Aluzinc?

Aluzinc is an alloy that is applied directly at the steelworks and consists of 55% aluminium, 43.4% zinc and 1.6% silicon. Using a well-controlled process, a plate with a flat, even and hard surface is obtained.

How does Aluzinc work?

Aluzinc is "self-healing", which means the material is resistant to corrosion caused by tears, etc. The long service life is due to the fact that the covering gives the plate double protection. The first layer of protection is achieved though the coating's passivity barrier against general corrosion. The second layer of protection is due to a galvanic element being formed when the plate is exposed to moisture. Zinc ions then migrate and heal the exposed plate in tears and along cut edges.

NB! Before the galvanic element has got going, a certain amount of red rust may occur on the cut edges and in holes. This is only a cosmetic defect, and the corrsion will cease after a time.



Type-approved

Aluzinc AZ185 is type-approved for corrosiveness class C4 by Sitac 1245/94. German and British approvals also exist.

Experience of Aluzinc

Aluzinc was developed around 30 years ago in the USA. There are reference facilities just as old there in ocean environments, etc.

There are 20-year old installations in one of the toughest environments in Sweden, Stenungssund's petrochemical plants.

Some other examples of tough areas where Aluzinc has been chosen:

- Culverts buried in the ground.
- Exhaust pipes on cars.

MP-Z-EDP (Zinc + ED coating + Powder coating)

What is Z-EDP?

Z-EDP is an abbreviation for the surface treatment we have chosen for highly corrosive environments C5-I and C5-M. Z-EDP is a chain of several sub-processes, which together form strong and reliable protection.

- Hot-dip galvanizing
- Zinc manganese phosphatising
- ED coating
- Epoxy/Polyester coating
- Stainless steel screws
- Repair kit

The method has been tried and tested and has been in use for a long time. For example, ED coating is now used in almost all cars. The Swedish Road Administration (Vägverket) uses ED coating on noise barriers alongside roads.

The Swedish Corrosion Institute (Korrosionsinstitutet) has an ongoing corrosion experiment that will take a few more years to conclude. During the period, we have had a comparison test carried out between our Z-EDP option and the method proposed by BSK 99 in table 8:72e column S9.12 for surface treatment in corrosiveness class C5-M.

The test carried out was a double VICT test (26 weeks) as per Volvo STD1027, 1375 with better results than BSK specifies (Table 8:72i).

Hot-dip galvanizing

At the bottom is a hot-dip galvanized surface, either pre-galvanised Z275 or hot-dip galvanized as per ISO 1461. The purpose of the zinc is to heal any damage that arises in the coating layer on top. Zinc is a metal that is part of the cycle of nature.
Layer thickness: 20-60 µm

Zinc manganese phosphatising

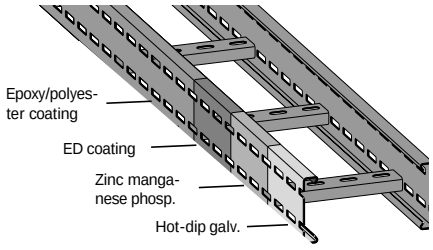
Zinc manganese phosphatising is a pre-treatment part of the process that conversion-coats and ensures adherence between zinc and ED coating in order to counteract creeping corrosion in the event of damage. It provides additional corrosion protection on the galvanised surface.
Layer thickness: approximately 1 µm.

ED coating

The product is dipped in a water-based ED primer bath, and by means of electric voltage the primer penetrates every nook and cranny internally and externally. The process is environmentally friendly with low solvent content.
Layer thickness: 22-25 µm

Powder coating

Powder coating is the last stage of the process; through thermosetting, a hard and durable surface is achieved. Depending on where the product is to be used, the treatment can be optimised by varying the composition of the powder. As an extra bonus, the appearance of the surface can be chosen with regard to colour, structure, gloss, matt, metallic, etc.
Our standard colour is blackish grey RAL7021.
Layer thickness: 60-120 µm



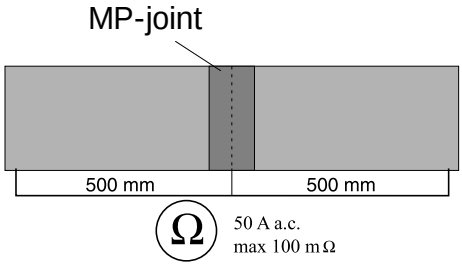
Potential balancing

Electrical continuity

All products in MP-Cable support systems meet the applicable requirements for electrical continuity across joints as per SS-EN 61537.

Coated trays have uncoated ends as standard and thus meet the requirements as per the table below. When cutting and joining a coated tray, you must manually create an electrical connection across the joint. This is best done using a screwed metal joint on an uncoated surface (free of paint).

SP Sveriges Provnings- och Forskningsinstitut (Swedish National Testing and Research Institute) in Borås has carried out 500 mm test measurements on each side of the joint with the following results.



Cable ladders	**Without a screw**	**With a screw**	**Requirement**
MP-S	2,3 mΩ	1,2 mΩ	50 mΩ
MP-PZ, TS, Z	1,0 mΩ	1,0 mΩ	50 mΩ
MP-FZ *	< 1,0 mΩ	< 1,0 mΩ	50 mΩ

Cable trays	**Without clips**	**With clips**	**Requirement**
50 mm width	1,0 mΩ	1,0 mΩ	50 mΩ
200 mm width	1,8 mΩ	1,0 mΩ	50 mΩ
600 mm width	0,5 mΩ	0,5 mΩ	50 mΩ

Wire baskets		**With a joint**	**Requirement**
Electro-galvanized	75 - 400 mm	4,0 - 11,2 mΩ	50 mΩ
Hot-dip galvanized	75 - 400 mm	3,2 - 6,4 mΩ	50 mΩ
Acid-resistant	75 - 400 mm	13,6 - 24,8 mΩ	50 mΩ

* MP-FZ has not been test measured, but with a greater thickness of material, the resistance will be lower.

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MP-Cable ladders

MP-Cable ladders are universally usable in both horizontal and vertical directions. They have been designed and optimised for cable laying with particular reference to the following characteristics:

- Quicker and simpler assembly
- High bearing capacity
- Few accessories
- Cable-correct contact surface on ladder rungs

MP cable ladders are available in 3 models that all meet the requirements of EL AMA 98 for heavy or heavy-duty cable ladders with a wide margin. We also report the load capacity in accordance with new international requirements.

MP-S, our "light ladder", is manufactured in 3 m lengths, and offers flexible handling, especially in narrow spaces, e.g. offices, shops, etc.

MP-TS, PZ, Z, AZ heavy ladder is manufactured in 6 m lengths to provide rational assembly in industrial halls, larger storage premises, etc.

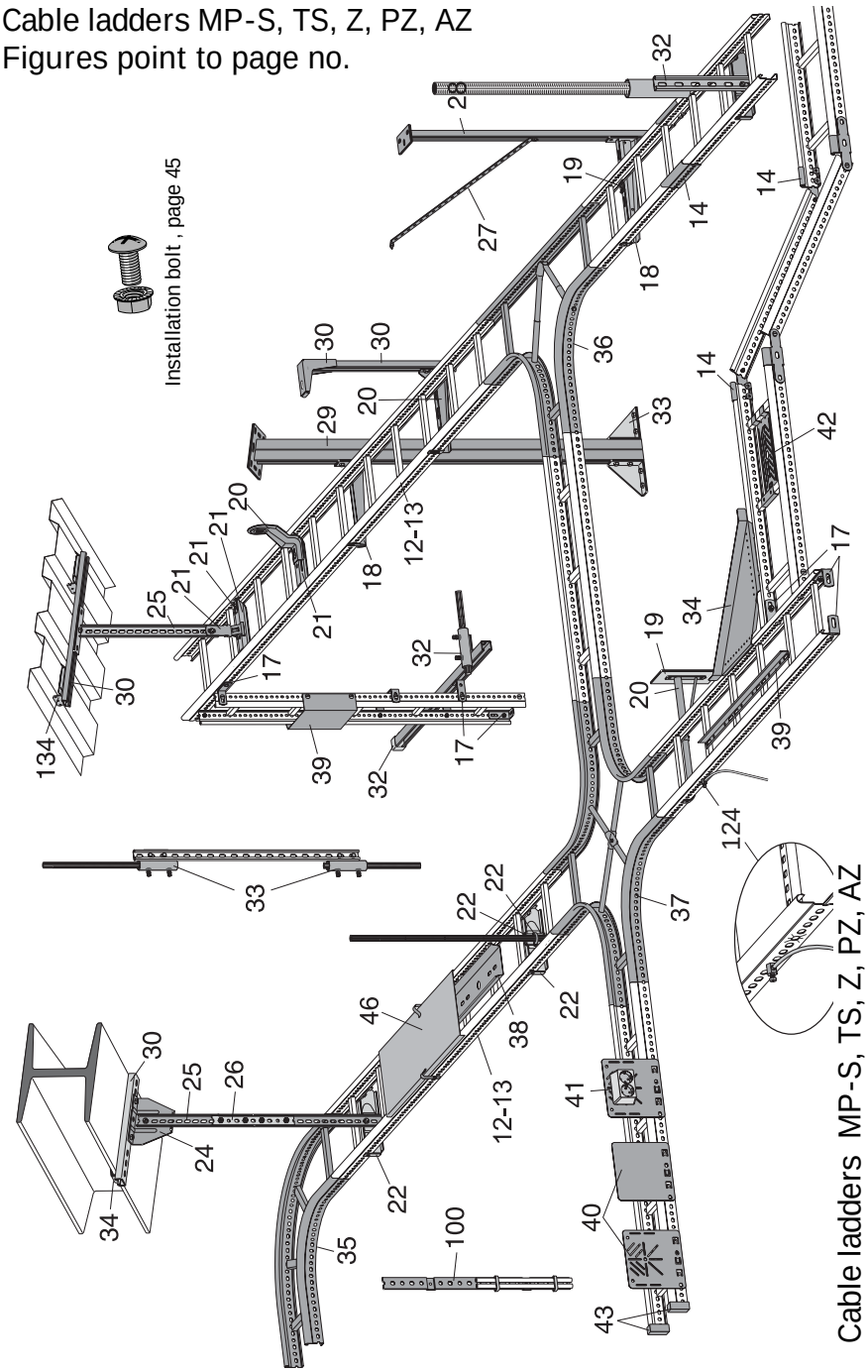
MP-FZ is the strongest of the MP cable ladders. A heavy-duty 6 m ladder for long bracket distances, but also a ladder that can withstand rougher treatment.

The accessories are largely the same as for the other sub-systems, e.g. ceiling pendants, angle brackets and installation screws, see page 2.

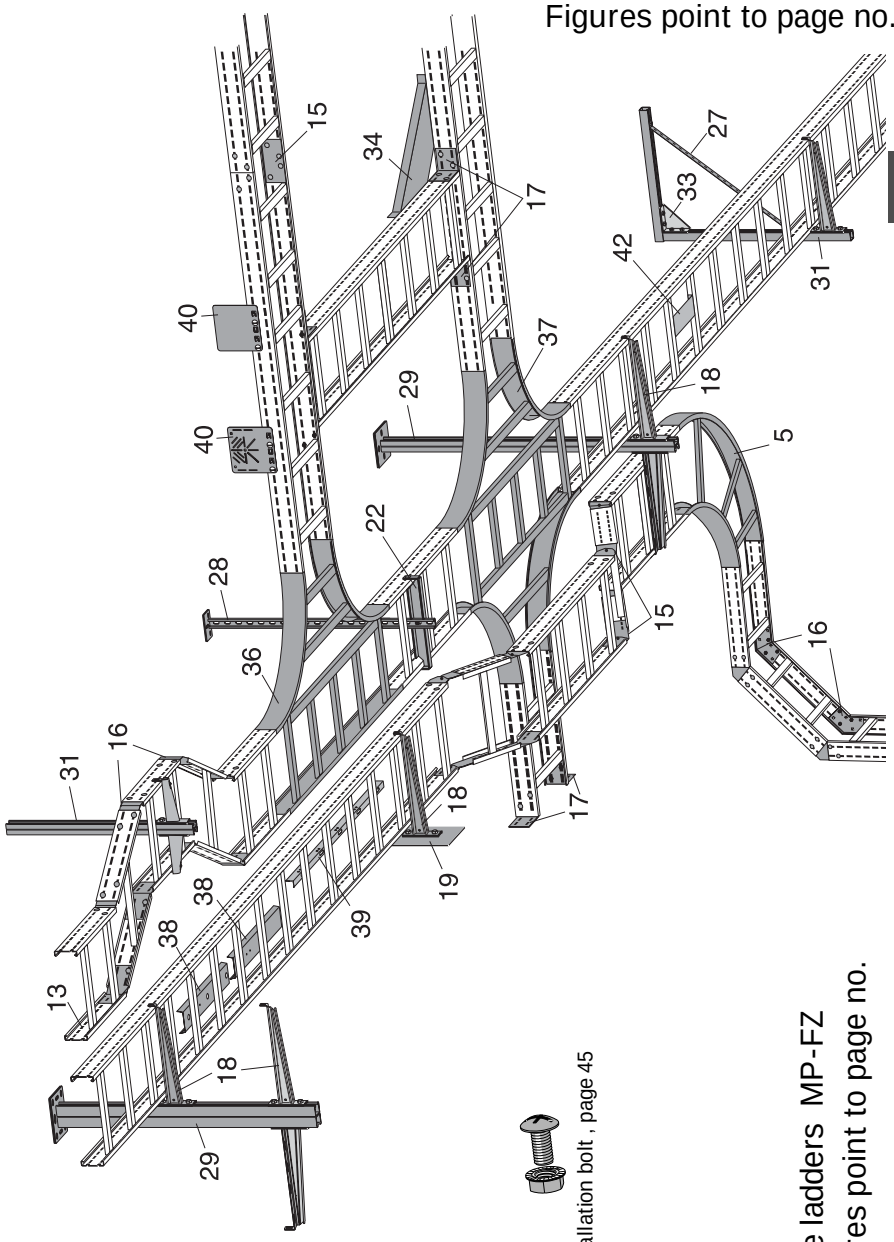
MP-cable ladders and suspension systems are seismologically tested as per the Swedish nuclear industry document TBE 102:2.

MP-Cable ladders

Cable ladders MP-S, TS, Z, PZ, AZ
Figures point to page no.



Cable ladders MP-FZ
Figures point to page no.

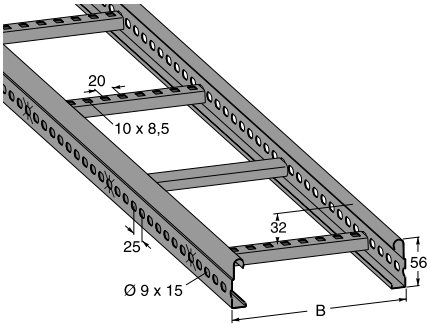


Installation bolt , page 45

Cable ladders MP-FZ
Figures point to page no.

MP-Cable ladders

Cable ladder type MP-S



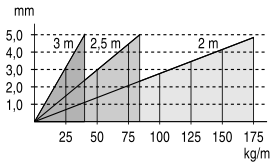
Fulfils the requirements of EL AMA for heavy cable ladders. For choice of surface treatment, see page 4. Can be painted on request.

Rung distance: c-c 250 mm.
Ultimate load: ≥1.7 times maximum load.

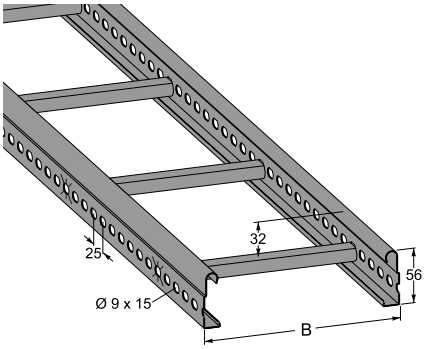
MP cable ladders and suspension systems are seismologically tested as per the Swedish nuclear industry document TBE 102:2.

B	3 m length Zinc 20 µm	E-no	6 m length Zinc 20 µm	E-no
200	MP-102 S	11 150 23	MP-102 S6	——
300	MP-103 S	11 150 26	MP-103 S6	——
400	MP-104 S	11 150 29	MP-104 S6	——
500	MP-105 S	11 150 32	MP-105 S6	——
600	MP-106 S	11 150 35	MP-106 S6	——

Bending flexure in mm for bracket distance 2 to 3 m.



Cable ladder 6 m type MP-TS



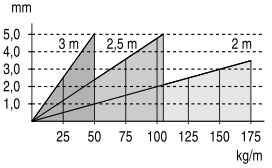
Fulfils the requirements of EL AMA for heavy cable ladders. For choice of surface treatment, see page 4. Can be painted on request.
Cable ladder equipped with closed rungs.

Ladder length: 6 m
Rung distance: c-c 250 mm.
Ultimate load: ≥1.7 times maximum load.

MP cable ladders and suspension systems are seismologically tested as per the Swedish nuclear industry document TBE 102:2.

B	Zinc 20 µm	E-no	Z-EDP	E-no
200	MP-152 S	11 150 43	MP-152 Y	11 150 64
300	MP-153 S	11 150 46	MP-153 Y	11 150 67
400	MP-154 S	11 150 49	MP-154 Y	11 150 70
500	MP-155 S	11 150 52	MP-155 Y	11 150 73
600	MP-156 S	11 150 55	MP-156 Y	11 150 76

Bending flexure in mm for bracket distance 2 to 3 m.



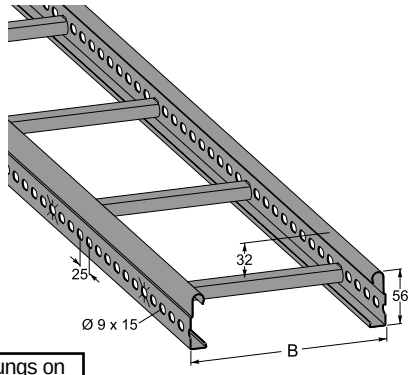
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Cable ladder 6 m MP-Z, PZ, AZ

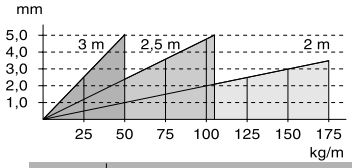
Fulfils the requirements of EL AMA for heavy cable ladders. MP-Z, and AZ is equipped with closed rungs. MP-PZ has perforated rungs; rungs 2 and 4 at each end are closed. For choice of surface treatment, see page 4.

Ladder length: 6 m
Rung distance: c-c 250 mm.
Ultimate load: ≥1.7 times maximum load



Perforated rungs on request for model AZ.

Bending flexure in mm for bracket distance 2 to 3 m.



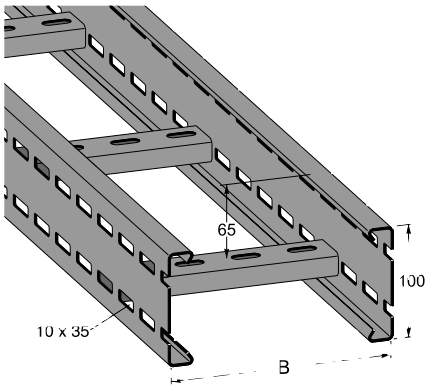
B	Zinc 60 µm	E-no	Zinc 60 µm	E-no	AZ 185	E-no
200	MP-152 Z	11 150 63	MP-152 PZ	11 150 77	MP-152 AZ	11 150 62
300	MP-153 Z	11 150 66	MP-153 PZ	11 150 78	MP-153 AZ	11 150 65
400	MP-154 Z	11 150 69	MP-154 PZ	11 150 79	MP-154 AZ	11 150 68
500	MP-155 Z	11 150 72	MP-155 PZ	11 150 80	MP-155 AZ	11 150 71
600	MP-156 Z	11 150 75	MP-156 PZ	11 150 81	MP-156 AZ	11 150 74

Cable ladder 6 m MP-FZ

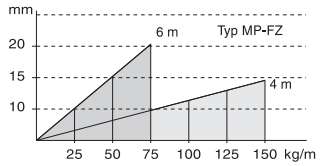
Intended for long bracket distances, but also in environments with major requirements for mechanical strength. Fulfils the requirements of EL AMA for heavy-duty cable ladders. For choice of surface treatment, see page 4. Can be painted on request.

Ladder length: 6 m
Rung distance: c-c 300 mm.
Ultimate load: ≥1.7 times maximum load.

MP cable ladders and suspension systems are seismologically tested as per the Swedish nuclear industry document TBE 102:2.



Bending flexure in mm for bracket distance 4 to 6 m.



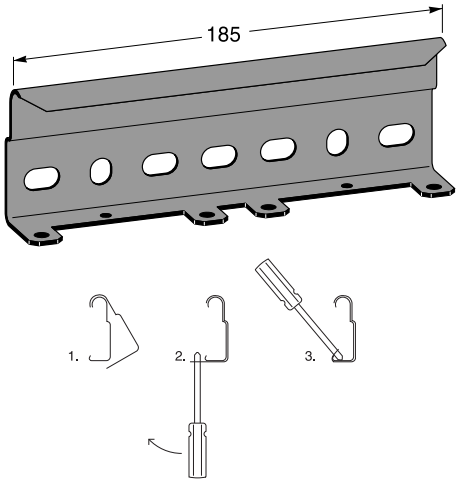
B	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-192 Z	11 150 85	MP-192 Y	11 150 86
300	MP-193 Z	11 150 88	MP-193 Y	11 150 89
400	MP-194 Z	11 150 91	MP-194 Y	11 150 92
500	MP-195 Z	11 150 94	MP-195 Y	11 150 95
600	MP-196 Z	11 150 97	MP-196 Y	11 150 98

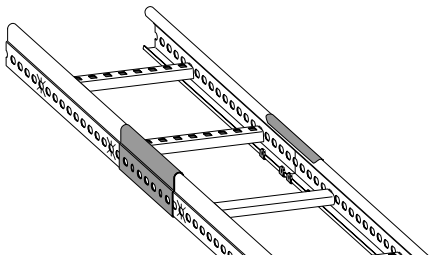
As regards the MP number, the letters stands for: **V** = White, **B** = Beige (see page 4), NCS 0502-Y GI 50, NCS 2502-Y, **R** = acid-proof, **Y** = Z-EDP (see page 7)

MP-Cable ladders

Joint for MP-S, TS, Z, PZ, AZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.

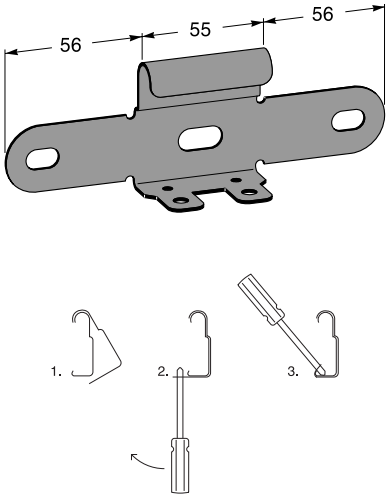


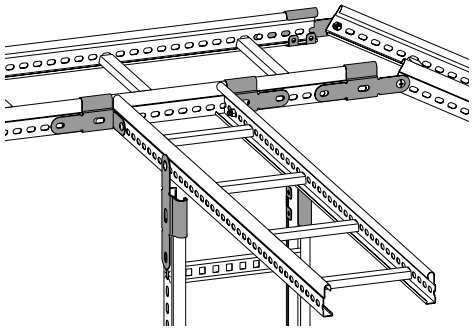


Zinc 20 µm	E-no	Zinc 60 µm	E-no	AZ 185	E-no	Z-EDP	E-no
MP-107 S	11 153 63	MP-107 Z	11 153 65	MP-107 AZ	11 153 62	MP-107 Y	11 153 66

Universal link for MP-S, TS, Z, PZ, AZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.





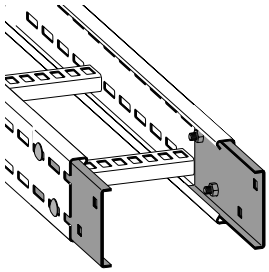
Zinc 20 µm	E-no	Zinc 60 µm	E-no	AZ 185	E-no	Z-EDP	E-no
MP-114 S	11 153 74	MP-114 Z	11 153 76	MP-114 AZ	11 153 72	MP-114 Y	11 153 75

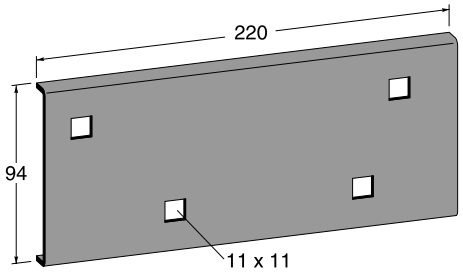
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Joint for MP-FZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.

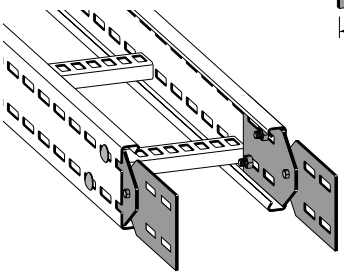


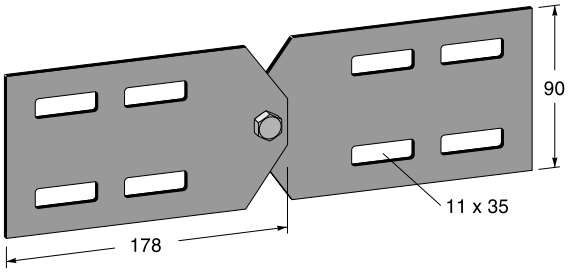


Zinc 60 µm	E-no	Z-EDP	E-no
MP-201 Z	11 153 67	MP-201 Y	11 153 68

Vertical hinge for MP-FZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.





Zinc 60 µm	E-no	Z-EDP	E-no
MP-202 Z	11 153 77	MP-202 Y	11 153 73

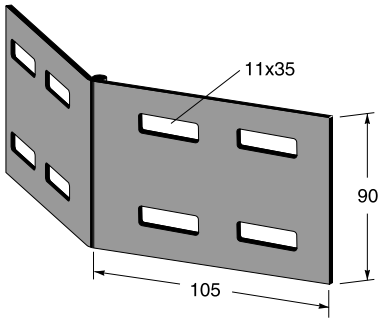
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

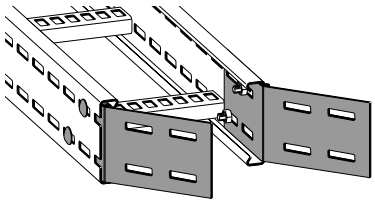
NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

Horizontal hinge for MP-FZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.

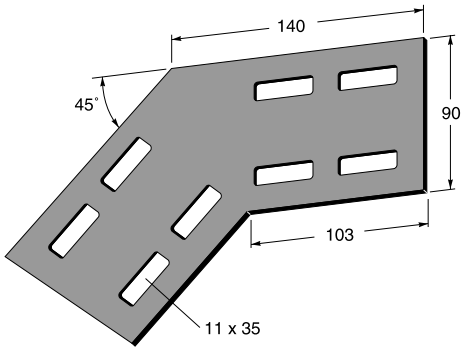


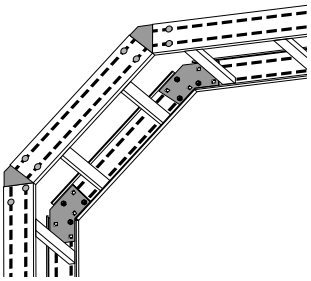


Zinc 60 µm	E-no	Z-EDP	E-no
MP-203 Z	11 153 78	MP-203 Y	11 153 79

Splice plate 45° for MP-FZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.





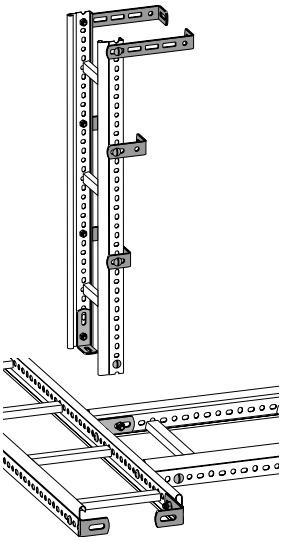
Zinc 60 µm	E-no	Z-EDP	E-no
MP-205 Z	11 153 69	MP-205 Y	11 153 70

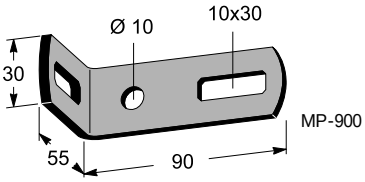
As regards the MP number, the letters stands for: (see page 4)

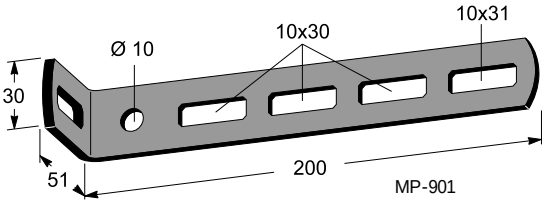
E = Elzinc	10 µm	
S = Zinc	20 µm	
A = Aluzinc	20 µm	
Z = Zinc	SS-EN ISO1461	
AZ = Aluzinc	25 µm (AZ 185)	

Angle bracket for MP-S, TS, Z, PZ, AZ

Fulfils the requirements for potential balancing as per SS-EN 61537:2001.



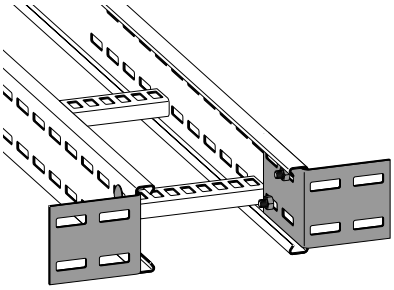


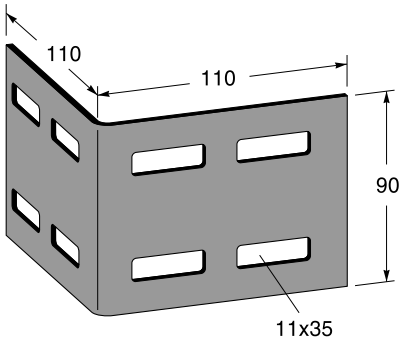


Zinc 60 µm	E-no	Z-EDP	E-no
MP-900 Z	11 153 85	MP-900 Y	11 153 83
MP-901 Z	11 153 81	MP-901 Y	11 153 80

Edge plate for MP-FZ

Edge plate designed for MP-FZ cable ladder.





Zinc 60 µm	E-no	Z-EDP	E-no
MP-204 Z	11 153 88	MP-204 Y	11 153 89

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

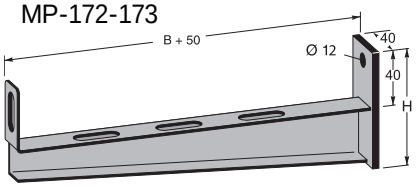
NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

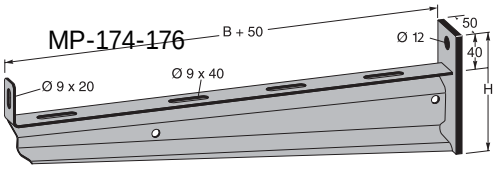
Cantilever arm

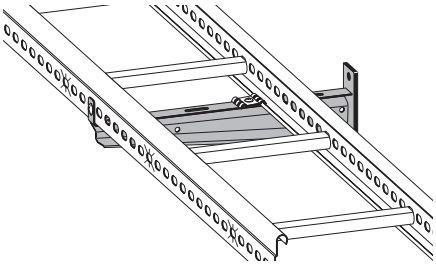
For porous walls use a backing plate.
Ultimate load ≥1.7 times maximum load.

MP-172-173



MP-174-176

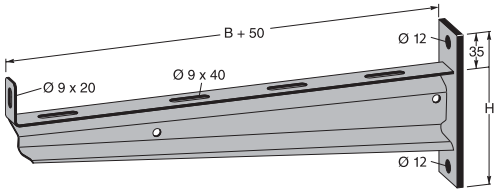


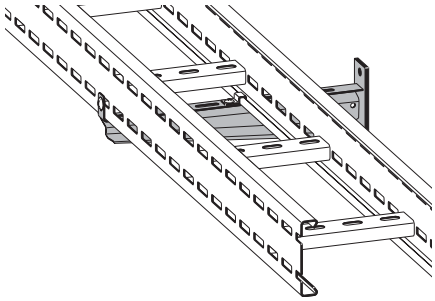


H	B	Maxload	Zinc 60 µm	E-no	Z-EDP	E-no
85	200	200 kg	MP-172 Z2	11 151 76	MP-172 Y2	11 151 78
95	300	200 kg	MP-173 Z2	11 151 79	MP-173 Y2	11 151 81
120	400	250 kg	MP-174 Z2	11 151 82	MP-174 Y2	11 151 84
130	500	370 kg	MP-175 Z2	11 151 85	MP-175 Y2	11 151 87
135	600	370 kg	MP-176 Z2	11 151 88	MP-176 Y2	11 151 90

Cantilever arm reinforced

For porous walls use a backing plate.
Ultimate load ≥1.7 times maximum load.





H	B	Maxload	Zinc 60 µm	E-no	Z-EDP	E-no
140	200	450 kg	MP-182 Z2	11 151 91	MP-182 Y2	11 151 92
150	300	450 kg	MP-183 Z2	11 151 93	MP-183 Y2	11 151 94
155	400	450 kg	MP-184 Z2	11 151 95	MP-184 Y2	11 151 96
165	500	450 kg	MP-185 Z2	11 151 97	MP-185 Y2	11 151 98
170	600	450 kg	MP-186 Z2	11 151 99	MP-186 Y2	11 152 00
250	1000	390 kg	MP-188 Z2	11 152 68	MP-188 Y2	11 152 69

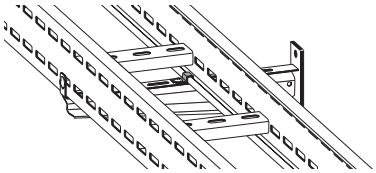
As regards the MP number, the letters stands for: (see page 4)

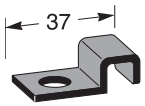
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Cantilever clamp for MP-FZ

Clamp for securing the ladder MP-FZ against the cantilever arm of type KF.
Sold in packs of 10.

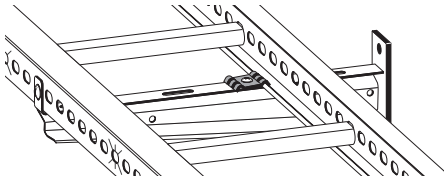


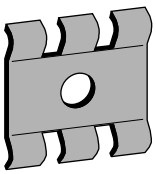


Zinc	E-no	Z-EDP	E-no
MP-187 Z	11 152 01	MP-187 Y	11 152 02

Universal bracket

Universal bracket for securing the ladders MP-S, TS, Z, PZ, AZ against the cantilever arm of type KN.

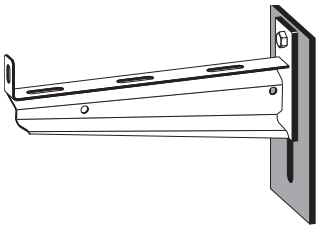


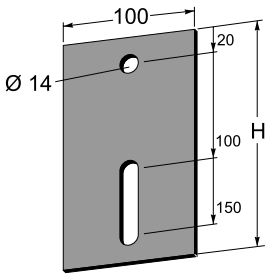


Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-731 S	11 165 30	MP-731 Z	11 165 33	MP-731 R	11 165 36	MP-731 V	11 165 32

Backing plate

Plate thickness 5 mm.



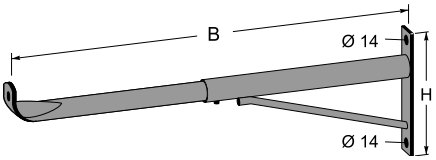


H	Zinc 60 µm	E-no	Z-EDP	E-no
100	MP-962 Z	11 172 80	MP-962 Y	11 172 83
175	MP-963 Z	11 152 64	MP-963 Y	11 152 67

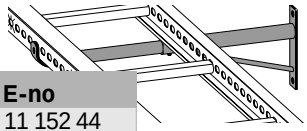
As regards the MP number, the letters stands for: **V** = White, **B** = Beige (see page 4)
NCS 0502-Y GI 50, NCS 2502-Y
R = acid-proof, **Y** = Z-EDP (see page 7)

MP-Cable ladders

Adjustable cantilever arm



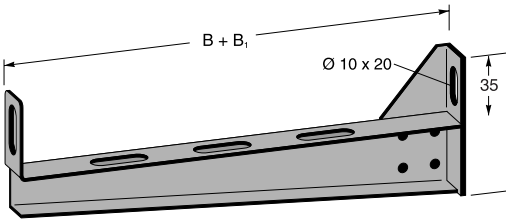
Ultimate load ≥1.7 times maximum load.
Maximum load minimum 300 kg.
Maximum load maximum 125 kg.

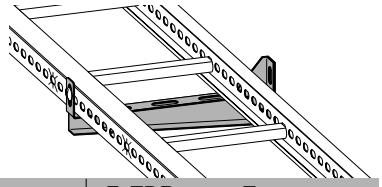


H	B	Zinc 60 µm	E-no	Z-EDP	E-no
180	350 - 550	MP-177 Z	11 152 43	MP-177 Y	11 152 44
280	550 - 850	MP-178 Z	11 152 46	MP-178 Y	11 152 47
280	850 - 1100	MP-179 Z	11 152 49	MP-179 Y	11 152 50

Cantilever arm, light

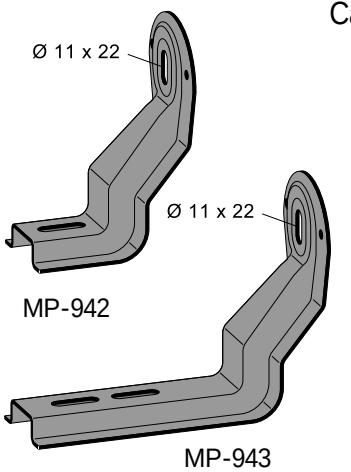
Ultimate load ≥1.7 times maximum load.



