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E-number, weight,
package

Surface finish

What surface finish should I choose?

A simple rule says that you can use the surface finishes as follows:

Surface finish	Maximum corrosivity class
Electrogalvanization	C1
Painted sheet metal	C2
Pre-galvanised sheet metal Z275 (Sendzimir process)	C2
Hot-dip galvanizing SS-EN ISO 1461	C4
Z4	C4
Stainless steel, acid resistant	C5I/C5M

Each corrosivity class has a fairly wide range and lifespan needs may vary. Proceed as set out below to more exactly determine which surface finish your project requires:

1. Use table 1:23a to determine the corrosivity class that the project best corresponds with.
2. Choose the surface finish according to the lifespan requirement in the selected corrosivity class, see table 2.

Example: You need to install cable ladders in an unheated warehouse building.

1. Table 1:23a shows clearly that here we have a C2 environment.
2. The warehouse building will be in service for more than 25 years, we choose pre-galvanised sheet metal Z275.
3. Here the MP code will be S, cable ladders are available with S in the MP-no, we choose it. All parts for installation thus must have an MP-code S or a letter further down in the list below.

In the MP-number the letter represents the following:

Layer thickness

E = Electrogalvanization		10 µm
V = White finish	RAL 9010	60-70 µm
B = Beige paint	NCS 2502-Y	60-70 µm
S = Pre-galvanized sheet metal	Z275 (Sendzimir process)	20 µm
A = Aluzinc	AZ150	20 µm
Z = Hot-dip galvanizing	SS-EN ISO 1461	60 µm
Z4 = Zinc/aluminium	Cl. 8/SS-EN ISO 61537 (equival.)	85 µm
R = Stainless steel/acid resistant		

Table 1:23a

Corrosivity class according to SS-EN ISO 12944-2, taking into account the corrosivity of the atmosphere and environment examples.

Corrosivity class	Environment's corrosivity	Examples of typical environments in the temperate climate zone (informative).	
		Outdoor	Indoor
 C1	Very low		Heated areas with dry and insignificant amounts of contamination, for example, offices, shops, schools and hotels.
 C2	Low	Atmospheres with low content of air contamination. Rural areas.	Non-heated areas with varying temperatures and humidity. Low frequency air of condensation and low levels of air contamination, for example, sports halls and warehouses.
 C3/C4	Moderate	Atmosphere with small quantities of salt or moderate amounts of air contamination. Urban areas and light industrial areas. Areas with some influence from the coast.	Areas with moderate humidity and some air contamination from production processes, for example, breweries, dairies and laundries.
 C3/C4	High	Atmosphere with a moderate quantity of salt or tangible quantities of air contamination, in industrial and coastal areas.	Areas with high humidity and large quantities of air contamination from production processes, for example, chemical plants, swimming pools and shipyards.
 C5-I	Very high (industrial)	Industrial areas with high humidity and aggressive atmosphere.	Areas with almost permanent moisture condensation and large levels of air contamination.
 C5-M	Very high (marine)	Coastal and offshore areas with large amounts of salt.	Areas with almost permanent moisture condensation and large levels of air contamination.

Table 2 – is a calculation of the surface treatment's service life until red rust occurs on the surface.

Corrosivity class	Corrosivity per unit area and unilateral thickness reduction – one-year exposure.			
	Steel		Zinc	
	Corrosivity (g/m ²)	Thickness reduction μm	Corrosivity (g/m ²)	Thickness reduction
C1	≤ 10	≤ 1,3	≤ 0,7	≤ 0,1
C2	>10 – 200	> 1,3 – 25	> 0,7 – 5	> 0,1 – 0,7
C3	> 200 – 400	> 25 – 50	> 5 – 15	> 0,7 – 2,1
C4	> 400 – 650	> 50 – 80	> 15 – 30	> 2,1 – 4,2
C5-I	> 10 – 1 500	> 80 – 200	> 30 – 60	> 4,2 – 8,4
C5-M	>10 – 1 500	> 80 – 200	> 30 – 60	> 4,2 – 8,4

Z4

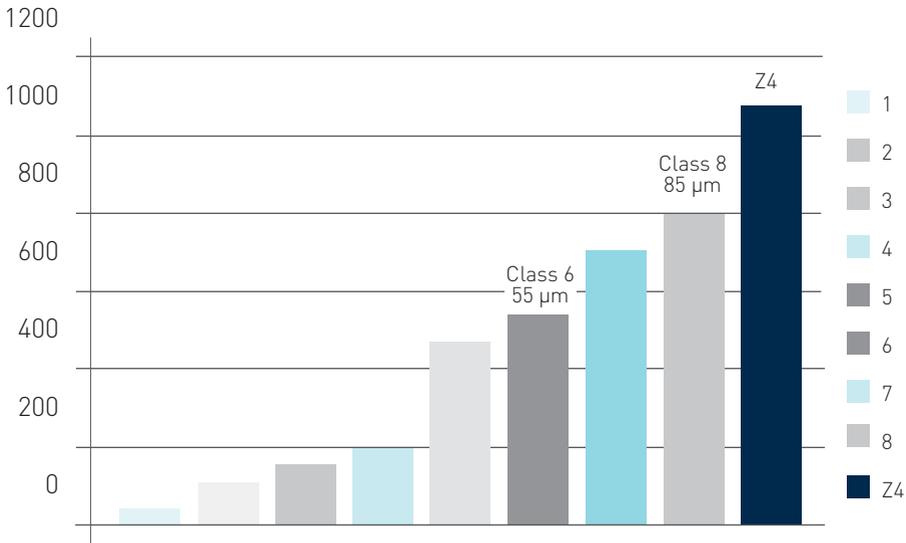
Less zinc usage saves natural resources in forests and the ground. It also has a lower price than hot-dip galvanized!

Z4 is a new more environmentally friendly material and meets the requirements for surface treatment class 8 according to SS-EN ISO 61537 – corresponds to min. 85 µm hot dip galvanizing (approved for C4-environments).

After 1050 hours of salt spray testing, only white rust occurred, which does not affect the function or lifespan.

For further information - see mpbolagen.se

Hours of exposure salt spray test!



Hot dip galvanized – 1050 h



Z4 – 1050 h



MP-cable ladders

QUICKER AND EASIER



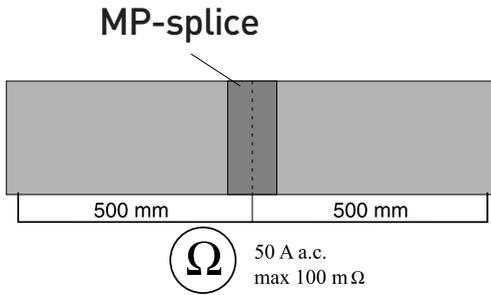
Equipotential bonding

Electrical continuity

All products in MP-cable installations comply to applicable demands regarding electrical continuity over splices according to SS-EN 61537:2007.

Painted trays have paint-free ends as standard and thus satisfy the requirements set out in the table below. For cutting and joining painted trays you must manually create an electrical connection across the splice. Ideally by means of a screwed metal joint on a paint-free surface (paint removed).

SP Technical Research Institute of Sweden in Borås have made test measurements 500 mm on each side of the splice with the following result.



Cable ladders

		Requirement
MP-S / MP-LS6 (MP-107 S)	1,0 / 2,0 m Ω	50 m Ω
MP-S / MP-LS6 (MP-108 S)	2,0 / 3,0 m Ω	50 m Ω
MP-TS	1,0 m Ω	50 m Ω
MP-PZ, Z, Z4	2,0 m Ω	50 m Ω
MP-FZ	< 1,0 m Ω	50 m Ω
Stainless/acid resistant – all	0,016 m Ω	50 m Ω

Cable trays

	Without clips	With clips	Requirement
50 mm bredd	1,0 m Ω	1,0 m Ω	50 m Ω
200 mm bredd	1,8 m Ω	1,0 m Ω	50 m Ω
600 mm bredd	0,5 m Ω	0,5 m Ω	50 m Ω

Wire mesh trays

		With splice	Requirement
Electroplated	75-600 mm	4.0-11.2 m Ω	50 m Ω
Hot-dip galvanized	75-600 mm	3.2-6.4 m Ω	50 m Ω
Acid resistant	75-600 mm	13,6-24,8 m Ω	50 m Ω
Z4	75-600 mm	1-2 m Ω	50 m Ω

Wall trunking

	With splice TBJ 1	Requirement
All white finish/natural aluminum	0.7 m Ω	50 m Ω

Cable ladders

are universally useful on horizontal and vertical axes. They are designed and optimised for cable routing where particular attention has been paid to the following characteristics:

- quick and easy installation
- high bearing strength
- few accessories
- the contact surface on rungs is designed for cables
- maximum protection depth for cables.

MP-cable ladders are available in three models.

MP-S in 3 and 6 m lengths.

The 3 metre ladder offers easy handling, especially in confined spaces, for example, offices, shops, schools etc. The 6 metre ladder is ideal where the length can be utilised for faster installation.

MP-LS6 is made of 0.7 mm material which is perfect for outdoors. The weight is approx 30% lower than traditional ladder, which gives advantages both during assembling as well for the environment, when the consumption of material is lower. Corrosivity class max C2

MP-TS, PZ, Z, Z4, PZ4 heavy ladders are manufactured in 6 m lengths, which ensure straightforward installation in e.g. industrial halls, large warehouses and the like.

MP-FZ is the sturdiest among MP-cable ladders. A reinforced heavy ladder in 6 m length for long cantilever arm spacing, but also a ladder that can withstand tough treatment.

Accessories are mainly common with other sub-systems such as ceiling pendants, angle brackets and fastening screws.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders

Cable ladders RF/SF



Cable trays/
luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings

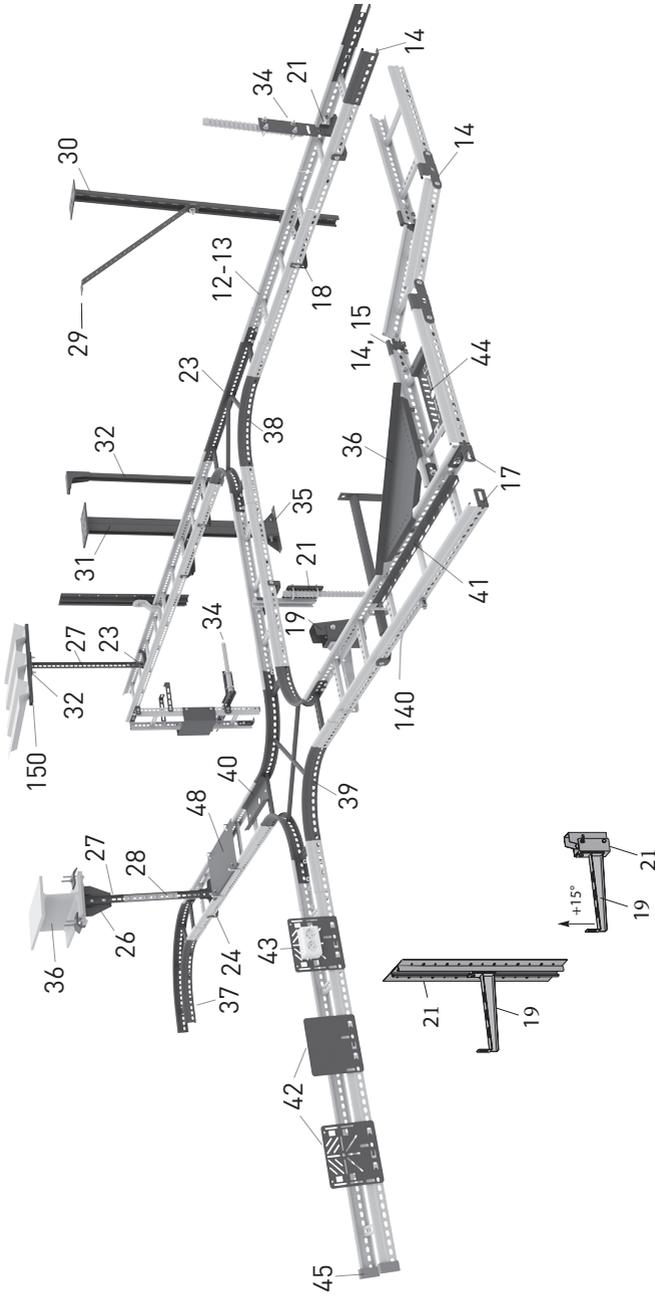


E-number, weight, package

Cable ladders

Ladder type MP-S, LS6, TS, Z, PZ, Z4, PZ4

Numbers denote page number



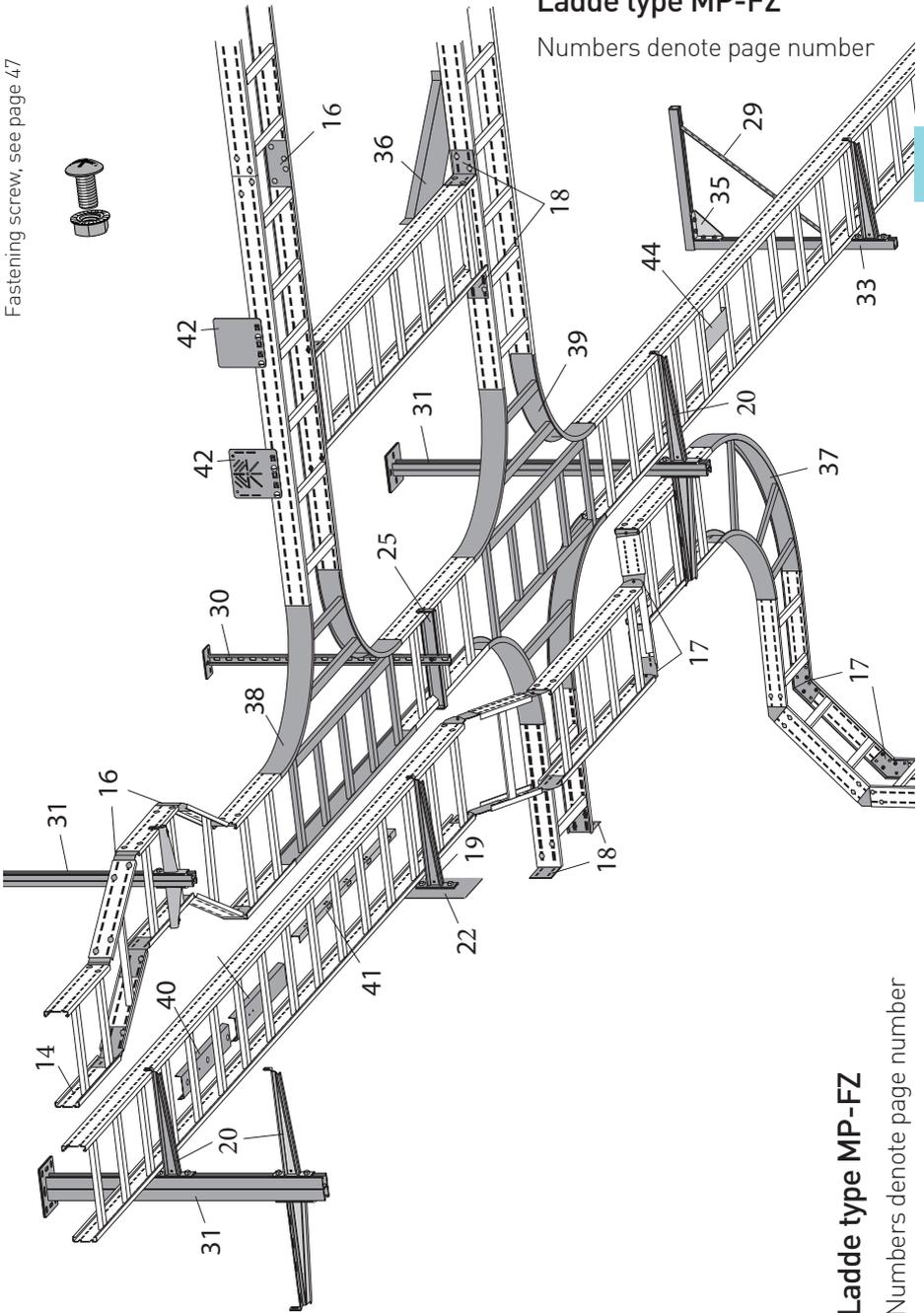
Ladder type MP-S, LS6, TS, Z, PZ, Z4, PZ4

Numbers denote page number

Cable ladders

Ladde type MP-FZ

Numbers denote page number



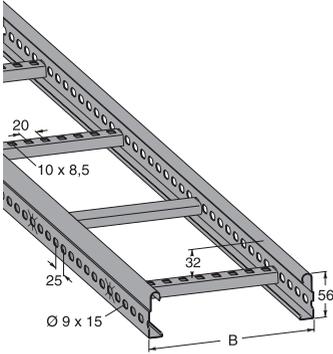
Fastening screw, see page 47

Ladde type MP-FZ

Numbers denote page number

Cable ladders

Cable ladders MP-S – 3 m and 6 m



Cable ladder with perforated rungs for environmental class maximum C2.