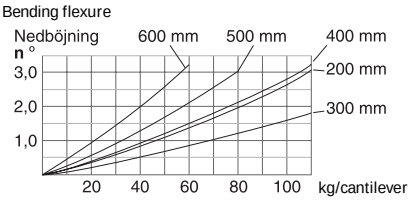


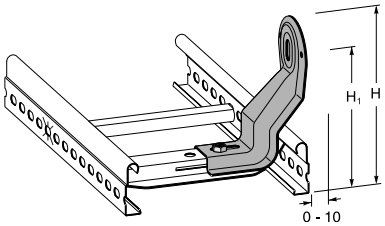
B	B_1	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
200	40	MP-753 S	11 165 52	MP-753 Z	11 165 55	MP-753 Y	11 165 59
300	40	MP-754 S	11 165 61	MP-754 Z	11 165 64	MP-754 Y	11 165 68
400	40	MP-755 S	11 165 70	MP-755 Z	11 165 73	MP-755 Y	11 165 77

Cantilever, wall



Used in combination with internal yoke as a cantilever arm. Ultimate load ≥1.7 times maximum load.





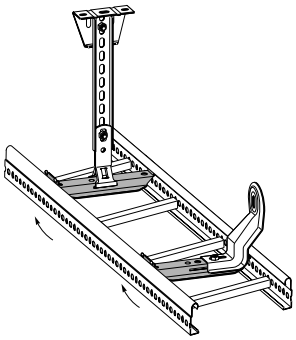
H	H_1	B	Zinc 20 µm	E-no
160	125	200	MP-942 S	11 172 05
185	149	300 - 600	MP-943 S	11 172 09

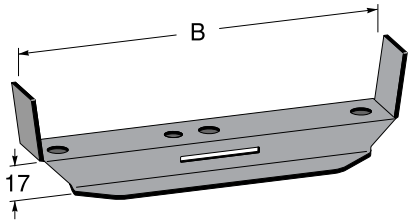
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Yoke

The yoke fits inside the ladder and provides no extra building height below the ladder. Can be fixed with a yoke fixture below, if required.

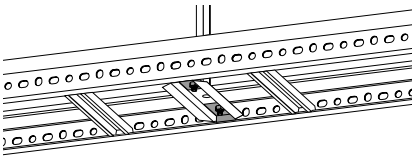


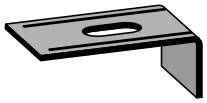


B	Zinc 20 µm	E-no
200	MP-157 S	11 152 95
300	MP-158 S	11 152 98
400	MP-159 S	11 153 01
500	MP-160 S	11 153 04
600	MP-161 S	11 153 07

Yoke fixture

Fitted in the yoke with MP-937 E bolt, see page 45, after the yoke has been placed in the ladder.

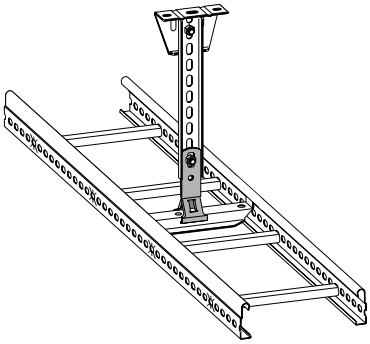


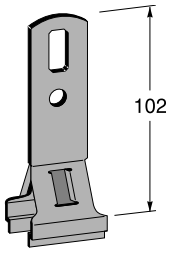


Zinc 20 µm	E-no
MP-914 S	11 174 82

Pendant bracket

Used in combination with an internal yoke for central suspension.





Zinc 20 µm	E-no
MP-931 S	11 173 87

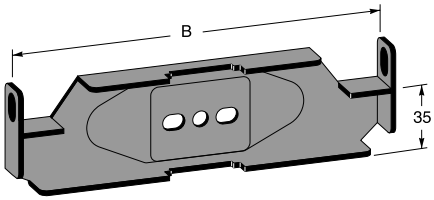
As regards the MP number, the letters stands for: **V** = White, **B** = Beige (see page 4) NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

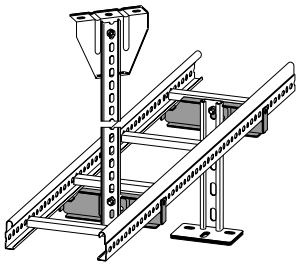
MP-Cable ladders

Yoke

For fitting on roof pendants/channels of type MP-V, -DV, -FDV, MP-167 must be used, see below.

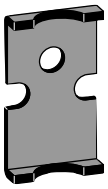
Ultimate load ≥1.7 times maximum load.



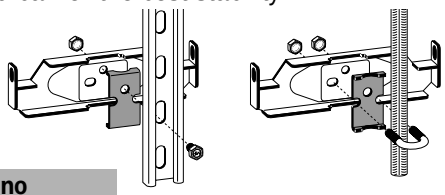


B	Maxload	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
200	240 kg	MP-162 S	11 152 72	MP-162 Z	11 152 74	MP-162 Y	11 152 73
300	240 kg	MP-163 S	11 152 75	MP-163 Z	11 152 77	MP-163 Y	11 152 76
400	240 kg	MP-164 S	11 152 78	MP-164 Z	11 152 80	MP-164 Y	11 152 79
500	280 kg	MP-165 S	11 152 81	MP-165 Z	11 152 83	MP-165 Y	11 152 82
600	280 kg	MP-166 S	11 152 84	MP-166 Z	11 152 86	MP-166 Y	11 152 85

Spacer bracket

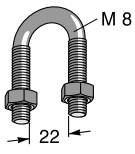


The spacer bracket fills up the cavity when stronger roof pendants/channels are used. When fitting with a ribbed bar, the spacer bracket is turned with the recess towards the round bar for the best stability.

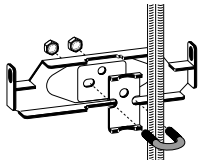


Zinc 60 µm	E-no	Z-EDP	E-no
MP-167 Z	11 152 88	MP-167 Y	11 152 89

Pipe clamp



The pipe clamp is used together with the spacer bracket MP-167 Z for attaching the pendant bracket to the ribbed bar.



Zinc 60 µm	E-no
MP-168 Z	11 152 90

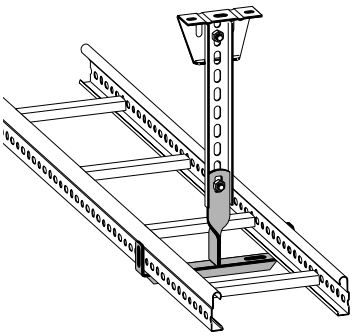
As regards the MP number, the letters stands for: (see page 4)

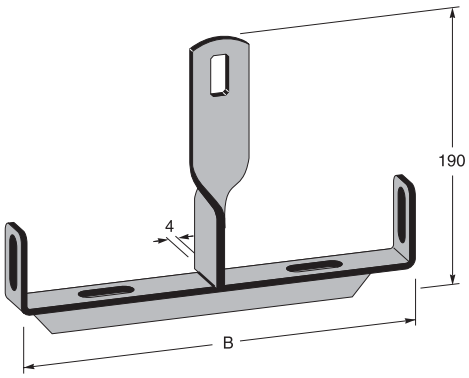
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Yoke

The yoke take 4 mm space in the ladder.





The yoke requires an evenly distributed load.

B	Zinc 60 µm	E-no
200	MP-743 Z	11 166 32
300	MP-744 Z	11 166 41
400	MP-745 Z	11 166 50

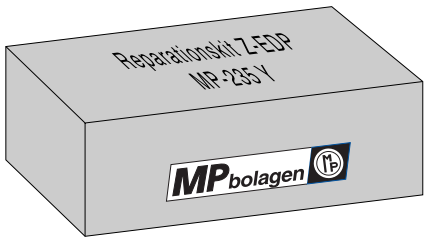
Cold Zinc / Repair kit Z-EDP

Section surfaces and any damage should be coated with a protective layer to preserve the service life of the product.

MP-235 Z
For hot-dip galvanised products, MP-235 Z cold zinc is used.

400 ml

MP-235 Y
The repair kit is intended to restore Z-EDP (zinc + ed-coating + powder coating) treated products after cutting to their original state.



Zinc	E-no	Z-EDP	E-no
MP-235 Z	26 848 19	MP-235 Y	11 158 80

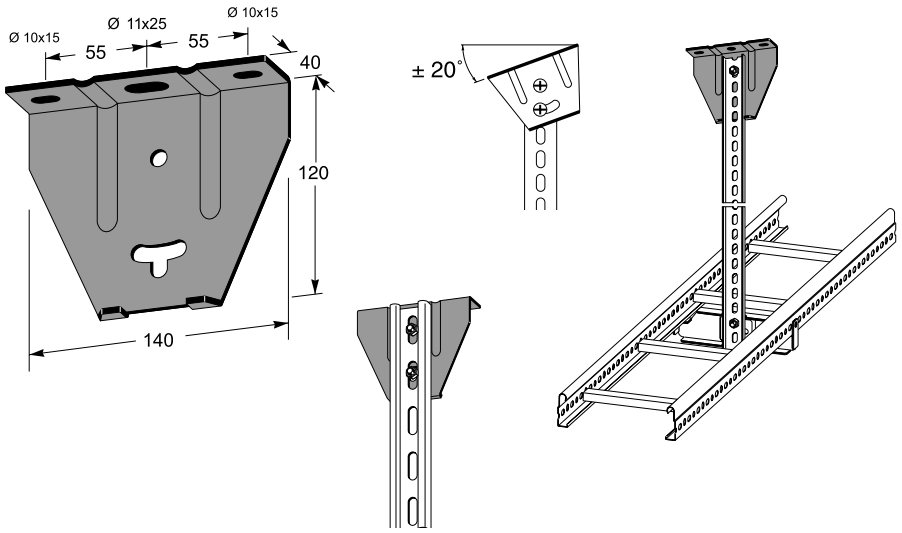
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

NCS 0502-Y GI 50 NCS 2502-Y

R = acid-proof **Y** = Z-EDP (see page 7)

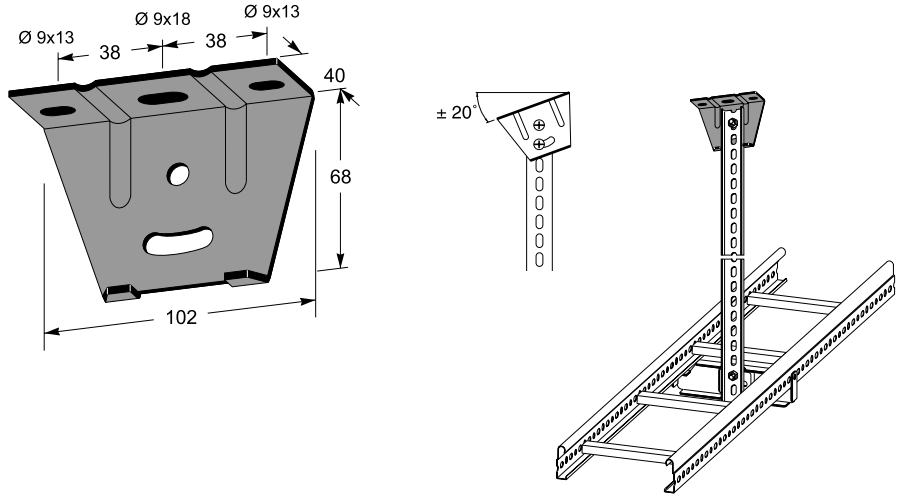
MP-Cable ladders

Ceiling bracket



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
MP-150 S	11 153 42	MP-150 Z	11 153 43	MP-150 Y	11 153 44

Ceiling bracket



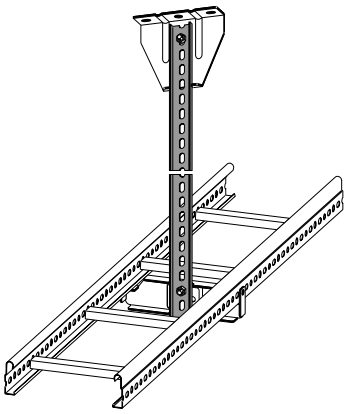
Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
MP-904 S	11 153 46	MP-904 Z	11 153 47	MP-904 Y	11 153 50

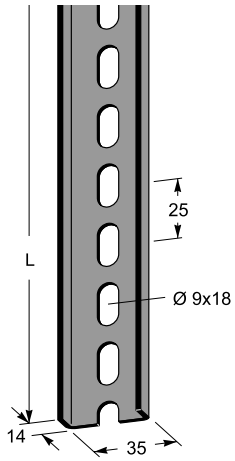
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Pendant rail

Several yokes can be fitted to the same pendant. Cut marks c-c 100 mm.

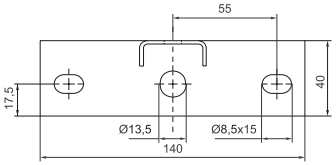


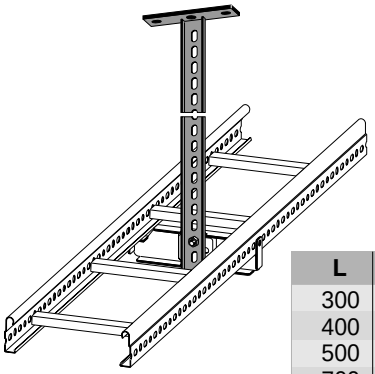


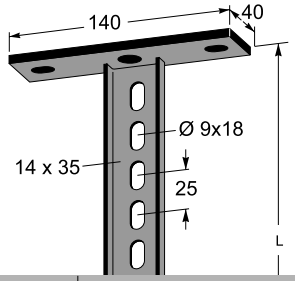
L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
300	MP-911 A	11 153 26	MP-911 Z	11 153 27	MP-911 Y	11 153 29
500	MP-912 A	11 153 32	MP-912 Z	11 153 33	MP-912 Y	11 153 35
3 000	MP-910 A	11 153 38	MP-910 Z	11 153 39	MP-910 Y	11 153 37

Ceiling pendant MP-P

Several yokes can be fitted to the same pendant. Cut marks c-c 100 mm.







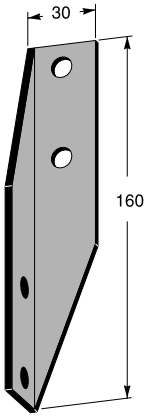
L	Zinc 60 µm	E-no	Z-EDP	E-no
300	MP-957 Z	11 157 04	MP-957 Y	11 157 03
400	MP-958 Z	11 157 06	MP-958 Y	11 157 05
500	MP-959 Z	11 157 08	MP-959 Y	11 157 07
700	MP-960 Z	11 157 10	MP-960 Y	11 157 09
1 000	MP-961 Z	11 157 12	MP-961 Y	11 157 00

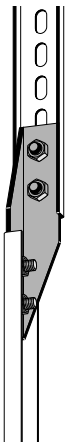
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

(see page 4)

MP-Cable ladders

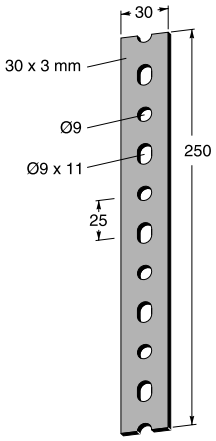
Pendant angle piece





Zinc 60 µm	E-no	Z-EDP	E-no
MP-918 Z	11 153 23	MP-918 Y	11 153 25

Pendant joint



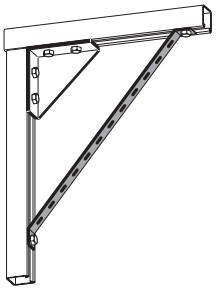
Zinc 60 µm	E-no	Z-EDP	E-no
MP-919 Z	11 153 11	MP-919 Y	11 153 13

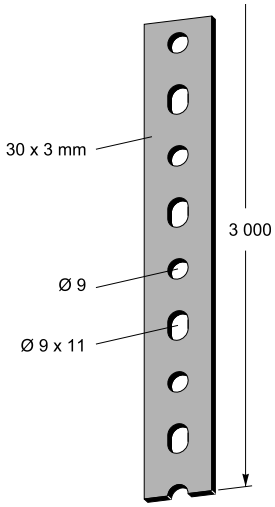
As regards the MP number, the letters stands for: (see page 4)

E	= Elzinc	10 µm	
S	= Zinc	20 µm	
A	= Aluzinc	20 µm	
Z	= Zinc	SS-EN ISO1461	
AZ	= Aluzinc	25 µm (AZ 185)	

Universal strap

Universal strap for staying etc.
Length 3 m.



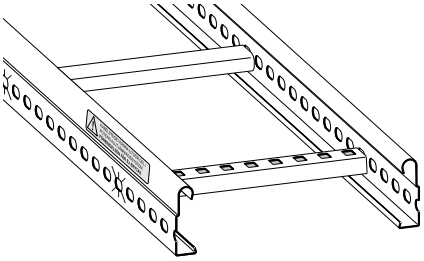


Zinc 60 µm	E-no	Z-EDP	E-no
MP-210 Z	11 157 02	MP-210 Y	11 157 01

Label for potential balancing

A waterproof label attached to the ladder.
The label is yellow and measures 100x18 mm.
NB. The text is in Swedish

Supplied in rolls of 100 labels.

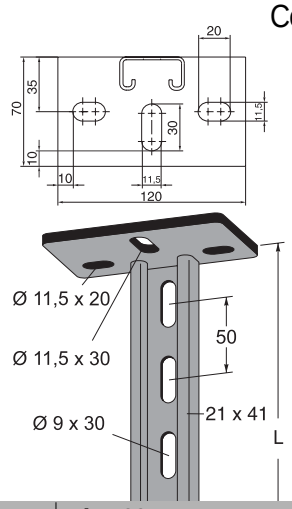


Label	E-no
MP-837 F	11 167 15

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

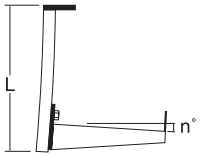
Ceiling pendant 21mm MP-V



For central suspension add MP-167 Z together with a yoke. Use T-bolts (page 44) for fastenings on the pendant.

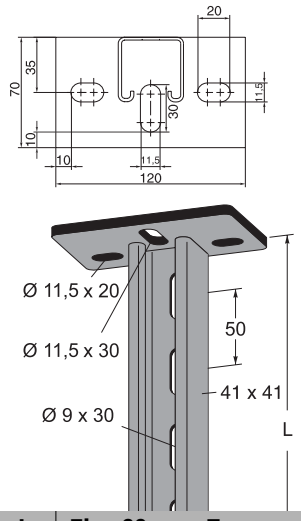
Lengths	200 mm	300 mm	400 mm	500 mm	600 mm	Bending flexure
250	175 kg	132 kg	106 kg	89 kg	76 kg	n = **0,7**°
375	175 kg	132 kg	106 kg	89 kg	76 kg	n = **1,0**°
500	175 kg	132 kg	106 kg	89 kg	76 kg	n = **1,4**°
750	175 kg	132 kg	106 kg	89 kg	76 kg	n = **2,2**°
1000	175 kg	132 kg	106 kg	89 kg	76 kg	n = **2,9**°

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load. For other dimensions, contact our marketing department.



L	Zinc 60 µm	E-no	Z-EDP	E-no
250	MP-964 Z	11 157 20	MP-964 Y	11 157 23
375	MP-965 Z	11 157 24	MP-965 Y	11 157 27
500	MP-966 Z	11 157 28	MP-966 Y	11 157 31
750	MP-967 Z	11 157 32	MP-967 Y	11 157 35
1000	MP-968 Z	11 157 36	MP-968 Y	11 157 39

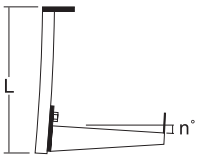
Ceiling pedant 41 mm MP-FV



For central suspension add MP-167 Z together with a yoke. Use T-bolts (page 44) for fastenings on the pendant.

Lengths	200 mm	300 mm	400 mm	500 mm	600 mm	Bending flexure
750	462 kg	352 kg	285 kg	239 kg	206 kg	**n = 1,0**°
1000	462 kg	352 kg	285 kg	239 kg	206 kg	**n = 1,4**°
1500	462 kg	352 kg	285 kg	239 kg	206 kg	**n = 2,1**°

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load. For other dimensions, contact our marketing department.



L	Zinc 60 µm	E-no	Z-EDP	E-no
750	MP-071 Z	11 157 90	MP-071 Y	11 157 91
1000	MP-072 Z	11 157 92	MP-072 Y	11 157 93
1500	MP-073 Z	11 157 94	MP-073 Y	11 157 95

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

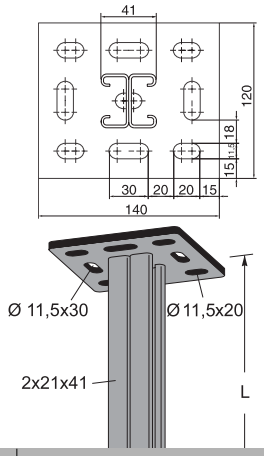
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

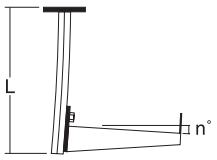
Ceiling pendant 2x21mm MP-DV

For central suspension add MP-167 Z together with a yoke. Use T-bolts (page 44) for fastenings on the pendant.

Lengths	200 mm	300 mm	400 mm	500 mm	600 mm	Bending flexure
500	429 kg	325 kg	262 kg	219 kg	188 kg	**n = 0,8°**
750	429 kg	325 kg	262 kg	219 kg	188 kg	**n = 1,1°**
1000	429 kg	325 kg	262 kg	219 kg	188 kg	**n = 1,5°**
1500	429 kg	325 kg	262 kg	219 kg	188 kg	**n = 2,3°**
2000	429 kg	325 kg	262 kg	219 kg	187 kg	**n = 3,0°**
3000	292 kg	219 kg	175 kg	146 kg	125 kg	**n = 3,0°**

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load. For other dimensions, contact our marketing department.





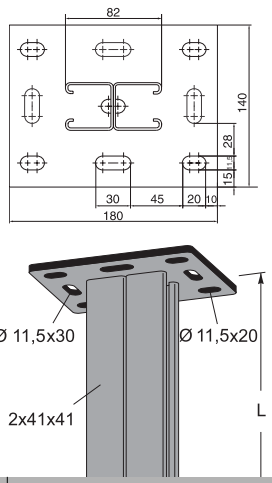
L	Zinc 60 µm	E-no	Z-EDP	E-no
500	MP-970 Z	11 157 40	MP-970 Y	11 157 43
750	MP-971 Z	11 157 44	MP-971 Y	11 157 47
1000	MP-972 Z	11 157 48	MP-972 Y	11 157 51
1500	MP-973 Z	11 157 52	MP-973 Y	11 157 55
2000	MP-974 Z	11 157 56	MP-974 Y	11 157 59
3000	MP-975 Z	11 157 60	MP-975 Y	11 157 63

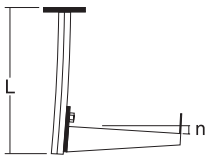
Ceiling pendant 2x41mm MP-FDV

For central suspension add MP-167 Z together with a yoke. Use T-bolts (page 44) for fastenings on the pendant.

Lengths	200 mm	300 mm	400 mm	500 mm	600 mm	Bending flexure
1000	1219 kg	935 kg	758 kg	638 kg	550 kg	**n = 0,7°**
1500	1219 kg	935 kg	758 kg	638 kg	550 kg	**n = 1,1°**
2000	1219 kg	935 kg	758 kg	638 kg	550 kg	**n = 1,4°**
3000	1219 kg	935 kg	758 kg	638 kg	550 kg	**n = 2,2°**

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load. For other dimensions, contact our marketing department.



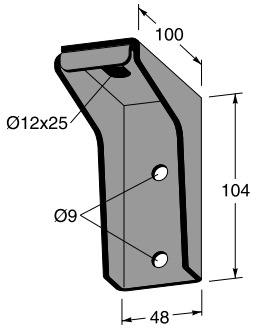


L	Zinc 60 µm	E-no	Z-EDP	E-no
1000	MP-985 Z	11 157 64	MP-985 Y	11 157 65
1500	MP-986 Z	11 157 68	MP-986 Y	11 157 69
2000	MP-987 Z	11 157 72	MP-987 Y	11 157 73
3000	MP-988 Z	11 157 76	MP-988 Y	11 157 77

As regards the MP number, the letters stands for: (see page 4)
V = White NCS 0502-Y GI 50
B = Beige NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

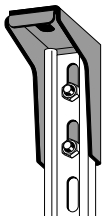
MP-Cable ladders

Ceiling bracket



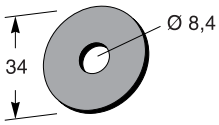
Combine the ceiling bracket with a channnel of 21 or 41 mm height in required lenght for use as a ceiling pendant.

NB. Use washer MP-244 Z when 41x41 mm channel is mounted in the bracket.

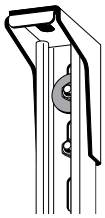


Zinc 20 µm	E-no	Zinc 60 µm	E-no
MP-230 S	11 157 97	MP-230 Z	11 157 98

Washer

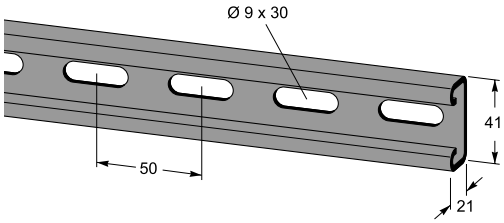


The washer should be used together with 41x41 mm channels when mounted in MP-230. Sold in sets of 10 pcs.

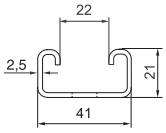


Zinc 60 µm	E-no
MP-244 Z	11 157 79

Channel MP-V 21x41 mm



Use T-bolts (page 44) for fastenings on the channel.



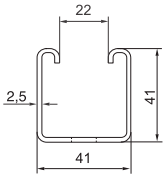
L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
3000	MP-231 S	11 158 02	MP-231 Z	11 158 00	MP-231 Y	11 158 03
250	MP-024 S	11 158 39	MP-024 Z	11 158 40	—	—
375	MP-025 S	11 158 43	MP-025 Z	11 158 44	—	—
500	MP-026 S	11 158 47	MP-026 Z	11 158 48	—	—
750	MP-027 S	11 158 51	MP-027 Z	11 158 52	—	—
1000	MP-028 S	11 158 55	MP-028 Z	11 158 56	—	—

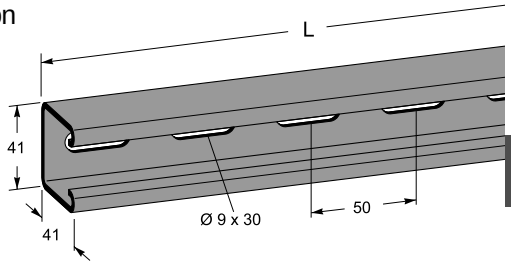
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Channel MP-FV 41x41 mm

Use T-bolts (page 44) for fastenings on the channel.

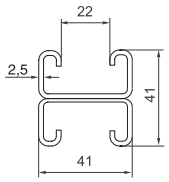


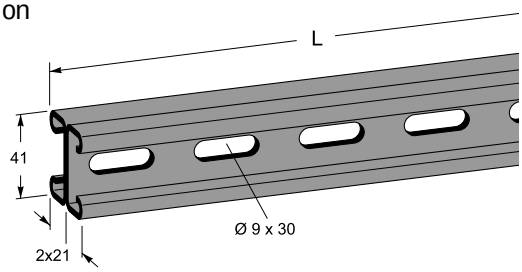


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
3000	MP-233 S	11 158 05	MP-233 Z	11 158 04	MP-233 Y	11 158 06
750	MP-037 S	11 158 60	MP-037 Z	11 158 61	—	—
1000	MP-038 S	11 158 65	MP-038 Z	11 158 66	—	—

Channel MP-DV 2x21x41 mm

Use T-bolts (page 44) for fastenings on the channel.

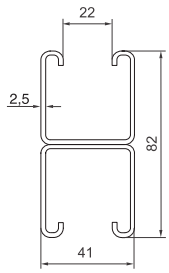


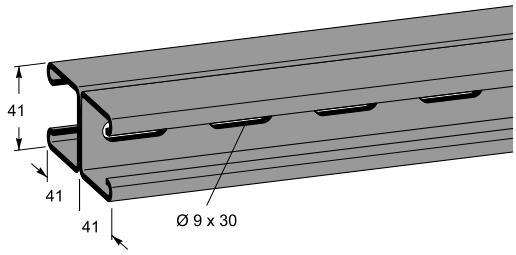


L	Zinc 60 µm	E-no	Z-EDP	E-no
3000	MP-237 Z	11 158 08	MP-237 Y	11 158 09

Channel MP-FDV 2x41x41 mm

Use T-bolts (page 44) for fastenings on the channel.





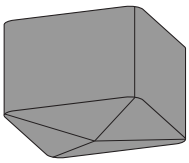
L	Zinc 60 µm	E-no	Z-EDP	E-no
3000	MP-238 Z	11 158 12	MP-238 Y	11 158 13

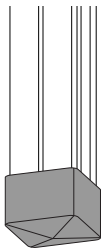
As regards the MP number, the letters stands for: (see page 4)
V = White NCS 0502-Y GI 50
B = Beige NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Cable ladders

End protection

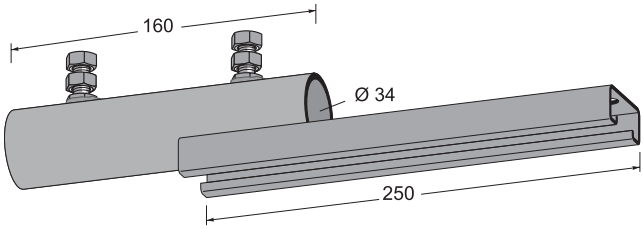
Yellow painted end protection.

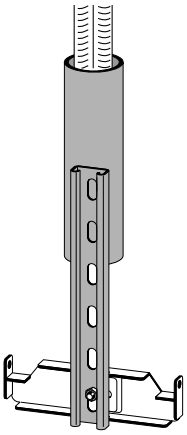




Plastic	E-no	For use on
MP-240 P	11 158 17	MP-V
MP-241 P	11 158 18	MP-DV, FV

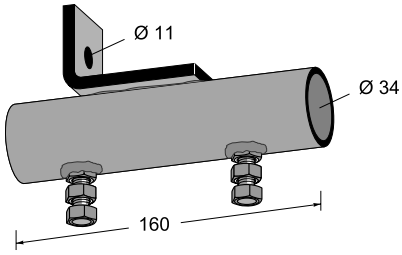
Bracket for ribbed bar, ceiling

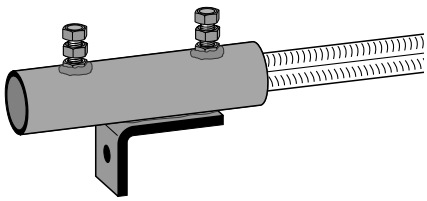




Zinc 60 µm	E-no	Z-EDP	E-no
MP-246 Z	11 158 30	MP-246 Y	11 158 31

Bracket for ribbed bar, wall



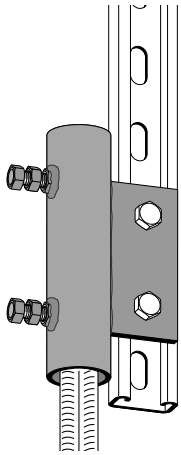


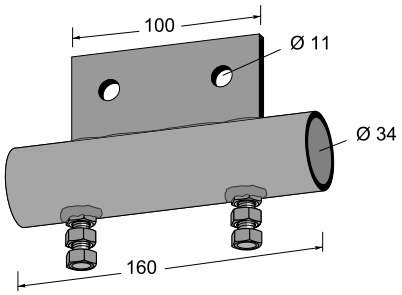
Zinc 60 µm	E-no	Z-EDP	E-no
MP-248 Z	11 158 36	MP-248 Y	11 158 37

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc	10 µm	**Z** = Zinc	SS-EN ISO1461
S = Zinc	20 µm	**AZ** = Aluzinc	25 µm (AZ 185)
A = Aluzinc	20 µm		

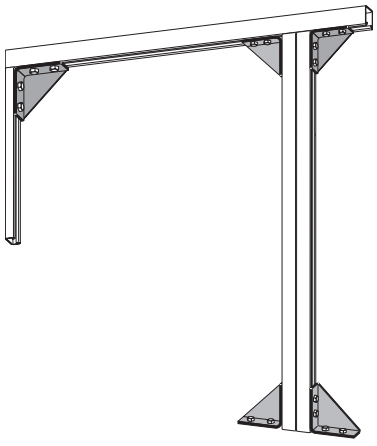
Bracket for ribbed bar, floor

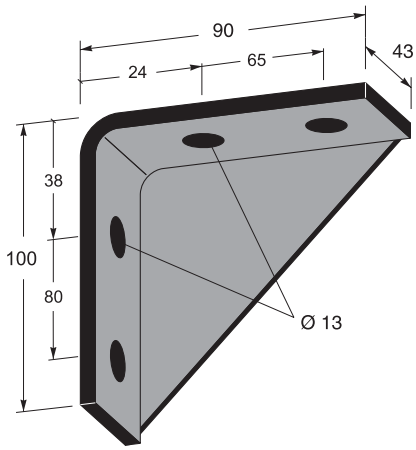




Zinc 60 µm	E-no	Z-EDP	E-no
MP-247 Z	11 158 33	MP-247 Y	11 158 34

Corner piece





Zinc 60 µm	E-no	Z-EDP	E-no
MP-245 Z	11 158 28	MP-245 Y	11 158 29

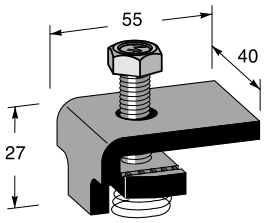
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

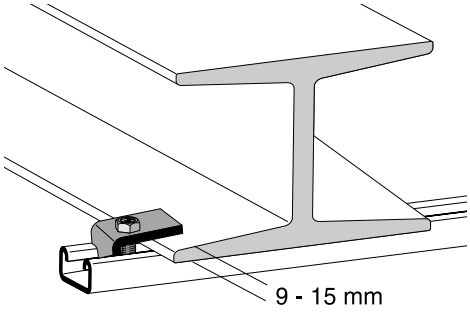
NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

Beam Clamp

For fastenings on a plate girder.
Flange thickness 9-15 mm.

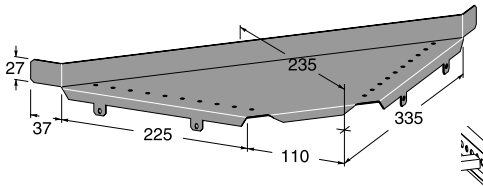


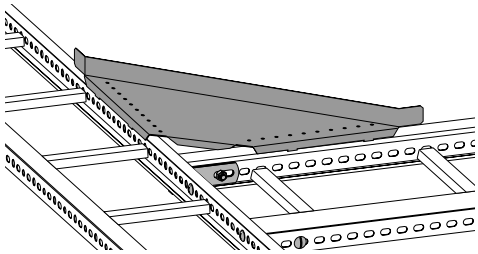


Zinc 60 µm	E-no	Z-EDP	E-no
MP-243 Z	11 158 25	MP-243 Y	11 158 26

Flange plate

For use on all ladder types.





Zinc 20 µm	E-no	Zinc 60 µm	E-no
MP-120 S	11 153 93	MP-120 Z	11 153 95

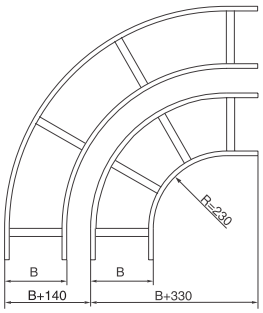
As regards the MP number, the letters stands for: (see page 4)

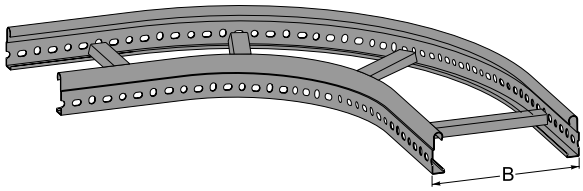
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Flat elbow MP-S, TS, Z, PZ, AZ

Four joints MP-107 are needed for mounting. Outer corners are proudced on request.

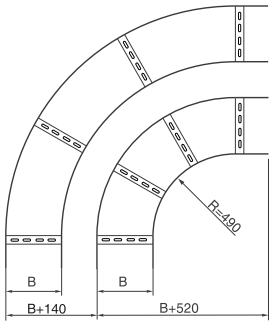


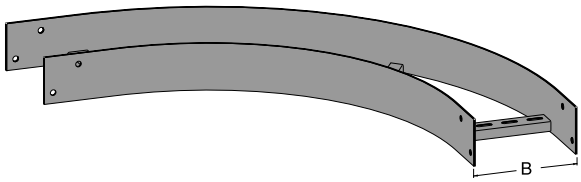


B	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no	AZ 185	E-no
200	MP-122 S	11 154 03	MP-122 Z	11 154 20	MP-122 Y	11 154 21	MP-122 AZ	11 154 04
300	MP-123 S	11 154 06	MP-123 Z	11 154 23	MP-123 Y	11 154 24	MP-123 AZ	11 154 07
400	MP-124 S	11 154 09	MP-124 Z	11 154 26	MP-124 Y	11 154 27	MP-124 AZ	11 154 10
500	MP-125 S	11 154 12	MP-125 Z	11 154 29	MP-125 Y	11 154 30	MP-125 AZ	11 154 13
600	MP-126 S	11 154 15	MP-126 Z	11 154 32	MP-126 Y	11 154 33	MP-126 AZ	11 154 16

Flat elbow FZ

No extra joints needed. Outer corners are produced on request.





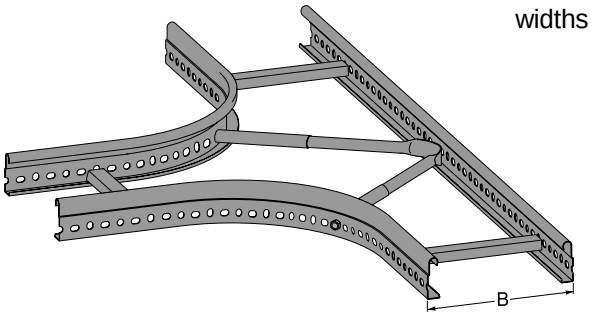
B	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-212 Z	11 154 41	MP-212 Y	11 154 42
300	MP-213 Z	11 154 43	MP-213 Y	11 154 44
400	MP-214 Z	11 154 45	MP-214 Y	11 154 46
500	MP-215 Z	11 154 47	MP-215 Y	11 154 48
600	MP-216 Z	11 154 50	MP-216 Y	11 154 52

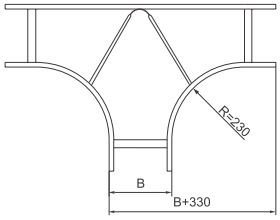
As regards the MP number, the letters stands for: (see page 4)
V = White NCS 0502-Y Gl 50
B = Beige NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Cable ladders

Tee piece MP-S, TS, Z, PZ, AZ

Six joints MP-107 are needed for mounting. NB. The 400-600 mm widths have more rungs.

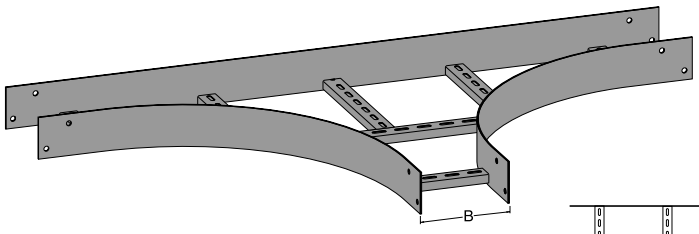


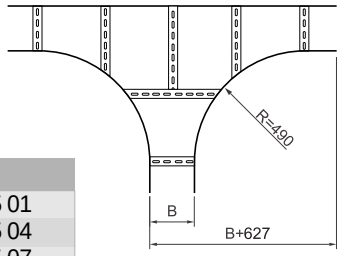


B	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-132 S	11 154 63	MP-132 Z	11 154 83	MP-132 Y	11 154 84
300	MP-133 S	11 154 66	MP-133 Z	11 154 86	MP-133 Y	11 154 87
400	MP-134 S	11 154 69	MP-134 Z	11 154 89	MP-134 Y	11 154 90
500	MP-135 S	11 154 72	MP-135 Z	11 154 92	MP-135 Y	11 154 93
600	MP-136 S	11 154 75	MP-136 Z	11 154 95	MP-136 Y	11 154 96

Tee piece FZ

NB. No extra joints needed.





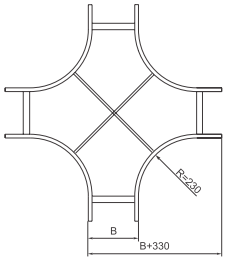
B	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-218 Z	11 155 03	MP-218 Y	11 155 01
300	MP-219 Z	11 155 05	MP-219 Y	11 155 04
400	MP-220 Z	11 155 06	MP-220 Y	11 155 07
500	MP-221 Z	11 155 08	MP-221 Y	11 155 10
600	MP-222 Z	11 155 09	MP-222 Y	11 155 11

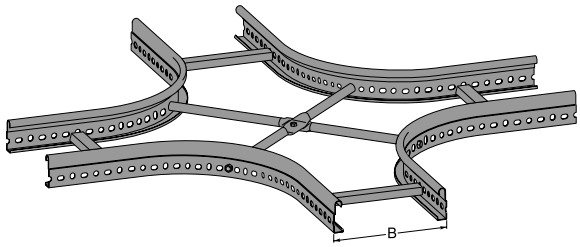
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Cross piece MP-S, TS, Z, PZ, AZ

Eight joints MP-107 are needed for mounting. NB. The 400-600 mm widhts have more rungs.

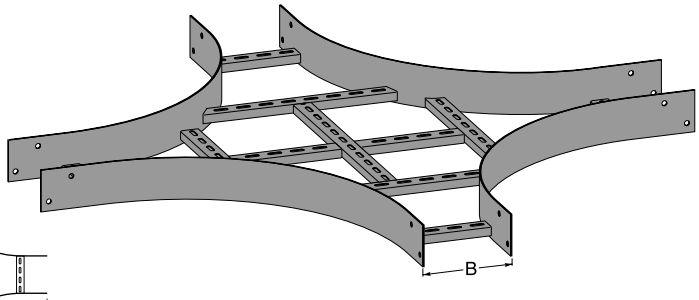


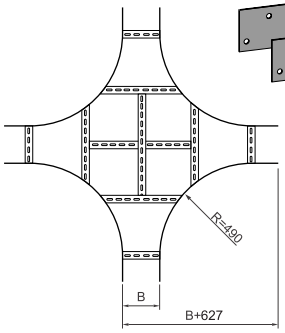


B	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-142 S	11 155 23	MP-142 Z	11 155 43	MP-142 Y	11 155 44
300	MP-143 S	11 155 26	MP-143 Z	11 155 46	MP-143 Y	11 155 47
400	MP-144 S	11 155 29	MP-144 Z	11 155 49	MP-144 Y	11 155 50
500	MP-145 S	11 155 32	MP-145 Z	11 155 52	MP-145 Y	11 155 53
600	MP-146 S	11 155 35	MP-146 Z	11 155 55	MP-146 Y	11 155 56

Cross piece FZ

NB. No extra joints needed.



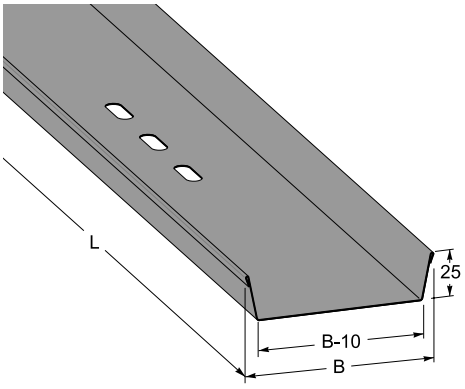


B	Zinc 60 µm	E-no	Z-EDP	E-no
200	MP-224 Z	11 155 57	MP-224 Y	11 155 58
300	MP-225 Z	11 155 59	MP-225 Y	11 155 67
400	MP-226 Z	11 155 60	MP-226 Y	11 155 61
500	MP-227 Z	11 155 62	MP-227 Y	11 155 68
600	MP-228 Z	11 155 63	MP-228 Y	11 155 64

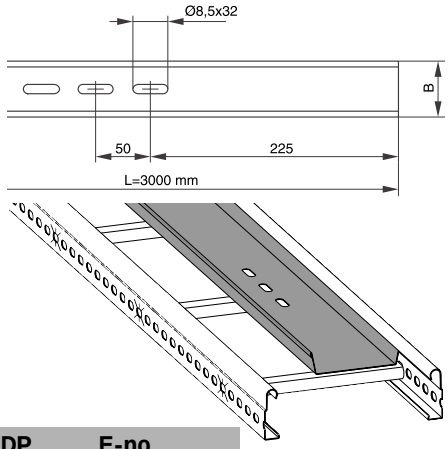
As regards the MP number, the letters stands for: (see page 4)
V = White NCS 0502-Y GI 50
B = Beige NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Cable ladders

Low volt divider, unperforated

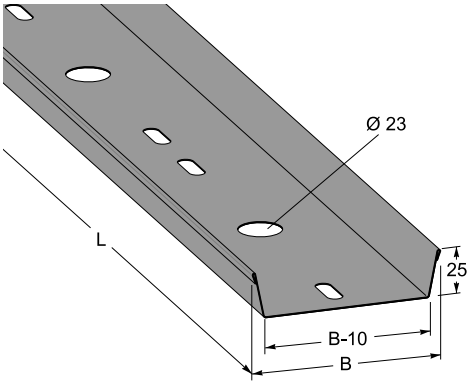


The tray is equipped with mounting holes at the ends and in the middle.

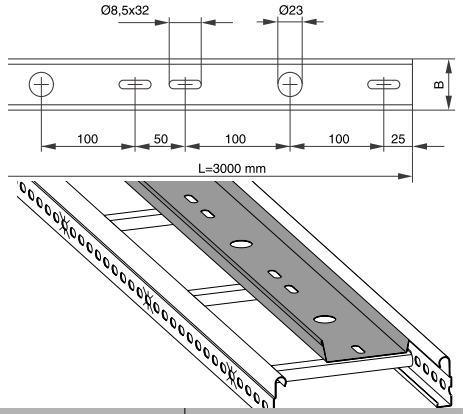


B	L	Zinc 20 µm	E-no	Z-EDP	E-no
50	3000	MP-128 S	11 156 00	MP-128 Y	11 156 01
100	3000	MP-129 S	11 156 04	MP-129 Y	11 156 05
200	3000	MP-130 S	11 156 08	MP-130 Y	11 156 09

Low volt divider, perforated



The large holes can be equipped with Ø 23 mm grommets to prevent damage to the cables.



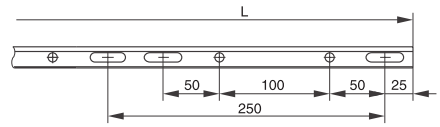
B	L	Zinc 20 µm	E-no	AZ 185	Enr	Z-EDP	E-no
50	3000	MP-138 S	11 156 12	MP-138 AZ	11 156 11	MP-138 Y	11 156 15
100	3000	MP-139 S	11 156 16	MP-139 AZ	11 156 17	MP-139 Y	11 156 19
200	3000	MP-140 S	11 156 20	—	—	MP-140 Y	11 156 23

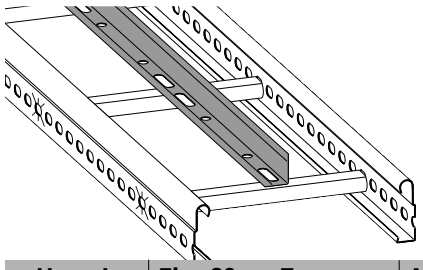
As regards the MP number, the letters stands for: (see page 4)

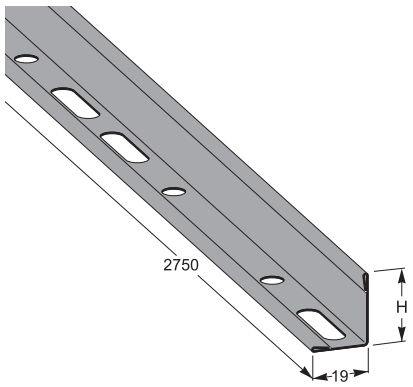
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Divider

The divider is joined by overlapping or end to end.
Fastened with strip or screw.



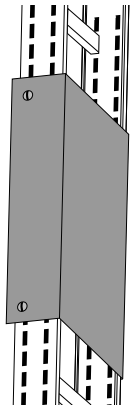


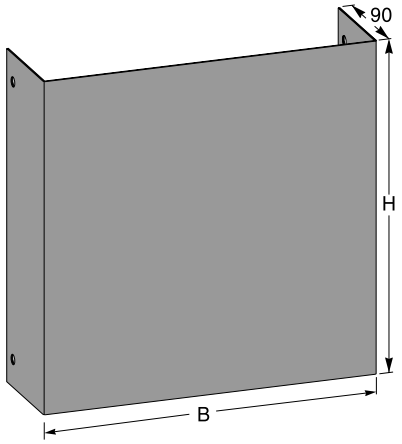


H	L	Zinc 20 µm	E-no	AZ 185	Eno	Z-EDP	E-no
25	2750	MP-137 S	11 184 72	MP-137 AZ	11 184 74	MP-137 Y	11 184 71
40	2750	MP-149 S	11 184 78	MP-149 AZ	11 184 79	—	—

Mounting bracket

Mounting bracket designed for mounting of safety switches, etc. on vertical cable ladder. Suitable for all of our cable ladders.
Bracket thickness 1.5 mm.





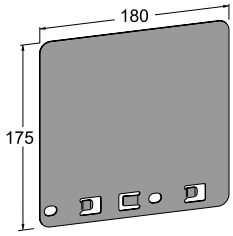
H	B	Zinc 60 µm	E-no	Z-EDP	E-no
200	200	MP-207 Z	11 153 97	MP-207 Y	11 153 98
300	300	MP-208 Z	11 153 99	MP-208 Y	11 154 00
400	400	MP-209 Z	11 154 01	MP-209 Y	11 154 02

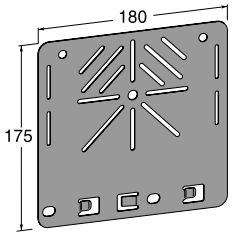
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

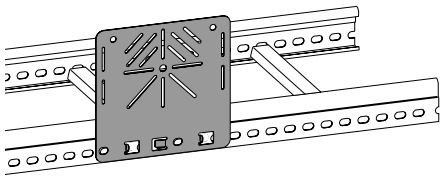
MP-Cable ladders

Mounting bracket

Mounting bracket for boxes ,sockets, etc. The bracket is napped on to MP-S, TS, Z, PZ and AZ. On MP-FZ is the bracket screwed.

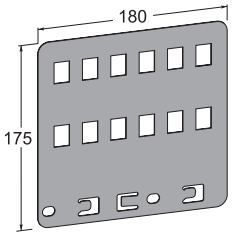




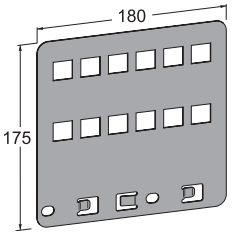


	Zinc 20 µm	E-no	AZ 185	E-no	Z-EDP	E-no
Unperf.	MP-110 S	11 155 75	MP-110 AZ	11 155 69	MP-110 Y	11 155 78
Perf.	MP-112 S	11 155 79	MP-112 AZ	11 155 82	MP-112 Y	11 155 84

Mounting bracket for data outlet



MP-110 SK
Keystone



MP-110 SL
Lexcom

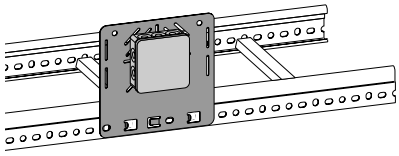
	Zinc 20 µm	E-no
Keystone	MP-110 SK	11 155 93
Lexcom	MP-110 SL	11 155 94

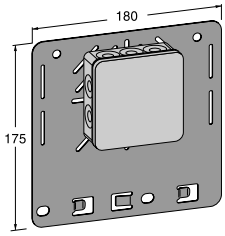
As regards the MP number, the letters stands for: (see page 4)

E	= Elzinc	10 µm	**Z**	= Zinc	SS-EN ISO1461
S	= Zinc	20 µm	**AZ**	= Aluzinc	25 µm (AZ 185)
A	= Aluzinc	20 µm			

Pre-mounted connection box

Connection box IP55 pre-assembled in thermoplastic. With 10 lead-ins. Without terminal blocks.

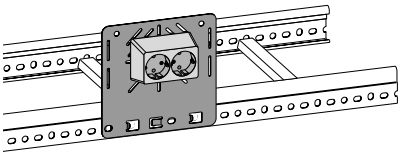


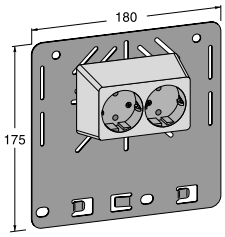


Zinc 20 µm	E-no
MP-112 SD	11 155 90

Pre-mounted socket outlet IP21

2-way socket outlet IP21 in white thermoplastic with base plate.
Two neutral clips.

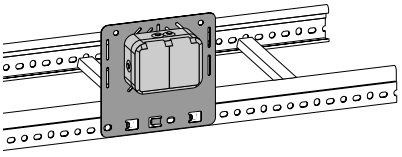


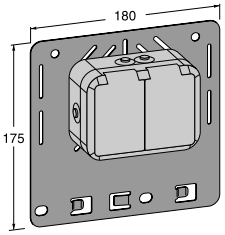


Zinc 20 µm	E-no
MP-112 SF	11 155 91

Pre-mounted socket outlet IP44

2-way socket outlet IP44 in white thermoplastic with base plate.
Two neutral clips.





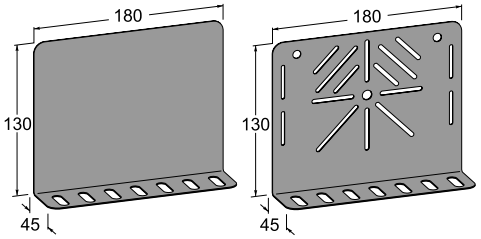
Zinc 20 µm	E-no
MP-112 SG	11 155 92

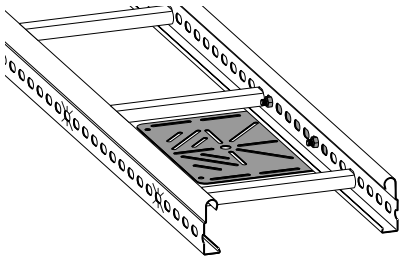
As regards the MP number, the letters stands for: (see page 4)
V = White
B = Beige
NCS 0502-Y GI 50
NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Cable ladders

Mounting bracket, angled

The bracket Is mounted with installation bolt, see page 45.

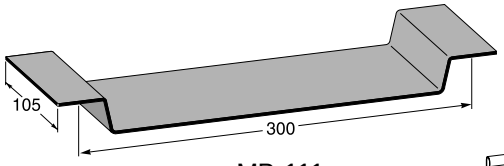




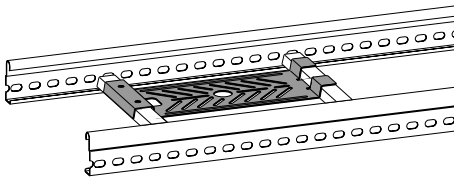
	Zinc 20 µm	E-no
Unperf.	MP-298 S	26 847 35
Perf.	MP-299 S	26 847 39

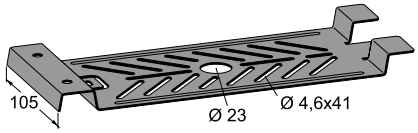
Fitting plate

MP-111 S is designed for ladder type MP-FZ.



MP-111





MP-109

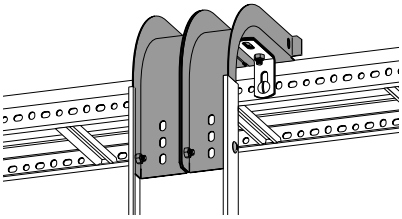
Zinc 20 µm	E-no	Z-EDP	E-no
MP-111 S	11 155 71	MP-111 Y	11 155 72
MP-109 S	11 155 73	MP-109 Y	11 155 74

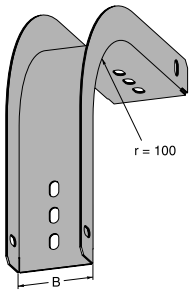
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

External riser

The riser is used for downward conduction of electricity, water, compressed air, etc., to machines or similar.

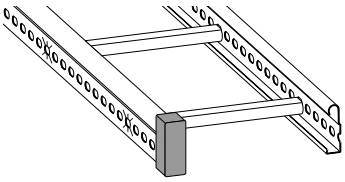


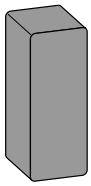


B	Zinc 20 µm	E-no
50	MP-492 S	11 185 59
75	MP-412 S	11 185 61
100	MP-422 S	11 185 63

End protection MP-S, TS, Z, PZ, AZ

End protection designed for MP-S, TS, Z, PZ and AZ.



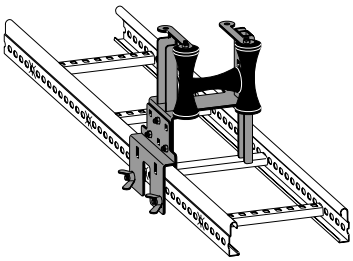


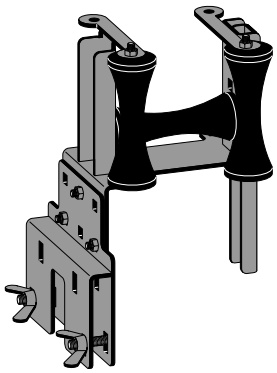
Plastic	E-no
MP-169 P	11 152 92

Cable tray rollers

Fits on all ladders on the market.

Supplied in sets of 5 pcs in a transport box.





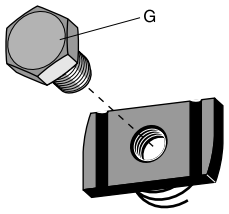
Zinc 10 µm	E-no
MP-242 E	16 004 80

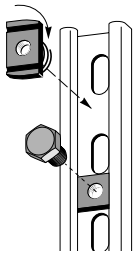
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

Springnut and bolt

Spring nut with M8/M10 bolt, designed for attachment to ceiling pendants/channels.



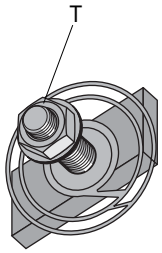


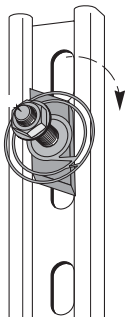
The H dimension refers to the height of the ceiling pendant/channel.

G	H		Zinc 60 µm E-nr		Acid-proof E-no	
MP-V, DV	M8x20	21	MP-976 Z	11 157 14	—	—
MP-FV, FDV	M8x20	41	MP-977 Z	11 157 15	—	—
MP-V, DV	M10x20	21	MP-978 Z	11 157 16	MP-978 R	11 157 19
MP-V, DV	M10x25	21	MP-078 Z	11 157 17	—	—
MP-FV, FDV	M10x25	41	MP-979 Z	11 157 18		

T-bolt

For ceiling pendant/channel with height H=21 mm and H=41 mm.





T	Zinc 10 µm	E-no
M8x25	MP-983 E	11 158 20
M10x35	MP-984 E	11 158 22

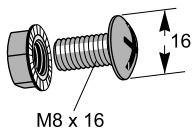
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

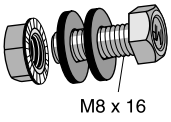
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Mounting bolt

MP-937 is sold in sets of 50.
MP-293 is sold in sets of 25.



MP-937

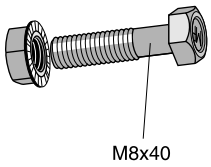


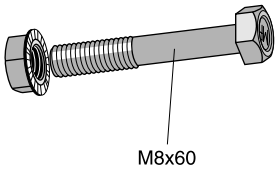
MP-293

Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no
MP-937 E	11 157 11	MP-937 Z	11 156 80	MP-293 R	11 156 81

Roofing bolt with nut M8x40/60

For fastening of yokes on MP-V, FV, DV or FDV ceiling pendants with a through bolt.

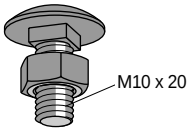




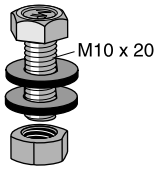
Packs of	Zinc 60 µm	E-no	
10 st	MP-945 Z	11 157 84	MP-V, DV
10 st	MP-946 Z	11 157 86	MP-FDV, FV

Mounting bolt for MP-FZ

MP-947 Z is sold in sets of 50.
MP-947 R is sold in sets of 25.



MP-947 Z



MP-947 R

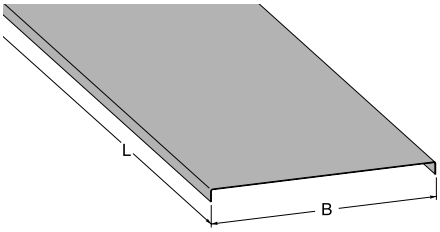
Zinc 60 µm	E-no	Acid-proof	E-no
MP-947 Z	11 155 85	MP-947 R	11 155 86

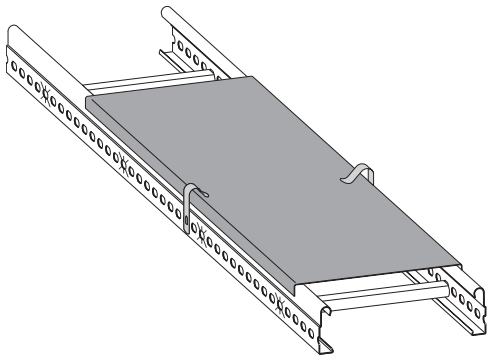
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

NCS 0502-Y Gl 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable ladders

Lock

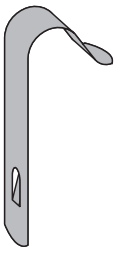


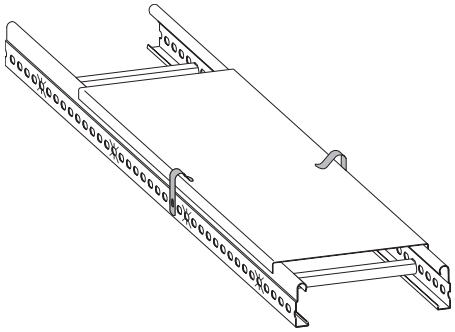


B	Zinc 20 µm	E-no	Length	Thickn.
200	MP-440 S	11 171 79	3 m	0,6
300	MP-450 S	11 171 97	2 m	0,6
400	MP-460 S	11 172 00	2 m	1,0
500	MP-470 S	11 172 03	2 m	1,0
600	MP-480 S	11 171 95	2 m	1,0

Cover clips

NB.
MP-401 R intended for MP-FZ ladders.
MP-402 R for all other ladders.





Steinless st	E-no	Pack of
MP-401 R	11 171 50	10
MP-402 R	11 171 51	10

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Table of contents

MP cable trays
MP lighting channels
We have the market's widest range, 9 widths in the 50 - 600 mm interval.

In order to keep the number of accessories down, we have integrated a yoke into the joint, so that it serves as a basis for both ceiling and wall attachment.

The lengths of the trays vary and are adapted to a suitable suspension distance. 50-200 mm wide trays are 3 m long; with widths of 300-600 mm, the length is 2 m.

Coated trays have uncoated ends as standard. With normal joining, the potential balancing is solved. Other colours and gloss grades are available on request.

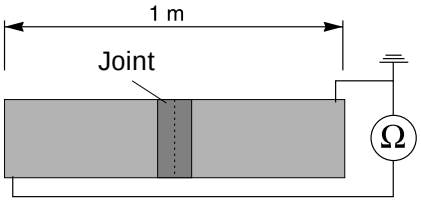
A new ceiling bracket for threaded rod is available on page 55.

MP-Cable trays

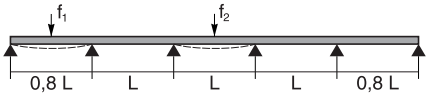
Basics
MP cable trays and MP lighting channels are fully integrated with each other, which means that all accessories are universal. The trays are manufactured from pre-galvanised plating (20 µm zinc layer), which as standard can be regarded as equal to corrosiveness class max C2. For a more precise corrosion assessment, see page 4.
Data for all tray types and widths is shown on page 50-51.

Coating
Standard colour is NCS 0502-Y, gloss 50. Other colours and gloss grades are available on request. Specify colour in NCS number. Coated trays are supplied as standard with internal uncoated ends, which resolves equipot bonding between trays without any extra measures. NB! For splicing cut trays without uncoated ends, equipot bonding must be executed with a cable connection screwed between uncoated surfaces.

Potential balancing
The testing facility in Borås has carried out measurements corresponding to SS-EN 60335-1. All MP cable trays meet the requirements set without extra measures, such as screws or clip fastenings. The resistance value is between approximately 1 mΩ for 50 mm wide trays to approximately 0.5 mΩ for 600 mm wide trays.

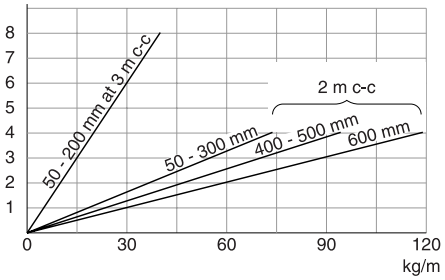


Load
The diagram applies to an f_2 inner compartment, i.e. all compartments except the outer. In order to get the same bending flexure in the f_1 outer compartment, the bracket distance must be 80% of an inner compartment.

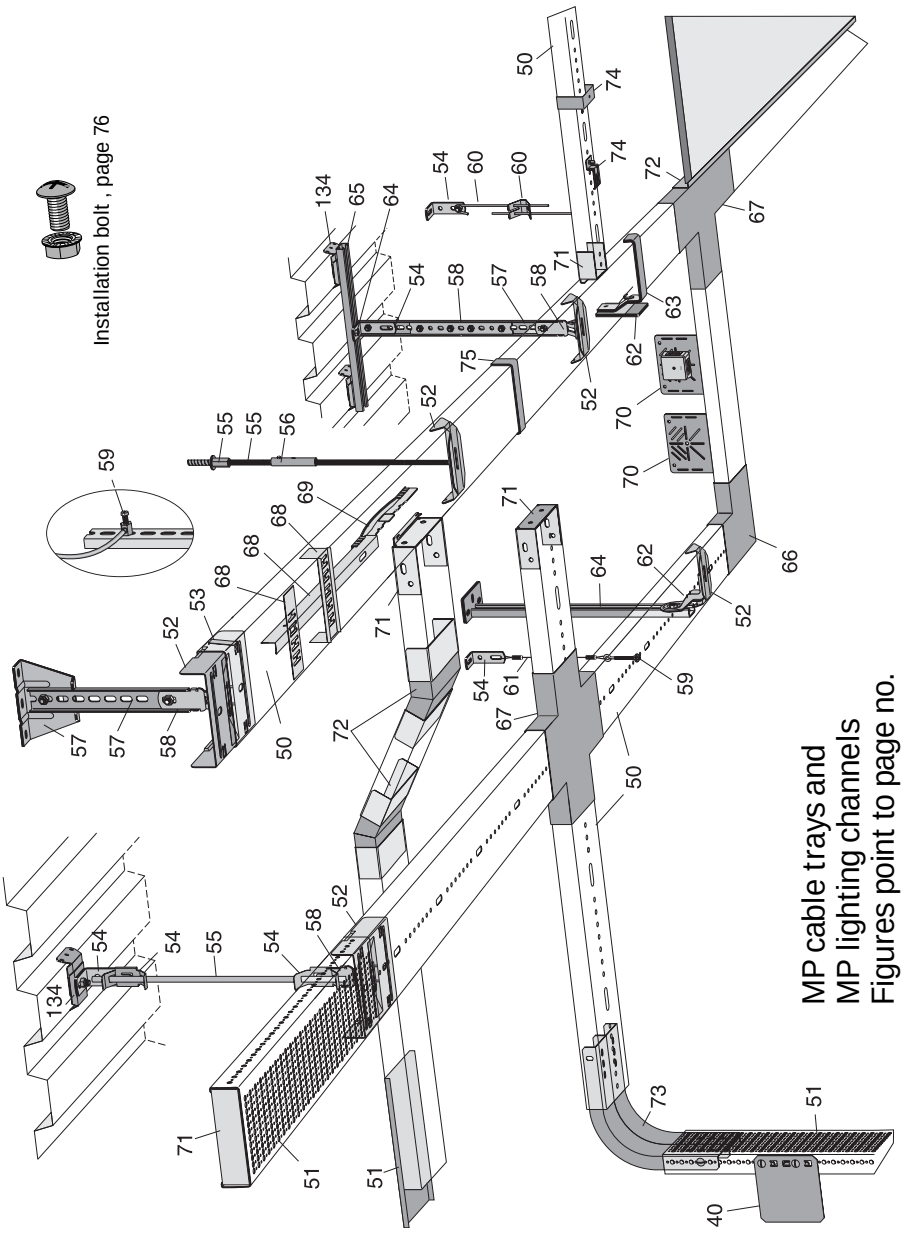


The diagram shows the bending flexure in mm for L=2 m and L=3m bracket distance and suspension in joint.
Ultimate tensile strength ≥1.7 times the load.
In order to get an overall view of the load potential, the load values of the attachments must be observed.

Bending flexure in mm for bracket distance 2 to 3 m.

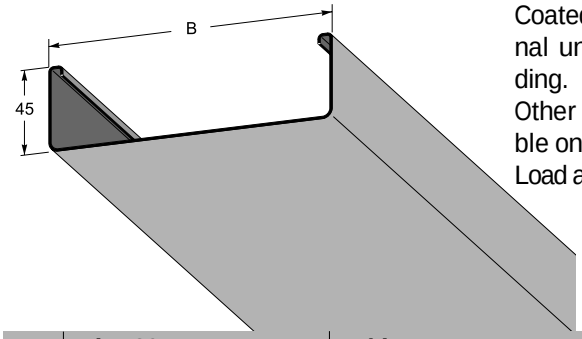


MP cable trays and MP lighting channels
Figures point to page no.



MP-Cable trays

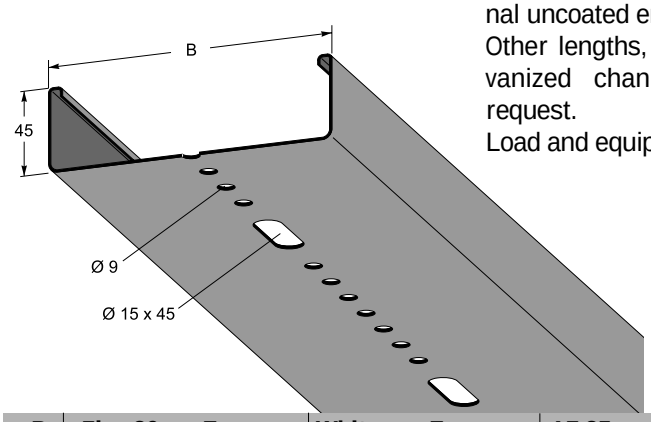
Sealed cable tray



Coated trays are supplied with internal uncoated ends for equipot bounding.
Other lengths and colours are available on request.
Load and equipot bonding, see page 48.

B	Zinc 20 µm	E-no	White	E-no	Length	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	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	3 m	1,0
300	MP-350 S	11 170 30	MP-350 V	11 170 31	2 m	1,0
400	MP-360 S	11 170 34	MP-360 V	11 170 35	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	2 m	1,5

Lighting channel



Coated channels are supplied with internal uncoated ends for equipot bounding.
Other lengths, colours and hot-dip galvanized channels are available on request.
Load and equipot bonding, see page 48.

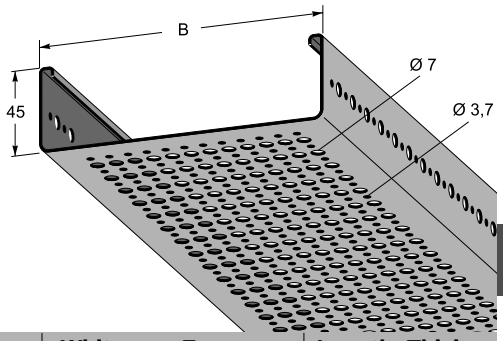
B	Zinc 20 µm	E-no	White	E-no	AZ 25 µm	E-no	Length	Thickn.
50	MP-391 S	11 170 55	MP-391 V	11 170 56			3 m	1,0
75	MP-311 S	11 170 61	MP-311 V	11 170 62	MP-311 AZ		3 m	1,0
100	MP-321 S	11 170 65	MP-321 V	11 170 66			3 m	1,0
150	MP-331 S	11 170 71	MP-331 V	11 170 72			3 m	1,0
200	MP-341 S	11 170 77	MP-341 V	11 170 78			3 m	1,0

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Perforated cable tray

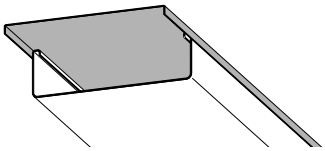
Coated trays are supplied with internal uncoated ends for equipot bounding.
Other lengths and colours are available on request.
Load and equipot bonding, see page 48.

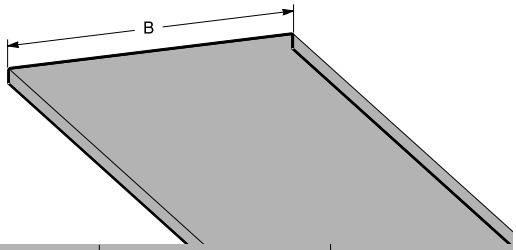


B	Zinc 20 µm	E-no	White	E-no	Length	Thickn.
50	MP-393 S	11 170 96	MP-393 V	11 170 97	3 m	1,0
75	MP-313 S	11 171 02	MP-313 V	11 171 03	3 m	1,0
100	MP-323 S	11 171 08	MP-323 V	11 171 09	3 m	1,0
150	MP-333 S	11 171 14	MP-333 V	11 171 15	3 m	1,0
200	MP-343 S	11 171 18	MP-343 V	11 171 19	3 m	1,0
300	MP-353 S	11 171 24	MP-353 V	11 171 25	2 m	1,0
400	MP-363 S	11 171 28	MP-363 V	11 171 29	2 m	1,25
500	MP-373 S	11 171 32	MP-373 V	11 171 33	2 m	1,25
600	MP-383 S	11 171 34	MP-383 V	11 171 35	2 m	1,5

Cover

The cover is pressed tight onto the outside of the tray without tools.
Cover clips see page 44.