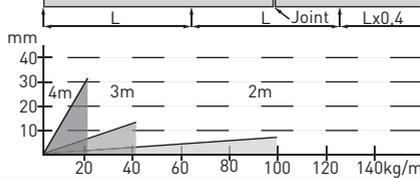
The second rung at each end is closed.

For information about surface finish, see page 4.

Rung spacing: c-c 250 mm.

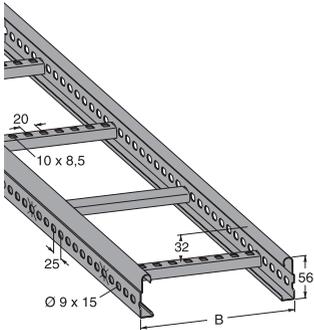
Ultimate failure load: ≥ 1.7 times the max. load.

Deflection in mm according to SS-EN 61537 test type II



B	Zinc 20 μ m	E-no	Zinc 20 μ m	E-no	White	E-no
200	MP-102 S	11 150 23	MP-102 S6	11 150 24	MP-102 V	11 150 25
300	MP-103 S	11 150 26	MP-103 S6	11 150 27	MP-103 V	11 150 28
400	MP-104 S	11 150 29	MP-104 S6	11 150 30	MP-104 V	11 150 31
500	MP-105 S	11 150 32	MP-105 S6	11 150 33	MP-105 V	11 150 34
600	MP-106 S	11 150 35	MP-106 S6	11 150 36	MP-106 V	11 150 42

Cable ladder MP-LS6 – 6 m



Cable ladder with perforated rungs for environmental class maximum C2

The second rung at each end is closed.

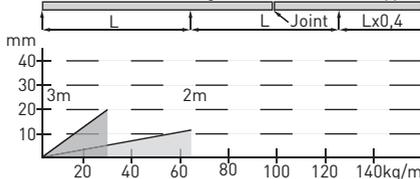
For information about surface finish, see page 4.

Ladder length: 6 m.

Rung spacing: c-c 250 mm.

Ultimate failure load: ≥ 1.7 times the max. load.

Deflection in mm according to SS-EN 61537 test type II



B	Zinc 20 μ m	E-no
200	MP-102 LS6	11 151 17
300	MP-103 LS6	11 151 18
400	MP-104 LS6	11 151 19
500	MP-105 LS6	11 151 20
600	MP-106 LS6	11 151 21

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

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

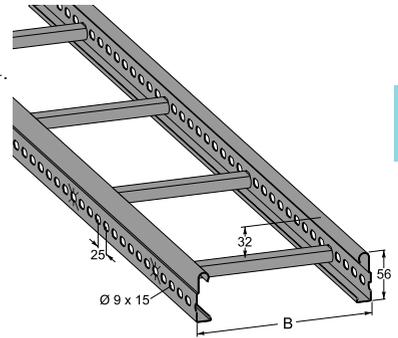
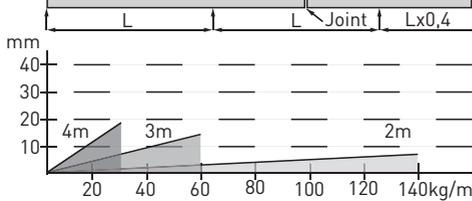
A = Aluzinc 20 μ m (AZ 150)
 Z4 = Zinc/mag. 25 μ m (ZM 310)

Cable ladder MP-TS, Z, Z4 – 6 m

Cable ladder with closed flat oval rungs for environmental class max C2 (S)/C4 (Z and Z4).
For information about surface finish, see page 4.

Ladder length: 6 m.
Rung spacing: c-c 250 mm.
Ultimate failure load: ≥ 1.7 times the max. load.

Deflection in mm according to SS-EN 61537 test type II



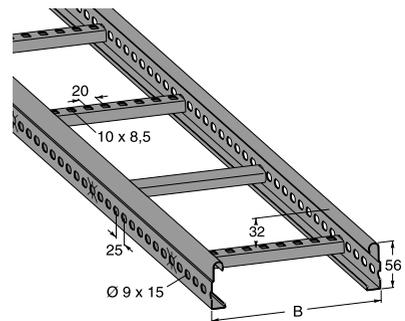
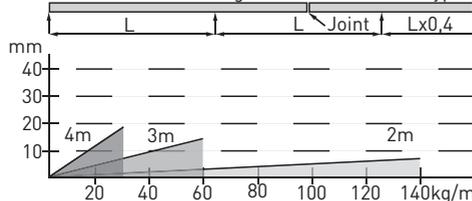
B	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z4	E-no
200	MP-152 S	11 150 43	MP-152 Z	11 150 63	MP-152 Z4	11 151 02
300	MP-153 S	11 150 46	MP-153 Z	11 150 66	MP-153 Z4	11 151 03
400	MP-154 S	11 150 49	MP-154 Z	11 150 69	MP-154 Z4	11 151 04
500	MP-155 S	11 150 52	MP-155 Z	11 150 72	MP-155 Z4	11 151 05
600	MP-156 S	11 150 55	MP-156 Z	11 150 75	MP-156 Z4	11 151 06

Cable ladder MP-PZ, PZ4 – 6 m

Cable ladder with perforated rungs for environmental class maximum C4

The second rung at each end is closed.
For information about surface finish, see page 4.
Rung spacing: c-c 250 mm.
Ultimate failure load: ≥ 1.7 times the max. load.

Deflection in mm according to SS-EN 61537 test type II



B	Zinc 60 µm	E-no	Z4	E-no
200	MP-152 PZ	11 150 77	MP-152 PZ4	11 151 07
300	MP-153 PZ	11 150 78	MP-153 PZ4	11 151 08
400	MP-154 PZ	11 150 79	MP-154 PZ4	11 151 09
500	MP-155 PZ	11 150 80	MP-155 PZ4	11 151 10
600	MP-156 PZ	11 150 81	MP-156 PZ4	11 151 11

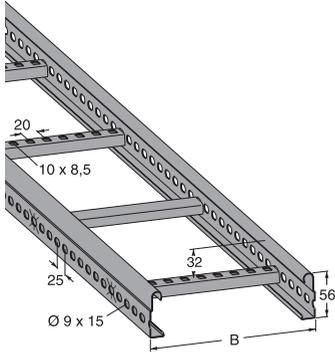
The letter in the MP No. denotes the surface finish according to: (also see page 4)

V = White RAL 9010
B = Beige NCS 2502-Y
SV = Black RAL 9005

R = Acid resistant

Cable ladders

Cable ladder MP-Z4 – 3 m



Cable ladder with perforated rungs for environmental class maximum C4

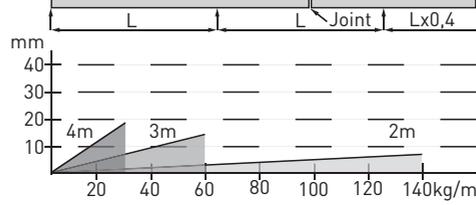
The second rung at each end is closed.

For information about surface finish, see page 4.

Rung spacing: c-c 250 mm.

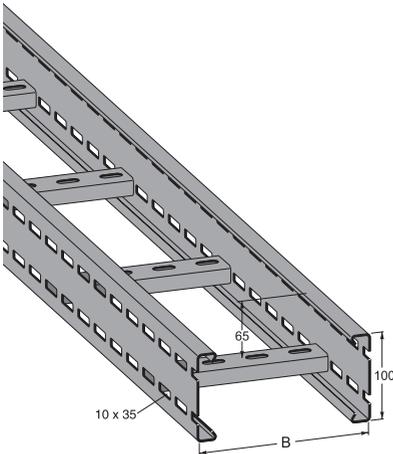
Ultimate failure load: ≥ 1.7 times the max. load.

Deflection in mm according to SS-EN 61537 test type II



B	Zinc 60 μ m	E-no
200	MP-102 Z4	11 151 12
300	MP-103 Z4	11 151 13
400	MP-104 Z4	11 151 14
500	MP-105 Z4	11 151 15
600	MP-106 Z4	11 151 16

Self-supporting cable ladder MP-FZ – 6 m

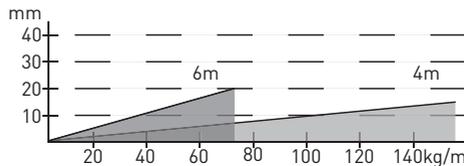


Designed for long cantilever spacing, but also in environments where great demands are made on mechanical strength. For environmental class maximum C4

Ladder length: 6 m.

Rung spacing: c-c 300 mm.

Ultimate failure load: ≥ 1.7 times the max. load.



B	Zinc 60 μ m	E-no
200	MP-192 Z	11 150 85
300	MP-193 Z	11 150 88
400	MP-194 Z	11 150 91
500	MP-195 Z	11 150 94
600	MP-196 Z	11 150 97

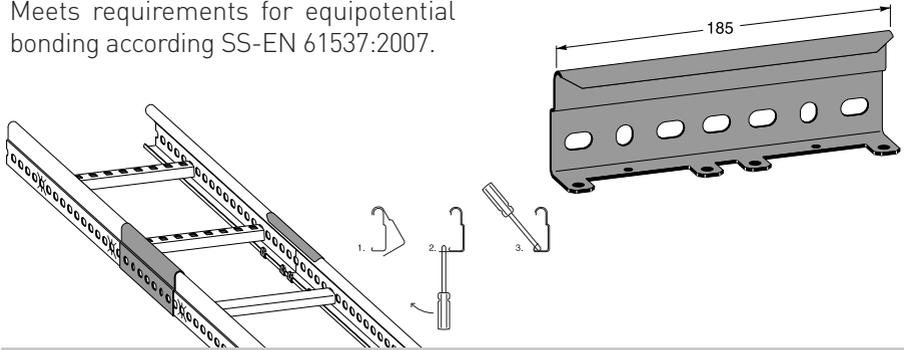
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

A = Aluzinc 20 μ m (AZ 150)
Z4 = Zinc/mag. 25 μ m (ZM 310)

Splice for MP-S, LS6, TS, Z, PZ, Z4, PZ4

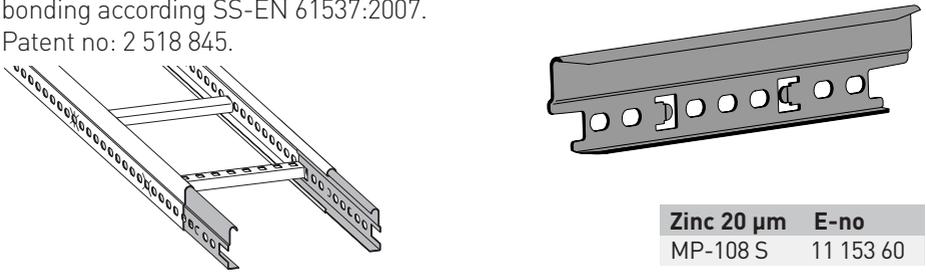
Meets requirements for equipotential bonding according SS-EN 61537:2007.



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z4	E-no	White	E-no
MP-107 S	11 153 63	MP-107 Z	11 153 65	MP-107 Z4	11 153 61	MP-107 V	11 153 64

Internal ladder splice for MP-S, LS6

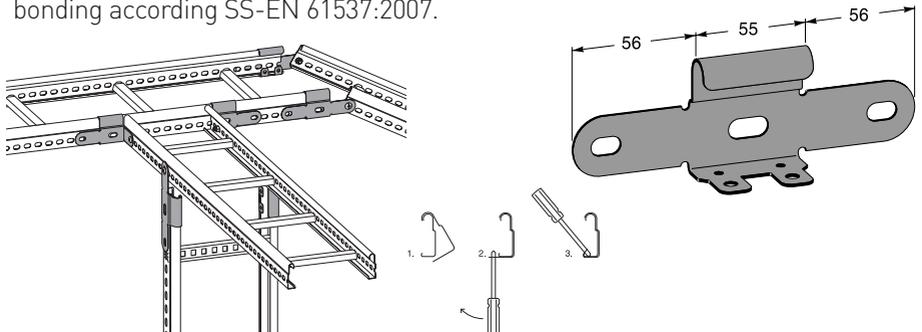
Meets requirements for equipotential bonding according SS-EN 61537:2007.
Patent no: 2 518 845.



Zinc 20 µm	E-no
MP-108 S	11 153 60

Universal link for MP-S, LS6, TS, Z, PZ, Z4, PZ4

Meets requirements for equipotential bonding according SS-EN 61537:2007.



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z4	E-no	White	E-no
MP-114 S	11 153 74	MP-114 Z	11 153 76	MP-114 Z4	11 153 56	MP-114 V	11 153 92

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

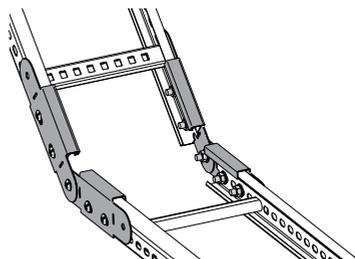
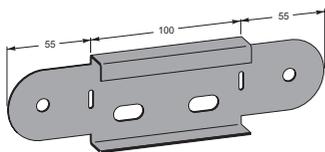
R = Acid resistant

Cable ladders

Universal link – reinforced

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 links/splice. Supplemented with fastening screws MP-937 Z, see page 47.

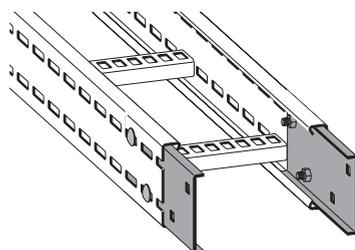
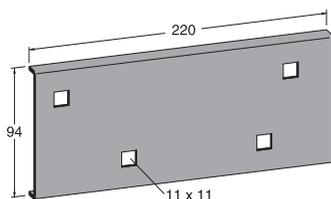


Z4	E-no
MP-115 Z4	11 153 57

Splice for MP-FZ

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per splice, see page 47.

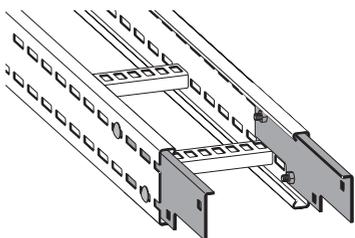
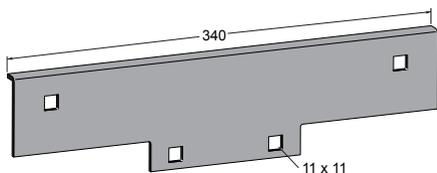


Zinc 60 µm	E-no
MP-201 Z	11 153 67

Internal ladder splice for MP-FZ

Used at ends against the wall or the like where the standard splice MP-201 Z cannot be used. Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per splice, see page 47.



Zinc 60 µm	E-no
MP-206 Z	11 153 71

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

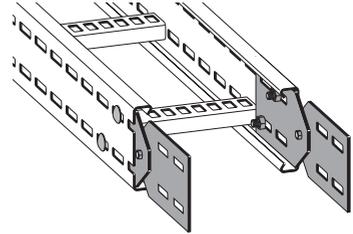
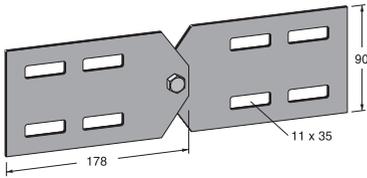
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

Vertical axis for MP-FZ

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per link, see page 47.