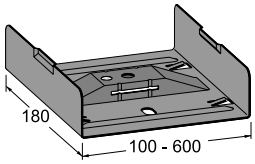


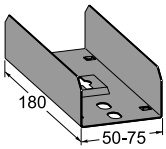
B	Zinc 20 µm	E-no	White	E-no	AZ	E-no	L	Thickn.
50	MP-490 S	11 171 59	MP-490 V	11 171 60	MP-490 AZ	—	3 m	0,6
75	MP-410 S	11 171 61	MP-410 V	11 171 62	MP-410 AZ	—	3 m	0,6
100	MP-420 S	11 171 69	MP-420 V	11 171 70	MP-420 AZ	—	3 m	0,6
150	MP-430 S	11 171 75	MP-430 V	11 171 76	MP-430 AZ	—	3 m	0,6
200	MP-440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

As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable trays

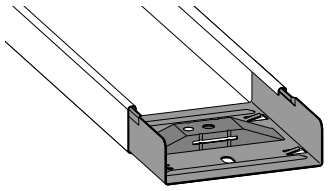
Joint



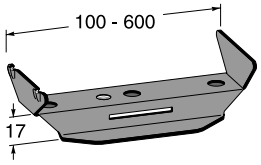


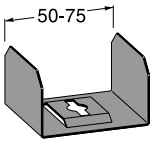
The joint has a built-in yoke.
Joint 100-600 mm can be locked with MP-906 clips, see page 53.
50-75 mm has a built-in friction lock.
Maximum load for the yoke in the joint = 150 kg for an evenly distributed load.
Ultimate load ≥1.7 times maximum load.

B	Zinc 20 µm	E-no	AZ 185	E-no
50	MP-396 S	11 176 10	—	
75	MP-314 S	11 175 97	MP-314 AZ	
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	—	



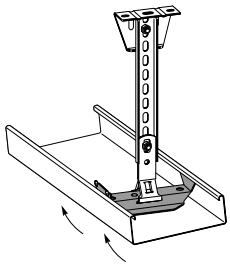
Yoke



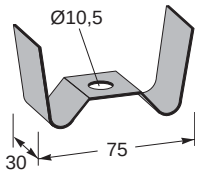


NB! Yoke 50-75 mm is pushed in from the end of the tray and can only be used for central pendant suspension.
Maximum load yoke = 150 kg for an evenly distributed load.
Ultimate load ≥1.7 times maximum load.

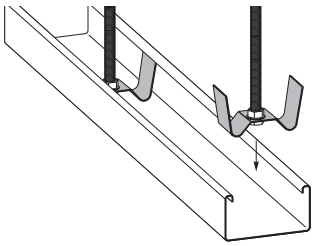
B	Zinc 20 µm	E-no	AZ 185	E-no
50	MP-596 S	11 174 51	—	
75	MP-516 S	11 174 53	MP-516 AZ	
100	MP-526 S	11 174 55	—	
150	MP-536 S	11 174 59	—	
200	MP-546 S	11 174 63	—	
300	MP-556 S	11 174 67	—	
400	MP-566 S	11 174 71	—	
500	MP-576 S	11 174 75	—	
600	MP-586 S	11 174 79	—	



Yoke 75 mm



Nut, see page 87.

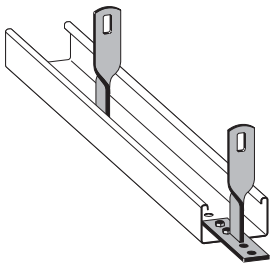


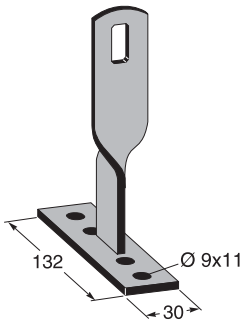
Zinc 25 µm	E-no
MP-517 S	11 173 98

As regards the MP number, the letters stands for: (see page 4)
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Coupling/suspended

Used as a joint/suspension for hot-dip galvanized lighting channels.

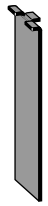


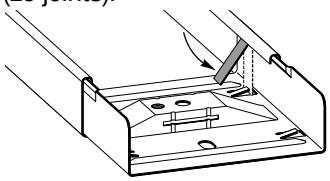


Zinc 60 µm	E-no
MP-933 Z	—

Clip fastenings

Clip fastenings are used for fastening the joint in 100-600 mm tray widths.
MP-906 S are supplied in sets of 4 (used for one joint).
MP-906 S2 are supplied in packs of 100 (25 joints).

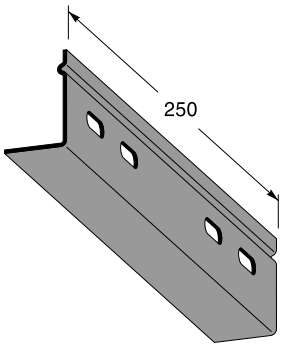


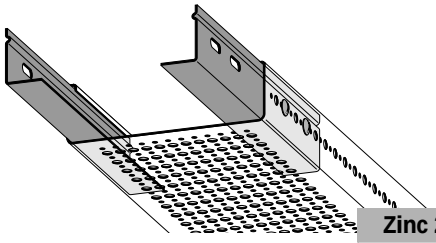


Zinc 20 µm	E-no	White	E-no
MP-906 S	11 176 40	—	
MP-906 S2	11 176 39	—	

Lateral joint

Assembled with MP-855 E (E50 021 58) bolts and nuts, sold in sets of 20, see page 119.



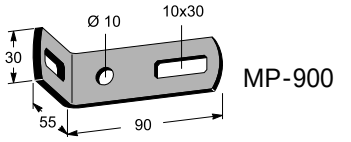


Zinc 20 µm	E-no	White	E-no
MP-908 S	11 176 43	—	

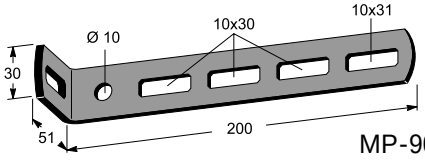
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)
NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable trays

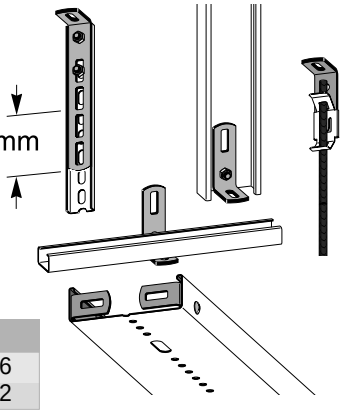
Angle bracket



MP-900

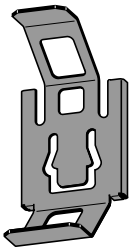


MP-901

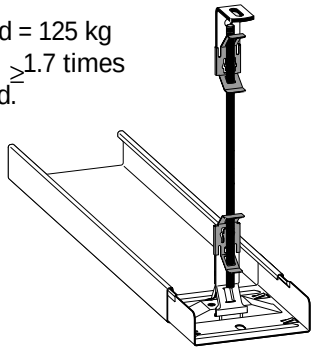


Zinc 60 µm	E-no	White	E-no
MP-900 Z	11 153 85	MP-900 V	11 153 86
MP-901 Z	11 153 81	MP-901 V	11 153 82

Bracket for threaded rod M10

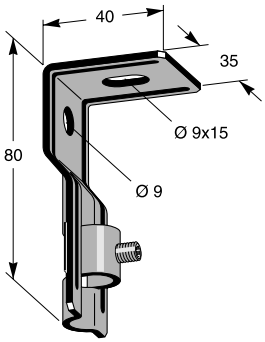


Maximum load = 125 kg
Ultimate load ≥1.7 times maximum load.

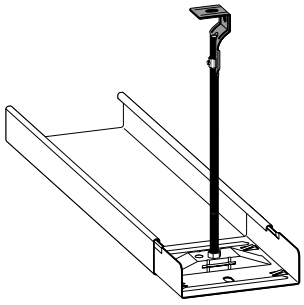


Zinc 10 µm	E-no	White	E-no
MP-925 E	11 175 01	MP-925 V	11 175 02

Ceiling bracket, pipe



Use a 3 mm Allen key for the locking screw.
Maximum load = 75 kg
Ultimate load ≥1.7 times maximum load.



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

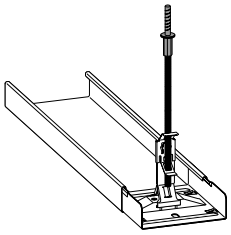
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling bracket M8/M10

Ceiling bracket intended for attaching M8 or M10 threaded rod to concrete. Drill a Ø6x65 mm hole in the base; screw the ceiling bracket into the hole. In uncracked K25 concrete, the extraction force is 400 kg with threefold safety.

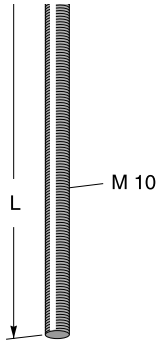


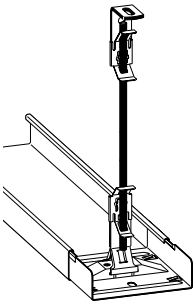
B	Packs of	Zinc 5 µm	E-no
7,5x55	100	MP-923 E	11 175 53
7,5x55	10	MP-923 E10	15 094 45

Threaded rod M10

In order to achieve adjustability of ±25 mm in combination with a threaded rod bracket, cut the pendant as follows:

50-75 mm: 90 mm shorter than the desired building height.
100-600 mm: 50 mm shorter than the desired building height.



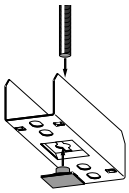


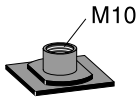
L	Zinc 10 µm	E-no	White	E-no
2000	MP-927 E	11 175 55	MP-927 V	11 175 56
3000	MP-928 E	11 175 57	MP-928 V	11 175 58

Threaded rod nut

Used together with a galvanised threaded rod in widths of 50-75 mm.
For widths of 100-600 mm, use nuts directly in the joint/yoke.

Maximum load = 125 kg
Ultimate load ≥1.7 times maximum load.





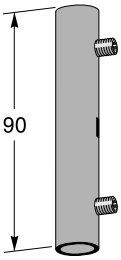
Zinc 10 µm	E-no	White	E-no
MP-929 E	11 173 97	—	

As regards the MP number, the letters stands for: **V** = White, **B** = Beige (see page 4)
NCS 0502-Y GI 50, NCS 2502-Y
R = acid-proof, **Y** = Z-EDP (see page 7)

MP-Cable trays

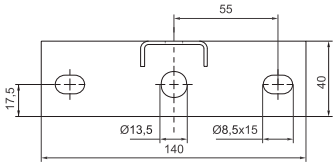
Joint for threaded rod

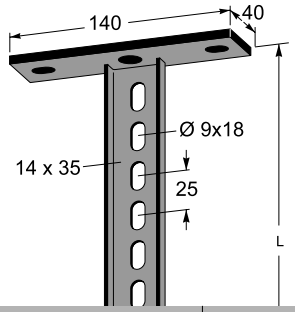
The joint is locked using a 3 mm socket head cap screw.



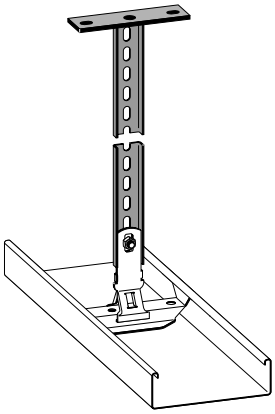
Zinc 10 µm	E-no	White	E-no
MP-926 E	11 175 21	MP-926 V	11 175 22

Ceiling pendant MP-P





If a stronger pendant is required, use a MP-V ceiling pendant, see page 64.



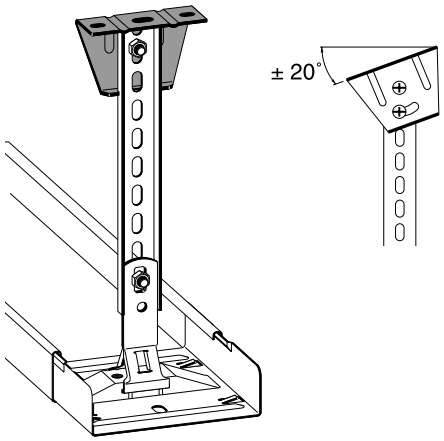
L	Zinc 60 µm	E-no	White	E-no
300	MP-957 Z	11 157 04	MP-957 V	—
400	MP-958 Z	11 157 06	MP-958 V	—
500	MP-959 Z	11 157 08	MP-959 V	—
700	MP-960 Z	11 157 10	MP-960 V	—
1 000	MP-961 Z	11 157 12	MP-961 V	—

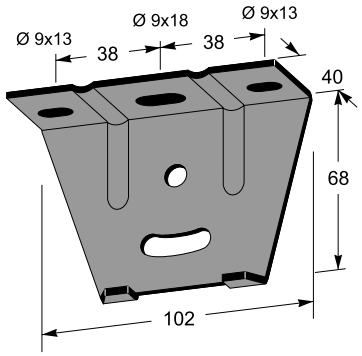
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling bracket

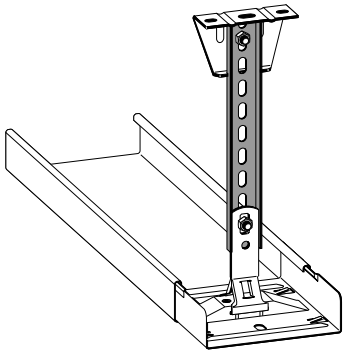


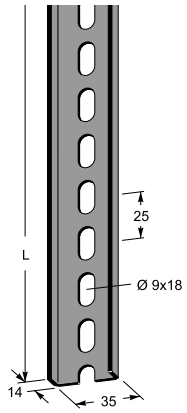


Zinc 20 µm	E-no	White	E-no
MP-904 S	11 153 46	MP-904 V	11 153 48

Pendant rail

The pendant rail is equipped with cutting marks every 100 mm.





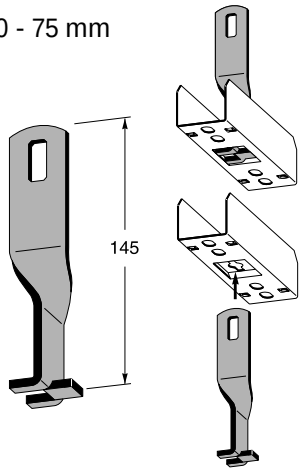
L	Zinc 20 µm	E-no	White	E-no
300	MP-911 A	11 153 26	MP-911 V	11 153 28
500	MP-912 A	11 153 32	MP-912 V	11 153 34
3000	MP-910 A	11 153 38	MP-910 V	11 153 40

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

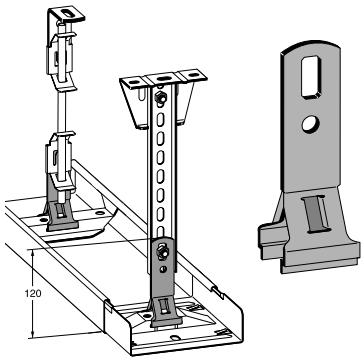
Pendant shaft

50 - 75 mm



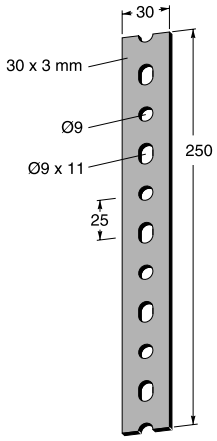
Pendant shaft for central suspension in joints or yokes.

100 - 600 mm



Width	Zinc 20 µm	E-no	White	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
100-600	MP-931 S	11 173 87	MP-931 V	11 173 88	——	——

Pendant joint



The joint fits the folding dimensions of the pendant rail.

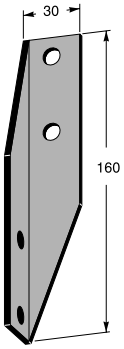
Zinc 60 µm	E-no	White	E-no
MP-919 Z	11 153 11	MP-919 V	11 153 12

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

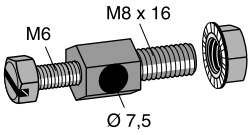
Pendant angle piece

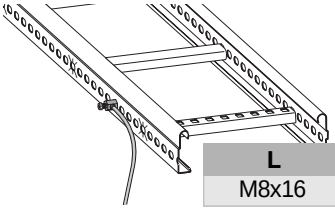


Zinc 60 µm	E-no	White	E-no
MP-918 Z	11 153 23	MP-918 V	11 153 24

Potential balancing bolt

The conductor is connected directly to the potential balancing bolt with no cable terminals. Sold in sets of 10.

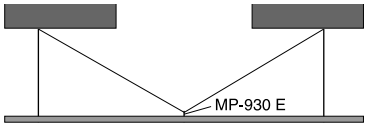




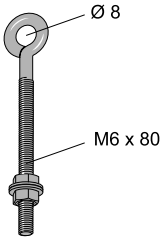
L	Zinc 10 µm	E-no	Acid-proof	E-no
M8x16	MP-839 E	11 157 88	MP-839 R	11 157 89

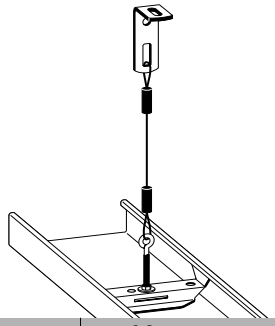
Eyebolt

Eyebolts should not be used as sole pendants in tray widths over 150 mm.



An example of loading with wire where normal pendant suspension cannot be used.





Zinc 10 µm	E-no	White	E-no
MP-930 E	11 174 11	—	

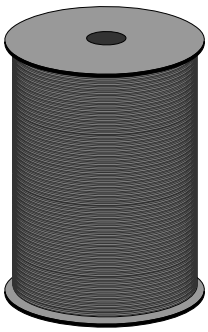
As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

NCS 0502-Y GI 50
NCS 2502-Y

R = acid-proof
Y = Z-EDP (see page 7)

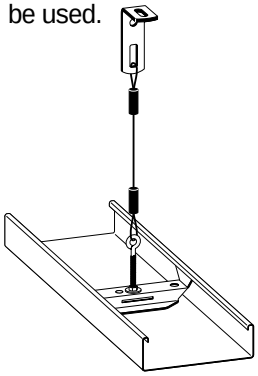
MP-Cable trays

Wire



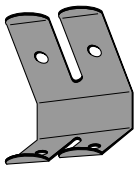
As a lock for the wire, it is suggested that a "sugar cube" be used.

Wire Ø 2 mm.
Length 100 m.



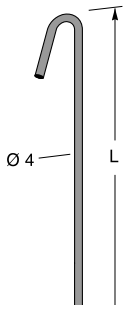
Zinc 10 µm	E-no	White	E-no
MP-770 E	11 185 00	—	

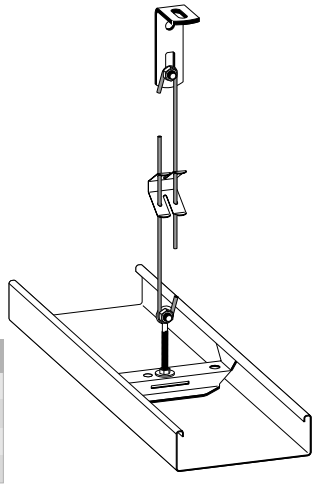
Wire pendant lock



Zinc 20 µm	E-no	White	E-no
MP-710 S	11 185 02	—	

Wire pendant





L	Zinc 20 µm	E-no	White	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	—	

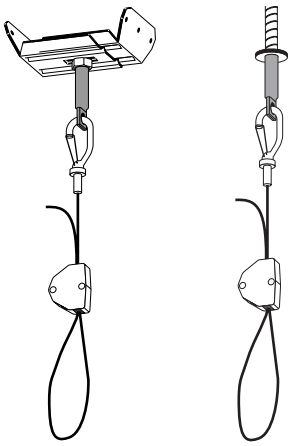
As regards the MP number, the letters stands for: (see page 4)

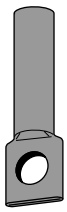
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Eyesleeve M8x50

For wire suspension on ceiling made of steel or concrete. See page 137 for the concrete screw and page 134 for brackets to corrugated sheeting. Sold in sets of ten.

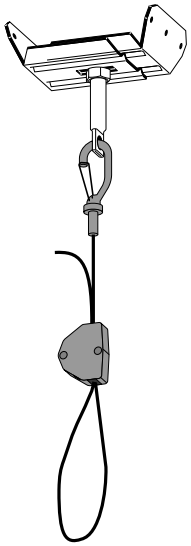


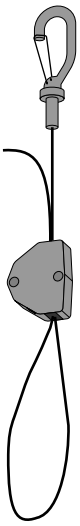


Zinc 20 µm	E-no	White	E-no
MP-706 E	11 185 35	—	

Wirependant 2 mm

Wire with quick lock, Ø2 mm.
Max. load 100 kg,
Ultimate load ≥ 1.7 times maximum load.



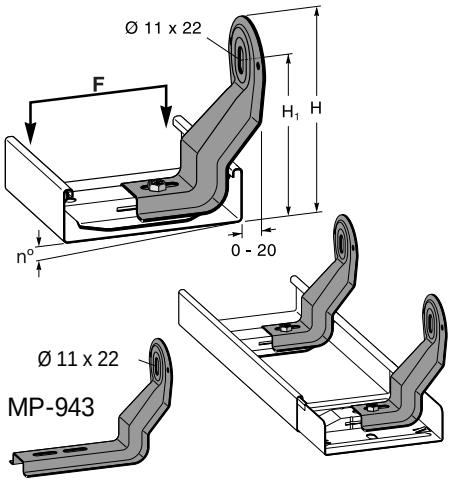


L	Zinc 20 µm	E-no	White	E-no
1000	MP-701 E	11 185 31	—	
2000	MP-702 E	11 185 32	—	
3000	MP-703 E	11 185 33	—	
5000	MP-705 E	11 185 34	—	

As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

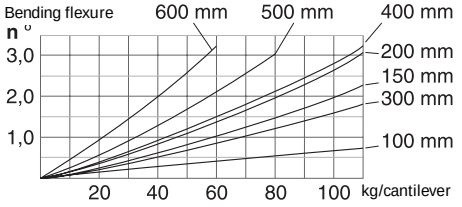
MP-Cable trays

Cantilever, wall



Fitted to joints or yokes with MP-941 E bolts, see below.

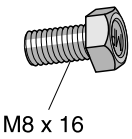
The diagram shows the bending flexure (nº) in degrees for an evenly distributed load F (kg) on the bracket.



Ultimate load ≥1.7 times maximum load.

B	H	H1	Zinc 20 µm	E-no	White	E-no
100-200	155	120	MP-942 S	11 172 05	MP-942 V	11 172 06
300-600	180	144	MP-943 S	11 172 09	MP-943 V	11 172 10

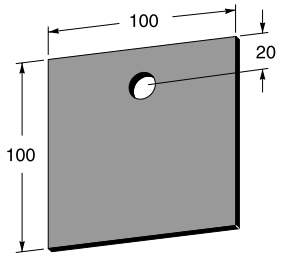
Bolt M8x16



Bolt including toothed plate connector for fitting of internal cantilever in joint or yoke.

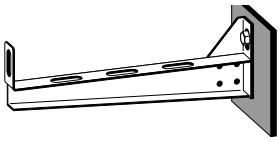
Zinc 10 µm	E-no	White	E-no
MP-941 E	11 157 13	—	

Backing plate



The backing plate is used to distribute a cantilever's surface pressure on walls with porous surface material.

Plate thickness = 5 mm.

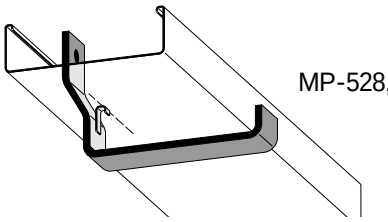


Zinc 60 µm	E-no	White	E-no
MP-962 Z	11 172 80	MP-962 V	11 172 81

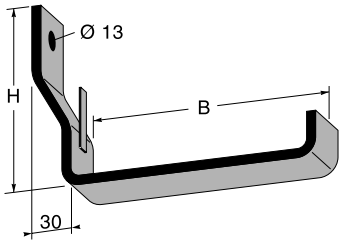
As regards the MP number, the letters stands for: (see page 4)

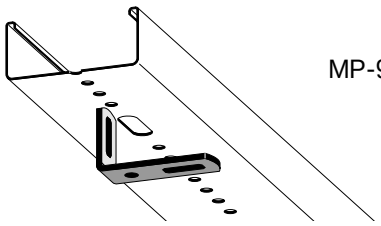
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Cantilever arm

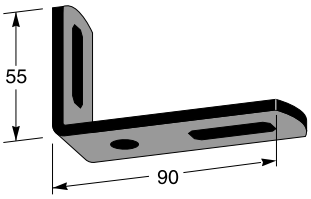


MP-528, 538



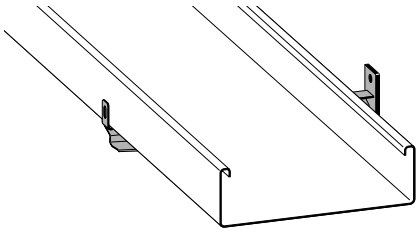


MP-900

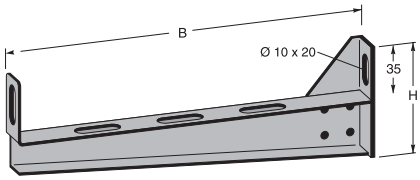


B	H	Maxload	Zinc 60 µm	E-no	White	E-no
100	125	40 kg	MP-528 Z	11 172 57	MP-528 V	11 172 58
150	125	50 kg	MP-538 Z	11 172 61	MP-538 V	11 172 62
			MP-900 Z	11 153 85	MP-900 V	11 153 86

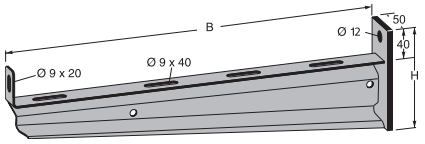
Cantilever arm, light



Ultimate load ≥1.7 times maximum load.



MP-753 - 755



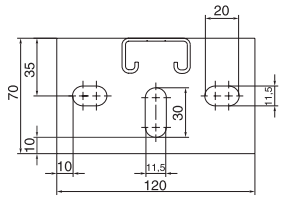
MP-175 - 176

B	H	Maxload	Zinc	E-no	White	E-no
240	80	150 kg	MP-753 S	11 165 52	MP-753 V	11 165 53
340	90	150 kg	MP-754 S	11 165 61	MP-754 V	11 165 62
440	100	150 kg	MP-755 S	11 165 70	MP-755 V	11 165 71
550	115	370 kg	MP-175 Z2	11 151 85	MP-175 V2	11 151 86
650	125	370 kg	MP-176 Z2	11 151 88	MP-176 V2	11 151 89

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

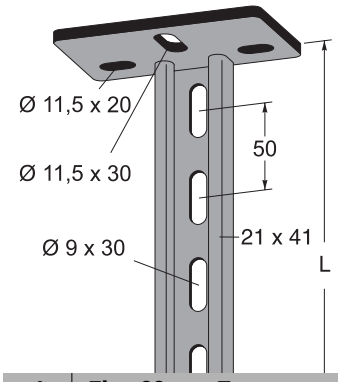
Ceiling pendant MP-V

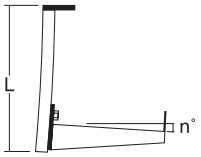


For attachment use spring nut and bolt or T-bolt.
Other pendants, see pages 28 - 29.

Lengths	200 mm	300 mm	400 mm	500 mm	600 mm	Bending flexure
250	175 kg	132 kg	106 kg	89 kg	76 kg	n = **0,7**˚
375	175 kg	132 kg	106 kg	89 kg	76 kg	n = **1,0**˚
500	175 kg	132 kg	106 kg	89 kg	76 kg	n = **1,4**˚
750	175 kg	132 kg	106 kg	89 kg	76 kg	n = **2,2**˚
1000	175 kg	132 kg	106 kg	89 kg	76 kg	n = **2,9**˚

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load. For other dimensions, contact our marketing department.

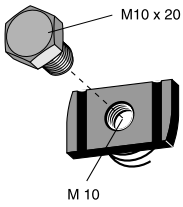


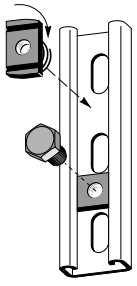


L	Zinc 60 µm	E-no	White	E-no
250	MP-964 Z	11 157 20	MP-964 V	11 157 21
375	MP-965 Z	11 157 24	MP-965 V	11 157 25
500	MP-966 Z	11 157 28	MP-966 V	11 157 29
750	MP-967 Z	11 157 32	MP-967 V	11 157 33
1000	MP-968 Z	11 157 36	MP-968 V	11 157 37

Spring nut and bolt M10x20

The spring nut and bolt (H=21) is equipped with springs to prevent it slipping out of position.





Zinc 60 µm	E-no	White	E-no
MP-978 Z	11 157 16	—	

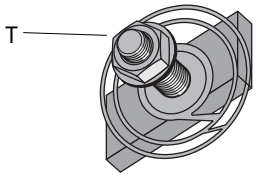
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

T-bolt

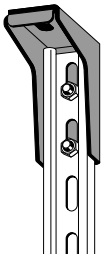
For fitting on ceiling pendant/channel with height H=21 mm and H=41 mm.

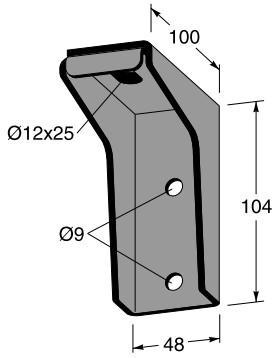


T	Zinc 10 µm	E-no
M8x25	MP-983 E	11 158 20
M10x35	MP-984 E	11 158 22

Ceiling bracket

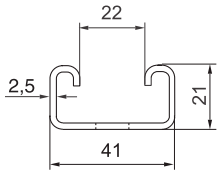
The ceiling bracket is combined with a channel. Choose from prepared lengths or cut to the desired length yourself, see below.

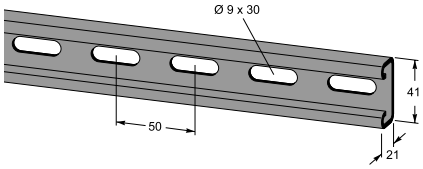




Zinc 20 µm	E-no	White	E-no
MP-230 S	11 157 97	MP-230 V	11 157 96

Channel MP-V





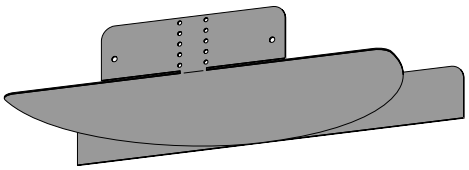
L	Zinc 20 µm	E-no	White	E-no
3000	MP-231 S	11 158 02	MP-231 V	11 158 01
250	MP-024 S	11 158 39	MP-024 V	11 158 38
375	MP-025 S	11 158 43	MP-025 V	11 158 42
500	MP-026 S	11 158 47	MP-026 V	11 158 46
750	MP-027 S	11 158 51	MP-027 V	11 158 50
1000	MP-028 S	11 158 55	MP-028 V	11 158 54

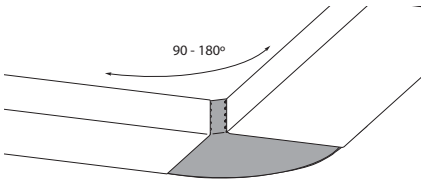
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

Adjustable bend

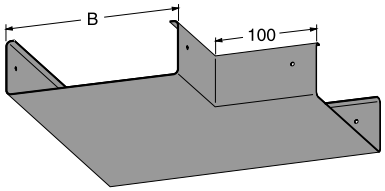
Adjustable bends for all tray types.





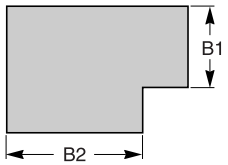
B	Zinc 20 µm	E-no	White	E-no
50	MP-493 S	11 193 00	MP-493 V	11 193 01
100	MP-423 S	11 193 04	MP-423 V	11 193 05
150	MP-433 S	11 193 08	MP-433 V	11 193 09
200	MP-443 S	11 193 12	MP-443 V	11 193 13
300	MP-453 S	11 193 16	MP-453 V	11 193 17
400	MP-463 S	11 193 20	MP-463 V	11 193 21
500	MP-473 S	11 193 24	MP-473 V	11 193 25
600	MP-483 S	11 193 28	MP-483 V	11 193 29

Flat elbow



The elbow is also an external joint, which hides the uncoated edges of cutted trays. Elbows can be supplied with built-in pendant bracket on special orders.

Various flat elbows are available on request (please state dimensions from the top).



B	Zinc 20 µm	E-no	White	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
100	MP-427 S	11 192 04	MP-427 V	11 192 05
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
300	MP-457 S	11 192 16	MP-457 V	11 192 17
400	MP-467 S	11 192 20	MP-467 V	11 192 21
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

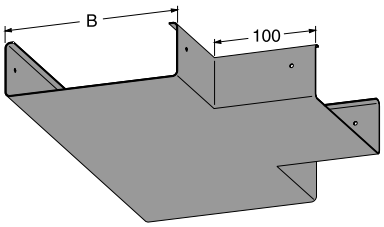
As regards the MP number, the letters stands for: (see page 4)

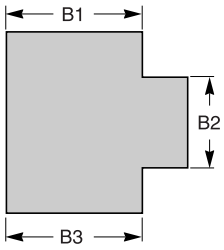
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Tee piece

The elbow is also an external joint, which hides the uncoated edges of cutted trays. Elbows can be supplied with built-in pendant bracket on special orders.

Various tee-pieces are available on request (please state dimensions from the top).



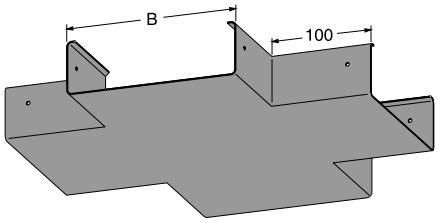


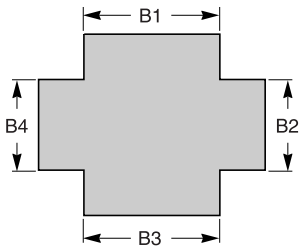
B	Zinc 20 µm	E-no	White	E-no
50	MP-498 S	11 192 28	MP-498 V	11 192 29
75	MP-418 S	11 179 05	MP-418 V	11 179 06
100	MP-428 S	11 192 32	MP-428 V	11 192 33
150	MP-438 S	11 192 36	MP-438 V	11 192 37
200	MP-448 S	11 192 40	MP-448 V	11 192 41
300	MP-458 S	11 192 44	MP-458 V	11 192 45
400	MP-468 S	11 192 48	MP-468 V	11 192 49
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

Cross piece

The elbow is also an external joint, which hides the uncoated edges of cutted trays. Elbows can be supplied with built-in pendant bracket on special orders.

Various cross-pieces are available on request (please state dimensions from the top).





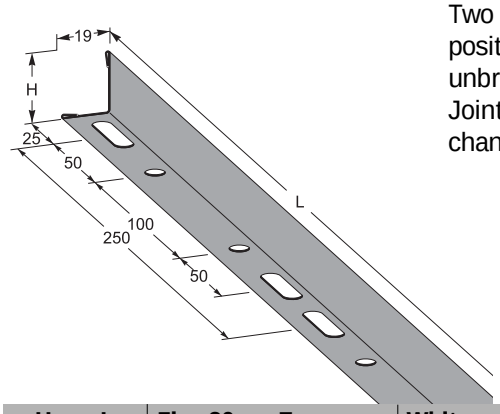
B	Zinc 20 µm	E-no	White	E-no
50	MP-499 S	11 192 56	MP-499 V	11 192 57
75	MP-419 S	11 180 05	MP-419 V	11 180 06
100	MP-429 S	11 192 60	MP-429 V	11 192 61
150	MP-439 S	11 192 64	MP-439 V	11 192 65
200	MP-449 S	11 192 68	MP-449 V	11 192 69
300	MP-459 S	11 192 72	MP-459 V	11 192 73
400	MP-469 S	11 192 76	MP-469 V	11 192 77
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

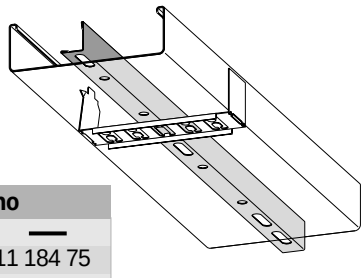
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y Gl 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

Divider

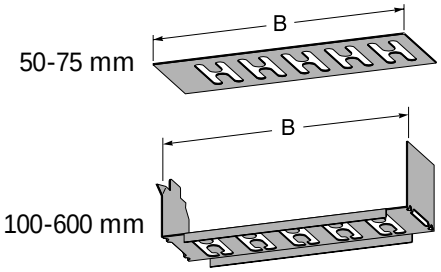
Dividers intended for dividing trays into channels are fastened using tying supports. Two tying supports are best on a divider positioned freely between two joints; for an unbroken stretch use one support every 1.5 m. Joints for dividers provide an unbroken channel across the tray's joints/yokes.



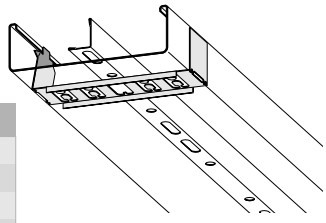


H	L	Zinc 20 µm	E-no	White	Eno
25	1750	MP-127 S	11 184 70	—	—
25	2750	MP-137 S	11 184 72	MP-137 V	11 184 75
40	1750	MP-148 S	11 184 77	—	—
40	2750	MP-149 S	11 184 78	—	—

Support for tying/divider



Intended for tying of cables and/or attachment of dividers; the support is snapped tight into the tray. Channel widths are available in 25 mm stages.