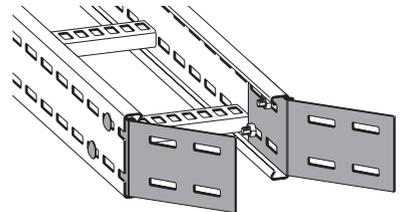
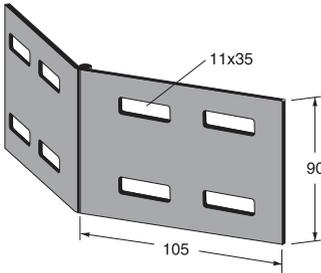


Zinc 60 µm	E-no
MP-202 Z	11 153 77

Horizontal axis for MP-FZ

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per link, see page 47.

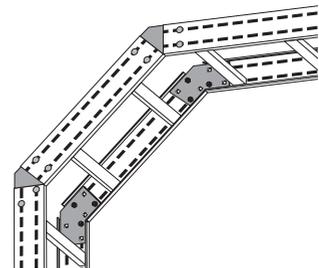
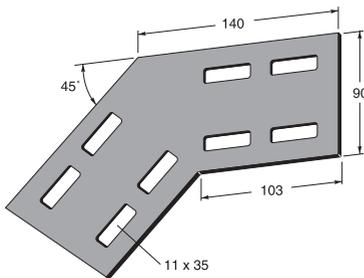


Zinc 60 µm	E-no
MP-203 Z	11 153 78

Splice 45° for MP-FZ

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per splice, see page 47.



Zinc 60 µm	E-no
MP-205 Z	11 153 69

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

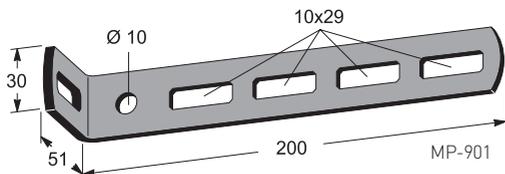
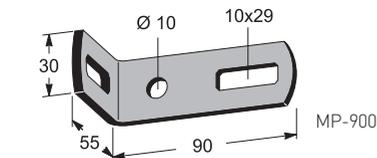
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

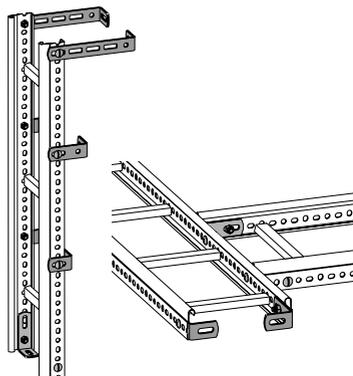
R = Acid resistant

Cable ladders

Angle bracket for MP-S, LS6, TS, Z, PZ, AZ, PZ4, Z4

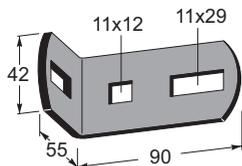


Meets requirements for equipotential bonding according SS-EN 61537:2007.



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

Angle bracket for MP-FZ



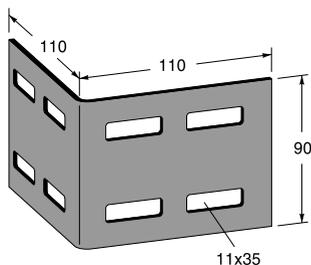
Meets requirements for equipotential bonding according SS-EN 61537:2007.

Designed for the FZ ladder, with a hole pattern for carriage bolts and nut M10, see page 47.

Slightly wider and is ideal for installation on e.g. anchor rails.

Zinc 60 µm	E-no
MP-903 Z	11 153 90

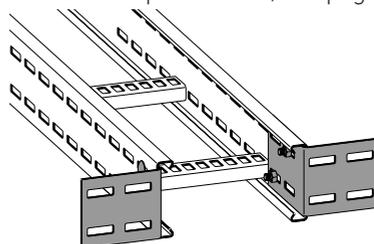
Angle bracket for MP-FZ



Angle bracket designed for cable ladder type MP-FZ.

Meets requirements for equipotential bonding according SS-EN 61537:2007.

Use 4 x MP-947 Z-bolts per bracket, see page 47.



Zinc 60 µm	E-no
MP-204 Z	11 153 88

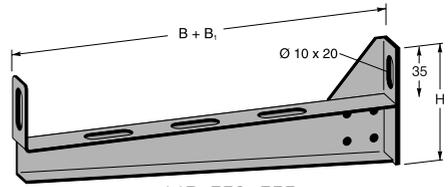
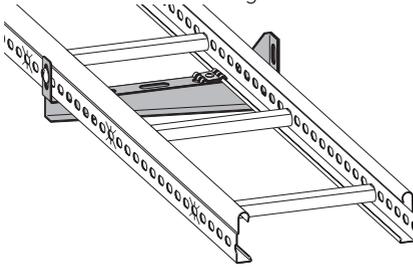
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

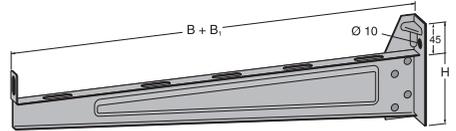
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Cantilever arm type KL

For porous substrate use backing plate MP-962, see page 22.
Ultimate failure load: ≥ 1.7 times the maximum load 150 kg.



MP-753-755



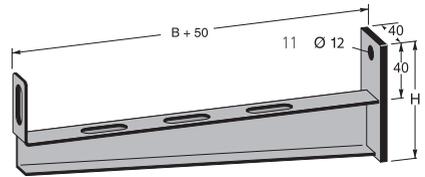
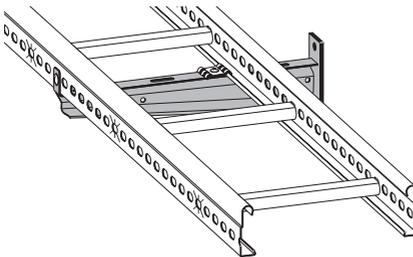
MP-756-762

B	B1	H	Zinc 20 µm	E-no	Zinc 60 µm	E-no	White	E-no
200	40	80	MP-753 S	11 165 52	MP-753 Z	11 165 55	MP-753 V	11 165 53
300	40	90	MP-754 S	11 165 61	MP-754 Z	11 165 64	MP-754 V	11 165 62
400	40	100	MP-755 S	11 165 70	MP-755 Z	11 165 73	MP-755 V	11 165 71
500	50	150	MP-756 S	11 165 74	MP-756 Z	11 165 78	MP-756 V	11 165 75
600	50	150	MP-762 S	11 165 80	MP-762 Z	11 165 84	MP-762 V	11 165 82

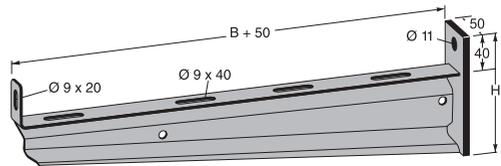
Cantilever arm type KN to MP-S, LS6, TS, Z, PZ, Z4

Secure the ladder using fastening screw (page 47) on the front edge of the cantilever arm and universal bracket MP-731 (page 22) and screw on the rear edge as required.

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



MP-172-173



MP-174-176

H	B	Maxload	Zinc 60 µm	E-no	White	E-no
85	200	200 kg	MP-172 Z2	11 151 76	MP-172 V	11 151 77
95	300	200 kg	MP-173 Z2	11 151 79	MP-173 V	11 151 80
120	400	250 kg	MP-174 Z2	11 151 82	MP-174 V	11 151 83
130	500	370 kg	MP-175 Z2	11 151 85	MP-175 V	11 151 86
135	600	370 kg	MP-176 Z2	11 151 88	MP-176 V	11 151 89

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

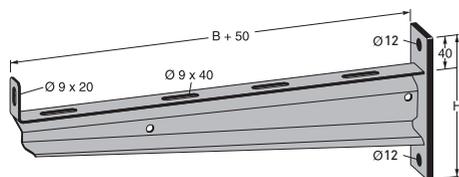
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

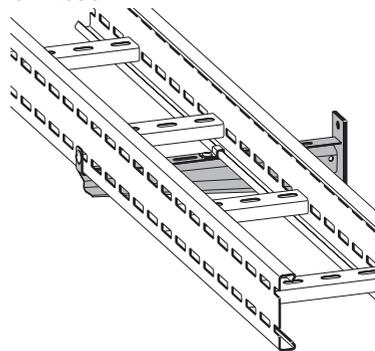
Cable ladders

Reinforced cantilever arm type KF for MP-FZ



Secure the ladder using fastening screw (page 47) on the front edge of the cantilever arm and cantilever arm clamp FZ (page 22) and screw on the rear edge as required.

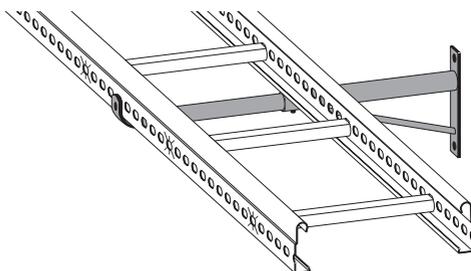
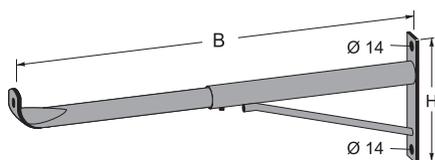
Use a backing plate on porous walls.
Ultimate failure load: ≥ 1.7 times the maximum load.



H	B	Maxload	Zinc 60 µm	E-no
140	200	450 kg	MP-182 Z2	11 151 91
150	300	450 kg	MP-183 Z2	11 151 93
155	400	450 kg	MP-184 Z2	11 151 95
165	500	450 kg	MP-185 Z2	11 151 97
170	600	450 kg	MP-186 Z2	11 151 99
210	1000	390 kg	MP-188 Z2	11 152 68

Adjustable cantilever arm type KS for all ladder types

Ultimate failure load: ≥ 1.7 times the max. load.
Maximum load: min position 300 kg.
Maximum load: max position 125 kg.



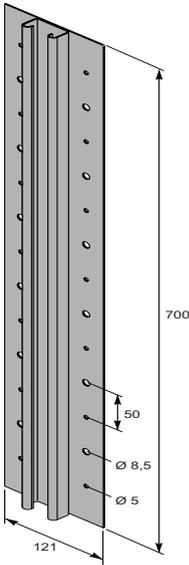
H	B	Zinc 60 µm	E-no
280	550 - 850	MP-178 Z	11 152 46
280	850 - 1100	MP-179 Z	11 152 49

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

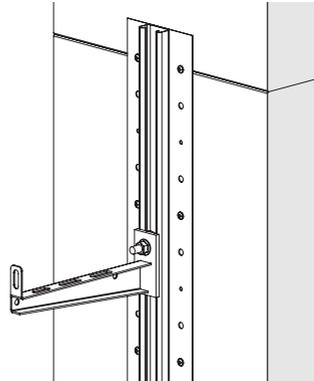
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

Wall rail – sandwich element



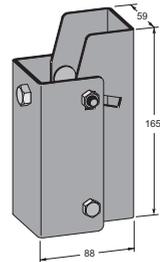
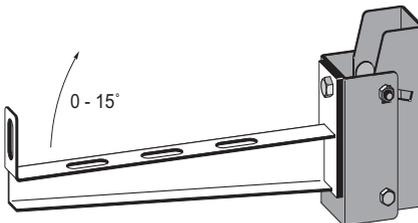
For installing cantilever arms, etc on Sandwich walls or lightweight concrete blocks. Installed using plate or lightweight concrete screws. Observe the wall's strength!
T-bolts – see page 46.
Length: 700 mm.



Zinc 20 µm	E-no	Zinc 60 µm	E-no
MP-030 S	11 158 58	MP-030 Z	11 158 59

Adjustable bracket for cantilever arm

For installation on inclined pillars.
Adjustable 0-15°.
Maximum load: 185 kg.



Zinc 20 µm	E-no
MP-234 S	11 158 27

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

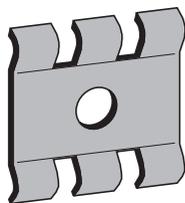
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

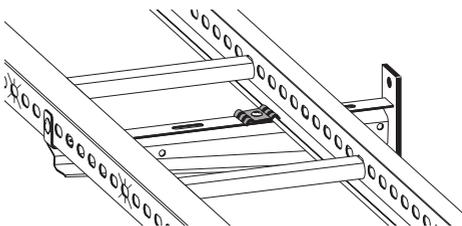
R = Acid resistant

Cable ladders

Universal bracket



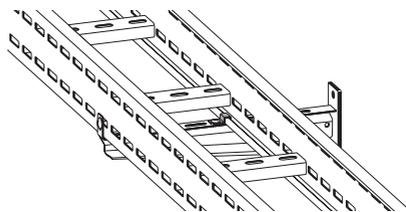
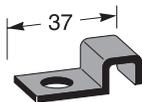
The universal bracket is used as a cantilever arm clamp on the rear edge for all ladder types except MP-FZ.



Zinc 20 µm	E-no	Z4	E-no	White	E-no
MP-731 S	11 165 30	MP-731 Z4	11 165 34	MP-731 V	11 165 32

Cantilever arm clamp FZ

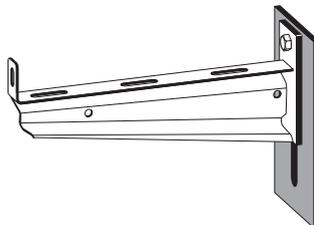
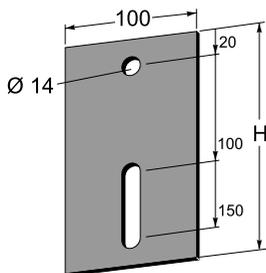
Cantilever arm clamp for FZ-ladder.
10 pcs/package.



Zinc 60 µm	E-no
MP-187 Z4	11 152 01

Backing plate

Plate thickness 5 mm.



H	Zinc 60 µm	E-no	White	E-no
100	MP-962 Z	11 172 80	MP-962 V	11 172 81
175	MP-963 Z	11 152 64	MP-963 V	11 152 66

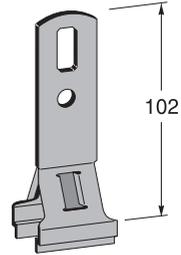
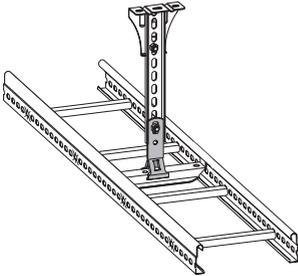
The letter in the MP No.denotes the surface finish according to: (also see page 4)

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

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

Pendant bracket

Used in combination with internal support yokes for centre suspension.

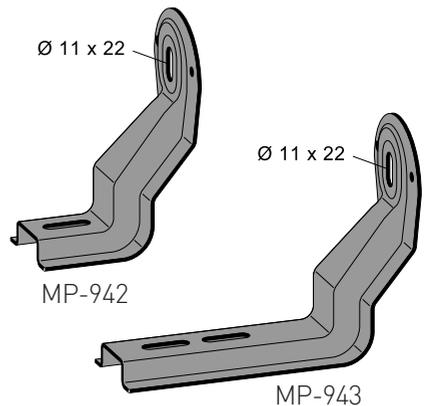
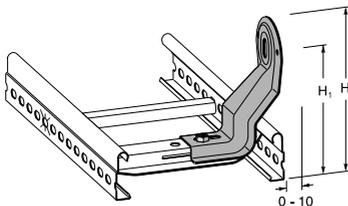
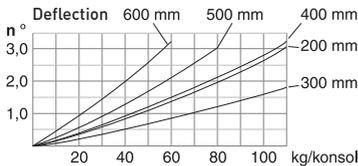


Zinc 20 µm	E-no	White	E-no
MP-931 S	11 173 87	MP-931 V	11 173 88

Internal support yoke type KI for MP-S

Used as a cantilever arm in combination with internal support yoke and screw MP-937 E (page 47).

Ultimate failure load: ≥ 1.7 times the maximum load.