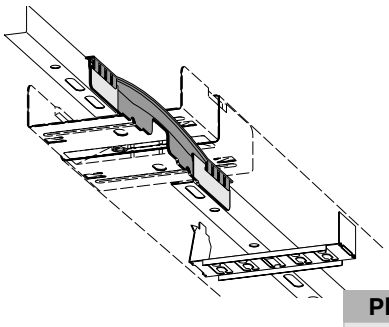
L	Zinc 20 µm	E-no	Zinc 20 µm	E-no
50	MP-696 S	11 185 08	—	
75	MP-616 S	11 185 09	—	
100	—		MP-627 S	11 185 40
150	—		MP-637 S	11 185 42
200	—		MP-647 S	11 185 44
300	—		MP-657 S	11 185 46
400	—		MP-667 S	11 185 48
500	—		MP-677 S	11 185 50
600	—		MP-687 S	11 185 52

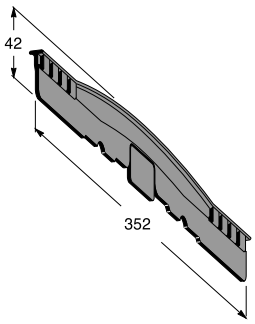
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Separator plate joint

Joints for dividers provide an unbroken channel across joints/yokes.

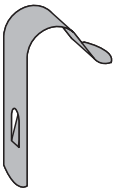


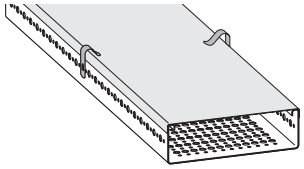


Plastic	E-no	White	E-no
MP-137 P	11 184 73	—	

Cover clips

Cover clips for cable trays and lightning-channels.
For seald cable trays and lightning channels drill Ø7 in the middle of the side member.

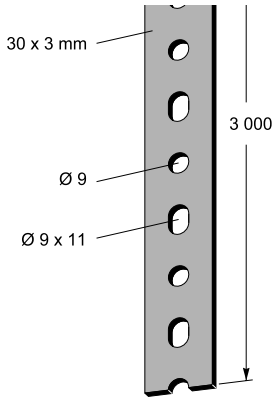


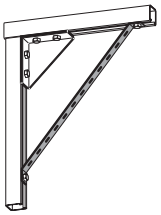


Steinless st	E-no	Packs of
MP-401 R	11 171 50	10

Universal strap

The universal strap is cut and broken into the desired shape.



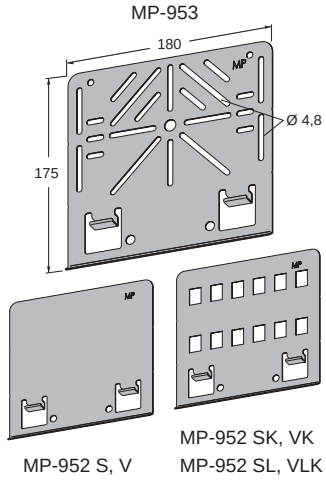


Zinc 60 µm	E-no	White	E-no
MP-210 Z	11 157 02	—	

As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

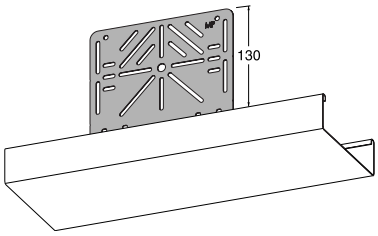
MP-Cable trays

Mounting bracket



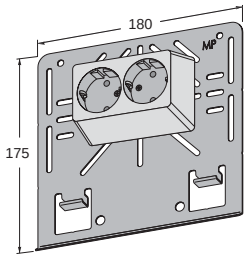
Mounting brackets for mounting socket outlets and data outlets of type Keystone or Lexcom.

MP-952 SK (Keystone)
MP-952 SL (Lexcon)
MP-952 VK (Keystone)
MP-952 VL (Lexcon

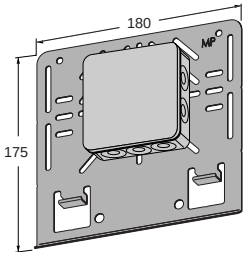


Zinc 20 µm	E-no	White	E-no	Zinc 20 µm	E-no	White	E-no
MP-952 S	11 183 80	MP-952 V	11 183 81	MP-952 SK	11 183 92	MP-952 VK	11 183 93
MP-953 S	11 183 83	MP-953 V	11 183 84	MP-952 SL	11 183 94	MP-952 VL	11 183 95

Mounting bracket + with connectionbox/socket outlet

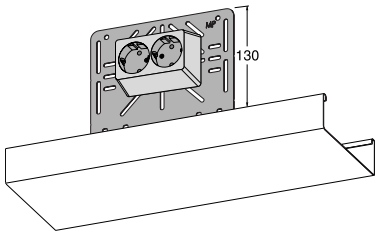


SF, VF



SD, VD

Mounting bracket E11 184 09 - 10 with pre-assembled connection box in white thermoplastic with eight lead-ins. Supplied without terminal blocks.
Mounting bracket E11 184 13 - 14 with pre-assembled 2-way socket outlet in white thermoplastic with base plate, screwless connections and childproof. Two neutral bridge connectors.

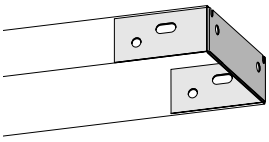


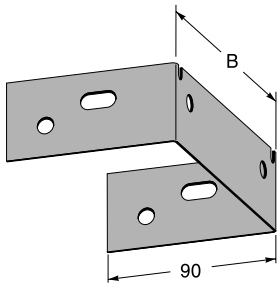
Zinc 20 µm	E-no	White	E-no
MP-953 SD	11 183 86	MP-953 VD	11 183 87
MP-953 SF	11 183 89	MP-953 VF	11 183 90

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

End bracket

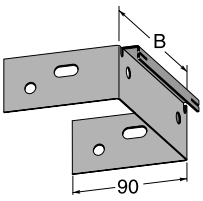




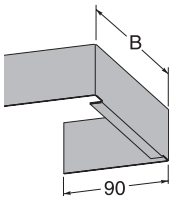
B	Zinc 20 µm	E-no	White	E-no
50	MP-594 S	11 178 81	MP-594 V	11 178 82
75	MP-514 S	11 179 00	MP-514 V	11 179 03
100	MP-524 S	11 178 85	MP-524 V	11 178 86
150	MP-534 S	11 178 87	MP-534 V	11 178 88
200	MP-544 S	11 178 89	MP-544 V	11 178 90
300	MP-554 S	11 178 91	MP-554 V	11 178 92
400	MP-564 S	11 178 94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

End hook / End cover

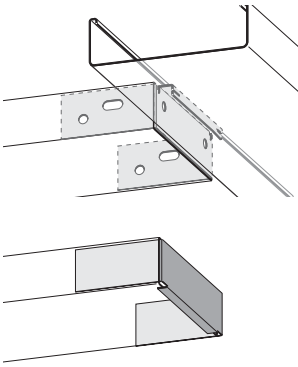
The end hook has lock flaps that prevent the connecting tray from loosening or tipping. In order to prevent the end hook from sliding lengthwise, pinch the hook element using pliers or similar.



End hook



End cover

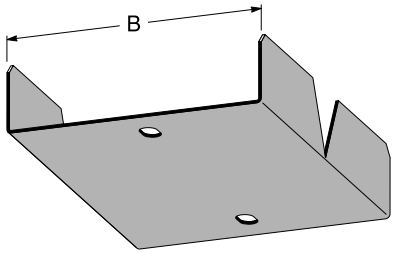


B	End hook Zinc 20 µm	E-no	End cover White	E-no
50	MP-599 S	11 178 65	MP-592 V	11 179 10
75	MP-519 S	11 178 68	MP-512 V	11 179 12
100	MP-529 S	11 178 71	MP-522 V	11 179 14
150	MP-539 S	11 178 76	MP-532 V	11 179 16
200	MP-549 S	11 178 77	MP-542 V	11 179 18
300	MP-559 S	11 178 78	MP-552 V	11 179 20
400	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

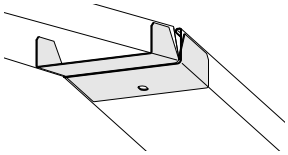
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y Gl 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

Angle connector

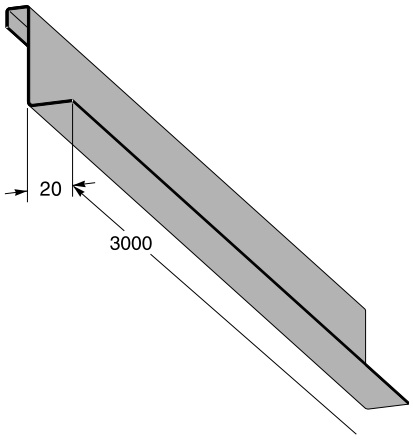


Used for making vertical level adjustments. Mount it as a joint.



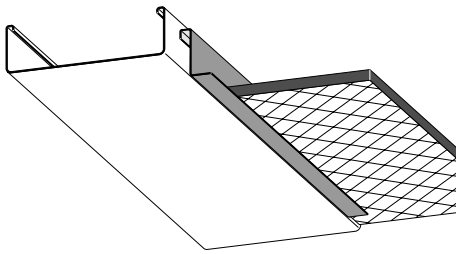
B	Zinc 20 µm	E-no	White	E-no
50	MP-398 S	11 177 70	MP-398 V	11 177 71
75	MP-318 S	11 177 72	MP-318 V	11 177 73
100	MP-328 S	11 177 74	MP-328 V	11 177 75
150	MP-338 S	11 177 78	MP-338 V	11 177 79
200	MP-348 S	11 177 82	MP-348 V	11 177 83
300	MP-358 S	11 177 86	MP-358 V	11 177 87
400	MP-368 S	11 177 90	MP-368 V	11 177 91
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

False ceiling holder



The false ceiling profile is fitted by hanging it over the side edge of the tray. It then provides a fixing edge for assembly of the false ceiling of your choice.

Profile length = 3 m



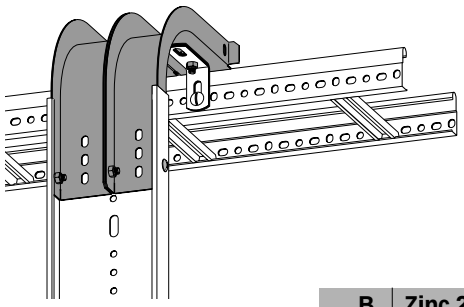
Zinc 20 µm	E-no	White	E-no
MP-625 S	11 190 24	MP-625 V	11 190 25

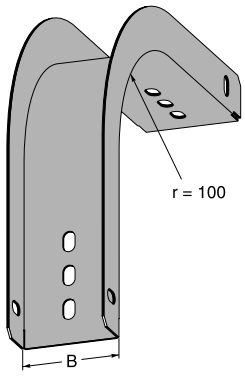
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Riser

NB! For a tray width of 150 mm, two bends with a width of 75 mm are used. Two 100 mm bends are used for 200 mm trays.





B	Zinc 20 µm	E-no	White	E-no
50	MP-492 S	11 185 59	MP-492 V	11 185 60
75	MP-412 S	11 185 61	MP-412 V	11 185 62
100	MP-422 S	11 185 63	MP-422 V	11 185 64

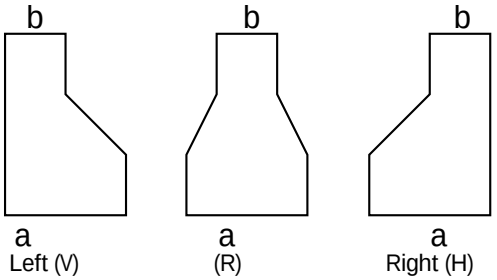
Reduction piece

Manufactured to order; order as per the table.

Form	Internal dimensions	External dimensions	Surface treatment
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 galvanized
H 600 - 200 V is a reduction to the right from 600 mm to 200 mm painted white

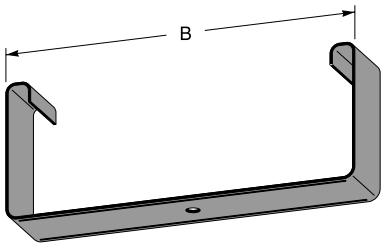
from the top



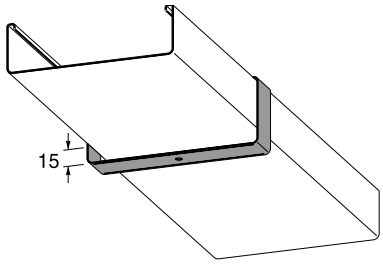
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Cable trays

Fitting bracket

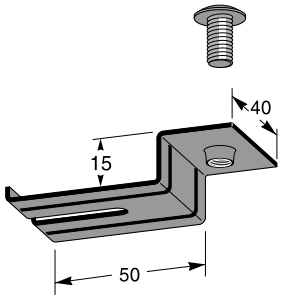


The fitting bracket surrounds the whole tray. Lighting fittings with plugs are then easy to move.
The bracket is manufactured to order, for tray widths 300 - 600 mm.



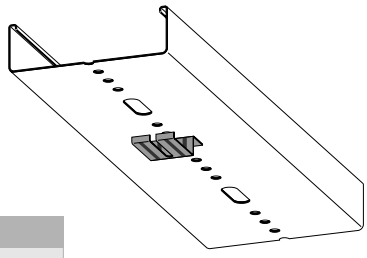
B	Zinc 20 µm	E-no	White	E-no	AZ 185	E-no
50	MP-692 S	11 184 33	MP-692 V	11 184 34	—	
75	MP-612 S	11 184 37	MP-612 V	11 184 38	MP-612 AZ	
100	MP-622 S	11 184 39	MP-622 V	11 184 40	—	
150	MP-632 S	11 184 43	MP-632 V	11 184 44	—	
200	MP-642 S	11 184 47	MP-642 V	11 184 48	—	

Fitting bracket



The angled fitting bracket is screwed tight into the hole system on the lighting channel.

Tip! First fit the bracket onto the fitting and adjust the attachment holes to the channel's hole system c-c 25 mm, then screw the fitting to the channel. The bracket is supplied with M8 x 16 mm screws.



Zinc 20 µm	E-no	White	E-no
MP-935 S	11 184 21	—	

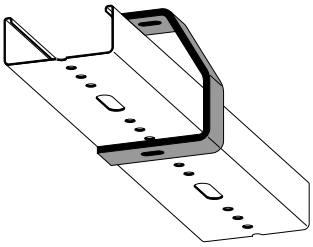
As regards the MP number, the letters stands for: (see page 4)

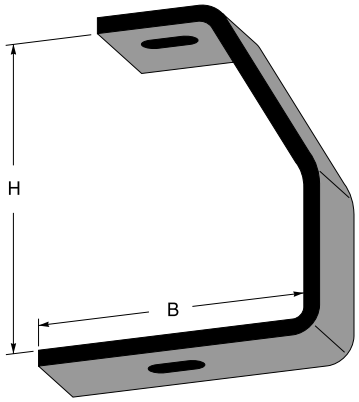
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling bracket

Adds approximately 4 mm under the tray.

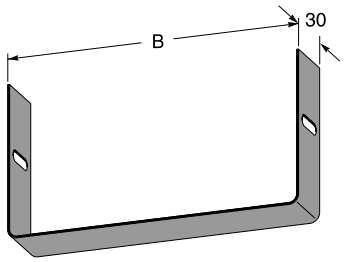


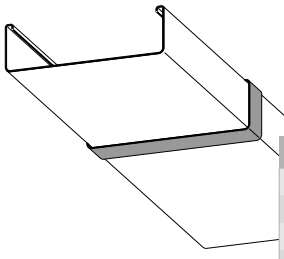


B	H	Zinc 60 µm	E-no	White	E-no
50	96	MP-593 Z	11 173 09	MP-593 V	11 173 10
75	96	MP-513 Z	11 173 11	MP-513 V	11 173 12
100	120	MP-523 Z	11 173 17	MP-523 V	11 173 18

Decor joint

Decor joints are fitted over joints in order to hide slots and irregularities. They effectively eliminate problems with reflection and provide a rhythmic and harmonic pattern in corridors, for example.



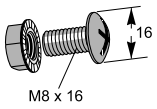


B	Zinc	E-no	White	E-no
50	—		MP-395 V	11 176 82
100	—		MP-325 V	11 176 84
150	—		MP-335 V	11 176 86
200	—		MP-345 V	11 176 88
300	—		MP-355 V	11 176 90
400	—		MP-365 V	11 176 92
500	—		MP-375 V	11 176 94
600	—		MP-385 V	11 176 96

As regards the MP number, the letters stands for: **V** = White, **B** = Beige, NCS 0502-Y GI 50, NCS 2502-Y, **R** = acid-proof, **Y** = Z-EDP (see page 7)
(see page 4)

MP-Cable trays

Installation bolt M8x16



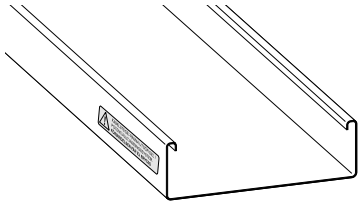
Installation screw with built-in toothed plate connector. Screws are NOT supplied with the accessories.
Sold in packs of 50.

Zinc 20 µm	E-no	White	E-no
MP-937 E	11 157 11	—	

Label

A waterproof label attached to the tray. The label is yellow and measures 100x18 mm.
NB. The text is in Swedish.

Supplied in rolls of 100 labels.



Label	E-no
MP-837 F	11 167 15

Paint RAL 9010

Spray can 400 ml.
Colour no.: RAL 9010 or NCS 0502-Y
Surface-dry in approximately 30 min.
Covers approximately 2.5 m².

Touch-up paint in cans of 25 ml.
Colour no.: RAL 9010 or NCS 0502-Y

Paint		White	E-no
Spray can	400 ml	MP-948 V	11 195 00
Touch-up paint	25 ml	MP-951 V	16 934 42

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Table of contents

MP mesh trays

MP mesh trays are the latest subsystem developed as part of our MP-Cable support system. Our goal is to create a system that reuses as many accessories as possible from other subsystems. The result is a common pendant system, identical fixing screws and dividers and telecomms trays that are all common to other subsystems. It is therefore easy to combine MP mesh trays with other subsystems from the MP-cable support system range.

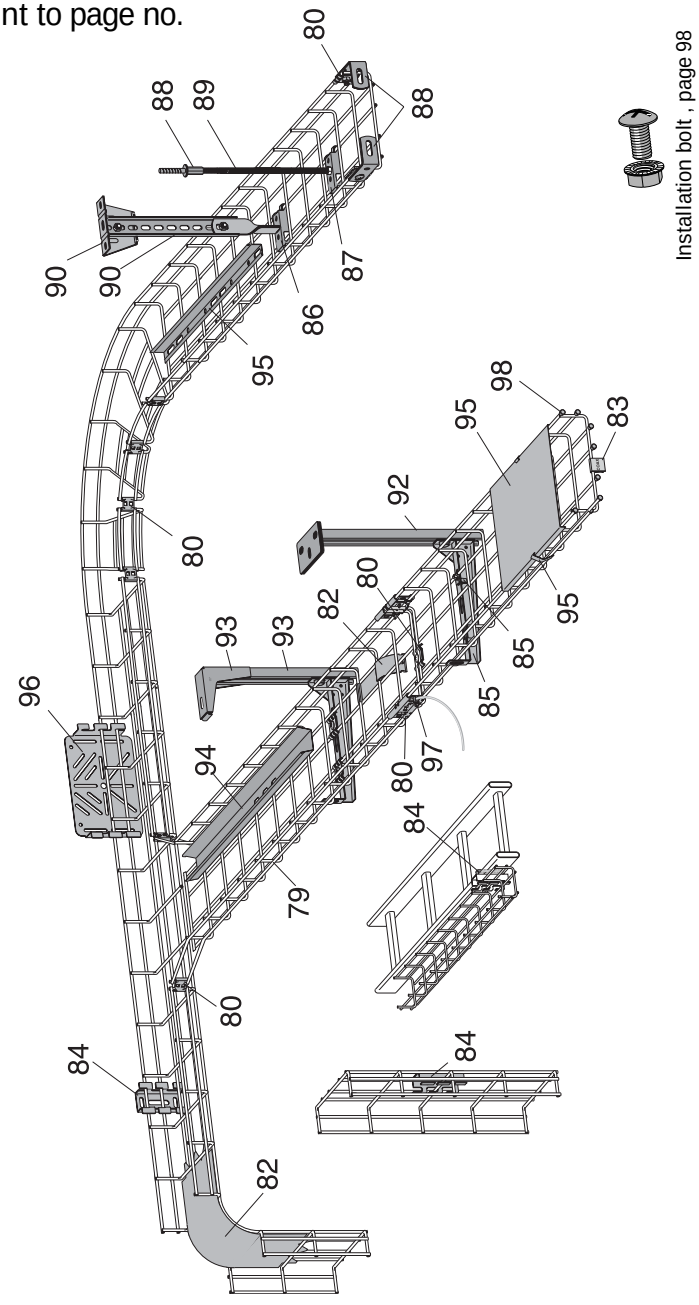
As it is possible to form mesh trays simply with few components, MP mesh trays are an excellent complement to MP cable ladders. Use MP cable ladders for main installations and divide/branch off using MP mesh trays.

Mesh trays and accessories can be supplied coated in a colour of your choice.

MP-Mesh trays

Mesh trays

Figures point to page no.



Installation bolt , page 98

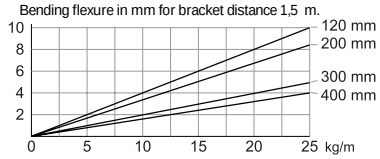
Mesh trays
Figures point to page no.

As regards the MP number, the letters stands for: (see page 4)

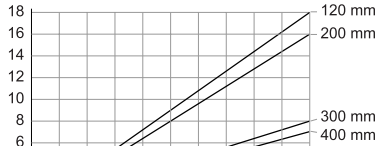
E = Elzinc	10 µm		**Z** = Zinc	SS-EN ISO1461
S = Zinc	20 µm		**AZ** = Aluzinc	25 µm (AZ 185)
A = Aluzinc	20 µm			

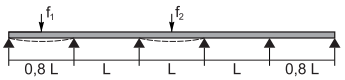
Mesh tray

Bending flexure in mm for bracket distance 1,5 m.

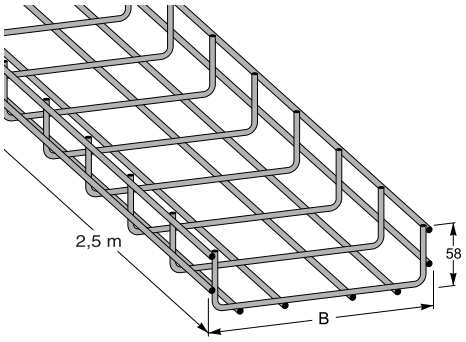


Bending flexure in mm for bracket distance 2 m.





The diagram applies to an f_2 inner compartment, i.e. all compartments except the outer. In order to get the same bending flexure in the $f_1$outer compartment, the bracket distance must be 80% of an inner compartment.

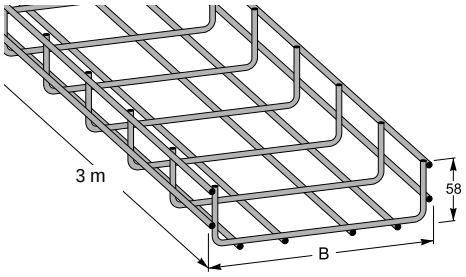


The diagram shows the bending flexure at L=1.5 m and L=2 m cantilever distance.
Ultimate load ≥1.7 times maximum load.
The ends on transverse wires are bevelled.
Mesh trays and accessories can be supplied coated in a colour of your choice.

B	Zinc 10 µm E-no	Zinc 60 µm E-no	Acid-proof E-no	White E-no	Ø
55	MP-719 E 11 163 91	MP-719 Z 11 163 94	MP-719 R 11 163 97	MP-719 V 11 163 93	4 mm
75	MP-720 E 11 164 00	MP-720 Z 11 164 03	MP-720 R 11 164 06	MP-720 V 11 164 02	4 mm
120	MP-722 E 11 164 09	MP-722 Z 11 164 12	MP-722 R 11 164 15	MP-722 V 11 164 11	5 mm
200	MP-723 E 11 164 18	MP-723 Z 11 164 21	MP-723 R 11 164 24	MP-723 V 11 164 20	5 mm
300	MP-724 E 11 164 27	MP-724 Z 11 164 30	MP-724 R 11 164 33	MP-724 V 11 164 29	5 mm
400	MP-725 E 11 164 36	MP-725 Z 11 164 39	MP-725 R 11 164 42	MP-725 V 11 164 38	6 mm
500	MP-726 E 11 164 45	MP-726 Z 11 164 48	MP-726 R 11 164 51	MP-726 V 11 164 47	6 mm
600	MP-727 E 11 164 54	MP-727 Z 11 164 57	MP-727 R 11 164 60	MP-727 V 11 164 56	6 mm

Mesh tray “light” 3 m

Pre-galvanized Mesh tray. The Mesh trays have the same measurements as the trays above except the length (3 m). The mesh tray is produced in pre-galvanized wires and is suitable in indoors environmental.

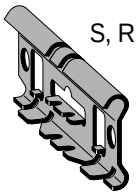


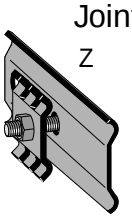
B	Zinc 10 µm	E-no	Ø
55	MP-719 S3	11 164 63	4 mm
75	MP-720 S3	11 164 65	4 mm
120	MP-722 S3	11 164 67	4 mm
200	MP-723 S3	11 164 69	4 mm

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

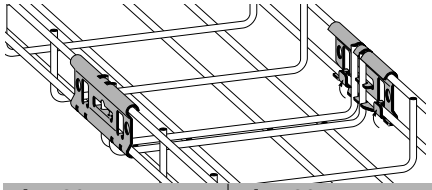
MP-Mesh trays

Joint for Mesh trays

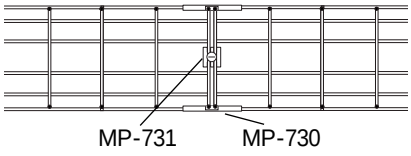




Fitted by folding to the side of the ladder, after which the lock tabs are bent upwards with pliers. The joint can, if necessary, be fastened with installation screws.

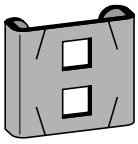


The universal bracket is fitted from below (width 300 - 400 mm)

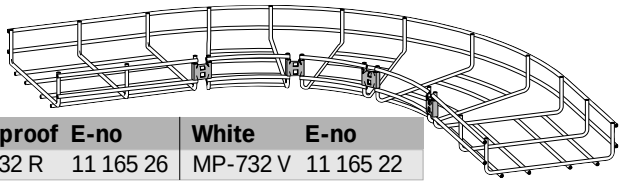


Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-730 S	11 165 10	MP-730 Z	11 165 13	MP-730 R	11 165 16	MP-730 V	11 165 12

Corner joint

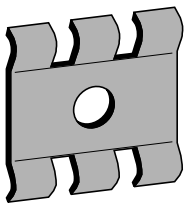


For manufacturing of flat elbows, tee-pieces and cross pieces. Fastened by sticking a screwdriver through one of the holes and bending in the tab between the tray's wire.

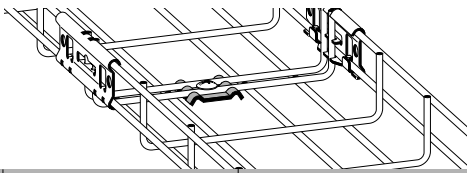


Zinc 20 µm	E-no	Acid-proof	E-no	White	E-no
MP-732 S	11 165 20	MP-732 R	11 165 26	MP-732 V	11 165 22

Universal bracket



Intended for universal attachments in the tray and for securing cantilever arms and angle brackets. For widths of 300 and 400 mm, the universal bracket is used at the bottom of the mesh tray to strengthen the joint (see below). Fitted with installation screw, see page 98.

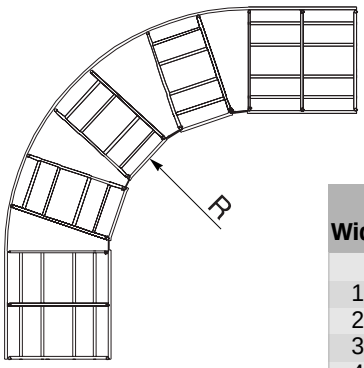


Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-731 S	11 165 30	MP-731 Z	11 165 33	MP-731 R	11 165 36	MP-731 V	11 165 32

As regards the MP number, the letters stands for: (see page 4)

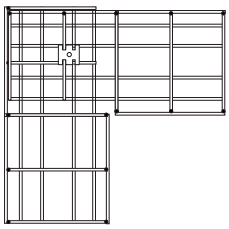
E = Elzinc	10 µm		**Z** = Zinc	SS-EN ISO1461
S = Zinc	20 µm		**AZ** = Aluzinc	25 µm (AZ 185)
A = Aluzinc	20 µm			

Flat elbow with radius



Width	Number of cuts	Corner joint MP-732	Radius
75	1 pcs	1 pcs	—
120	2 pcs	2 pcs	90 mm
200	4 pcs	4 pcs	260 mm
300	6 pcs	6 pcs	420 mm
400	8 pcs	8 pcs	580 mm

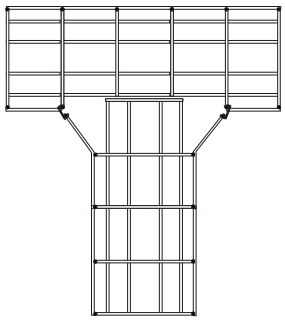
Flat elbow with corner



One side edge of the mesh trays is cut away, after which they are joined. One universal bracket is fitted from the top and the other from below.

Width	Universal bracket MP-731
75	2 pcs
120	2 pcs
200	2 pcs
300	4 pcs
400	4 pcs

Tee and cross piece

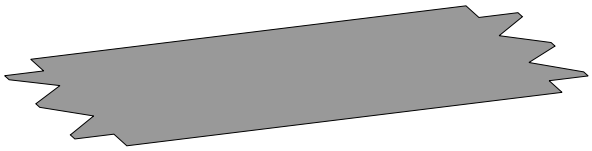


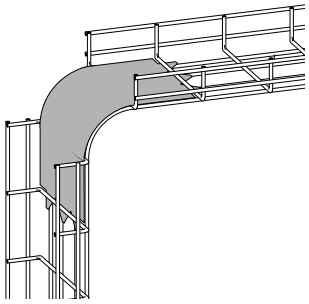
The side of the primary tray is cut away 100 mm wider than the connecting tray. The sides of the connecting tray are slit open and bent outwards. Joining employs two MP-732 corner joints.

MP-Mesh trays

Bending plate

The bending plate is manufactured from aluminium and is used for upward and downward turns with softer cable types.

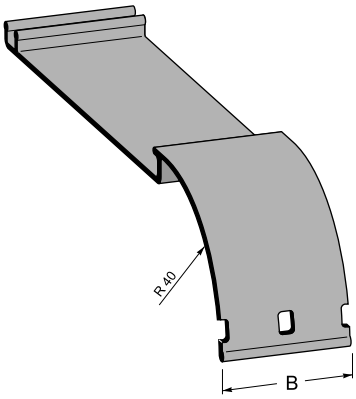


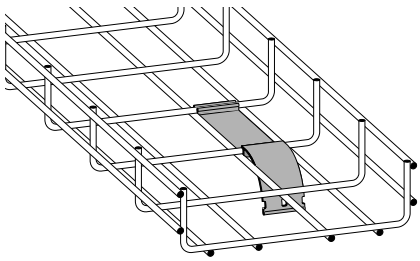


B	Aluminium	E-no
120	MP-782 C	11 165 90
200	MP-783 C	11 165 93
300	MP-784 C	11 165 96
400	MP-785 C	11 165 99

Radius limiter

The radius limiter is used to protect sensitive cables when running down from the mesh tray. The radius limiter is manufactured from aluminium and is snapped onto the mesh tray.
MP-786 C is suitable for width 200 mm except central compartments.
MP-787 C is suitable for width 300 mm except central compartments.
MP-788 C is suitable for width 400 mm and all central compartments.





B	Aluminium	E-no
34	MP-786 C	11 167 00
39	MP-787 C	11 167 01
53	MP-788 C	11 167 02

As regards the MP number, the letters stands for: (see page 4)

E	= Elzinc	10 µm	**Z**	= Zinc	SS-EN ISO1461
S	= Zinc	20 µm	**AZ**	= Aluzinc	25 µm (AZ 185)
A	= Aluzinc	20 µm			

Sign plate

The sign plate that is "snapped" tight to the mesh tray.

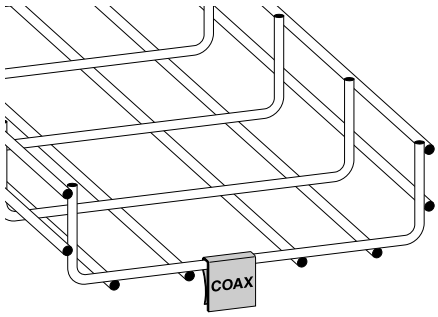
Sold in sets of 10.

MP-780 CO

MP-780 OP

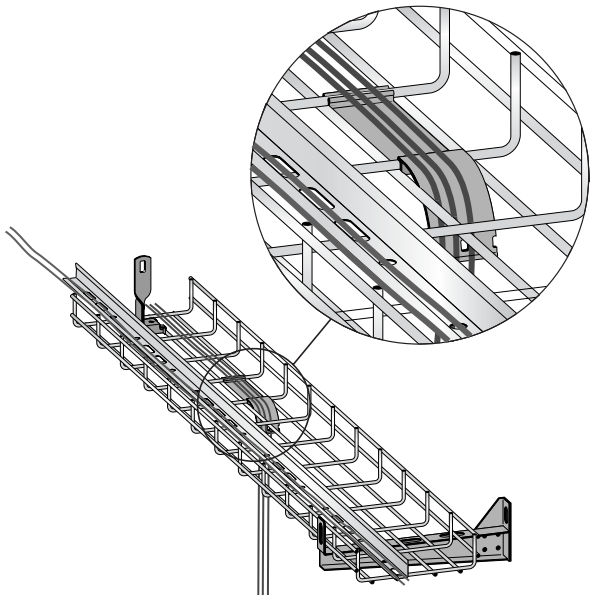
MP-780 PA

MP-780 PO



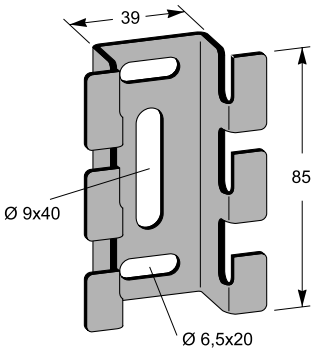
Plastic	E-no
MP-780 CO	11 167 10
MP-780 OP	11 167 11
MP-780 PA	11 167 12
MP-780 PO	11 167 13

Installation description Radius limiter



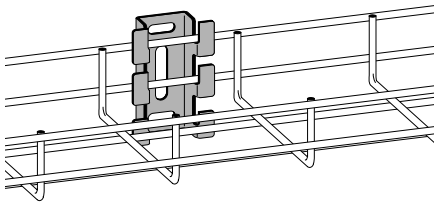
MP-Mesh trays

Wall bracket



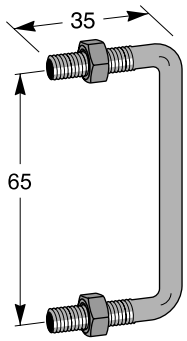
Wall bracket for suspending trays horizontally, vertically or on end along walls.

Mainly intended for widths 75 and 120 mm.



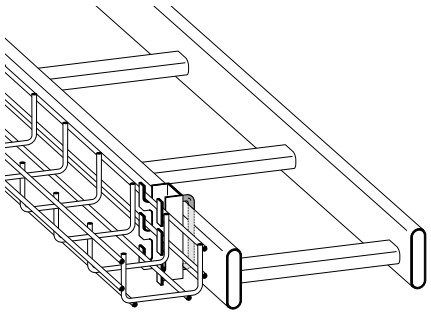
Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-735 S	11 166 06	MP-735 Z	11 166 06	MP-735 R	11 166 09	MP-735 V	11 166 05

Fastening clamp



The fastening clamp is used together with wall bracket (MP-735) for suspending MP mesh trays on other makes of cable ladder.

For fastening in MP cable ladders, MP-735 is fixed directly to the side profile.



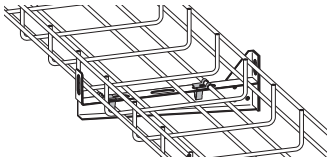
Zinc 10 µm	E-no
MP-736 E	11 166 10

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Clips for cantilever arm

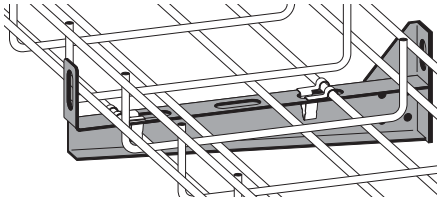
Clips for fixing mesh trays on cantilever arms.
Sold in set of 10 pcs.