H	H1	B	Zinc 20 µm	E-no	White	E-no	Zinc 60 µm	E-no
160	125	200	MP-942 S	11 172 05	MP-942 V	11 172 06	MP-942 Z	11 172 07
185	149	300-600	MP-943 S	11 172 09	MP-943 V	11 172 10	MP-943 Z	11 172 11

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

V = White
B = Beige
SV = Black

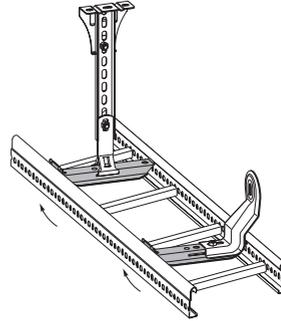
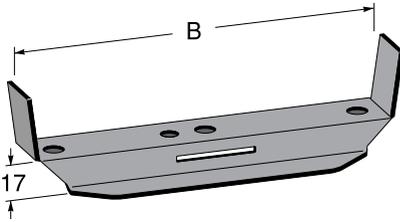
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Internal support yoke type BI for MP-S, LS6 and TS

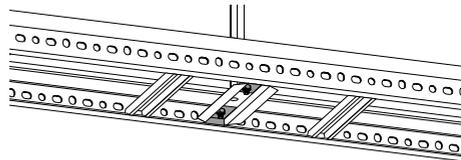
The internal support yoke is positioned inside the ladder and adds no installation height under the ladder. Fixed if necessary with the lock for support yoke below.



B	Zinc 20 µm	E-no	White	E-no	Zinc 60 µm	E-no
200	MP-157 S	11 152 95	MP-157 V	11 152 96	MP-157 Z	11 152 94
300	MP-158 S	11 152 98	MP-158 V	11 152 99	MP-158 Z	11 152 97
400	MP-159 S	11 153 01	MP-159 V	11 153 02	MP-159 Z	11 153 00
500	MP-160 S	11 153 04	MP-160 V	11 153 05	MP-160 Z	11 153 03
600	MP-161 S	11 153 07	MP-161 V	11 153 08	MP-161 Z	11 153 06

Lock for internal support yoke

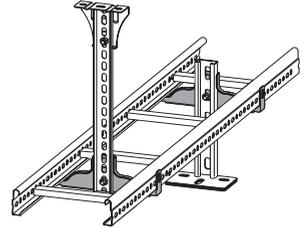
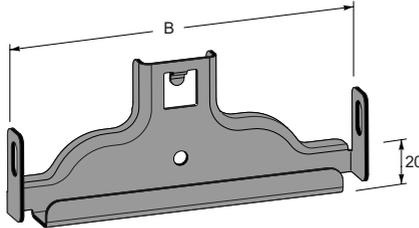
Installed in the internal support yoke with screw MP-937 E, (page 47) once the internal support yoke is placed in the ladder.



Zinc 20 µm	E-no
MP-914 S	11 174 82

Support yoke type BN for all ladder types

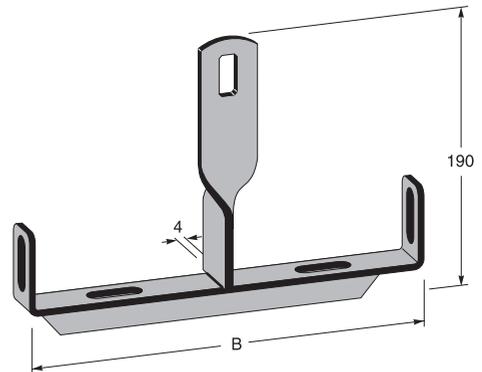
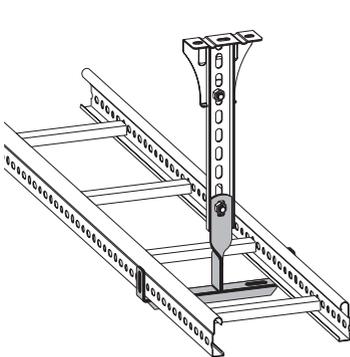
For suspension in a pendant/anchor rail.
Ultimate failure load: ≥ 1.7 times the maximum load.



B	Maxload	Zinc 20 μm	E-no	Zinc 60 μm	E-no	White	E-no
200	240 kg	MP-162 S2	11 152 23	MP-162 Z2	11 152 25	MP-162 V2	11 152 24
300	240 kg	MP-163 S2	11 152 26	MP-163 Z2	11 152 28	MP-163 V2	11 152 27
400	240 kg	MP-164 S2	11 152 29	MP-164 Z2	11 152 31	MP-164 V2	11 152 30
500	280 kg	MP-165 S2	11 152 32	MP-165 Z2	11 152 34	MP-165 V2	11 152 33
600	280 kg	MP-166 S2	11 152 35	MP-166 Z2	11 152 37	MP-166 V2	11 152 36

Support yoke type BS for MP-S and TS

The support yoke takes up a minimum of space in the ladder (4 mm).



NOTE! The support yoke requires a uniformly 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

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

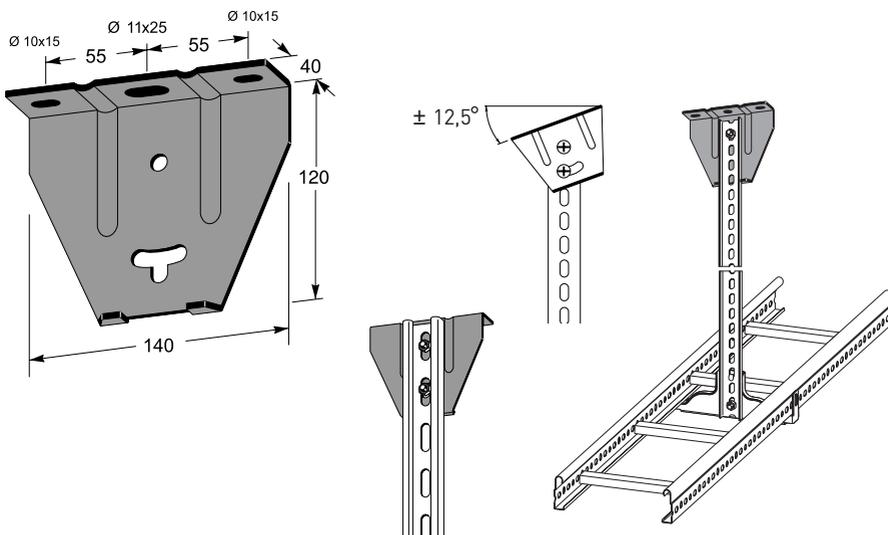
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

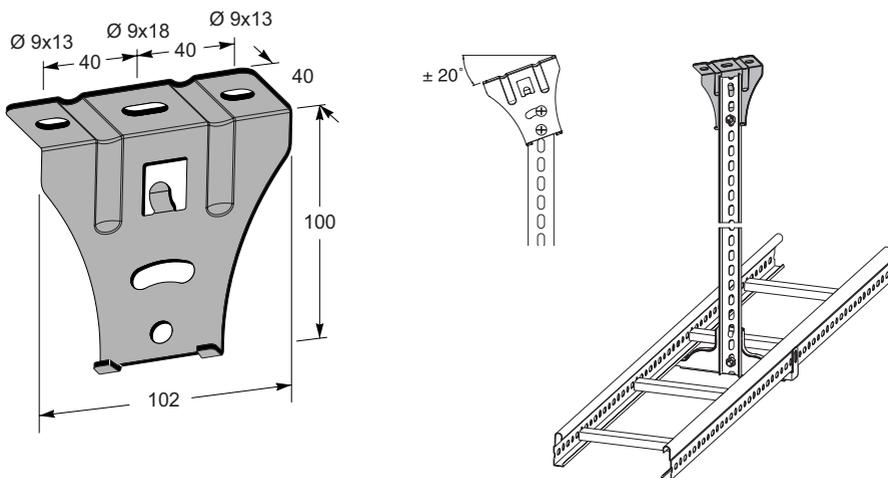
Cable ladders

Ceiling bracket type TN for pendant rail/anchor rail



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

Ceiling bracket type TL for pendant rail



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

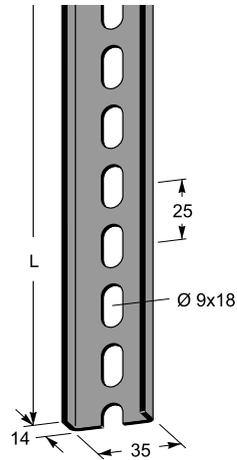
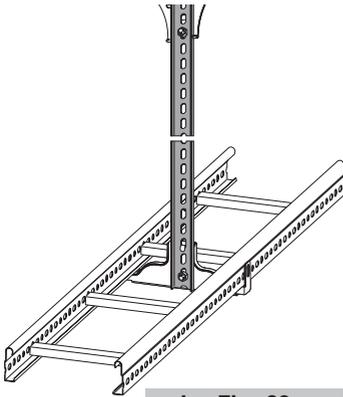
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Pendant rail

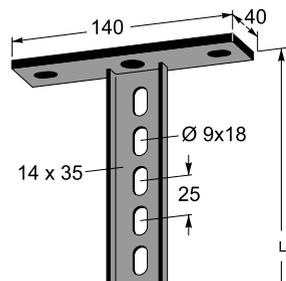
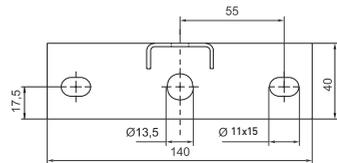
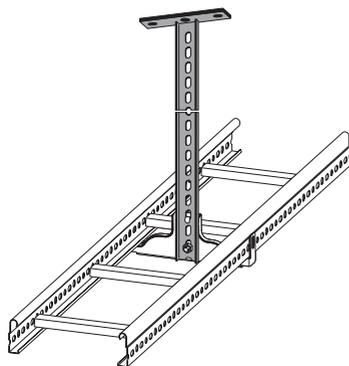
Several support yokes can be installed on the same pendant. Cutting marks c-c 100 mm.



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

Ceiling pendant type MP-P

Flera bärok kan monteras på samma pendel. Kapmärken c-c 100 mm.



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

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

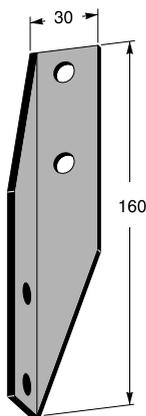
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

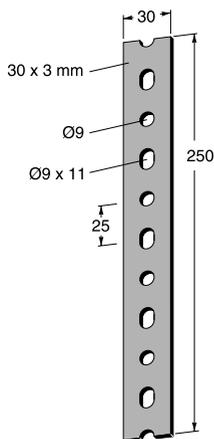
Cable ladders

Pendant bracket



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

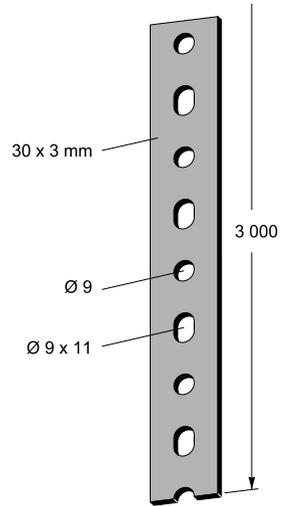
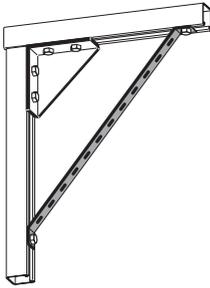
Splice for pendant rail



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

Bracing strap

Universal strap for e.g. bracing.
Length 3 m.

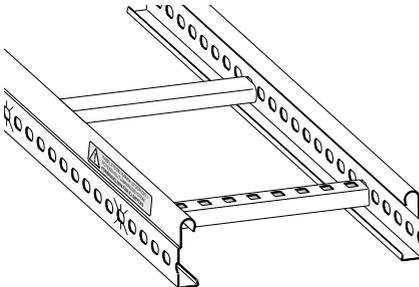


Zinc 60 µm	E-no
MP-210 Z	11 157 02

Potential marking

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

Note: the text is in Swedish.
100 labels/roll (package).



Label	E-no
MP-837 F	11 167 15

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

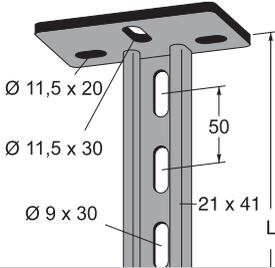
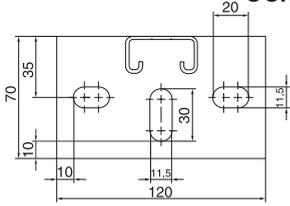
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Ceiling/floor pendant type MP-V



L	Zinc 60 µm	E-no
250	MP-964 Z	11 157 20
375	MP-965 Z	11 157 24
500	MP-966 Z	11 157 28
750	MP-967 Z	11 157 32
1000	MP-968 Z	11 157 36

For fastening in the pendant, see page 46.

Deflection ceiling pendant MP-V

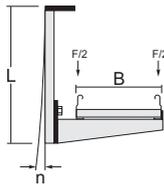
In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula

$$M_2 = F \times (B + 0.12) / 2.$$

Read the deflection in the diagram for the selected pendant.

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

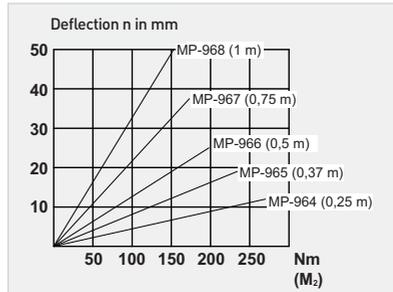
White ceiling pendants – see page 110.



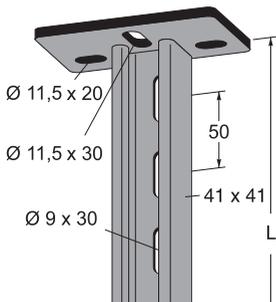
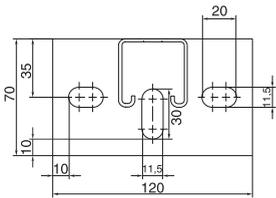
M_2 = Bending torque in Nm

F = Load in N

B = Ladder width in m



Ceiling/floor pendant type MP-FV



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

For fastening in the pendant, see page 46.

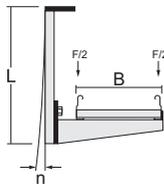
Deflection ceiling pendant MP-FV

In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula

$$M_2 = F \times (B + 0.14) / 2.$$

Read the deflection in the diagram for the selected pendant.

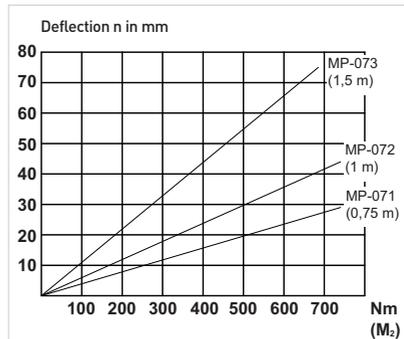
In the diagram, the maximum permitted deflection according to SS-EN 61537 (1/20 of the length) for each pendant for the end of the load curve.



M_2 = Bending torque in Nm

F = Load in N

B = Ladder width in m



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

E = Electrogalv.
S = Zinc
Z = Zinc

10 µm
20 µm
SS-EN ISO1461

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

Cable ladders

Ceiling/floor pendant type MP-DV

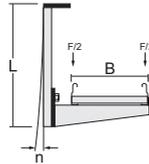
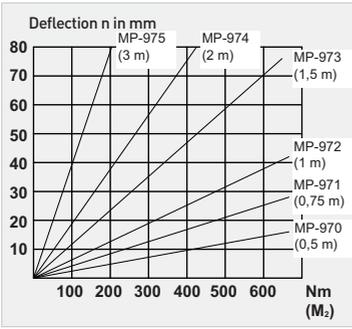
For fastening in the pendant, see page 46.

Deflection ceiling pendant MP-DV

In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula $M_2 = F \times (B+0.14)/2$.

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

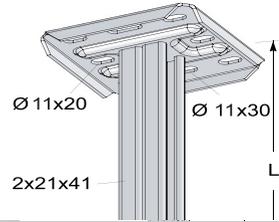
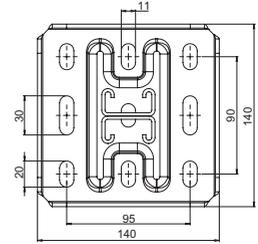
White ceiling pendants – see page 110.



M_2 = Bending torque in Nm

F = Load in N

B = Ladder width in m



L	Zinc 60 µm	E-no
500	MP-970 Z	11 157 40
750	MP-971 Z	11 157 44
1000	MP-972 Z	11 157 48
1500	MP-973 Z	11 157 52
2000	MP-974 Z	11 157 56
3000	MP-975 Z	11 157 60

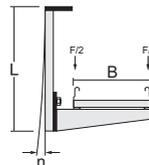
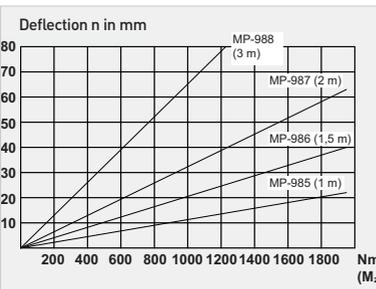
Ceiling/floor pendant type MP-FDV

For fastening in the pendant, see page 46.

Deflection ceiling pendant MP-FDV

In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula $M_2 = F \times (B+0.18)/2$.

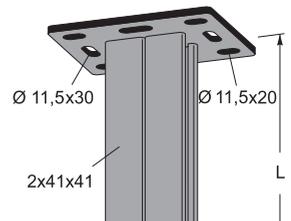
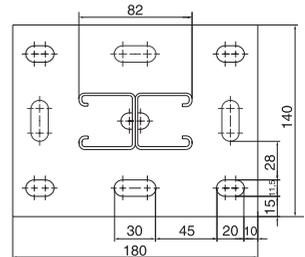
Read the deflection in the diagram for the selected pendant. In the diagram, the maximum permitted deflection according to SS-EN 61537 (1/20 of the length) for each pendant for the end of the load curve.



M_2 = Bending torque in Nm

F = Load in N

B = Ladder width in m



L	Zinc 60 µm	E-no
1000	MP-985 Z	11 157 64
1500	MP-986 Z	11 157 68
2000	MP-987 Z	11 157 72
3000	MP-988 Z	11 157 76

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

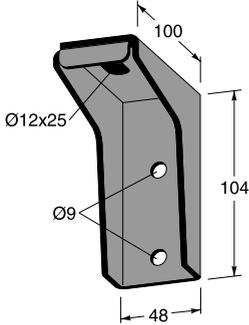
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Ceiling bracket for anchor rail type MP-V, FV



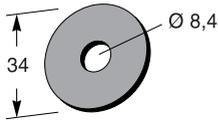
The ceiling bracket is combined with an anchor rail for side-hung ladder installation. Note! The installation can handle larger loads than the corresponding ceiling pendant type MP-V (see page 30).

When the anchor rail 41x41 is installed use washer MP-244, see below.

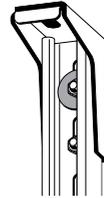


Zinc 20 µm	E-no	Zinc 60 µm	E-no	White	E-no	Black	E-no
MP-230 S	11 157 97	MP-230 Z	11 157 98	MP-230 V	11 157 96	MP-230 SV	11 158 32

Washer

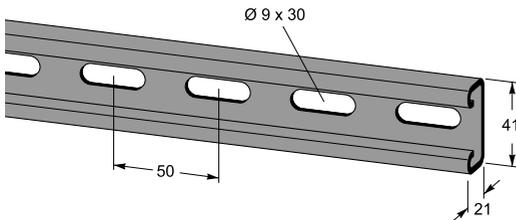


The reinforcement washer must be used internally on the top screw when the anchor rail 41x41 mm is used as a pendant. 10 per package.

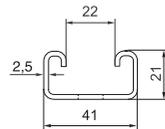


Zinc 60 µm	E-no
MP-244 Z	11 157 79

Anchor rail type MP-V 21x41 mm



For fastening in rails – see page 46.



L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	White/Black	E-no
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
3000	MP-231 S	11 158 02	MP-231 Z	11 158 00	MP-231 V	11 158 01
6000			MP-231 Z6	11 158 07	MP-231 SV	11 158 11

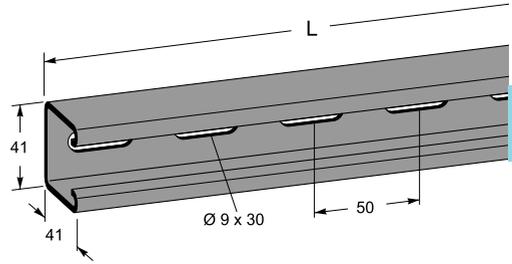
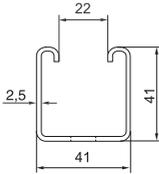
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Anchor rail type MP-FV 41x 41 mm

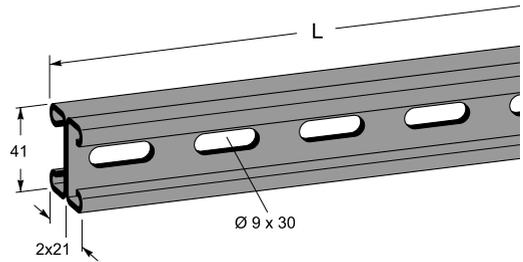
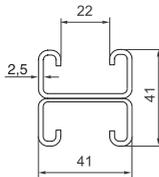
For fastening in rails – see page 46.



L	Zinc 20 µm	E-no	Zinc 60 µm	E-no
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
3000	MP-233 S	11 158 05	MP-233 Z	11 158 04
6000			MP-233 Z6	11 158 10

Double anchor rail type MP-DV 2x21x 41 mm

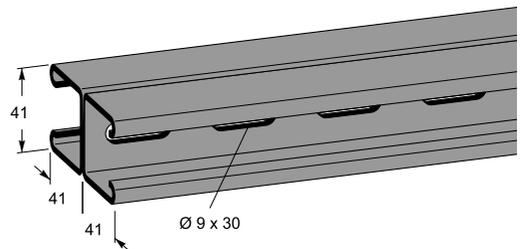
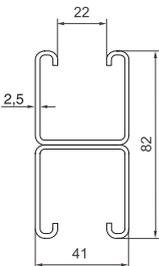
For fastening in rails – see page 46.



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

Double anchor rail type MP-FDV 2x41x41 mm

For fastening in rails – see page 46.



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

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

V = White
B = Beige
SV = Black

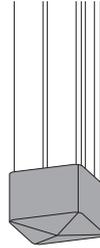
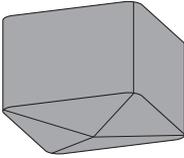
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

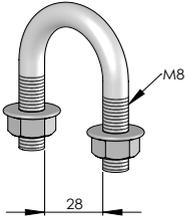
End protection for ceiling/floor pendant or anchor rail

Red coloured end protection, suitable for types MP-V, DV, FV.



Plastic	E-no	Suitable for
MP-240 P	11 158 17	MP-V
MP-241 P	11 158 18	MP-DV, FV
MP-242 P	11 158 19	MP-FDV

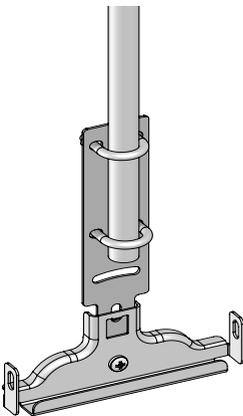
Rock bolt clamp



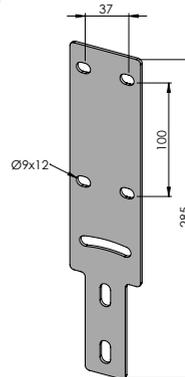
For attachment to rock bolt (max Ø 28 mm) rock bolt clamps are used together with ceiling/floor/wall bolt attachment.

Zinc 60 µm	E-no
MP-270 Z	11 158 81

Roof bolt bracket



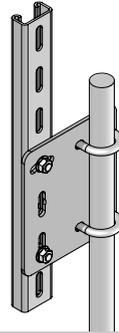
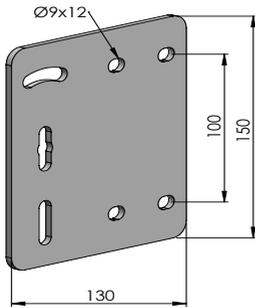
Roof bolt bracket for attaching anchor rails, yokes in cam steel, needs to be completed with rock bolt clamps.



Z4 25 µm	E-no
MP-271 Z4	11 158 82

Floor bolt bracket

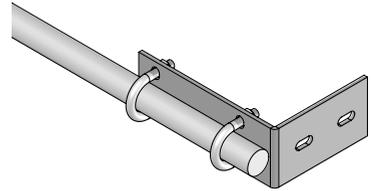
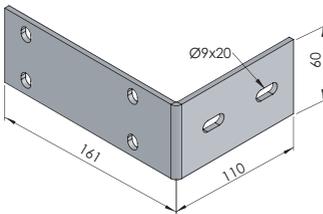
Floor bolt bracket for attachment to rock bolt, needs to be completed with rock bolt clamps.



Zinc 60 µm	E-no
MP-272 Z	11 158 83

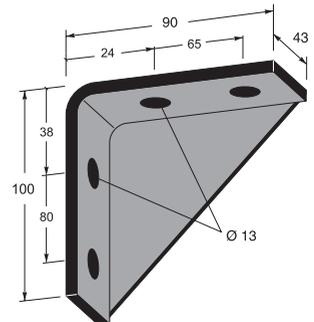
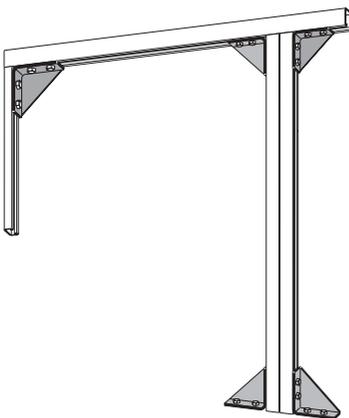
Wall bolt bracket

Wall bolt bracket for attachment to rock bolt, needs to be completed with rock bolt clamps.



Zinc 60 µm	E-no
MP-273 Z	11 158 84

Corner bar for anchor rails



Zinc 25 µm	E-no
MP-245 Z4	11 158 28

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

V = White
B = Beige
SV = Black

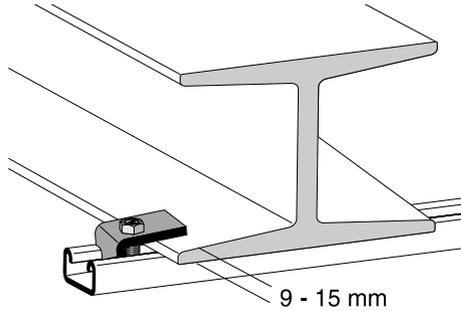
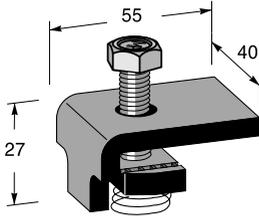
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Beam bracket

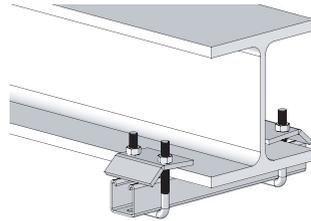
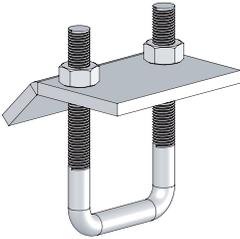
Designed for fastening to steel beams.
For flange thickness 9 - 15 mm.
Maximum load 200kg.



Zinc 60 µm	E-no
MP-243 Z	11 158 25

Beam clamp

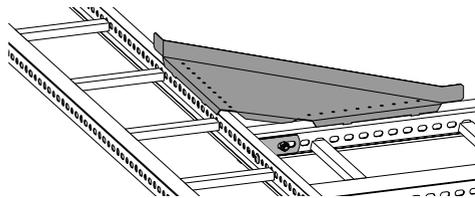
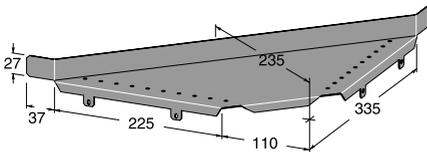
Designed for fastening to steel beams. For flange thickness 5-18 mm. Fits anchor rail with height 21 and 41 mm. The anchor rail's opening can be installed in different directions and in this way you get more versatile functionality. Max load 500 kg.



Zinc 60 µm	E-no
MP-253 Z	11 158 79

Branch plate

Suitable for 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

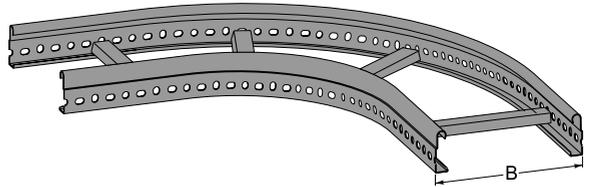
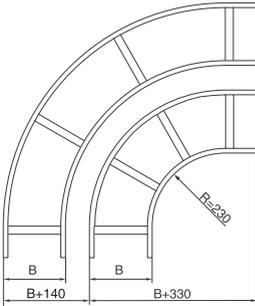
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Flat elbow for MP-S, LS6, TS, Z, PZ, Z4, PZ4

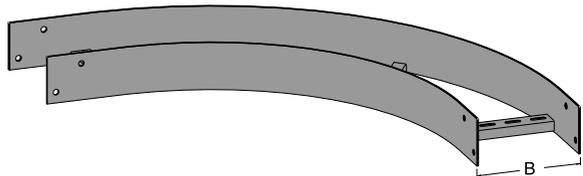
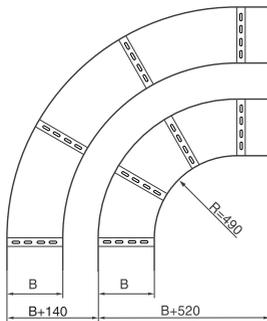
Four splices MP-107 used (see page 14).
Outer corner made to order.



B	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Z4	E-no
200	MP-122 S	11 154 03	MP-122 Z	11 154 20	MP-122 Z4	11 154 05
300	MP-123 S	11 154 06	MP-123 Z	11 154 23	MP-123 Z4	11 154 08
400	MP-124 S	11 154 09	MP-124 Z	11 154 26	MP-124 Z4	11 154 11
500	MP-125 S	11 154 12	MP-125 Z	11 154 29	MP-125 Z4	11 154 14
600	MP-126 S	11 154 15	MP-126 Z	11 154 32	MP-126 Z4	11 154 17

Flat elbow for MP-FZ

Note! Does not require extra splices.
Outer corner made to order.
(Fastening screw MP-947Z - see page 47).



B	Zinc 60 µm	E-no
200	MP-212 Z	11 154 41
300	MP-213 Z	11 154 43
400	MP-214 Z	11 154 45
500	MP-215 Z	11 154 47
600	MP-216 Z	11 154 50

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

V = White
B = Beige
SV = Black

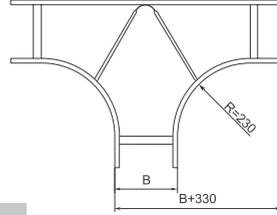
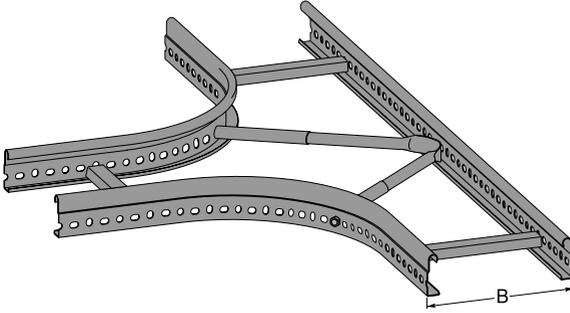
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Tee piece for MP-S, LS6, TS, Z, PZ, Z4, PZ4

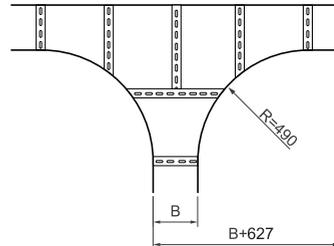
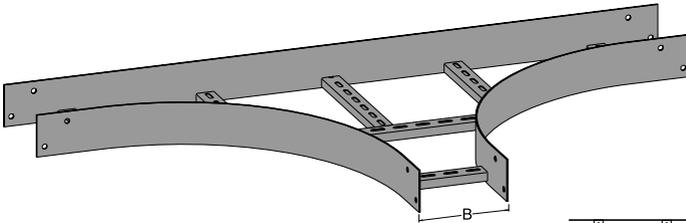
Six splices MP-107 used (see page 14).
Note! Widths 400-600 have several pins.



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

Tee piece for MP-FZ

Note! Does not require extra splices.
(Fastening screw MP-947Z - see page 47).