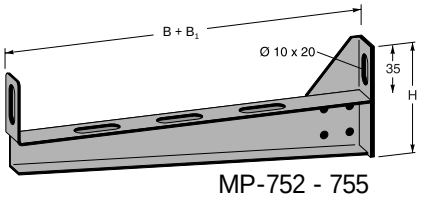


Acid-proof	E-nr	Packs of
MP-733 R	11 165 83	10

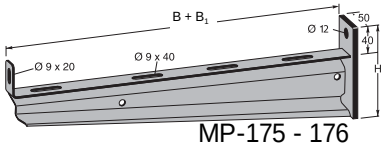
Cantilever arm

The cantilever arm is fastened to the mesh tray with the MP-731 universal bracket, see page 80.
Maximum load = 150 kg
Ultimate load ≥1.7 times maximum load.





MP-752 - 755

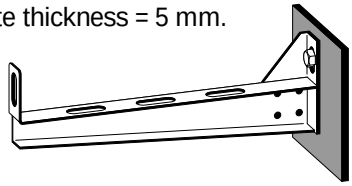


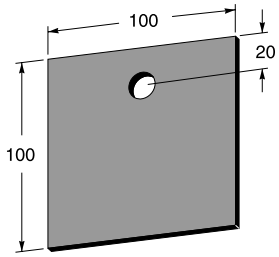
MP-175 - 176

B	B1	H	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
120	70	72	MP-752 S	11 165 43	MP-752 Z	11 165 46	MP-752 R	11 165 49	MP-752 V	11 165 44
200	40	80	MP-753 S	11 165 52	MP-753 Z	11 165 55	MP-753 R	11 165 58	MP-753 V	11 165 42
300	40	90	MP-754 S	11 165 61	MP-754 Z	11 165 64	MP-754 R	11 165 67	MP-754 V	11 165 62
400	40	100	MP-755 S	11 165 70	MP-755 Z	11 165 73	MP-755 R	11 165 76	MP-755 V	11 165 71
500	50	115	—	—	MP-175 Z2	11 151 85	MP-175 R	11 165 79	MP-175 V	11 152 13
600	50	125	—	—	MP-176 Z2	11 151 88	MP-176 R	11 165 81	MP-176 V	11 152 16

Backing plate

A backing plate is used to better distribute a cantilever's surface pressure on walls with a porous surface of plaster or similar.
Plate thickness = 5 mm.



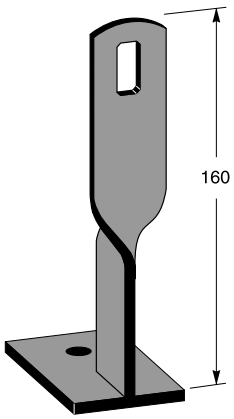


Zinc 60 µm	E-no	Acid-proof	E-no	White
MP-962 Z	11 172 80	MP-962 R	11 172 82	MP-962 V 11172 81

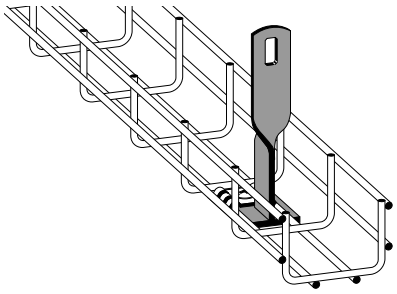
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Mesh trays

Yoke 75

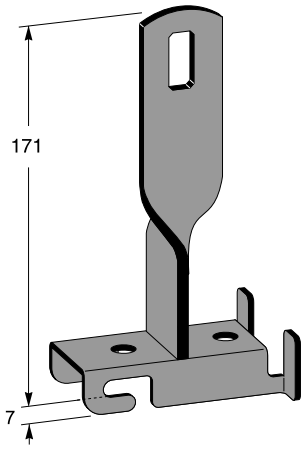


Yoke suitable for 75 mm mesh trays. The mesh trays are secured using a universal bracket and MP-937 installation bolts, see page 98.



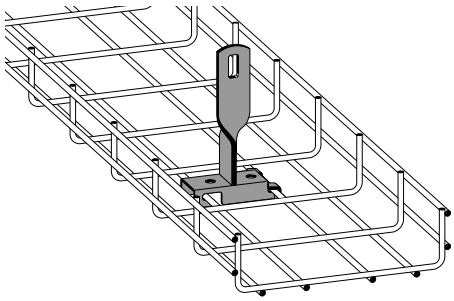
Zinc 10 µm E-no	Zinc 60 µm E-no
MP-766 E 11 166 89	MP-766 Z 11 166 90

Yoke 120 - 400



Yoke for widths 120-400 mm. Widths 300-400 mm can be supplemented by a support yoke to prevent the edges bending down.

Maximum load = 80 kg
Ultimate load ≥1.7 times maximum load.



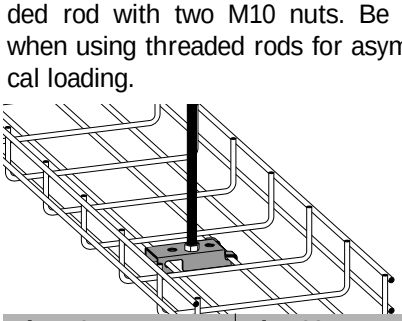
Zinc 10 µm E-no	Zinc 60 µm E-no	Acid-proof E-no	White E-no
MP-757 E 11 166 63	MP-757 Z 11 166 67	MP-757 R 11 166 65	MP-757 V 11 166 64

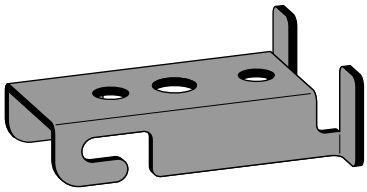
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Yoke for threaded rod

Yoke intended for attaching to M10 threaded rod. The yoke is attached to the threaded rod with two M10 nuts. Be careful when using threaded rods for asymmetrical loading.

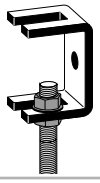




Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-759 E	11 166 77	MP-759 Z	11 166 81	MP-759 R	11 166 79	MP-759 V	11 166 78

Nut M10

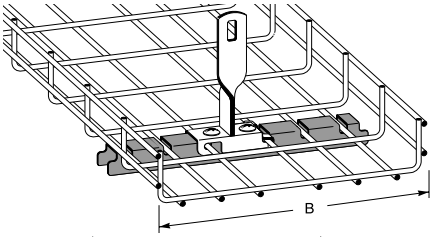
The nut is used for fitting threaded rods.
Ordered in packs of 50.

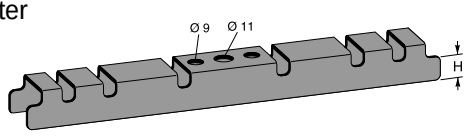


Zinc 10 µm	E-no	Acid-proof	E-no
MP-044 E	11 175 62	MP-044 R	11 175 63

Support 300 - 600 mm

Used together with MP-757 yoke for mesh trays in widths of 300-600 mm in order to prevent the trays from bending downwards with larger loads. The support is screwed tight to the yoke with MP-937 installation bolts after the mesh tray has been fitted to the yoke.



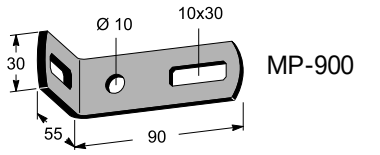


B	H	Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
300-400	14	MP-758 E	11 166 70	MP-758 Z	11 166 74	MP-758 R	11 166 72	MP-758 V	11 166 69
500-600	20	MP-767 E	11 166 71	MP-767 Z	11 166 75	MP-767 R	11 166 73	MP-767 V	11 166 76

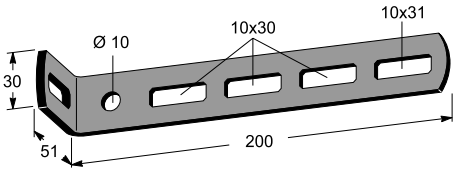
As regards the MP number, the letters stands for: **V** = White, **B** = Beige, NCS 0502-Y GI 50, NCS 2502-Y, **R** = acid-proof, **Y** = Z-EDP (see page 7)
(see page 4)

MP-Mesh trays

Angle bracket

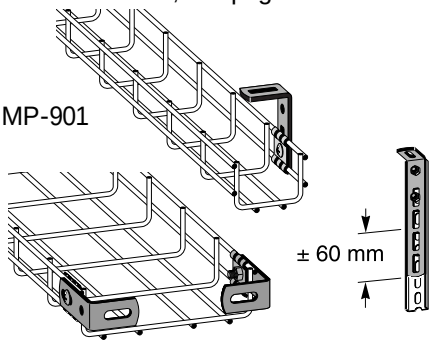


MP-900



MP-901

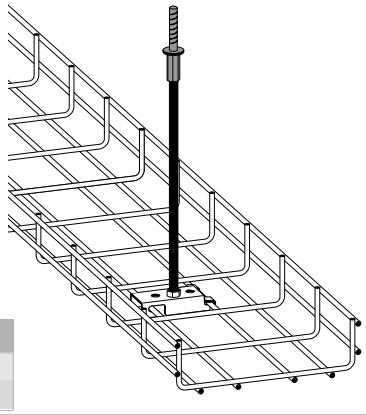
Used as end bracket against a wall or other tray. Can also be used as a ceiling bracket (applies only to 75 and 120 mm widths).
Fitted with MP-731 universal bracket and installation bolt, see page 98.



Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-900 E	11 153 84	MP-900 Z	11 153 85	MP-900 R	11 153 87	MP-900 V	11 15386
—	—	MP-901 Z	11 153 81	—	—	MP-901 V	11 15382

Ceiling bracket M8/M10

A ceiling bracket intended for attaching M8 or M10 threaded rod to concrete. Drill a Ø6x65 mm hole in the base; screw the ceiling bracket into the hole. In uncracked K25 concrete, the extraction force is 400 kg with threefold safety.



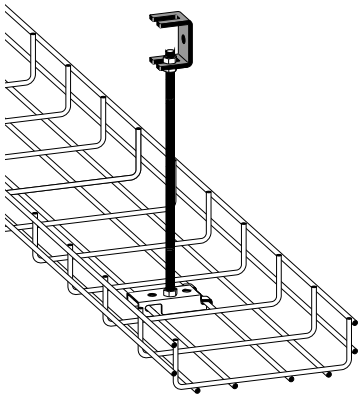
B	Packs	Zinc 5 µm	E-no
7,5x55	100 st	MP-923 E	11 175 53
7,5x55	10 st	MP-923 E10	15 094 45

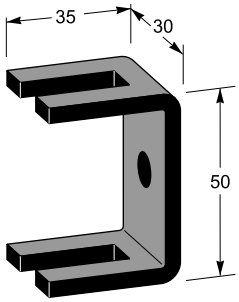
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling bracket

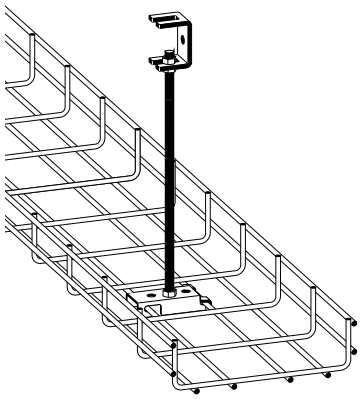
The ceiling bracket is used for suspension of mesh trays in threaded rods. The threaded rod is secured to the ceiling bracket using two MP-044 nuts, see page 87.

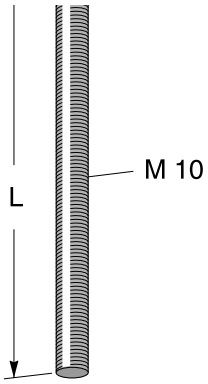




Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no
MP-760 E	11 166 84	MP-760 Z	11 166 88	MP-760 R	11 166 86

Threaded rod



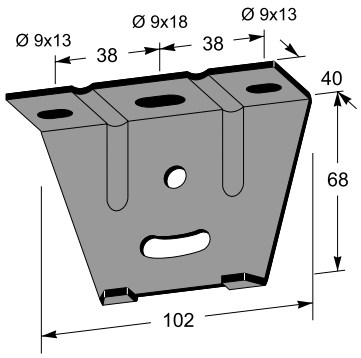


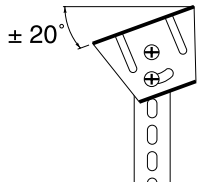
L	Zinc 10 µm	E-no	Acid-proof	E-no	White	E-no
2 000	MP-927 E	11 175 55	—	—	MP-927 V	11 175 56
3 000	MP-928 E	11 175 57	MP-928 R	11 175 59	MP-928 V	11 175 58

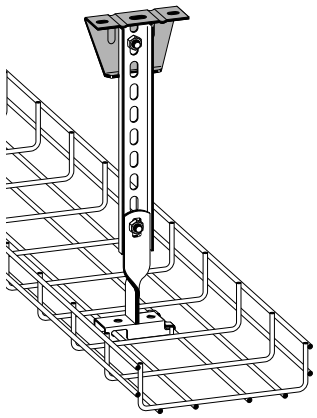
As regards the MP number, the letters stands for: (see page 4)
V = White NCS 0502-Y GI 50
B = Beige NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Mesh trays

Ceiling bracket

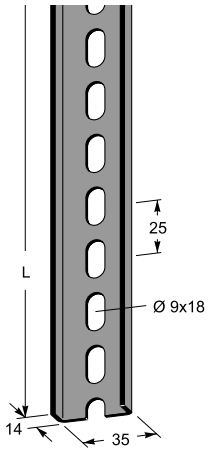




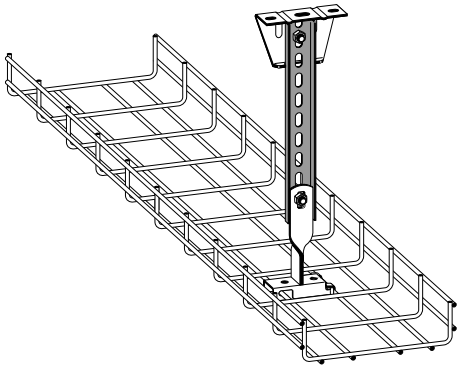


Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
MP-904 S	11 153 46	MP-904 Z	11 153 47	MP-904 R	11 153 49	MP-904 V	11 153 48

Pendant rail



The pendant rail is equipped with cutting marks every 100 mm.



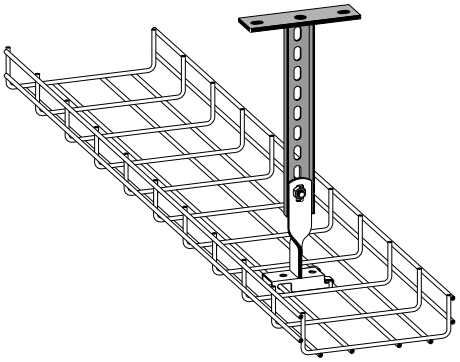
L	Aluzinc	E-no	Zinc 20 µm	E-no	Acid-proof	E-no	White	E-no
2000	—		—		MP-910 R	11 153 41	—	
3000	MP-910 A	11 153 38	MP-910 Z	11 153 39	—		MP-910 V	11 153 40

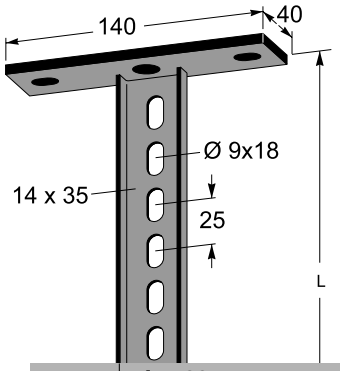
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling pendant MP-P

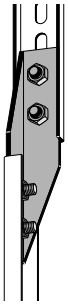
For acidproof assembly, pendant rail and ceiling bracket are used.

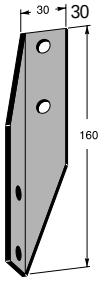




L	Zinc 60 µm	E-no
300	MP-957 Z	11 157 04
400	MP-958 Z	11 157 06
500	MP-959 Z	11 157 08
700	MP-960 Z	11 157 10
1000	MP-961 Z	11 157 12

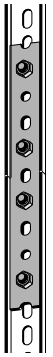
Pendant angle piece

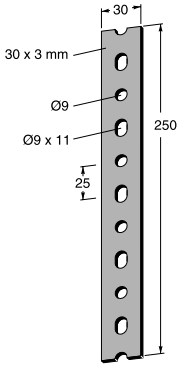




Zinc 60 µm	E-no	White	E-no
MP-918 Z	11 153 23	MP-918 V	11 153 24

Pendant joint





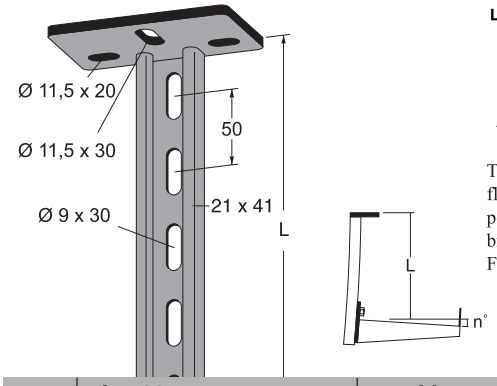
Zinc 60 µm	E-no	White	E-no
MP-919 Z	11 153 11	MP-919 V	11 153 12

As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Mesh trays

Ceiling pendant MP-V

For attaching to the pendant, use MP-978 spring nut and bolt, see page 93, or T-bolt on page 44.



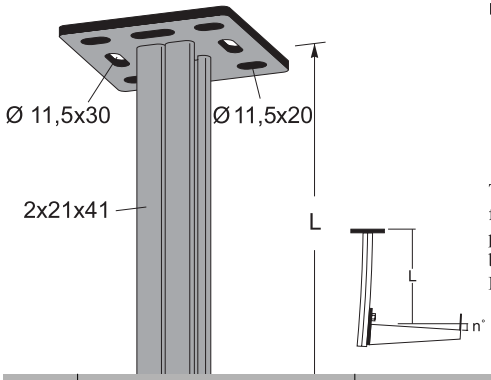
Lengths	200 mm	300 mm	400 mm	Bending flexure
250	175 kg	132 kg	106 kg	n = **0,7**°
375	175 kg	132 kg	106 kg	n = **1,0**°
500	175 kg	132 kg	106 kg	n = **1,4**°
750	175 kg	132 kg	106 kg	n = **2,2**°
1000	175 kg	132 kg	106 kg	n = **2,9**°

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load.
For other dimensions, contact our marketing department.

L	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
250	MP-964 Z	11 157 20	MP-964 R	11 157 22	MP-964 V	11 157 21
375	MP-965 Z	11 157 24	MP-965 R	11 157 26	MP-965 V	11 157 25
500	MP-966 Z	11 157 28	MP-966 R	11 157 30	MP-966 V	11 157 29
750	MP-967 Z	11 157 32	MP-967 R	11 157 34	MP-967 V	11 157 33
1000	MP-968 Z	11 157 36	MP-968 R	11 157 38	MP-698 V	11 157 37

Ceiling pendant MP-DV

For attaching to the pendant, use MP-978 spring nut and bolt, see page 93, or T-bolt on page 44.



Lengths	200 mm	300 mm	400 mm	Bending flexure
500	429 kg	325 kg	262 kg	**n = 0,8**°
750	429 kg	325 kg	262 kg	**n = 1,1**°
1000	429 kg	325 kg	262 kg	**n = 1,5**°
1500	429 kg	325 kg	262 kg	**n = 2,3**°
2000	429 kg	325 kg	262 kg	**n = 3,0**°
3000	292 kg	219 kg	175 kg	**n = 3,0**°

The table shows the maximum load and the bending flexure (n°) for different bracket widths and ceiling pendant lengths L. The load is evenly distributed on the bracket. Ultimate load ≥ 1.7 times maximum load.
For other dimensions, contact our marketing department.

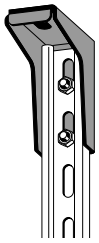
L	Zinc 60 µm	E-no	Acid-proof	E-no	White	E-no
500	MP-970 Z	11 157 40	MP-970 R	11 157 42	MP-970 V	11 157 41
750	MP-971 Z	11 157 44	MP-971 R	11 157 46	MP-971 V	11 157 45
1000	MP-972 Z	11 157 48	MP-972 R	11 157 50	MP-972 V	11 157 49
1500	MP-973 Z	11 157 52	MP-973 R	11 157 54	MP-973 V	11 157 53
2000	MP-974 Z	11 157 56	MP-974 R	11 157 58	MP-974 V	11 157 57
3000	MP-975 Z	11 157 60	MP-975 R	11 157 62	MP-975 V	11 157 61

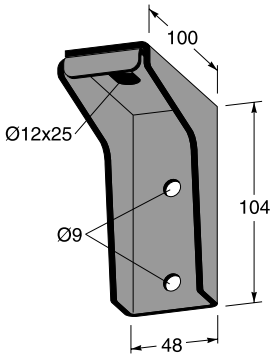
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Ceiling bracket

The ceiling bracket is combined with a channel for side-hung fitting of trays. Choose from prepared lengths or cut to the desired length yourself, see below.

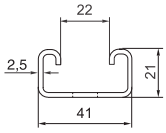


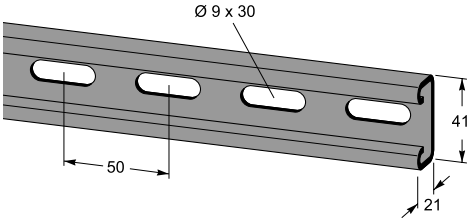


Zinc 20 µm	E-no	Zinc 60 µm	E-no	White	E-no
MP-230 S	11 157 97	MP-230 Z	11 157 98	MP-230 V	11 157 96

Channel MP-V 21x41

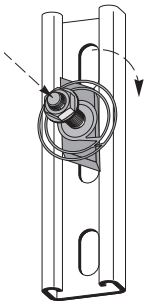
Use MP-978 spring nut and bolt, see page 93, or T-bolt on page 44.

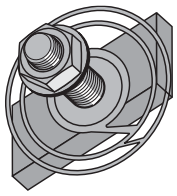


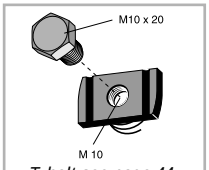


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	White	E-no
3000	MP-231 S	11 158 02	MP-231 Z	11 158 00	MP-231 V	11 158 01
250	MP-024 S	11 158 39	MP-024 Z	11 158 40	MP-024 V	11 158 38
375	MP-025 S	11 158 43	MP-025 Z	11 158 44	MP-025 V	11 158 42
500	MP-026 S	11 158 47	MP-026 Z	11 158 48	MP-026 V	11 158 46
750	MP-027 S	11 158 51	MP-027 Z	11 158 52	MP-027 V	11 158 50
1000	MP-028 S	11 158 55	MP-028 Z	11 158 56	MP-028 V	11 158 54

T-bolt







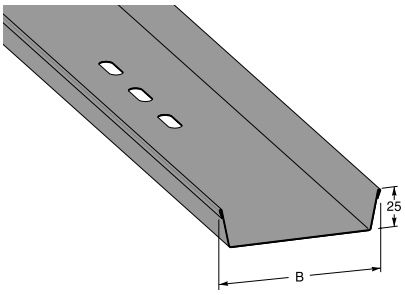
T-bolt see page 44

T	Zinc 10 µm	E-no
M8x25	MP-983 E	11 158 20
M10x35	MP-984 E	11 158 22

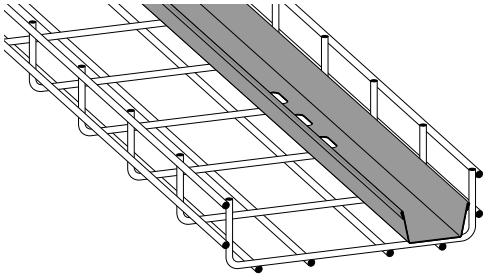
As regards the MP number, the letters stands for: (see page 4)
V = White
B = Beige
NCS 0502-Y GI 50
NCS 2502-Y
R = acid-proof
Y = Z-EDP (see page 7)

MP-Mesh trays

Low volt divider, unperforated

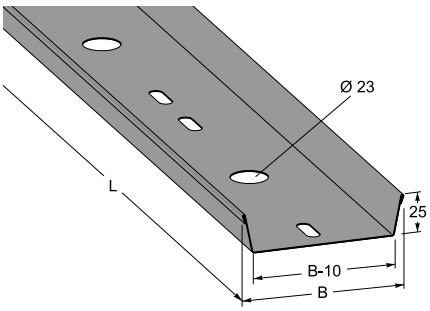


The tray is equipped with mounting holes at the ends and in the middle.

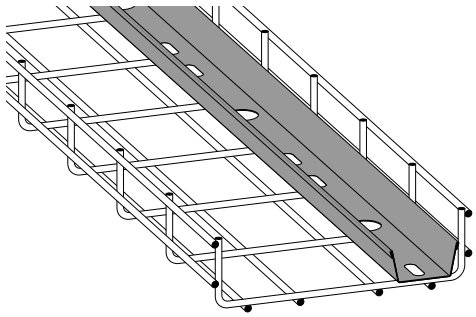


L	B	Zinc 20 µm	E-no
3000	50	MP-128 S	11 156 00
3000	100	MP-129 S	11 156 04
3000	200	MP-130 S	11 156 08

Low volt divider, perforated



The large holes can be equipped with Ø 23 mm grommets to prevent damage to the cables. Available in list 14.
NB! The length of the acid proof telecoms tray is 2 m



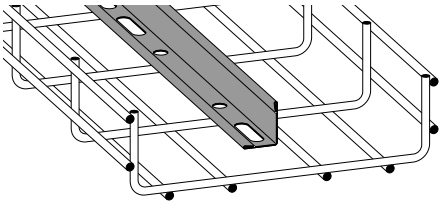
L	B	Zinc 20 µm	E-no	AZ 185	E-no	Acid-proof	E-no (L=2m)
3000	50	MP-138 S	11 156 12	MP-138 AZ	11 156 11	MP-138 R	11 156 14
3000	100	MP-139 S	11 156 16	MP-139 AZ	11 156 17	—	—
3000	200	MP-140 S	11 156 20	—	—	—	—

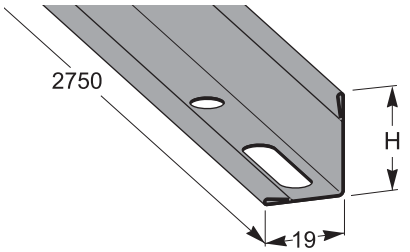
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Divider

The divider is tied tight to the tray and joined by overlapping.



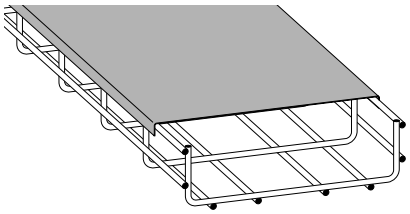


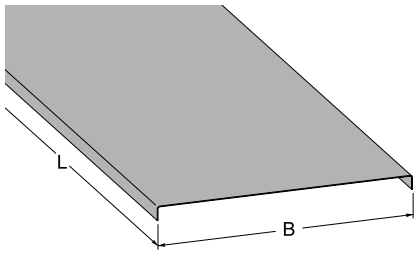
H	L	Zinc 20 µm	E-no	AZ 185	E-no	White	E-no
25	2750	MP-137 S	11 184 72	MP-137 AZ	11 184 74	MP-137 V	11 184 75
40	2750	MP-149 S	11 184 78	MP-149 AZ	11 184 79	—	—

Cover

The cover is fastened with clips, see below.

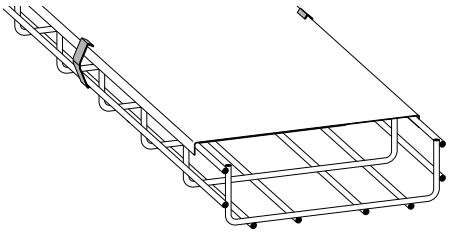
The length of the acid proof cover is 1.25 m

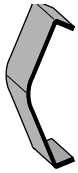




B	L	Thickness	Zinc 20 µm	E-no	Acid-proof	E-no (L=1,25 m)
55	3000	0,6	MP-405 S	11 171 57	MP-405 R	11 171 58
75	3000	0,6	MP-410 S	11 171 61	MP-410 R	11 171 63
120	3000	0,6	MP-421 S	11 171 72	MP-421 R	11 171 73
200	3000	0,6	MP-440 S	11 171 79	MP-440 R	11 171 81
300	2000	0,6	MP-450 S	11 171 97	MP-450 R	11 171 85
400	2000	1,0	MP-460 S	11 172 00	MP-460 R	11 171 89
500	2000	1,0	MP-470 S	11 172 03	MP-470 R	11 172 02
600	2000	1,0	MP-480 S	11 171 95	MP-480 R	11 171 94

Cover clip



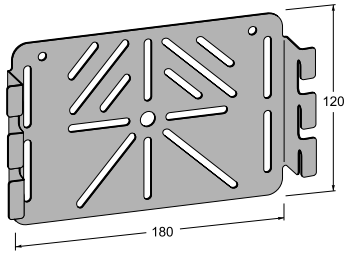


Acid-proof	E-no
MP-748 R	11 166 60

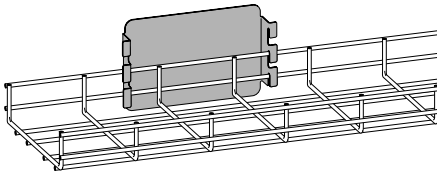
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Mesh trays

Mounting bracket

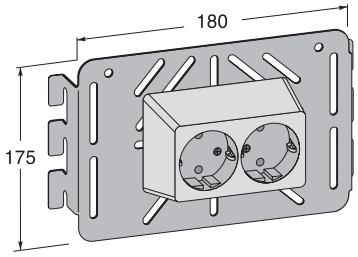


Mounting bracket for fitting of boxes and sockets, etc.
Available both with and without holes.

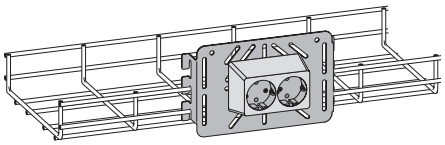


	Zinc 20µm E-no	Zinc 60 µm E-no	Acid-proof E-no	White E-no
Perf	MP-739 S 11 166 18	MP-739 Z 11 166 22	MP-739 R 11 166 20	MP-739 V 11 166 19
Unperf	MP-738 S 11 166 12	MP-738 Z 11 166 16	MP-738 R 11 166 14	MP-738 V 11 166 13

Plate+socket outlet

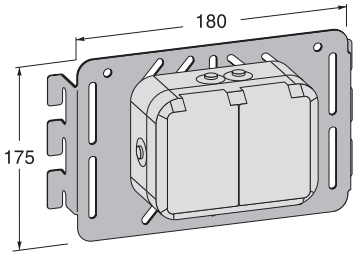


Mounting bracket with pre-assembled 2-way IP21 socket outlets in white thermoplastic with base plate. Screwless connections, childproof. Two neutral bridge connnectors.

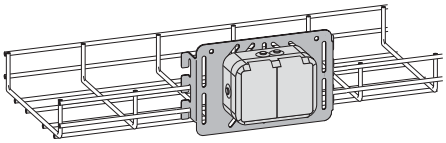


Zinc 20 µm	E-no
MP-739 SF	11 166 24

Plate+socket outlet



Mounting bracket with pre-assembled 2-way enclosed IP44 socket outlets in white thermoplastic, childproof. Two neutral clips.



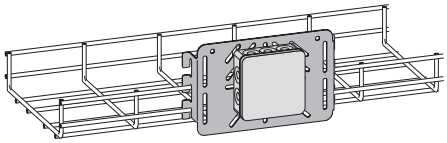
Zinc 20 µm	E-no
MP-739 SG	11 166 25

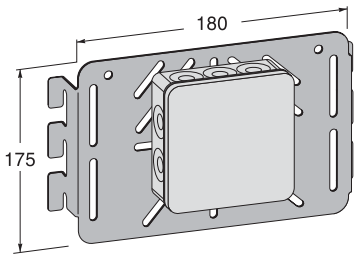
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Plate+socket outlet

Mounting bracket with pre-assembled IP55 connection box in white thermoplastic with 10 lead-ins. Supplied without terminal blocks.

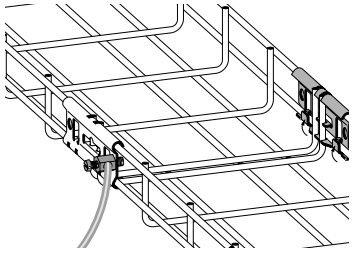


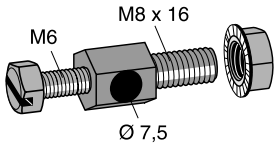


Zinc 20 µm	E-no
MP-739 SD	11 166 23

Equipot bond bolt

The conductor can be connected directly to the equipot bond bolt with no cable terminals.
Sold in sets of 10.

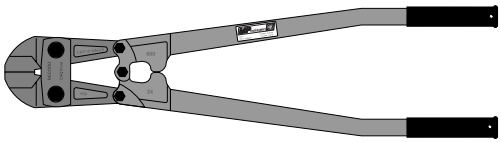




Zinc 10 µm	E-no	Acid-proof	E-no
MP-839 E	11 157 88	MP-839 R	11 157 89

Manual bolt clippers

Manual bolt clippers with side cutter.
Intended for cutting mesh trays.



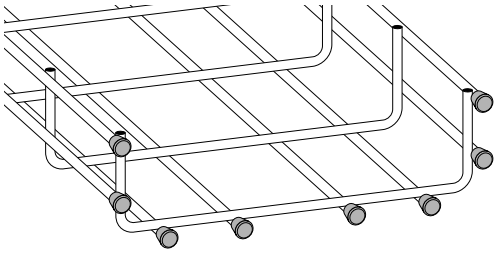
Bolt	E-no
MP-790 P	16 239 88

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4) NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-Mesh trays

Plastic knob

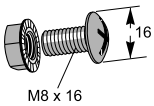
Fitted as protection on the ends of protruding wires. Manufactured in flameproof material.
Ordered in packs of 100.



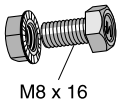
L	Plastic	E-no
4	MP-761 P	11 167 03
5	MP-763 P	11 167 06
6	MP-765 P	11 167 09

Installation bolt

The installation bolt is NOT supplied with the accessories. Sold in packs of 50.



MP-937



MP-295

Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid-proof	E-no
MP-937 E	11 157 11	MP-937 Z	11 156 80	MP-295 R	11 157 80

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Table of contents

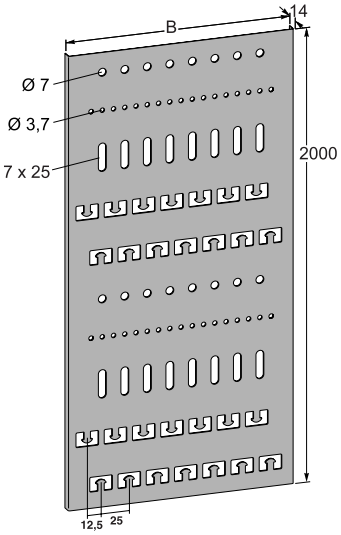
MP fitting profiles
MP fitting profiles employ "revolutionary" use of stripped cables on profiles. Through the patended (SP-0813012) "mushroom-shaped hole", we have raised the use of fitting profiles to new heights.

MP channels
MP channels have the standard international dimensions 41x21 mm and 41x 41 mm. They are thus compatible with a large accessory range. Our new ceiling bracket MP-230 (page 65) and channel in prepared short lengths or in full length of 3 m for cutting, providing ceiling pendants at a lower cost and more flexible assembly.

MP profiles
MP profiles include the products well-known for decades, which have made us a familiar and established supplier in the electrical industry. They were originally used as the basis for distribution boxes. They are currently indispensable as universal Meccano profiles, where there are no standard solutions.

MP-Profiles

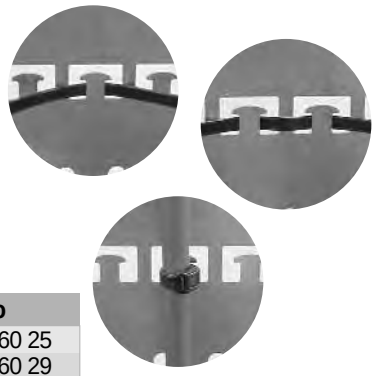
Fitting profile MP-MK



Profile length: 2,000 mm
Plate thickness: 1.25 mm
Module length: 200 mm

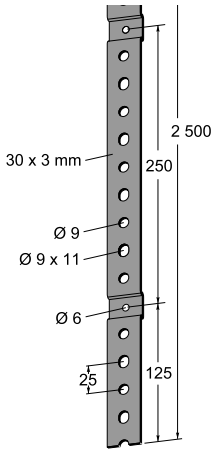
Patended EP0813012.

Available painted on request.

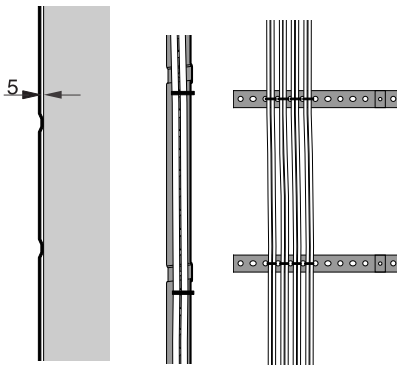


B	Zinc 20 µm	E-no	AZ 185	E-no
50	MP-821 S	11 160 26	MP-821 AZ	11 160 25
75	MP-822 S	11 160 30	MP-822 AZ	11 160 29
100	MP-823 S	11 160 34	MP-823 AZ	11 160 33
150	MP-824 S	11 160 38	MP-824 AZ	11 160 37
200	MP-825 S	11 160 42	MP-825 AZ	11 160 41
300	MP-826 S	11 160 46	MP-826 AZ	11 160 45
400	MP-827 S	11 160 50	MP-827 AZ	11 160 49

Bracing strap



Bracing strap, hot-dip galvanised model, intended for bracing cables on walls.