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

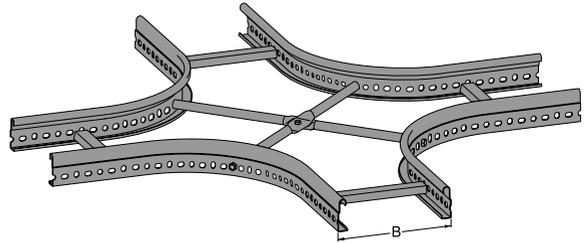
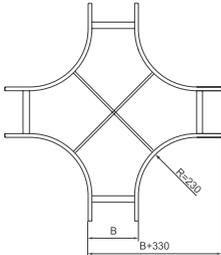
The letter in the MP No.denotes the surface finish according to: (also see page 4)

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

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

Cross piece for MP-S, LS6, TS, Z, PZ, Z4, PZ4

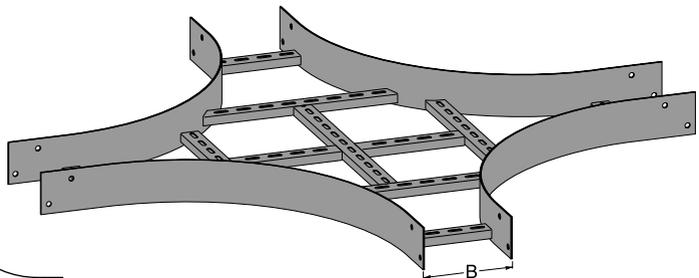
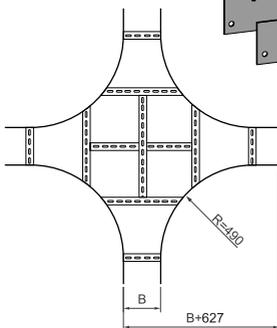
Eight splices MP-107 used (see page 14).
Note! Widths 400-600 have several pins.



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

Cross piece for MP-FZ

Note! Does not require extra splices.
(Fastening screw MP-947Z - see page 47).



B	Zinc 60 µm	E-no
200	MP-224 Z	11 155 57
300	MP-225 Z	11 155 59
400	MP-226 Z	11 155 60
500	MP-227 Z	11 155 62
600	MP-228 Z	11 155 63

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

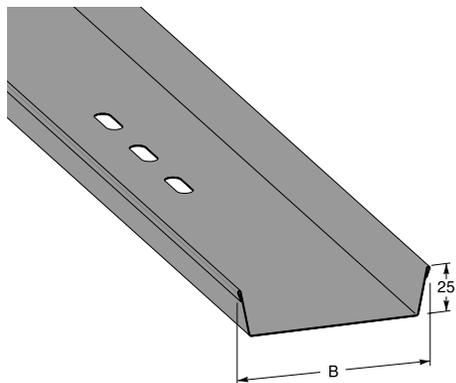
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

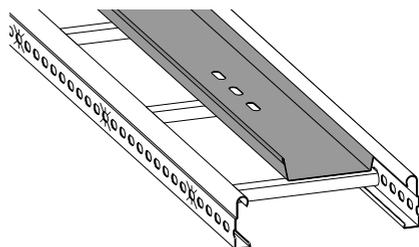
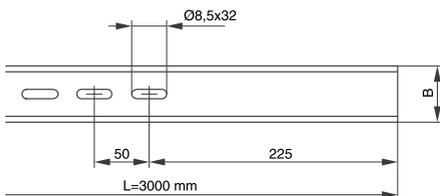
R = Acid resistant

Cable ladders

Telecom channel unperforated

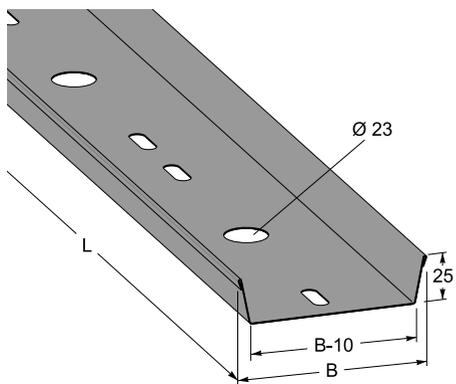


The channel is designed with fastening holes at the ends and in the middle.

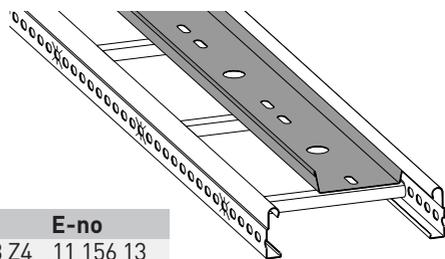
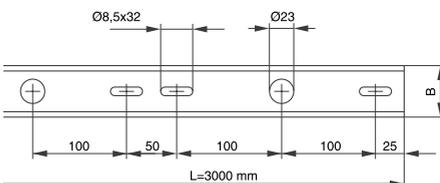


B	L	Zinc 20 µm	E-no
50	3000	MP-128 S	11 156 00
100	3000	MP-129 S	11 156 04
200	3000	MP-130 S	11 156 08

Telecom channel perforated



The large holes can be fitted with Ø 23 mm rubber sleeves to prevent damage to the cord, found in list 14.



B	L	Zinc 20 µm	E-no	Z4	E-no
50	3000	MP-138 S	11 156 12	MP-138 Z4	11 156 13
100	3000	MP-139 S	11 156 16	MP-139 Z4	11 156 24
200	3000	MP-140 S	11 156 20		

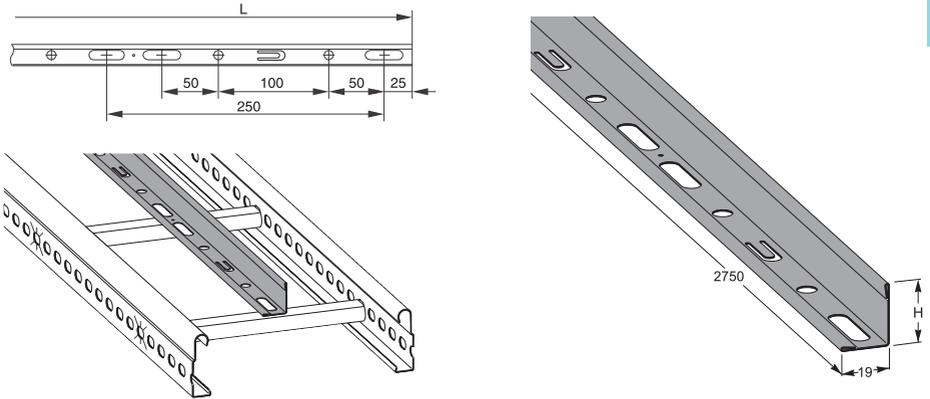
The letter in the MP No.denotes the surface finish according to: (also see page 4)

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

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

Divider

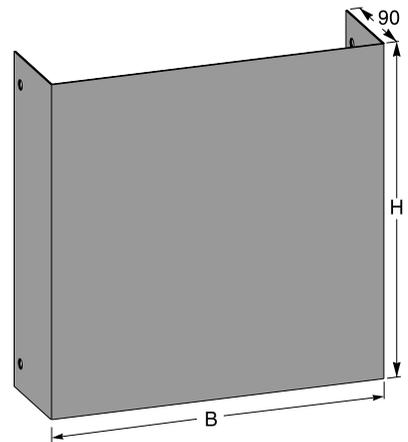
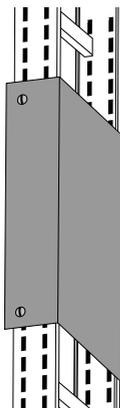
Divider for divide off the ladder. Jointed through overlapping or edge-to-edge. Guide hole c-c 250 mm.



H	L	Zinc 20 µm	E-no	Z4	E-no	White	E-no
25	2750	MP-137 S	11 184 72	MP-137 Z4	11 184 80	MP-137 V	11 184 75
40	2750	MP-149 S	11 184 78	MP-149 Z4	11 184 81		

Mounting plate

Mounting plate designed for installation of safety switches, etc. on vertical cable ladders. Suitable on all types of cable ladder. Plate thickness 1.5 mm.



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

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

V = White
B = Beige
SV = Black

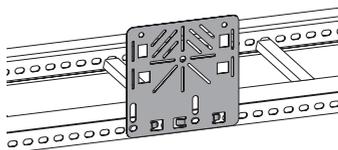
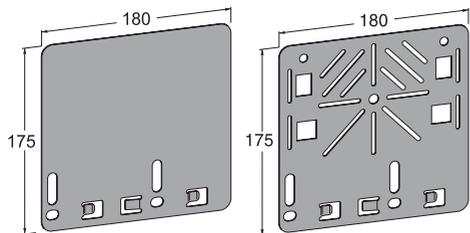
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Mounting plate for all ladder types

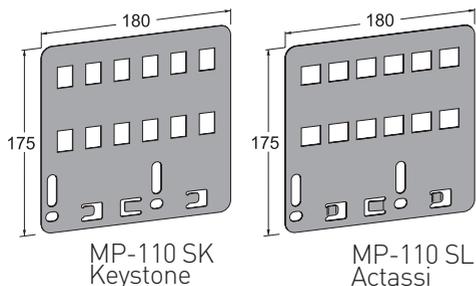
Mounting plate for fitting boxes and socket outlets, etc. Snapped to the side of the ladder on ladder types MP-S, LS6, TS, Z, PZ, Z4 and PZ4. Screwed on ladder type MP-FZ.



	Zinc 20 µm	E-no	Z4	E-no	White	E-no
Unperf.	MP-110 S	11 155 75	MP-110 Z4	11 155 70	MP-110 V	11 155 76
Perf.	MP-112 S	11 155 79	MP-112 Z4	11 155 87	MP-112 V	11 155 80

Mounting plate for data sockets

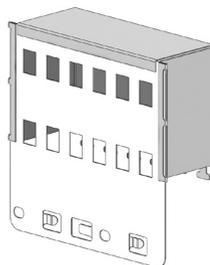
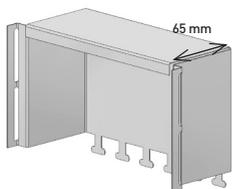
Mounting plate for data sockets.



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

Hood for mounting plate MP-110

Suitable for mounting plates with data sockets, MP-110 SK and MP-110 SL, see above.



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

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

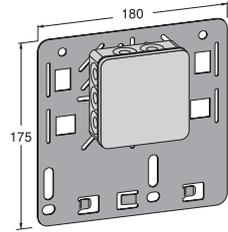
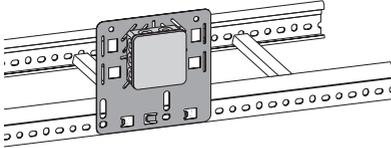
E = Electrogaly. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

Mounting plate + junction box IP65

Mounting plate with pre-installed junction box IP65 in white halogen-free thermoplastic with ten entries. Supplied without terminal block.

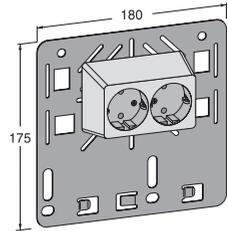
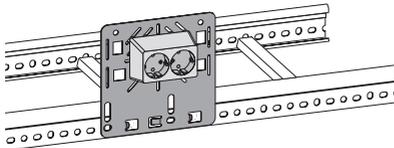
Suitable strain relief - ABB E14 382 73 and terminal block ABB E14 384 01.



Zinc 20 µm E-no
MP-112 SD 11 155 90

Mounting plate + socket outlet IP21

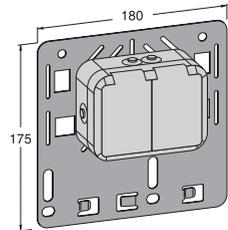
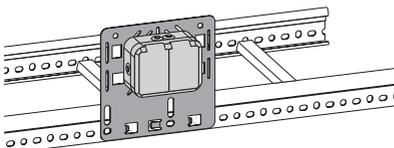
Mounting plate with pre-installed twoway socket outlet (tamper resistant) IP21 in white halogen-free polycarbonate with base plate.



Zinc 20 µm E-no
MP-112 SF 11 155 91

Mounting plate + socket outlet IP55

Mounting plate with pre-installed two-way enclosed socket outlet IP55 in white halogen-free polycarbonate, tamper resistant. Two neutral through wiring clamps.



Zinc 20 µm E-no
MP-112 SG 11 155 92

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

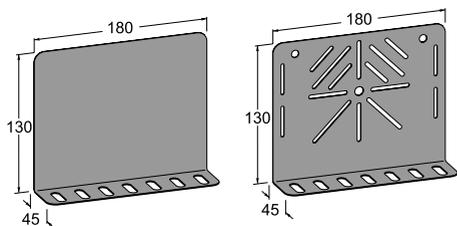
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

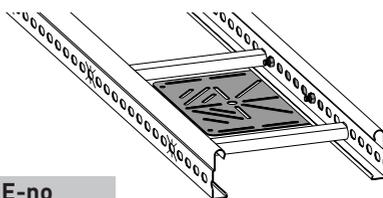
R = Acid resistant

Cable ladders

Mounting plate angled

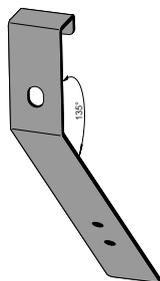


Mounting plate fitted with fastening screws, see page 47.

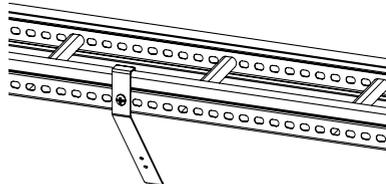


	Zinc 20 µm	E-no	White	E-no
Unperf.	MP-298 S	26 847 35	MP-298 V	11 184 07
Perf.	MP-299 S	26 847 39	MP-299 V	11 184 08

Luminaire bracket 45°

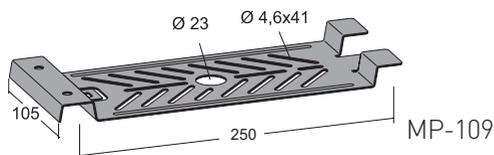
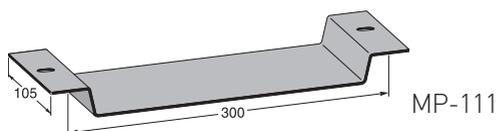


Bracket designed for mounting luminaires on cable ladders (not MP-FZ). The bracket is hung on the side of the cable ladder and is locked in place using fastening screw MP-937, see page 47. Two brackets per luminaire.

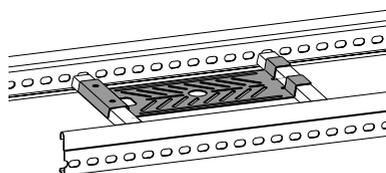


Z4	E-no
MP-119 Z4	11 153 96

Luminaire plates for all ladder types



MP-111 S is intended for ladder type MP-FZ. MP-109 S is intended for MP-S, TS, Z, PZ, PZ4 and Z4.



Zinc 20 µm	E-no	Zinc 60 µm	E-no
MP-111 S	11 155 71	MP-111 Z	11 155 97
MP-109 S	11 155 73	MP-109 Z	11 155 96

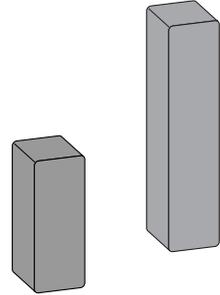
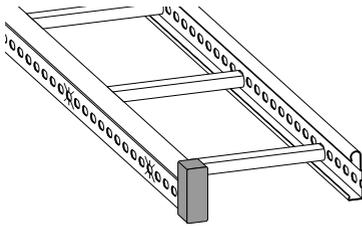
44 The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

End protection

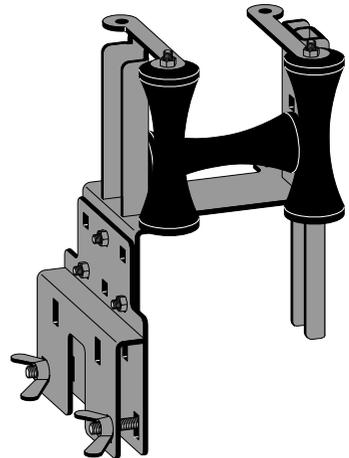
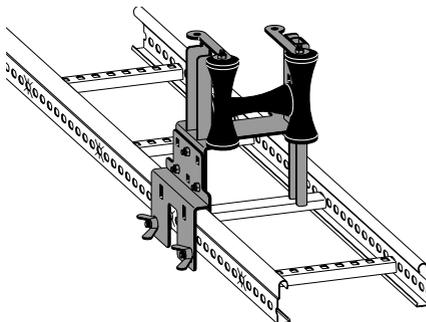
End protection designed for MP-ladder types.