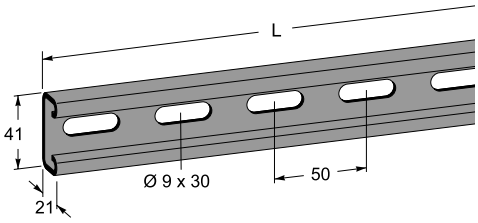
Zinc 60 µm	E-no
MP-800 Z	11 160 00

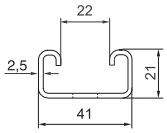
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Channel MP-V

For attachments in the channel, use T-bolt, see page 44.
Plate thickness = 2.5 mm.
Length 3 m (6 m on order).

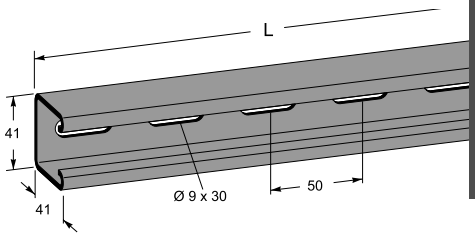


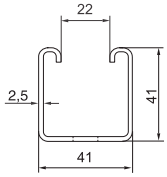


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no
3000	MP-231 S	11 158 02	MP-231 Z	11 158 00
250	MP-024 S	11 158 39	MP-024 Z	11 158 40
375	MP-025 S	11 158 43	MP-025 Z	11 158 44
500	MP-026 S	11 158 47	MP-026 Z	11 158 48
750	MP-027 S	11 158 51	MP-027 Z	11 158 52
1000	MP-028 S	11 158 55	MP-028 Z	11 158 56

Channel MP-FV

For attachments in the channel, use T-bolt, see page 44.
Plate thickness = 2.5 mm.
Length 3 m (6 m on order).

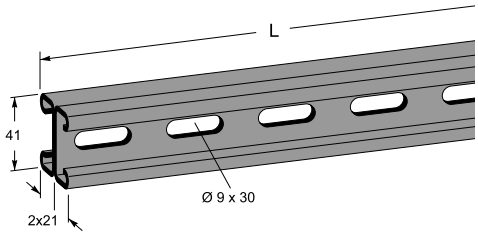


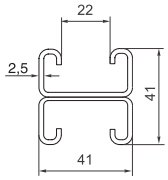


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no
3000	MP-233 S	11 158 05	MP-233 Z	11 158 04
750	MP-037 S	11 158 60	MP-037 Z	11 158 61
1000	MP-038 S	11 158 65	MP-038 Z	11 158 66

Channel MP-DV

For attachments in the channel, use T-bolt, see page 44.
Plate thickness = 2.5 mm.
Length 3 m (6 m on order).



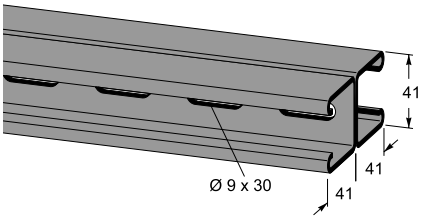


Zinc 60 µm	E-no
MP-237 Z	11 158 08

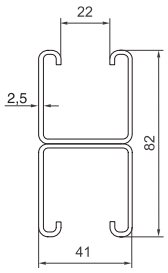
As regards the MP number, the letters stands for: (see page 4)
V = White **B** = Beige
NCS 0502-Y GI 50 NCS 2502-Y
R = acid-proof **Y** = Z-EDP (see page 7)

MP-Profiles

Channel MP-FDV

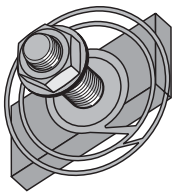


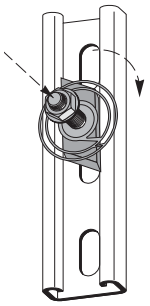
Double channel, hot-dip galvanized model with 2.5 mm material thickness. For attachments in the channel, use T-bolt, see page 44.. Length 3 m (6 m on order).

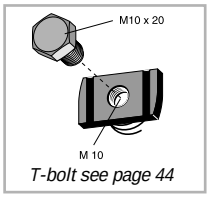


Zinc 60 µm	E-no
MP-238 Z	11 158 12

T-bolt



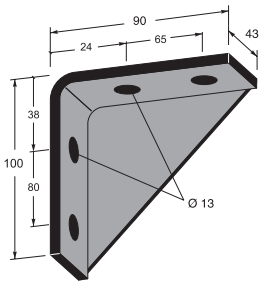


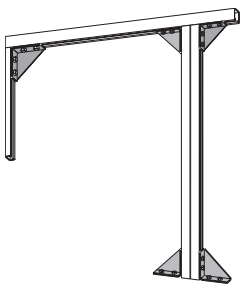


T-bolt see page 44

T	Zinc 10 µm	E-no
M8x25	MP-983 E	11 158 20
M10x35	MP-984 E	11 158 22

Corner piece





Zinc 60 µm	E-no
MP-245 Z	11 158 28

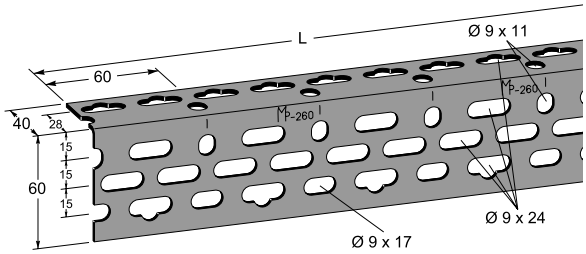
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Profile angle rail

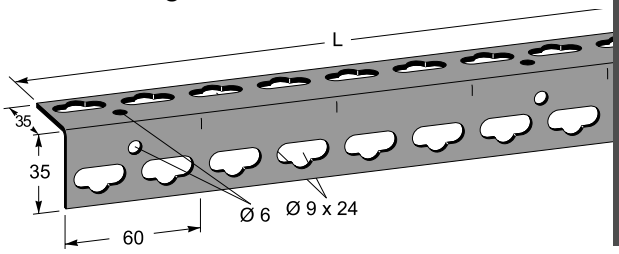
White painted on order.



L	Zinc 20 µm	E-no	Paint	E-no	Zinc 60 µm	Enr
300	MP-991 A	15 094 60	MP-991 V	15 094 61	—	—
1500	MP-992 A	15 094 62	MP-992 V	15 094 63	—	—
3000	MP-260 A	26 844 42	MP-260 B	26 844 43	MP-260 Z	26 844 44

Profile angle rail

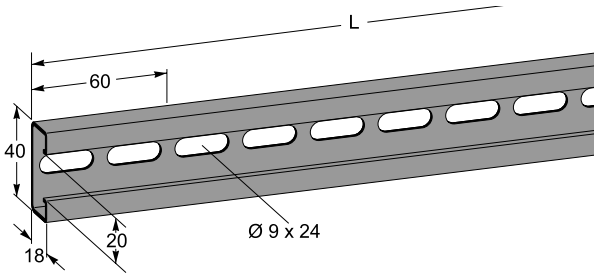
White painted on order.



L	Zinc 20 µm	E-no	Paint	E-no	Zinc 60 µm	Enr
300	MP-993 A	15 094 70	MP-993 V	15 094 71	—	—
1500	MP-994 A	15 094 72	MP-994 V	15 094 73	—	—
3000	MP-262 A	26 844 12	MP-262 B	26 844 13	MP-262 Z	26 844 14

Box profile rail

White painted on order.

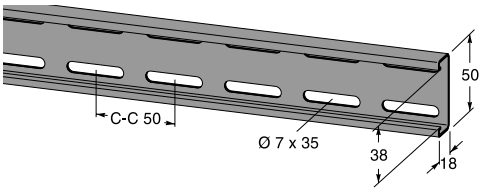


L	Zinc 20 µm	E-no	Paint	E-no	Zinc 60 µm	Enr
300	MP-997 A	15 094 76	MP-997 V	15 094 77	—	—
1500	MP-998 A	15 094 78	MP-998 V	15 094 79	—	—
3000	MP-265 A	26 842 12	MP-265 B	26 842 13	MP-265 Z	26 842 14

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Profiles

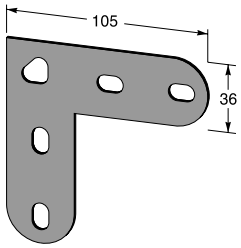
Box profile rail

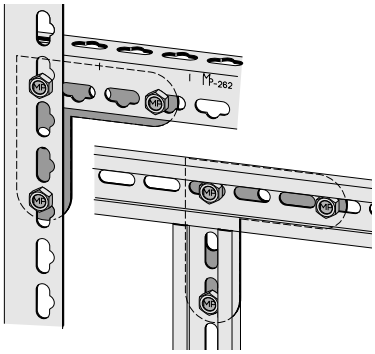


Length 3 m

Zinc 60 µm	E-no
MP-268 Z	26 842 84

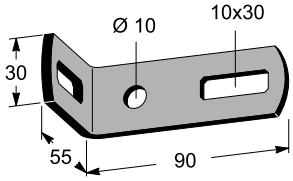
Corner bar



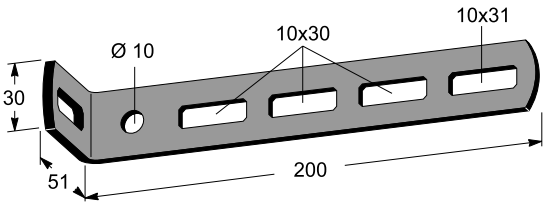


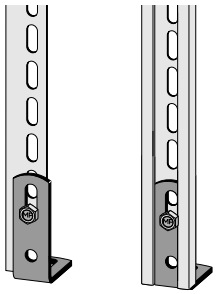
Zinc 60 µm	E-no	Beige	E-no
MP-281 Z	26 846 65	MP-281 B	26 846 63

Wall/Floor bracket



The bracket has a universal field of application.





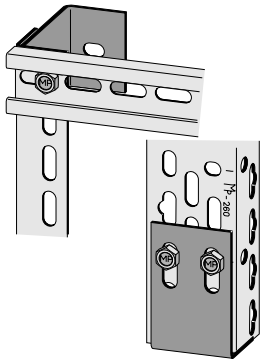
Zinc 60 µm	E-no	Beige	E-no
MP-282 Z	26 846 15	MP-282 B	26 846 13
MP-901 Z	11 153 81	MP-901 B	—

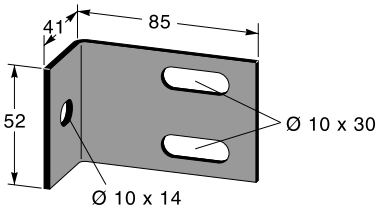
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

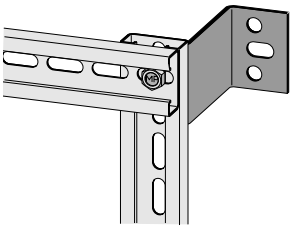
Wall/Floor bracket

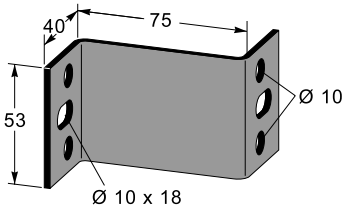




Zinc 60 µm	E-no	Beige	E-no
MP-283 Z	26 846 25	MP-283 B	26 846 23

Wall/Floor bracket

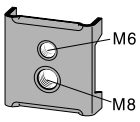


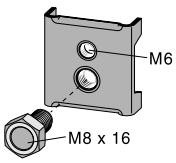


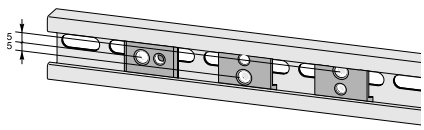
Zinc 60 µm	E-no	Beige	E-no
MP-284 Z	26 842 59	MP-284 B	26 842 58

Channel nut plate

The spring nut and bolt is pushed in from the end of the box profile rail. Depending on the turn of the nut, 3 different height positions with 5 mm intervals are possible for each thread. MP-999 E is sold in sets of 10.







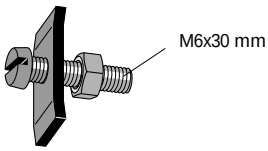
Zinc 10 µm	E-no	With bolt M8x16 Zinc 10 µm	E-no
MP-289 E	26 842 55	MP-999 E	15 094 82

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

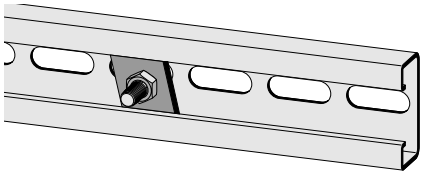
NCS 0502-Y GI 50 **R** = acid-proof
NCS 2502-Y **Y** = Z-EDP (see page 7)

MP-Profiles

Anchoring bolt M6

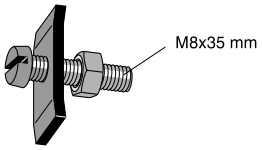


The anchor bolt is placed in the opening on MP-265 and turned clockwise, whereby the bolt head locks against the back of the profile.

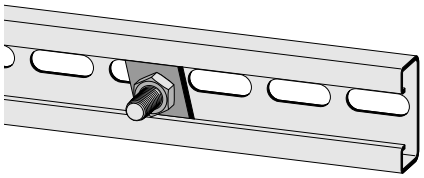


Zinc 10 µm	E-no
MP-286 E	26 842 53

Anchoring bolt M8



The anchor bolt is placed in the opening on MP-265 and turned clockwise, whereby the bolt head locks against the back of the profile.



Zinc 10 µm	E-no
MP-288 E	26 842 51

Cold zinc

Cold zinc is intended to be used for the unprotected section surfaces on cut hot-dip galvanized profiles in tough, corrosive environments.

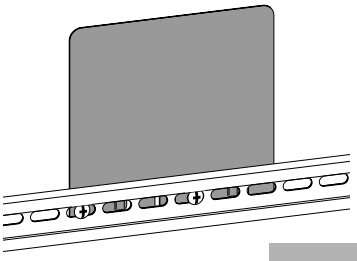
Zinc 60 µm	E-no
MP-235 Z	26 848 19

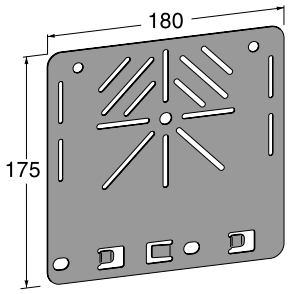
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc	10 µm		**Z** = Zinc	SS-EN ISO1461
S = Zinc	20 µm		**AZ** = Aluzinc	25 µm (AZ 185)
A = Aluzinc	20 µm			

Mounting bracket

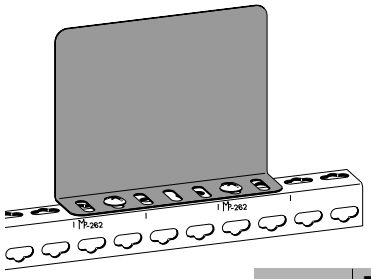
Snapped tight to cable ladders and screwed tight to profile angle rails, box profiles. For fitting on profile angle rails and box profiles, the tabs are turned out from the profile.

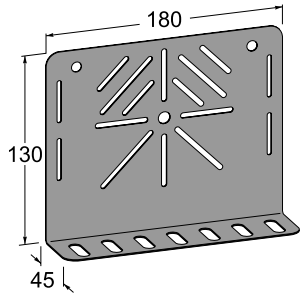




	Zinc 20 µm	E-no	Beige	E-no
Unperf.	MP-110 S	11 155 75	MP-110 B	26 847 23
Perf.	MP-112 S	11 155 79	MP-112 B	26 847 27

Mounting bracket



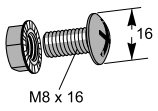


	Zinc 20 µm	E-no	Beige	E-no
Unperf.	MP-298 S	26 847 35	MP-298 B	26 847 33
Perf.	MP-299 S	26 847 39	MP-299 B	26 847 37

Installation bolt

The installation bolt is not supplied with the accessories.

Sold in packs of 50.

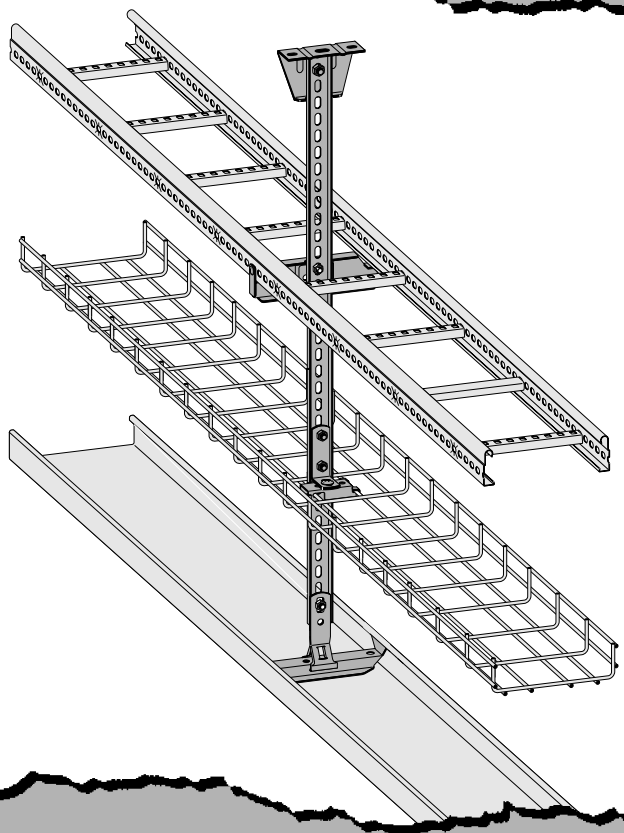


Zinc 10 µm	E-no	Zinc 60 µm	E-no
MP-937 E	11 157 11	MP-937 Z	11 156 80

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

NCS 0502-Y Gl 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

Quick and easy



www.mpbolagen.se

Table of contents

MP-19” racks

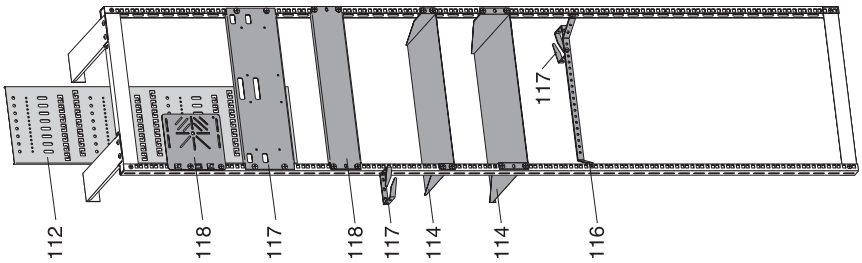
MP-19” racks are a number of racks based on the SS IEC 297 standard. The racks are available with a number of different wall clearances 270, 350 and 540 mm, with or without cable support.

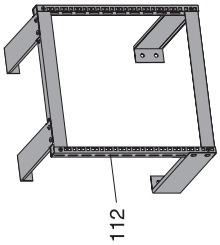
For a few years we have also been producing wall-hung racks of height 12U suitable for, e.g. subsidiary exchanges on various floors, etc.

New patended MP-MK mounting bracket is ideal for vertical trunks where it is possible to individually strip wire bundles in the perforated "mushrooms", see page 112.

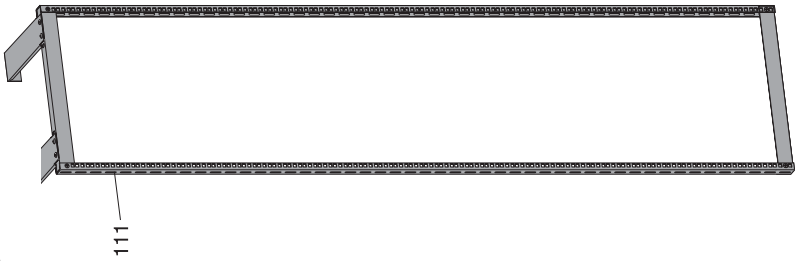
MP-19” - racks

MP-19” - racks
Figures point to page no.





Installation bolt , page 120



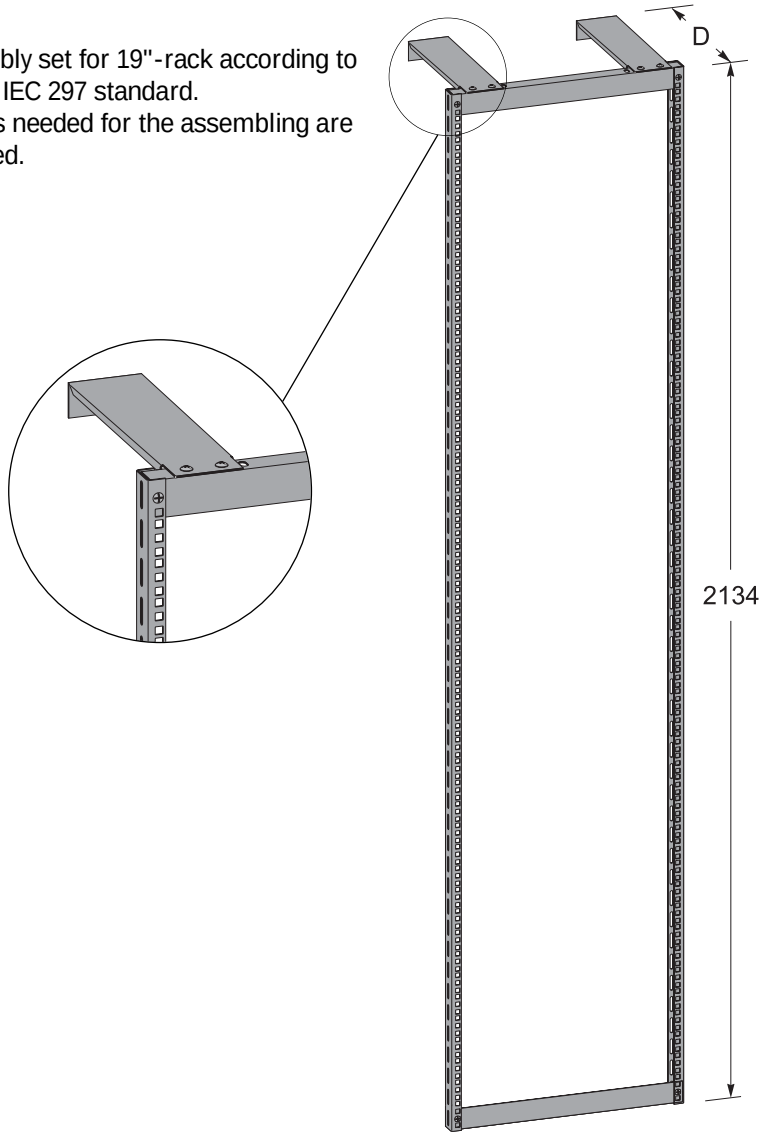
MP-19” - racks
Figures point to page no.

As regards the MP number, the letters stands for: (see page 4)

E	= Elzinc	10 µm	**Z**	= Zinc	SS-EN ISO1461
S	= Zinc	20 µm	**AZ**	= Aluzinc	25 µm (AZ 185)
A	= Aluzinc	20 µm			

MP-19” - racks

Assembly set for 19"-rack according to the SS IEC 297 standard.
Screws needed for the assembling are included.



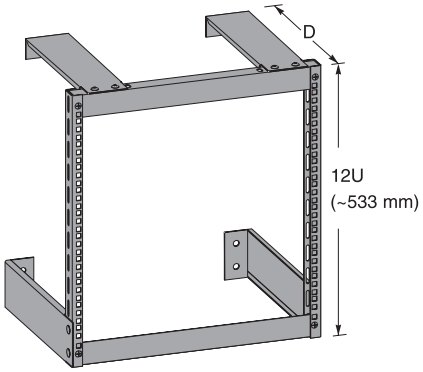
D	Zinc 20 µm	E-no	White	E-no
270	MP-847 E	50 021 30	MP-847 V	50 021 31
350	MP-848 E	50 021 32	MP-848 V	50 021 33
540	MP-849 E	50 021 34	MP-849 V	50 021 35

As regards the MP number, the letters stands for: **V** = White **B** = Beige (see page 4)

NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

MP-19” - racks

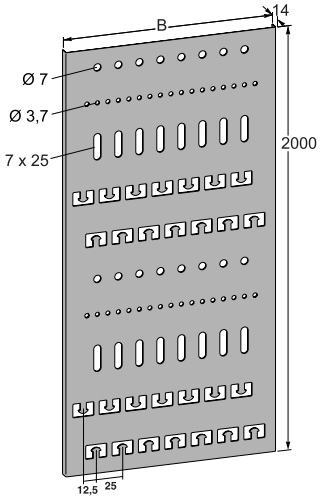
19” Wall rack



Assembly set for 19"-rack according to the SS IEC 297 standard.
Screws needed for the assembling are included.

D	Zinc 20 µm	E-no	White	E-no
270	MP-845 E	50 021 45	MP-845 V	50 021 46
350	MP-846 E	50 021 48	MP-846 V	50 021 49

Fitting profile MP-MK



Profile length: 2,000 mm
Plate thickness: 1.25 mm
Module length: 200 mm

Patended EP0813012CES.sa.

Available painted on request.

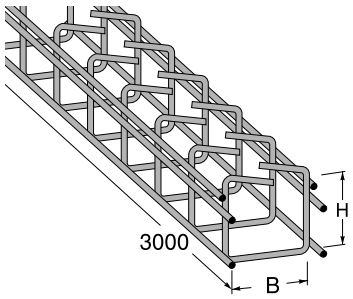
B	Zinc 20 µm	E-no	Zinc 25 µm	E-no
50	MP-821 S	11 160 26	MP-821 AZ	11 160 25
75	MP-822 S	11 160 30	MP-822 AZ	11 160 29
100	MP-823 S	11 160 34	MP-823 AZ	11 160 33
150	MP-824 S	11 160 38	MP-824 AZ	11 160 37
200	MP-825 S	11 160 42	MP-825 AZ	11 160 41
300	MP-826 S	11 160 46	MP-826 AZ	11 160 45
400	MP-827 S	11 160 50	MP-827 AZ	11 160 49

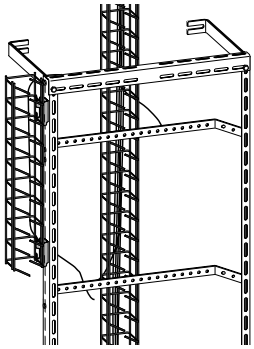
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Wire mesh tray with lock

A wire mesh tray with a lock is the equivalent of a tray with a cover. The advantage of this solution is that wires can be added and removed without needing to remove a cover. You can also attach the wires for loading for vertical assembly. The wire cable tray can be simply attached to a rack or directly to the wall with wall brackets MP-775 R - 779 R.

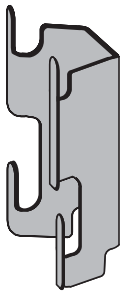


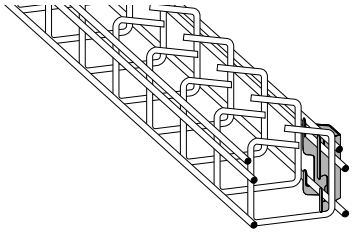


B	H	Zinc 10 µm	E-no
25	25	MP-771 E	50 021 50
50	50	MP-772 E	50 021 51
75	75	MP-773 E	50 021 52

Wall bracket

Wall bracket for securing wire cable trays MP-771 - MP-773 to the wall or rack.
NB various designs for vertical or horizontal assembly.



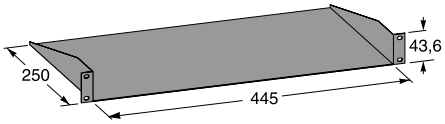


B	Horizontal Acid-proof	E-no	Vertical Acid-proof	E-no
25	MP-775 R	50 021 53	MP-778 R	50 021 56
50	MP-776 R	50 021 54	MP-779 R	50 021 57
75	MP-777 R	50 021 55	MP-779 R	50 021 57

As regards the MP number, the letters stands for: **V** = White, **B** = Beige, NCS 0502-Y GI 50, NCS 2502-Y, **R** = acid-proof, **Y** = Z-EDP (see page 4) (see page 7)

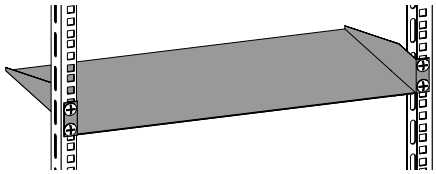
MP-19” - racks

Rack 1U



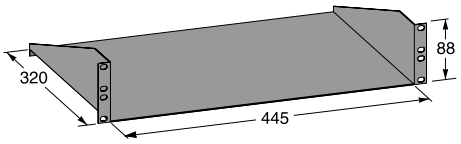
The shelf can be used in all standard 19" racks. Fitted from the front with screws, MP-855 E, see page 120, into the rack's hole system.

The shelf takes 1U in height, is 250 mm deep and has a normal load of 5 kg.



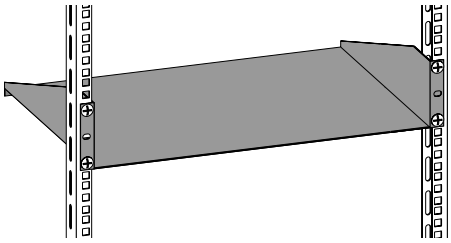
Zinc 20 µm	E-no	White	E-no	Beige	E-no
MP-887 S	50 020 31	MP-887 V	50 020 32	MP-887 B	50 020 33

Rack 2U



The shelf can be used in all standard 19" racks. Fitted from the front with screws, MP-855 E, see page 120, into the rack's hole system.

The shelf takes 2U in height, is 320 mm deep and has a normal load of 15 kg.



Zinc 20 µm	E-no	White	E-no	Beige	E-no
MP-888 S	50 020 34	MP-888 V	50 020 38	MP-888 B	50 020 39

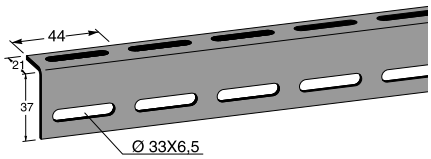
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

MP-19” racks

Top - base bar

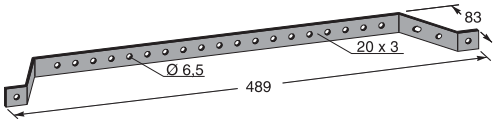
Mounting rail
Rail for mounting transformers, devices etc.

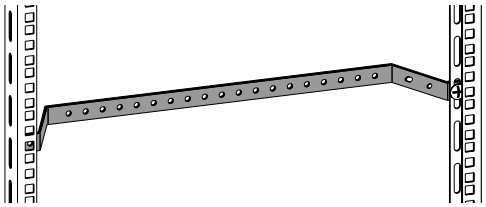


Zinc 20 µm	E-no	White	E-no	Beige	E-no
MP-851 A	50 020 53	MP-851 V	50 020 55	MP-851 B	50 020 54

Cable support

The Cable support is fitted to the rear of the rack to carry cables up to each plinth row or level. There are holes in the cable support for fitting wire guide bracket MP-869 or bundle ties. The cable support is available in three models: epoxy painted white or beige and zinc-plated.





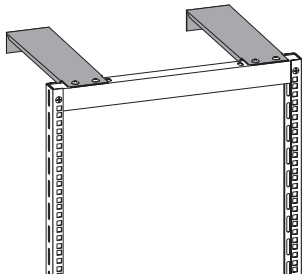
Zinc 20 µm	E-no	White	E-no
MP-868 E2	50 020 86	MP-868 V2	50 020 82

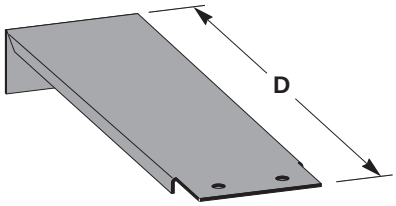
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Support bar

Support bars are intended for attaching the rack at the top walls. Two support bars are required for each rack.

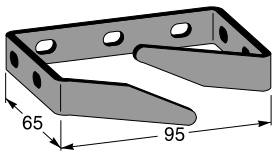




D	Zinc 10 µm	E-no	White	E-no
270	MP-853 E2	50 021 36	MP-853 V2	50 021 37
350	MP-863 E2	50 021 40	MP-863 V2	50 021 41
540	MP-854 E2	50 021 38	MP-854 V2	50 021 39

Wire guide bracket

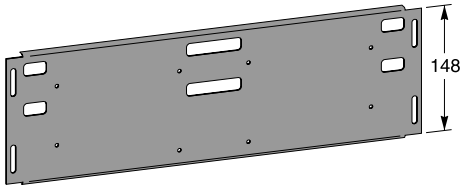
The wire guide bracket is used to keep the wire packet together. It is universally attachable to cable support or side bars.
Tip: For several parallel racks, the wire guide bracket can be used to join the racks together and provide a common "downward channel".



Zinc 10 µm	E-no	White	E-no	Beige	E-no
MP-869 E	50 020 43	MP-869 V	50 020 45	MP-869 B	50 020 46

Fixing plate

Mounting bracket used for AT & T plinth 110 DW 1 - 100 and wire fastening clamp 110 B1. The plate has space for two plinths and two clamps. These are fitted with self-tapping screw B10.

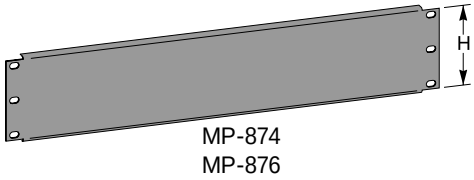


Zinc 20 µm	E-no	White	E-no	Beige	E-no
MP-871 S	50 020 77	MP-871 V	50 020 79	MP-871 B	50 020 80

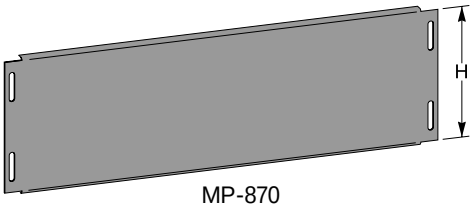
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-19” racks

Blanking plate

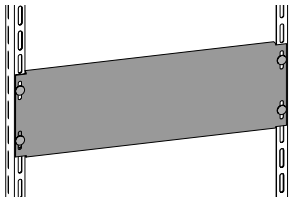


MP-874
MP-876



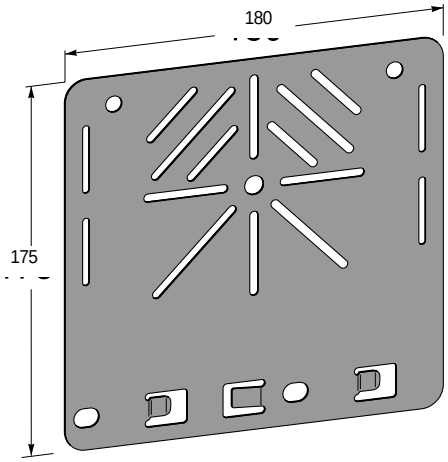
MP-870

Mounting plate where you drill holes yourself and fit the components you require. Together with the rear panel set (see below), you can fit wall sockets to the plate and have all current supply neatly collected behind its assembly in the rack.

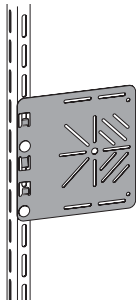


H	Zinc 20 µm	E-no	White	E-no	Beige	E-no
44	MP-874 S	50 021 10	MP-874 V	50 021 11	MP-874 B	50 021 12
88	MP-876 S	50 021 13	MP-876 V	50 021 14	MP-876 B	50 021 15
148	MP-870 S	50 020 73	MP-870 V	50 020 75	MP-870 B	50 020 76

Mounting bracket



The mounting bracket is available in perforated and unperforated design. This mounting bracket is used when fitting smaller units that do not require a 19'' plate, e.g. wall sockets.



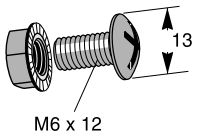
	Zinc 10 µm	E-no	White	E-no	Beige	E-no
Unperf.	MP-110 S	11 155 75	MP-110 V	11 155 76	MP-110 B	26 847 23
Perf	MP-112 S	11 155 79	MP-112 V	11 155 80	MP-112 B	26 847 27

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Installation bolt

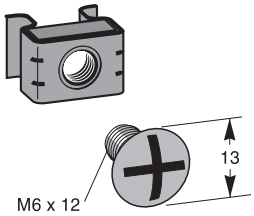
Supplied in sets of 20 or 100.



	Zinc 10 µm	E-no
20	MP-855 E	50 021 58
100	MP-855 E2	50 021 59

Captive nut M6

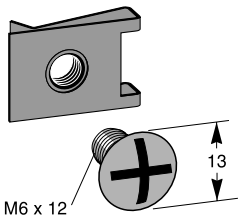
Captive nut M6 with screw M6x12 mm.
Supplied in sets of 20.



	Zinc 10 µm	E-no
20	MP-878 E	50 021 42

High-speed bolt set

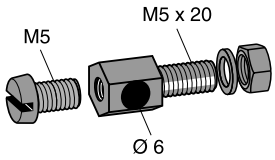
Installation screw M6 x 12 mm, including rapid nuts. The rapid nut is pushed in over the edge of the side profile. The rapid nut simplifies assembly, as you do not need to hold the nut at the back.



Zinc 10 µm	E-no
MP-866 E	50 021 62

Equipotential bond bolt

To simplify the equipot bonding, the screw is produced with a hole for the conductor to be connected directly without any cable terminals. Sold in sets of 10.