Suitable ladders	Plastic	E-no
MP-S, LS6, TS, Z, PZ, Z4, PZ4	MP-169 P	11 152 92
MP-FZ	MP-170 P	11 152 93

Cable reel

Cable reel suitable for all MP-ladder types and other brands. Installed by a rung and is locked using carriage bolt and wing nut. 5 per package supplied in transport case, of which two cable reels are supplied with two support legs which are fitted against the ladder rung to handle greater loads.



Zinc 10 µm	E-no
MP-242 E	16 004 80

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

V = White
B = Beige
SV = Black

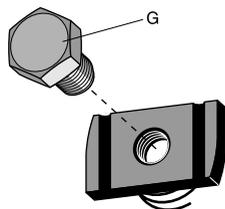
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Nut washer for ceiling pendants/anchor rails

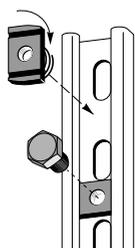
Nut washer with bolt M8/M10, intended for fastening in ceiling pendants/anchor rails.



For installation on ceiling pendant/anchor rail with height H=21 mm select fastening as per the table below:

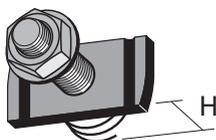
MP-177 -179	Adjustable cantilever arm	M10 x 20 mm.
MP-245	Corner bar	M10 x 20 mm.
MP-942 -943	Support cantilever arm	M10 x 20 mm.
MP-172 -176	Cantilever arm	M10 x 25 mm.
MP-182 -188	Reinforced cantilever arm	M10 x 25 mm.

H-measurement refers to the height of the ceiling pendant/anchor rail.



Suitable for	G	H	Zinc 60 µm	E-no	Acid resist	E-no
MP-V, DV	M8 x 20	21	MP-976 Z	11 157 14		
MP-FV, FDV	M8 x 20	41	MP-977 Z	11 157 15		
MP-V, DV	M10 x 20	21	MP-978 Z	11 157 16	MP-978 R	11 157 19
MP-V, DV	M10 x 25	21	MP-078 Z	11 157 17		
MP-FV, FDV	M10 x 25	41	MP-979 Z	11 157 18		

T-screw



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

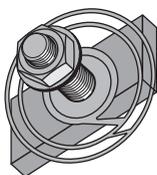
Installation, see diagram above/below.

H-measurement refers to the height of the ceiling pendant/anchor rail.

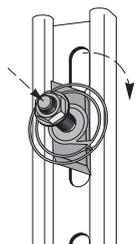
Size	H	Zinc 60 µm	E-no
M8x30	21	MP-080 Z	11 158 72
M10x30	41	MP-079 Z	11 158 15
M10x30	21	MP-076 Z	11 158 14

T-screw

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



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



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

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

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

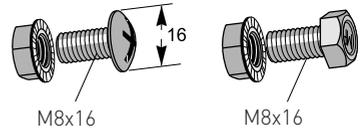
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Cable ladders

Fastening screw

Fastening screw used for all screw joints except joining of links on the FZ-ladder.

50 per package.

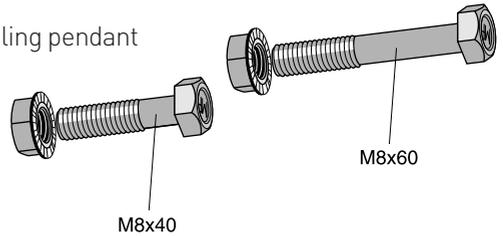


Zinc 10 µm	E-no	Zinc 60 µm	E-no	Zinc 60 µm	E-no
MP-937 E	11 157 11	MP-937 Z	11 156 80	MP-295 R	11 157 80

Set of screws for ceiling pendants/anchor rails

For installation of support yokes on ceiling pendant MP-DV or FDV with through-bolt.

10 per package.

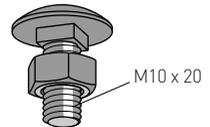


Size	Zinc 60 µm	E-no	Used for
M8 x 40	MP-945 Z	11 157 84	MP-V, DV
M8 x 60	MP-946 Z	11 157 86	MP-FDV, FV

Carriage bolt and nut M10

M10-bolt and nut for joining and angling FZ-ladders.

50 per package.

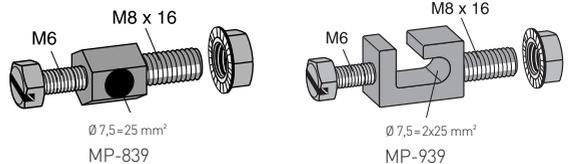
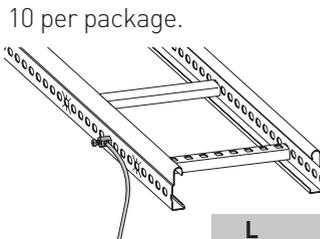


Zinc 60 µm	E-no
MP-947 Z	11 155 85

Potential connection screw

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

10 per package.



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

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

V = White
B = Beige
SV = Black

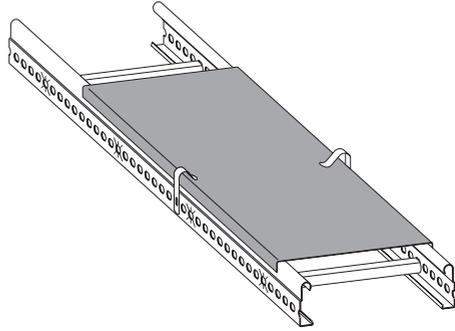
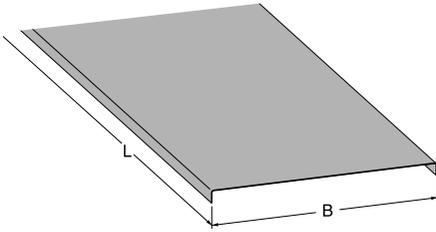
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable ladders

Cover

Covers for junctions quoted on request.

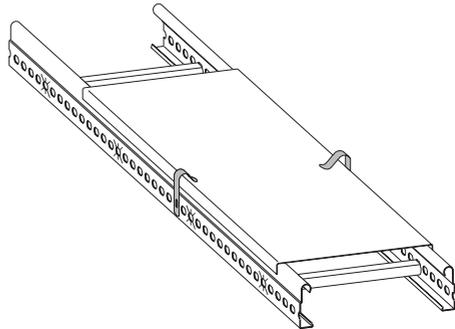
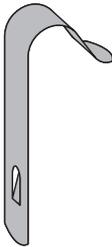


B	Zinc 20µm	E-no	Z4	E-no	White	E-no	L	Thickn.
200	MP-440 S	11 171 79	MP-440 Z4	11 171 78	MP-440 V	11 171 80	3 m	0,6
300	MP-450 S	11 171 97	MP-450 Z4	11 172 15	MP-450 V	11 171 98	2 m	0,6
400	MP-460 S	11 172 00	MP-460 Z4	11 172 16	MP-460 V	11 172 01	2 m	1,0
500	MP-470 S	11 172 03	MP-470 Z4	11 172 19	MP-470 V	11 172 04	2 m	1,0
600	MP-480 S	11 171 95	MP-480 Z4	11 172 20	MP-480 V	11 171 96	2 m	1,0

Cover clip

MP-401 R for MP-FZ-ladders.
MP-402 R for other ladder models.

Not for outdoor use.



Stainless steel	E-no
MP-401 R	11 171 50
MP-402 R	11 171 51

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

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

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

Cable ladders –RF/SF

Stainless steel/acid resistant is a pure metal for both production and recycling.
It is also a material with a low maintenance cost.

Stainless steel EN1.4301 (SS2333/ AISI 304)

- environmental category C5-I
- Very high corrosivity.
- Areas with almost permanent air condensation and large levels of air contamination.
- Industrial areas with high humidity and aggressive atmosphere.
- Tunnels, swimming pools, shipyards, etc.

Acid-resistant EN1.4404 (SS2348/ AISI 316L) – environmental category C5-M

- Very high corrosivity.
- Areas with almost permanent moisture condensation and large levels of air contamination.
- Treatment plants and coastal and offshore areas with large amounts of salt.

The aim of MP bolagen to be a complete supplier of cable management has been expanded and as a result stainless steel/acid-resistant cable ladders are now a part of the standard range.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/
luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings

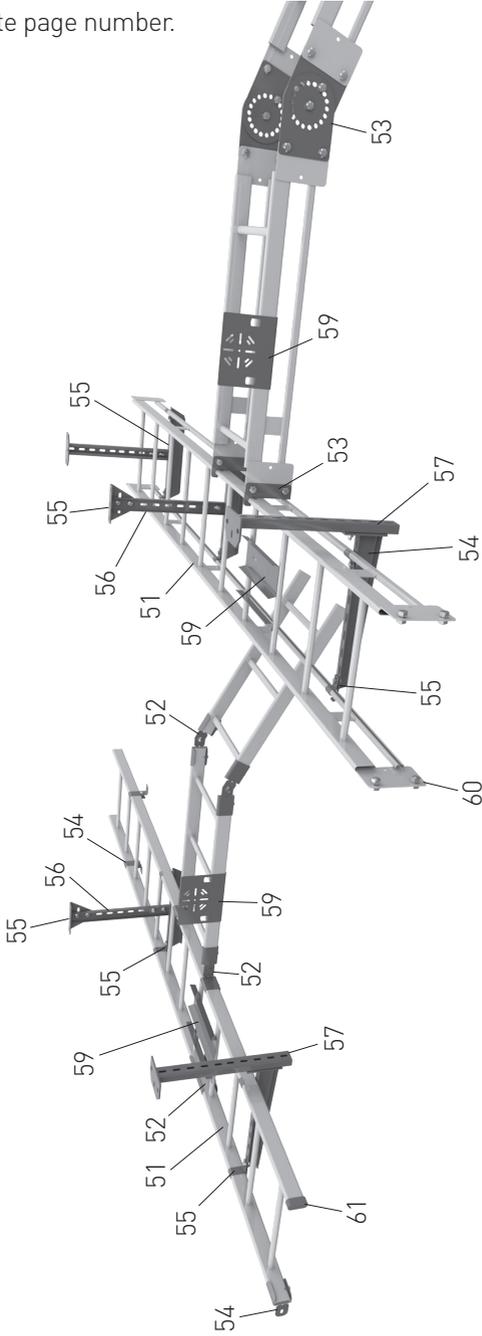


E-number, weight, package

Cable ladders

Ladder type RF and SF

Numbers denote page number.



Fastening screw
– see page 60.

Ladder type RF and SF

Numbers denote page number.

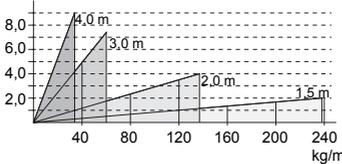
Cable ladders – stainless

Cable ladder 6 m

Stainless SS2333 / EN1.4301
 Acid resistant SS2348 / AISI 316L / EN1.4404
 Cable ladder equipped with open rungs.
 Rung spacing: c-c 300 mm.



Deflection in mm for cantilever arm
 spacing 1,5 - 4 m.
 mm



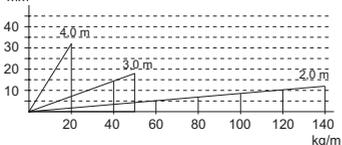
B	Stainless	E-no	Acid resist	E-no
150	6001-33	11 161 00	6001-48	11 161 01
200	6002-33	11 161 02	6002-48	11 161 03
300	6003-33	11 161 04	6003-48	11 161 05
400	6004-33	11 161 06	6004-48	11 161 07
500	6005-33	11 161 08	6005-48	11 161 09
600	6006-33	11 161 10	6006-48	11 161 11

Cable ladder 6 m

Stainless SS2333 / EN1.4301
 Acid resistant SS2348 / AISI 316L / EN1.4404
 Cable ladder equipped with open rungs.
 Rung spacing c-c 300 mm.



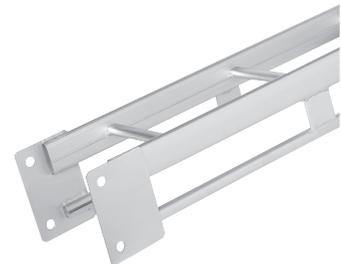
Deflection in mm for cantilever arm
 spacing 2 - 4 m.
 mm



B	Stainless	E-no	Acid resist	E-no
200	8062-33	11 163 02	8062-48	11 163 03
300	8063-33	11 163 04	8063-48	11 163 05
400	8064-33	11 163 06	8064-48	11 163 07
500	8065-33	11 163 08	8065-48	11 163 09
600	8066-33	11 163 10	8066-48	11 163 11

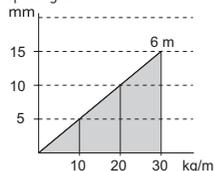
Cable ladder 6 m – reinforced

Stainless SS2333 / EN1.4301
 Acid resistant SS2348 / AISI 316L / EN1.4404
 Cable ladder equipped with open rungs.
 Rung spacing c-c 300 mm.



Fastening screw/nut: M12x25 – see page 60.

Deflection in mm for cantilever arm
 spacing 6 m.
 mm



B	Stainless	E-no	Acid resist	E-no
200	6012-33	11 161 12	6012-48	11 161 13
300	6013-33	11 161 14	6013-48	11 161 15
400	6014-33	11 161 16	6014-48	11 161 17
500	6015-33	11 161 18	6015-48	11 161 19
600	6016-33	11 161 20	6016-48	11 161 21

The number in the MP No. denotes the surface finish according to:
 [also see page 4]

33 = Stainless steel
 48 = Acid resistant

Cable ladders – RF/SF

Ladder splice – internal



Resistance measurements on cable ladders in stainless steel (EN 1.4301) and acid resistant (EN1.4404) has been conducted and meets the requirements set out in IEC 61537.

Stainless	E-no	Acid resistant	E-no
6300-33	11 161 88	6300-48	11 161 89

Ladder splice – internal



Internal splice for straight splicing of cable ladders. Resistance measurements on cable ladders in stainless steel (EN 1.4301) and acid resistant (EN1.4404) has been conducted and meets the requirements set out in IEC 61537.

Stainless	E-no	Acid resistant	E-no
6657-33	11 163 12	6657-48	11 163 13
-	-	Screw 6599	11 163 14

Vertical axis



Used for vertical angling. Screws and nuts included. Resistance measurements on cable ladders in stainless steel (EN 1.4301) and acid resistant (EN1.4404) has been conducted and meets the requirements set out in IEC 61357.

Stainless	E-no	Acid resistant	E-no
6310-33	11 161 92	6310-48	11 161 93

Flat elbow



Used for horizontal tees, crosses and elbows. An elbow to the right and left is required. Screws and nut included. Resistance measurements on cable ladders in stainless steel (EN 1.4301) and acid resistant (EN1.4404) has been conducted and meets the requirements set out in IEC 61357.

	Stainless	E-no	Acid resistant	E-no
Left	6660-33	11 161 94	6660-48	11 161 95
Right	6661-33	11 161 96	6661-48	11 161 97

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

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Ladder splice – reinforced

Used for splicing cut reinforced cable ladders. Drill an 8 mm hole in the side profiles and secure the splice with the supplied screws.

Resistance measurements on cable ladders in stainless steel (EN 1.4301) and acid resistant (EN1.4404) has been conducted and meets the requirements set out in IEC 61357.



Stainless	E-no	Acid resistant	E-no
6023-33	11 163 15	6023-48	11 163 16

Junction hook

Used to connect to an existing section and creates a Tee piece. The hooks are fitted to the joint plates located on the connecting cable ladder (one hook per side on each joint plate). Two junction hooks are required as well as one screw set (11 162 92) for a complete junction. Secure to the main section by bending out the tongue and fastening with a self-tapping screw.



Stainless	E-no	Acid resistant	E-no
6029-33	11 163 21	6029-48	11 163 22

Angling – vertical

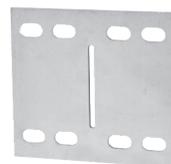
Used to create horizontal angles on stainless reinforced cable ladders. Four angles are required to create a complete joint and three sets of fastening screws 6695 (11 162 92) to fix and secure the joint plates on the ladder.