Stainless st.	E-no
MP-838 R	15 144 94

As regards the MP number, the letters stands for: (see page 4)

E	= Elzinc	10 µm	**Z**	= Zinc	SS-EN ISO1461
S	= Zinc	20 µm	**AZ**	= Aluzinc	25 µm (AZ 185)
A	= Aluzinc	20 µm			

Table of contents

MP-Potential balancing connection

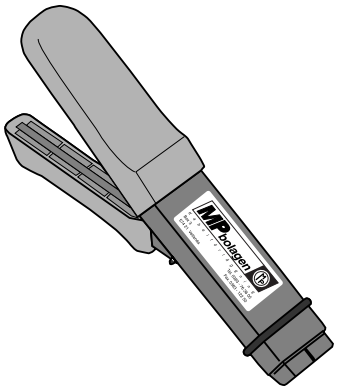
MP electrical potential balancing is a system particularly suitable in situations where you cannot/must not make a direct connection, e.g. a pipe under pressure. The system consists of pliers and a roll of band (10 m). With the pliers you can punch attachment holes and at the same time get the correct band length. So you do not need to have a number of different band lengths for different pipe sizes.

With the new equipot bond bolt, you can connect a conductor directly without cable terminals, see page 124.

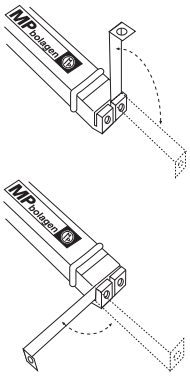
There is also an equipot bonding bar to supplement the system.

MP-Potential balancing connection

Potential tongs

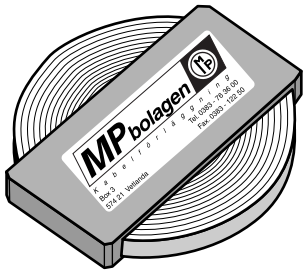


Pliers intended for stamping holes as you cut the band. Depending on whether you intend to use reinforcement angles or not, you bend the angles in two different lengths, see fig.



Zinc 10 µm	E-no
MP-830 E	16 058 90

Potential steel strip 10 x 0,5 mm



Steel band 10x0.5 mm with grooved edges.
Ultimate tensile strength 600N/mm² ± 100 N. The band is rolled up in a plastic cassette with the end tucked in the cassette in order to prevent it catching on surrounding objects.

NB! For connections around an untreated pipe, use aluzinc band.

Zinc 20 µm	E-no	Stainless st.	E-no
MP-831 A	15 220 39	MP-831 R	15 220 40

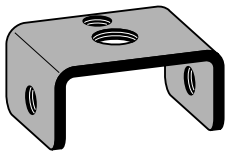
As regards the MP number, the letters stands for: (see page 4)

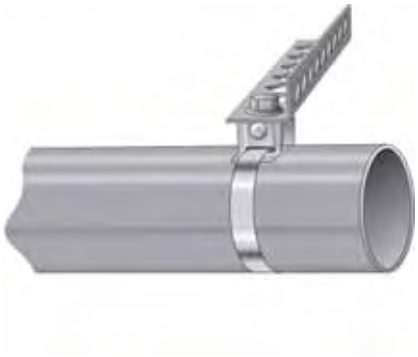
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm

Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Clip

The fastening clamp is equipped with M5 threads on the sides and M8 and M5 on top for attachment of/to the pipe.
Bolt not included.
Sold in sets of 10.

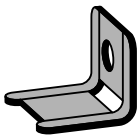


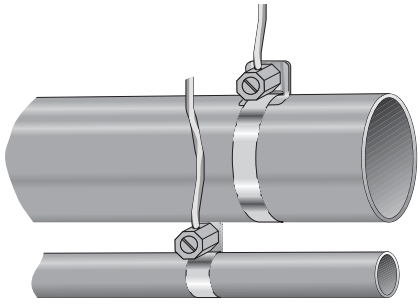


Zinc 20 µm	E-no	Stainless st.	E-no
MP-832 A	15 220 44	MP-832 R	15 220 42

Reinforce angle

The angle bracket provides a more powerful grip around the object being connected and should be used where possible.
Sold in sets of 100.

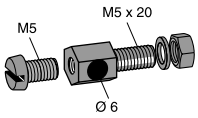




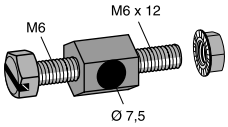
Zinc 20 µm	E-no	Stainless st.	E-no
MP-833 A	15 220 45	MP-833 R	15 220 43

MP-Potential balancing connection

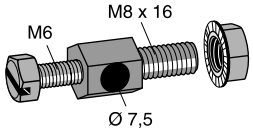
Equipotential bonding bolt



MP-838



MP-842



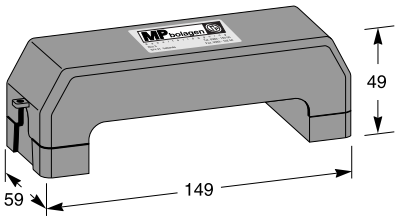
MP-839

The smaller screw (M5x20) is mainly intended to be used together with our potential connection band for wrapping around metal objects in all forms. The screw has a double function, both as a clamping screw for the band (M5x20 mm) and for connecting potential conductors max 16 mm² in the Ø6 mm hole. Sold in sets of 10.

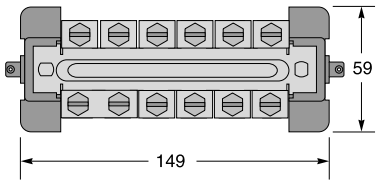
M6x12 and M8x16 are suitable in most holes in our products, which makes it easy to connect potential for all our components. The potential conductor hole (Ø7.5 mm) allows connection of a max. 25 mm² conductor. Sold in sets of 10.

Dim	Zinc 10 µm	E-no	Stainless st.	E-no
M5 x 20	—	—	MP-838 R	15 144 94
M8 x 16	MP-839 E	11 157 88	MP-839 R	11 157 89
M6 x 12	MP-842 E	11 157 87	—	—

Equipotential bonding bar



Equipotential bonding bar with sealable plastic cover. Nine loose clip-on plinths are used on the collar-shaped contact channel for connection of round conductors with an area of 2.5mm² - 95 mm². With the double plinth, a 4 x 30 mm steel band can also be connected.
Height = 49 mm.



Zinc 10 µm	E-no
MP-841 E	06 819 02

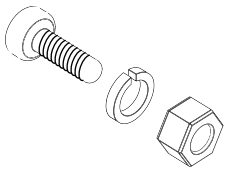
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

MP-Potential balancing connection

Roofing bolt with nut

Screw with spring washer and nut of acidproof quality A4.
NB - the spring washer must always be used for potential connections.
Sold in sets of 50.

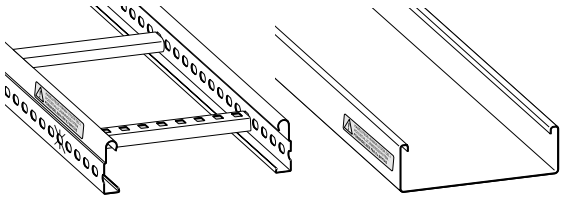


Dim	Stainless steel	E-no
M5 x 12	MP-834 R	15 144 90
M5 x 25	MP-835 R	15 144 91

label

A waterproof label attached to the tray.
The label is yellow and measures 100x18 mm.
NB. The text is in Swedish.

Supplied in rolls of 100 labels.



Label	E-no
MP-837 F	11 167 15

Potential connecting set

The basic set includes the following:

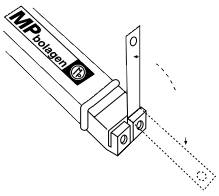
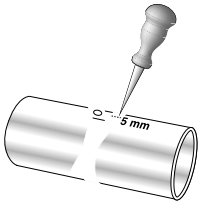
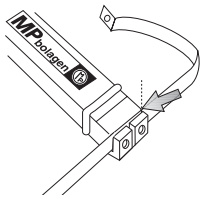
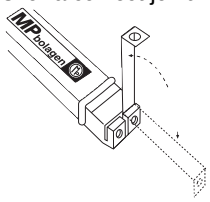
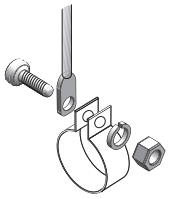
1 pcs	Punch/bending tongs	16 058 90
1 pcs	Stainless steel band	15 220 40
1 pcs	Aluzinc band	15 220 39
1 set	Clamp, stainless steel	15 220 42
1 set	Clamp, aluzinc	15 220 44
50 pcs	Reinforcement angle	(15 220 43)
50 pcs	Reinforcement angle	(15 220 45)
1 set	Screw M5x12	15 144 90
1 set	Screw M5x12	15 144 91

Supplied in a black tool bag

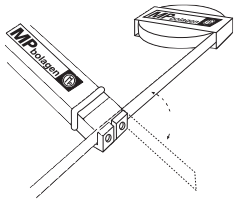
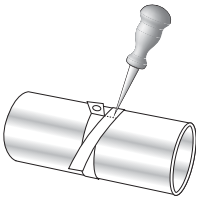
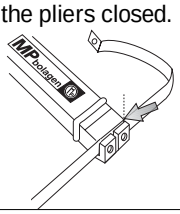
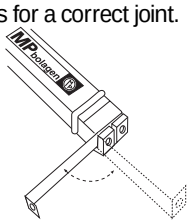
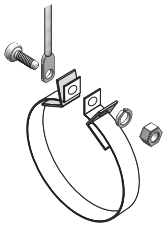
Basic set	E-no
MP-840 F	06 819 00

MP-Potential balancing connection

Montage instruction without angle brackets

Cut the band to the right rough length. Bend one angle as per figure. ❶ 	Measure the exact length around the object; mark 5 mm shorter than the circumference. ❷ 	Place the band in the pliers with the mark in line with the cutting head. Cut the band. ❸ 
Bend the other angle as per figure. Place the band around the object. There must be a gap of 1-2 mm between the angles for a correct joint. ❹ 	Screw the joint together, with the contact connection on the outside of one bend. ❺ 	

Montage instruction with angle brackets

Cut the band to the right rough length. Bend one angle as per figure. ❶ 	Measure the exact length around the object; mark at the bent angle. ❷ 	Place the band in the pliers with the mark in line with the cutting head. Cut the band. Keep the pliers closed. ❸ 
Bend the other angle as per figure. Place the band around the object. There must be a gap of 1-2 mm between the angles for a correct joint. ❹ 	Screw the joint together, with the contact connection on the outside of one bend. ❺ 	

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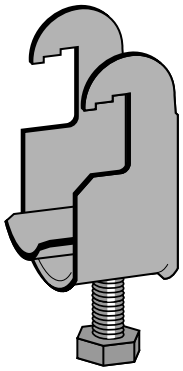
POHL clamps

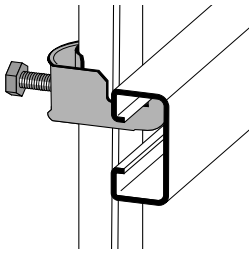
POHL clamps are considered the original within the cable clamp concept and include clamps for various attachment purposes such as channels, cable ladders and telecomms masts, etc.

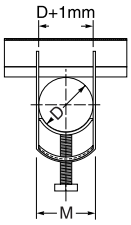
POHL-Clamps

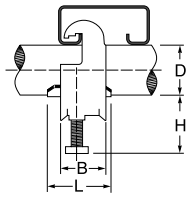
Pohl clamp ACU



Cable clamps are primarily designed for channels, but also suitable on flat steel, U and C profiles, etc. as well as on rungs in MP-S cable ladders.
Type ACU-VA cable clamps are manufactured from non-magnetic stainless steel quality 1.4301 (SS2333).
Cable clamps in other sizes are available on request.
Tip: Fit cable clamps with the opening turned upwards in a horizontal channel.







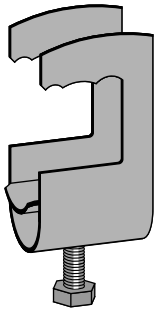
— = Item available to order

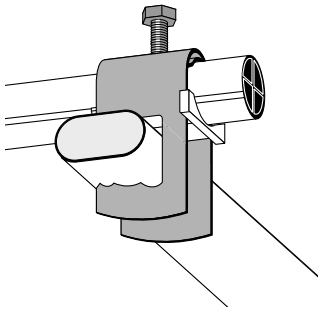
No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless st.	E-no	Tighten moment	M	H	L	B
1	8-12	K 12 ACU	15 246 02	K 12 ACU-VA	15 249 30	2 Nm	16	28	28	25
1	12-16	K 16 ACU	15 246 06	K 16 ACU-VA	15 249 32	2 Nm	20	28	28	25
1	16-20	K 20 ACU	15 246 10	K 20 ACU-VA	15 249 34	2 Nm	24	28	28	25
1	20-24	K 24 ACU	15 246 14	K 24 ACU-VA	15 249 36	2 Nm	28	28	28	25
1	24-28	K 28 ACU	15 246 18	K 28 ACU-VA	15 249 38	2 Nm	32	28	28	25
1	28-32	K 32 ACU	15 246 20	K 32 ACU-VA	15 249 40	2 Nm	33	28	33	25
1	32-36	K 36 ACU	15 246 22	K 36 ACU-VA	15 249 44	2 Nm	41	28	33	25
1	36-40	K 40 ACU	15 246 24	K 40 ACU-VA	15 249 48	2 Nm	45	28	33	25
1	40-44	K 44 ACU	15 246 26	K 44 ACU-VA	15 249 50	4 Nm	49	36	33	25
1	44-48	K 48 ACU	15 246 28	K 48 ACU-VA	15 249 52	4 Nm	53	36	33	25
1	48-52	K 52 ACU	15 246 30	K 52 ACU-VA	15 249 54	4 Nm	57	36	33	25
1	52-56	K 56 ACU	15 246 32	K 56 ACU-VA	15 249 56	4 Nm	61	36	33	25
1	56-60	K 60 ACU	15 246 34	K 60 ACU-VA	—	4 Nm	65	36	38	30
1	60-70	K 70 ACU	15 246 38	K 70 ACU-VA	—	4 Nm	75	36	38	30
2	8-12	K 12/2 ACU	15 246 52	K 12/2 ACU-VA	—	2 Nm	16	32	28	25
2	12-16	K 16/2 ACU	15 246 56	K 16/2 ACU-VA	—	2 Nm	20	32	28	25
2	16-20	K 20/2 ACU	15 246 60	K 20/2 ACU-VA	—	2 Nm	24	32	28	25
2	20-24	K 24/2 ACU	15 246 64	K 24/2 ACU-VA	—	2 Nm	28	32	28	25
2	24-28	K 28/2 ACU	—	K 28/2 ACU-VA	—	2 Nm	32	32	28	25
2	36-40	K 40/2 ACU	—	K 40/2 ACU-VA	—	2 Nm	45	32	33	25
2	48-52	K 52/2 ACU	—	K 52/2 ACU-VA	—	4 Nm	57	40	33	25
3	8-12	K 12/3 ACU	15 246 82	K 12/3 ACU-VA	—	2 Nm	16	36	25	25
3	12-16	K 16/3 ACU	15 246 86	K 16/3 ACU-VA	—	2 Nm	20	36	25	25
3	24-28	K 28/3 ACU	—	K 28/3 ACU/VA	—	2 Nm	32	36	28	25

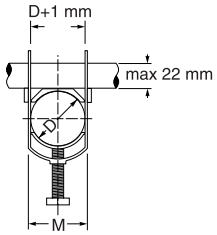
As regards the MP number, the letters stands for: (see page 4)
E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

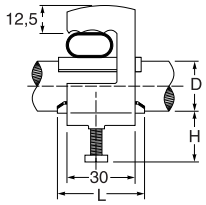
Pohl clamp RU

RU cable clamps are produced to fit most cable ladders on the market. The cable clamps are also excellent for attaching to smooth surfaces such as flat steel, etc. RU are always supplied with type GW spacers in order to give the cable an even and larger contact surface with the base.
Type RU-VA cable clamps are manufactured from non-magnetic stainless steel quality 1.4301 (SS2333).
Cable clamps for 3 cables and in other sizes are available on request.









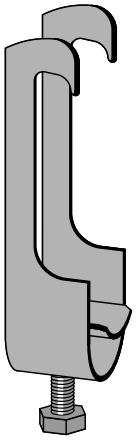
— = Item available to order

No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless st.	E-no	Tighten moment	M	H	L
1	8-14	K 14 RU	15 248 00	K 14 RU-VA	—	2 Nm	18	32	28
1	14-20	K 20 RU	15 248 02	K 20 RU-VA	—	2 Nm	24	32	28
1	20-26	K 26 RU	15 248 04	K 26 RU-VA	—	2 Nm	30	32	28
1	26-32	K 32 RU	15 248 06	K 32 RU-VA	—	2 Nm	37	36	33
1	32-38	K 38 RU	15 248 08	K 38 RU-VA	—	2 Nm	43	36	33
1	38-44	K 44 RU	15 248 10	K 44 RU-VA	—	4 Nm	49	36	33
1	44-52	K 52 RU	15 248 12	K 52 RU-VA	—	4 Nm	57	36	33
1	52-60	K 60 RU	15 248 14	K 60 RU-VA	—	4 Nm	65	36	38
1	60-70	K 70 RU	15 248 16	K 70 RU-VA	—	4 Nm	77	46	60
2	8-14	K14/2 RU	15 248 30	K 14/2 RU-VA	—	2 Nm	18	36	28
2	14-20	K 20/2 RU	15 248 32	K 20/2 RU-VA	—	2 Nm	24	36	28
2	20-26	K 26/2 RU	15 248 34	K 26/2 RU-VA	—	2 Nm	30	36	28
2	26-32	K 32/2 RU	15 248 36	K 32/2 RU-VA	—	2 Nm	37	40	33
2	40-44	K 44/2 RU	—	K 44/2 RU-VA	—	4 Nm	49	40	33
3	8-14	K 14/3 RU	15 248 31	—	—	2 Nm	18	40	28
3	14-20	K 20/3 RU	15 248 33	—	—	2 Nm	24	40	28
3	26-32	K 32/3 RU	15 248 37	—	—	2 Nm	37	44	33

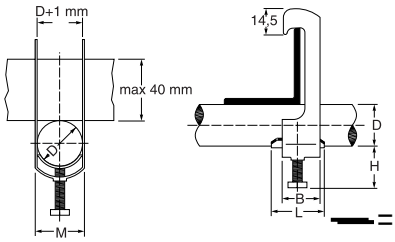
As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y Gl 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

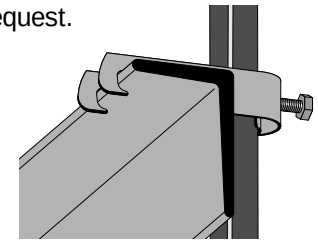
POHL-Clamps

Pohl clamp S



Cable clamps for edge plate or U-bar, etc. with a flange depth of 40 mm. Type S-VA cable clamps are manufactured from non-magnetic stainless steel quality 1.4301 (SS2333). Cable clamps in other sizes are available on request.





— = Item available to order

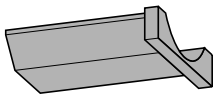
No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless st.	E-no	Tighten moment	M	H	L	B
1	8-12	K 12 S	15 245 00	K 12 S-VA	15 245 01	2 Nm	16	28	28	25
1	12-16	K 16 S	15 245 10	K 16 S-VA	15 245 11	2 Nm	20	28	28	25
1	16-20	K 20 S	—	K 20 S-VA	—	2 Nm	24	28	28	25
1	20-24	K 24 S	—	K 24 S-VA	—	2 Nm	28	28	28	25
1	24-28	K 28 S	15 245 20	K 28 S-VA	15 245 21	2 Nm	32	28	28	25
1	28-32	K 32 S	—	K 32 S-VA	—	2 Nm	33	28	33	25
1	32-36	K 36 S	—	K 36 S-VA	—	2 Nm	41	28	33	25
1	36-40	K 40 S	15 245 30	K 40 S-VA	15 245 31	2 Nm	45	28	33	25
1	40-44	K 44 S	—	K 44 S-VA	—	4 Nm	49	36	33	25
1	44-48	K 48 S	—	K 48 S-VA	—	4 Nm	53	36	33	25
1	48-52	K 52 S	15 245 40	K 52 S-VA	15 245 41	4 Nm	57	36	33	25
1	52-56	K 56 S	—	K 56 S-VA	—	4 Nm	61	36	33	25
1	56-60	K 60 S	—	K 60 S-VA	—	4 Nm	66	36	38	30
1	60-70	K 70 S	—	K 70 S-VA	—	4 Nm	76	36	38	30
2	8-12	K 12/2 S	15 245 03	K 12/2 S-VA	15 245 04	4 Nm	16	28	28	20
2	12-16	K 16/2 S	15 245 13	K 16/2 S-VA	15 245 14	4 Nm	20	28	28	25
2	16-20	K 20/2 S	—	K 20/2 S-VA	—	4 Nm	24	28	28	25
2	20-24	K 24/2 S	—	K 24/2 S-VA	—	4 Nm	28	28	28	25
2	24-28	K 28/2 S	15 245 23	K 28/2 S-VA	15 245 24	4 Nm	32	28	28	25
2	28-32	K 32/2 S	—	K 32/2 S-VA	—	4 Nm	33	28	33	25
2	32-36	K 36/2 S	—	K 36/2 S-VA	—	4 Nm	41	28	33	25
2	36-40	K 40/2 S	15 245 33	K 40/2 S-VA	15 245 34	4 Nm	45	28	33	25
2	40-44	K 44/2 S	—	K 44/2 S-VA	—	4 Nm	49	36	33	25
2	44-48	K 48/2 S	—	K 48/2 S-VA	—	4 Nm	53	36	33	25
2	48-52	K 52/2 S	15 245 43	K 52/2 S-VA	15 245 44	4 Nm	57	36	33	25
3	8-12	K 12/3 S	15 245 06	K 12/3 S-VA	15 245 07	4 Nm	16	28	28	25
3	12-16	K 16/3 S	15 245 16	K 16/3 S-VA	15 245 17	4 Nm	20	28	28	25
3	16-20	K 20/3 S	—	K 20/3 S-VA	—	4 Nm	24	28	28	25
3	20-24	K 24/3 S	—	K 24/3 S-VA	—	4 Nm	28	28	28	25
3	24-28	K 28/3 S	15 245 26	K 28/3 S-VA	15 245 27	4 Nm	32	28	28	25
4	8-12	—	—	K 12/4 S-VA	15 245 09	4 Nm	16	28	28	25

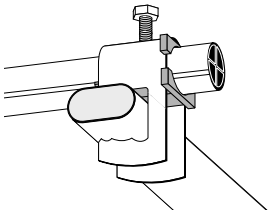
As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Single separator pad GW

Manufactured from impact-resistant and weather-resistant polythene plastics. Used as pressure equalizers between cables and bases. Insulated installation of the cable is achieved with spacers both above and below the cable. NB! A GW spacer is supplied with each RU cable clamp.

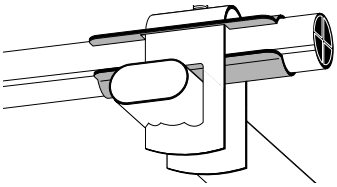




Dim	Plastic	E-no
9-12	GW 10-12	15 247 00
13-16	GW 14-16	15 247 02
17-20	GW 18-20	15 247 04
21-24	GW 22-24	15 247 06
25-28	GW 26-28	15 247 08
29-32	GW 30-32	15 247 10
33-36	GW 34-36	15 247 12
37-40	GW 38-40	15 247 14
41-48	GW 44-48	15 247 16
49-56	GW 52-56	15 247 18
57-64	GW 60-64	15 247 20
65-70	GW 70	15 247 26

Long separator pad LW

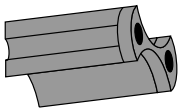
Due to its longer contact surface, the LW is intended for extra pressure-sensitive cables. Normally used in pairs above and below the cable. Can also be used as a double spacer for several cables in the same cable clamp.

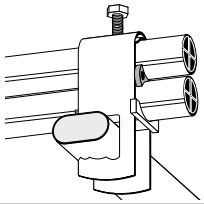


Dim	Zinc 60 µm	E-no	Stainless st	E-no
8-12	LW 12	15 247 50	LW 12 VA	15 247 51
12-16	LW 16	15 247 52	LW 16 VA	15 247 53
16-20	LW 20	15 247 54	LW 20 VA	—
20-24	LW 24	15 247 56	LW 24 VA	—
24-28	LW 28	15 247 58	LW 28 VA	15 247 59
28-32	LW 32	15 247 60	LW 32 VA	—
32-36	LW 36	15 247 62	LW 36 VA	—
36-40	LW 40	15 247 64	LW 40 VA	15 247 65
40-44	LW 44	15 247 66	LW 44 VA	—
44-48	LW 48	15 247 68	LW 48 VA	—
48-52	LW 52	15 247 70	LW 52 VA	15 247 71
52-56	LW 56	15 247 72	LW 56 VA	—

Double separator pad DW

Manufactured from impact-resistant and weather-resistant polythene plastics. Used between two or more cables in the same cable clamp.





Dim	Plastic	E-no
9-14	DW 10-14	15 247 30
15-22	DW 16-22	15 247 32
23-30	DW 24-30	15 247 34
31-38	DW 32-38	15 247 36
39-48	DW 40-48	15 247 38
49-56	DW 52-56	15 247 40

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

(see page 4)

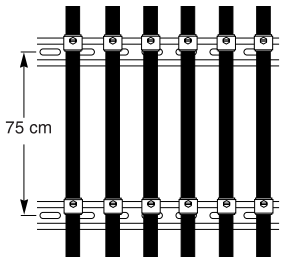
POHL-Clamps

Assembly instructions for Pohl clamps

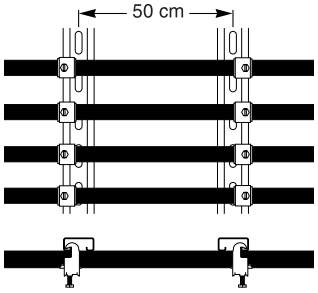
Cable installation

Recommended installation distance of cables in Pohl cable clamps.

Vertikalt

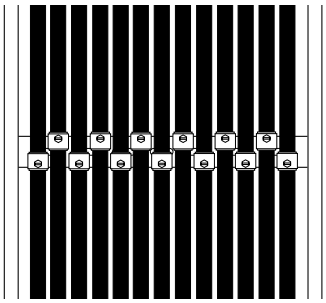


Horizontal



For horizontal installation, the fitting will be more stable if you turn every other cable clamp.

Cable ladder assembly



In order to avoid twisting the rungs when installing on a cable ladder, the cable clamps are mounted on both sides of the rung as per the illustration.

Joint laying of single conductors or weak-current cables

The table shows the size of cable clamp required for 3 - 6 cables of various diameters.

Cable diameter	3 cables	4 cables	5 cables	6 cables	Cable diameter	3 cables	4 cables	5 cables	6 cables
10	K 20	K 22	K 24	K 28	22	K 44	K 48	K 56	K 60
12	K 24	K 26	K 32	K 36	24	K 48	K 52	K 60	K 64
14	K 28	K 32	K 36	K 40	26	K 52	K 56	K 64	K 70
16	K 32	K 36	K 40	K 44	28	K 56	K 60	K 76	K 76
18	K 36	K 40	K 48	K 52	30	K 60	K 64	K 76	K 82
20	K 40	K 44	K 52	K 56					

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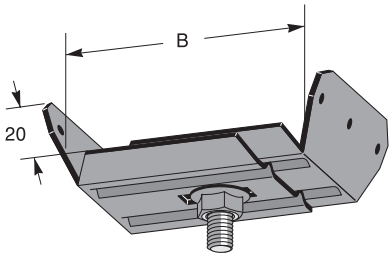
MP-Universal bracket

MP universal brackets offer unique possibilities for plating assembly. The bracket is adjustable for various trough widths. It can be used for both plated ceilings and wall assembly. It is attached using self-tapping screws or pop rivets on the edge of the wave trough, the strongest part of the plate.

The plate ceiling bracket can be used with or without MP-Profiles. All of the installation groups used in the building industry are offered unique possibilities thanks to the flexibility of the bracket.

MP-Universal bracket

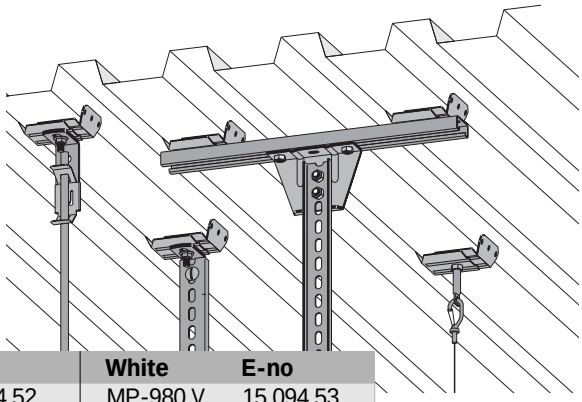
Universal bracket



Bracket for corrugated sheeting suitable for wave trough bases with width B. Divided and in combination with support bars, the bracket is suitable for all wave trough bases. The angle bracket has 3 holes of Ø 4.3 mm intended for 4 mm pop rivets or B8 self-tapping screws.

Maximum load 125 kg, ultimate load ≥1.7 times maximum load.

In order to calculate the maximum load of the attachment, consult the supplier's load value for roofing sheet or pop rivets/self-tapping screws.

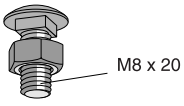


B	Zinc 20 µm	E-no	White	E-no
40 - 60	MP-980 S	15 094 52	MP-980 V	15 094 53
60 - 95	MP-981 S	15 094 56	MP-981 V	15 094 57
95 - 150	MP-982 S	15 094 50	MP-982 V	15 094 51

Roofing bolt with nut

If universal bracket MP-980 - MP-982 is fitted divided, it must be supplemented by 1 MP-990 nut and bolt per bracket.

Supplied in sets of 10.



Zinc 10 µm	E-no
MP-990 E	15 094 58

As regards the MP number, the letters stands for: (see page 4)

E = Elzinc 10 µm
S = Zinc 20 µm
A = Aluzinc 20 µm
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Table of contents

Multi-Monti

Multi-Monti is a concept with innovative and smart concrete screws. We have included this range as an obvious complement to our other products.

Some of the benefits of Multi-Monti include:

- Smaller drill holes, a screw with 7.5 mm has a Ø6 mm drill hole corres ponding to an M8 expander with a Ø8 mm drill hole. At a fixing depth of 35 mm, you get the same extrac tion force.
- Saw teeth - the screw tips are equipped with saw teeth. The screws "thread" their way into the base, which is why there is no bursting effect and you can attached closer to edges. The screws are perfect for brick, which is normally difficult to attach to.
- Type approval; as the screws are type approved, you can always relay on the quality of them.
- Removable; the screws can easily be removed by simply unscrewing them.
- Reusable; removed screws can be used again.

The plus values above offer a time saving of up to 50% per installation.

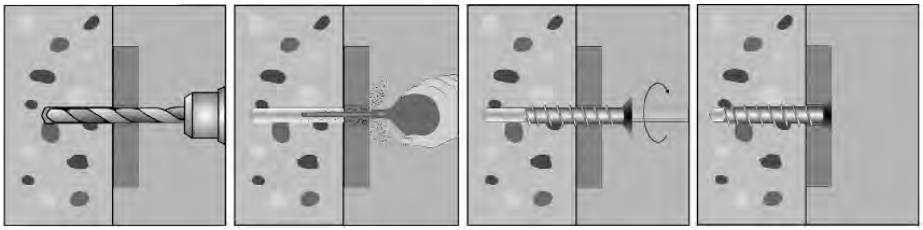
MP-Concrete screws

Multi-Monti

Multi-Monti is a concept with innovative and smart concrete screws, which are an obvious complement to our other products.

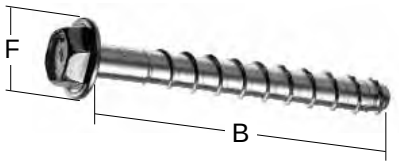
The maximum loads below apply to K 25 uncracked concrete with safety factor 3. For K 20 concrete, calculate 75% of the maximum loads.

Screw dimension	Max pull load	Max transverse load	Drill hole	Drill depth	Min. edge distance	Key range
Ø7,5x50	2,7 kN	2,7 kN	6	55	70	10
Ø7,5x55	2,7 kN	4,0 kN	6	65	80	10
Ø7,5x70	5,9 kN	5,9 kN	6	80	120	10
Ø10x70	6,1 kN	6,1 kN	8	80	120	13



Drill | Blow clean | screw tight | Finished

Concrete screw



B	F	Packs	Zinc 5 µm	E-no	Zinc 45 µm	E-no
7,5 x 50	17,5	10 pcs	MP-890 E10	15 566 30	MP-890 Z10	15 566 31
7,5 x 50	17,5	100 pcs	MP-890 E	15 566 20	MP-890 Z	15 566 21
7,5 x 70	17,5	10 pcs	MP-891 E10	15 566 32	MP-891 Z10	15 566 33
7,5 x 70	17,5	50 pcs	MP-891 E	15 566 22	MP-891 Z	15 566 23
10 x 70	19,0	10 pcs	MP-892 E10	15 566 34	MP-892 Z10	15 566 35
10 x 70	19,0	50 pcs	MP-892 E	15 566 24	MP-892 Z	15 566 25

As regards the MP number, the letters stands for: (see page 4)

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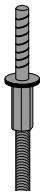
Ceiling bracket M8/M10

The concrete screw is screwed directly into the foundation. The threaded rod is screwed into the casing's "screw hole". Both M10 and M8 rods can be threaded into the bracket.



B	Packs	Zinc 5 µm	E-no
7,5x55	100 pcs	MP-923 E	11 175 53
7,5x55	10 pcs	MP-923 E10	15 094 45

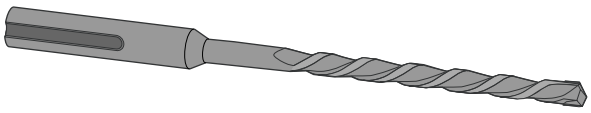
Screw for porous concrete

Screw for porous concrete 8x100 mm
Delivered with washer Ø18 mm. Torx TX40.
Maximum pull load >2 kN.

Supplied in sets of 10.

Zinc 5 µm	E-no	Zinc 45 µm	E-no
MP-889 E10	15 566 36	—	—

Percussion drill SDS



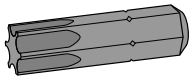
Dim	Zinc	E-no
6 x 160	MP-898 E	16 042 40
8 x 160	MP-899 E	16 042 41

As regards the MP number, the letters stands for: **V** = White **B** = Beige NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)
(see page 4)

MP-Concrete screws

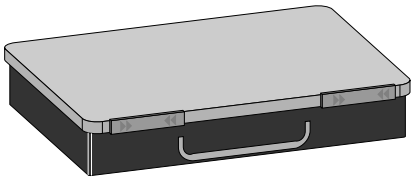
Torxbits TX

Intended for MP-889 E10



Dim	Zinc	E-no
40 x 25	MP-897 E	16 147 65

Screwset for concrete



The set includes the following:

30 st	Concrete screw 7,5x50 mm	15 566 30
20 st	Concrete screw 7,5x70 mm	15 566 32
10 st	Concrete screw 10x70 mm	15 566 34
10 st	Screw for porous concrete 8x100 mm	15 566 36
6 st	Ceiling bracket M8/M10	11 175 54
1 st	Percussion drill SDS 6x160 mm	16 042 40
1 st	Percussion drill SDS 8x160 mm	16 042 41
1 st	Bit holders for drill 6 mm	16 147 50
1 st	Bit holders for drill 8 mm	16 147 51
1 st	Magnetic casing 10 mm	16 147 60
1 st	Magnetic casing 13 mm	16 147 61
1 st	Torxbits TX 40x25	16 147 65

Bag	E-no
MP-843 F	15 566 40

As regards the MP number, the letters stands for: (see page 4)

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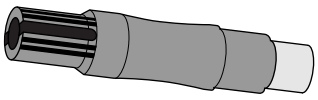
Z = Zinc SS-EN ISO1461
AZ = Aluzinc 25 µm (AZ 185)

Bit holders for drills 6/8 mm

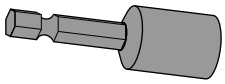
Allows screwing with a drilling machine.
Fitted directly onto the drill (6 or 8 mm).



Zinc 10 µm	E-no	Drill-Ø	Colour
MP-893 E	16 147 50	6 mm	Green
MP-894 E	16 147 51	8 mm	Red

Magnetic casing 10/13 mm

Carbon steel magnetic casing with 1/4" grip for drilling machines and screwdrivers. Suitable for bit holders 16 147 50 - 51.



Zinc 10 µm	E-no	Casing	Suitable for
MP-895 E	16 147 60	10 mm	15 566 20-23
MP-896 E	16 147 61	13 mm	15 566 24-25, 11 175 53

As regards the MP number, the letters stands for: **V** = White, **B** = Beige (see page 4) NCS 0502-Y GI 50 NCS 2502-Y **R** = acid-proof **Y** = Z-EDP (see page 7)

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MULTI-MONTI

Multi-Monti is a new concept with innovative and smart concrete screws, which are an obvious complement to our other products.

Some of the benefits of Multi-Monti include:

- Time saving; up to 50% time saving per attachment.
- High extraction value even with shallow fixing depth.
- Type approved in Germany and Sweden.
- Fire-rated in Germany.
- No bursting effect; can be fitted near corners and edges.
- Tightening torque; no defined tightening torque necessary.
- Surface treatment; available for both indoor an outdoor use.
- Removable by simply unscrewing.
- Reusable; removed screws can be used again.

Quick and easy!

MP bolagen

www.mpbolagen.se