Stainless	E-no	Acid resistant	E-no
6025-33	11 163 17	6025-48	11 163 18

Angling – horizontal

Horizontal angle for reinforced stainless/acid resistant cable ladders. Used to create a junction at an optional angle and to serve as an end bracket against a wall or floor. Two angles and two screw sets 6695 (11 162 92) are required for one complete junction.



Stainless	E-no	Acid resistant	E-no
6317-33	11 163 19	6317-48	11 163 20

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

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Angle bracket



For installation with pendants/anchor rails.

Stainless	E-no	Acid resist.	E-no
6530-33	11 162 58	6530-48	11 162 59

Wall bracket



For horizontal/vertical installation of the cable ladder. Screw and nut included.

Height mm	Stainless	E-no	Acid resist.	E-no
25	6320-33	11 161 98	6320-48	11 161 99
75	6321-33	11 162 00	6321-48	11 162 01

Floor and end bracket



For ending against the floor or wall. One bracket to the right and left is required.

	Stainless	E-no	Acid resist.	E-no
Vänster	6330-33	11 162 02	6330-48	11 162 03
Höger	6331-33	11 162 04	6331-48	11 162 05

Cantilever arm



Cantilever arm for cable ladder. The ladder is secured using cantilever arm clamps – see page 55. Ultimate failure load ≥ 1.7 times maximum load.

B	Max load	Stainless	E-no	Acid resist.	E-no
200	130 kg	6101-33	11 161 24	6101-48	11 161 25
300	200 kg	6102-33	11 161 26	6102-48	11 161 27
400	350 kg	6103-33	11 161 28	6103-48	11 161 29
500	380 kg	6104-33	11 161 30	6104-48	11 161 31
600	380 kg	6105-33	11 161 32	6105-48	11 161 33
800	300 kg	6107-33	11 161 34	6107-48	11 161 35

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

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Cantilever arm clamp

For fastening cable ladders on cantilever arms and support yokes. Screw and nut included.



Stainless	E-no	Acid resist.	E-no
6110-33	11 161 48	6110-48	11 161 49

Cantilever arm clamp – reinforced

For fastening reinforced cable ladders on cantilever arms and support yokes. Screw and nut included.



Stainless	E-no	Acid resist.	E-no
6120-33	11 161 50	6120-48	11 161 51

Support yoke

Support yoke for centre installation of cable ladders on ceiling pendant or pendant/anchor rail.



B	Stainless	E-no	Acid resist.	E-no
150	6681-33	11 161 36	6681-48	11 161 37
200	6682-33	11 161 38	6682-48	11 161 39
300	6683-33	11 161 40	6683-48	11 161 41
400	6684-33	11 161 42	6684-48	11 161 43
500	6685-33	11 161 44	6685-48	11 161 45
600	6686-33	11 161 46	6686-48	11 161 47

Ceiling bracket

Used for pendant rail/anchor rail.



Stainless	E-no	Acid resist.	E-no
8082-33	11 162 06	8082-48	11 162 07

The number in the MP No. denotes the surface finish according to:
[also see page 4]

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Pendant rail



For centre pendant installation with support yoke.

L	Stainless	E-no	Acid resist.	E-no
325	8283-33	11 162 42	8283-48	11 162 43
415	8284-33	11 162 44	8284-48	11 162 45
505	8285-33	11 162 46	8285-48	11 162 47
595	8286-33	11 162 48	8286-48	11 162 49
2980	8238-33	11 162 52	8238-48	11 162 53

Anchor rail 26x47 mm – 3 m



For centre pendant installation with support yoke or installation with cantilever arm.

Stainless	E-no	Acid resist.	E-no
6520-33	11 162 54	6520-48	11 162 55

Double anchor rail 52x47 mm – 3 m



For installation with cantilever arm.

Stainless	E-no	Acid resist.	E-no
6525-33	11 162 56	6525-48	11 162 57

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

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Pendant stay

Used to reduce the deflection of ceiling pendants.



L	Stainless	E-no	Acid resist.	E-no
300	6430-33	11 162 34	6430-48	11 162 35
500	6431-33	11 162 36	6431-48	11 162 37
800	6432-33	11 162 38	6432-48	11 162 39
1500	6433-33	11 162 40	6433-48	11 162 41

Ceiling pendant

Used for centre pendant installation with support yoke or together with cantilever arm.

Screws – see page 60.



L	Stainless	E-no	Acid resist.	E-no
280	6400-33	11 162 10	6400-48	11 162 11
370	6401-33	11 162 12	6401-48	11 162 13
505	6402-33	11 162 14	6402-48	11 162 15
730	6403-33	11 162 16	6403-48	11 162 17
1000	6404-33	11 162 18	6404-48	11 162 19
2000	6405-33	11 162 20	6405-48	11 162 21

Ceiling pendant – double sided

For installation together with cantilever arm from the ceiling or on the floor.

Screws – see page 60.



L	Stainless	E-no	Acid resist.	E-no
502	6410-33	11 162 22	6410-48	11 162 23
730	6411-33	11 162 24	6411-48	11 162 25
1000	6412-33	11 162 26	6412-48	11 162 27
1500	6413-33	11 162 28	6413-48	11 162 29
2000	6414-33	11 162 30	6414-48	11 162 31
3000	6415-33	11 162 32	6415-48	11 162 33

The number in the MP No. denotes the surface finish according to:
[also see page 4]

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Flat elbow



Installed on ladders with ladder splice 11 161 88- 89, see page 52.
Inner radius 268 mm.

B	Stainless	E-no	Acid resist.	E-no
200	6201-33	11 161 54	6201-48	11 161 55
300	6202-33	11 161 56	6202-48	11 161 57
400	6203-33	11 161 58	6203-48	11 161 59
500	6204-33	11 161 60	6204-48	11 161 61
600	6205-33	11 161 62	6205-48	11 161 63

Tee piece



Installed on ladders with ladder splice 11 161 88- 89, see page 52.

B	Stainless	E-no	Acid resist.	E-no
200	6231-33	11 161 66	6231-48	11 161 67
300	6232-33	11 161 68	6232-48	11 161 69
400	6233-33	11 161 70	6233-48	11 161 71
500	6234-33	11 161 72	6234-48	11 161 73
600	6235-33	11 161 74	6235-48	11 161 75

Vertical elbow



Installed on ladders with ladder splice 11 161 88- 89, see page 52.

B	Stainless	E-no	Acid resist.	E-no
200	6261-33	11 161 78	6261-48	11 161 79
300	6262-33	11 161 80	6262-48	11 161 81
400	6263-33	11 161 82	6263-48	11 161 83
500	6264-33	11 161 84	6264-48	11 161 85
600	6265-33	11 161 86	6265-48	11 161 87

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

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Divider – 1.8 m

Divide the cable ladder into different compartments.



Height mm	Stainless	E-no	Acid resist.	E-no
24	6665-33	11 162 74	6665-48	11 162 75
60	6666-33	11 162 76	6666-48	11 162 77

RF/SF load

Telecom channel – 1.8 m

Telecom channel is equipped with Ø23 mm knockouts in the bottom.



B	Stainless	E-no	Acid resist.	E-no
50	6670-33	11 162 78	6670-48	11 162 79
100	6671-33	11 162 80	6671-48	11 162 81

Mounting plate – perforated

For the installation of boxes and socket outlets, etc.



Stainless	E-no	Acid resist.	E-no
6552-33	11 162 64	6552-48	11 162 65

Luminaire plate

Installed between ladder rungs.



Stainless	E-no	Acid resist.	E-no
6541-33	11 162 60	6541-48	11 162 61

The number in the MP No. denotes the surface finish according to:
[also see page 4]

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Set of screw and nut M8x20/30



Set of screw and nut, for installation on pendant/anchor rail.

Dim	Acid resist.	E-no
M8x20	6690	11 162 90
M8x30	6691	11 162 91

Set of screw M12x25



For splicing reinforced cable ladders.
Set with 4 screws and nuts.

Dim	Acid resist.	E-no
M12x25	6695	11 162 92

T-screw



T-screw with nut for installation on pendant/anchor rail.

Dim	Acid resist.	E-no
M8x30	66928	11 162 93
M10x30	6692	11 162 94
M10x40	6693	11 162 95
M10x50	6694	11 162 96

Cable ladders – stainless

End protection ladder

Red coloured end protection for cable ladders. Fitted internally and externally on the ladder ends.



RF/SF ladd.

Fits	Plastic	E-no
Internal	6901-10	11 162 98
External	6900-10	11 162 97

End protection anchor rail/ceiling pendant

Red coloured end protection that fits single and double anchor rails/ceiling pendants.



Fits	Plastic	E-no
Single	6910-10	11 162 99
Double	6911-10	11 163 00

The number in the MP No. denotes the surface finish according to:
[also see page 4]

33 = Stainless steel
48 = Acid resistant

Cable ladders – stainless

Strapping profile – 2.5 m



For tying cable on the wall. Width: 30 mm.

Stainless	E-no	Acid resist.	E-no
800-33	11 160 17	800-48	11 160 18

Mounting profile - 2 m



Perforated mounting profile with holes for clamping cables.

B	Stainless	E-no	Acid resist.	E-no
88	6675-33	11 162 82	6675-48	11 162 83
123	6676-33	11 162 84	6676-48	11 162 85

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

33 = Stainless steel
48 = Acid resistant

Cable trays/luminaire rails

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

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

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

Width 50-200 mm = length 3 m.

Width 300-600 mm = length 2 m.

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

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

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/ luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

Cable trays

Basic facts

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

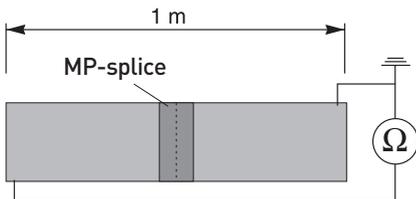
Paint

Painting is carried out on galvanised trays (20 µm). Standard colour is RAL 9010, gloss 50. Other colours and gloss finishes quoted on request, state colour using NCS number.

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

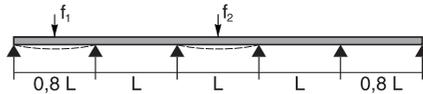
Equipotential bonding

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



Loads

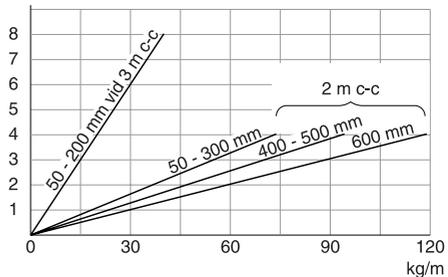
The diagram applies for an inner compartment f2 i.e. all compartments except the outermost. To get the same deflection in the outer compartments f1, the cantilever arm spacing should be 80% of an inner compartment. The diagram shows the deflection in



mm at L=2 m and L=3m cantilever arm spacing and suspension at the joint. Ultimate failure load: > 1.7 times the load.

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

Deflection in mm cantilever arm spacing 2-3 m

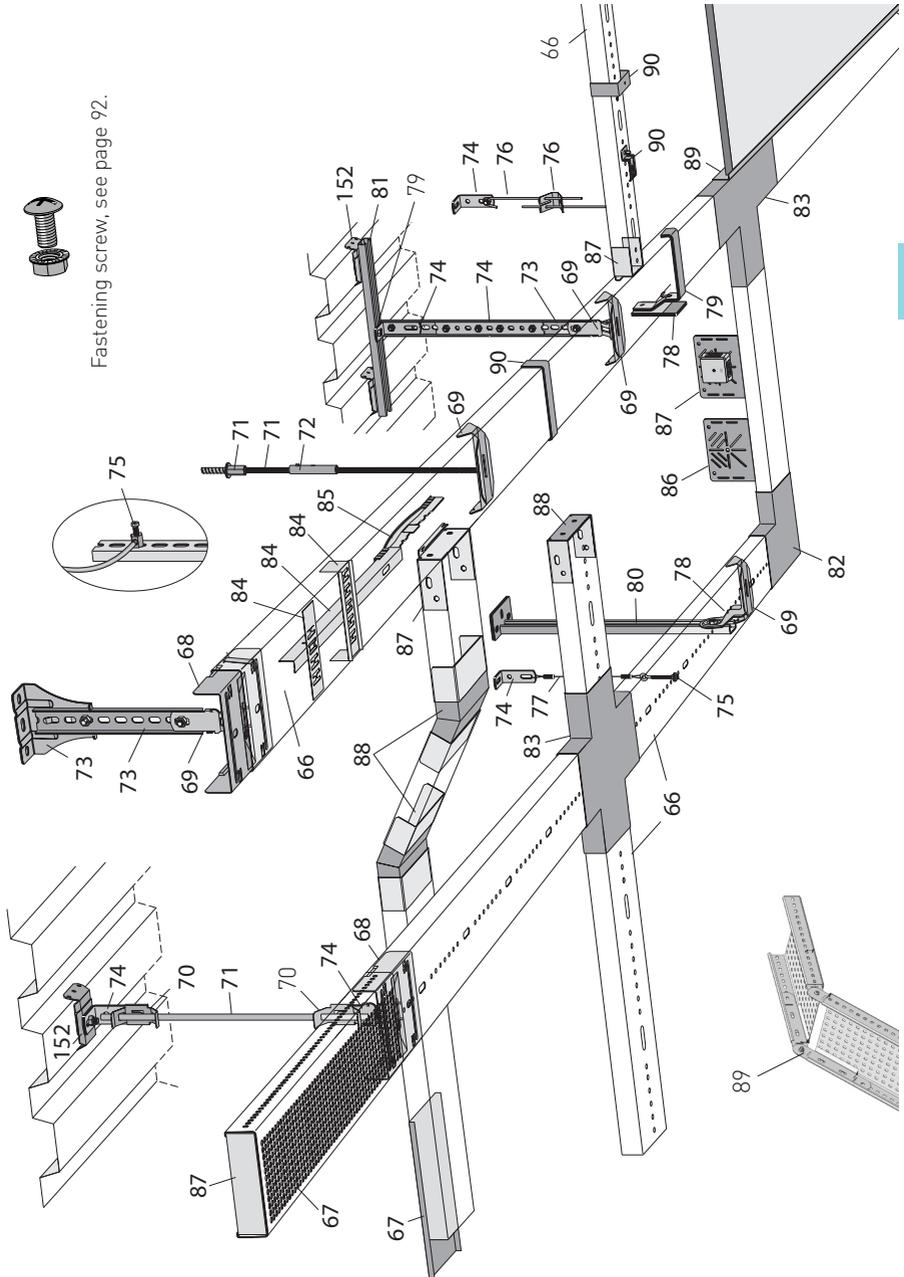


Note!

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

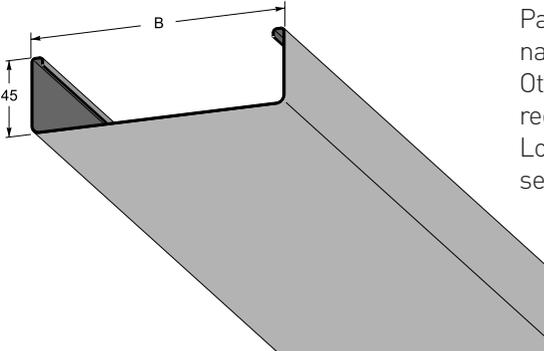
Cable trays/luminaire rails

Numbers denote page number.



Cable trays

Unperforated cable tray



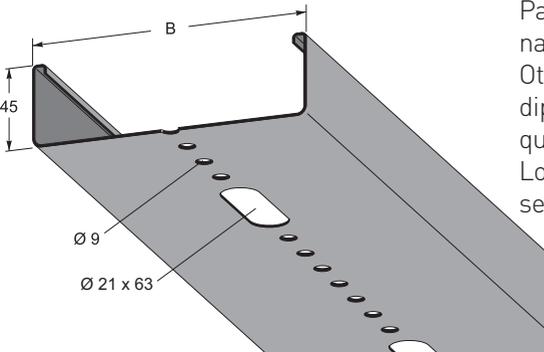
Painted trays are supplied with internally paint-free ends.

Other lengths and colours quoted on request.

Loading and equipotential bonding – see page 64.

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

Luminaire rail



Painted rails are supplied with internally paint-free ends.

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

Loading and equipotential bonding – see page 64.

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

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

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

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

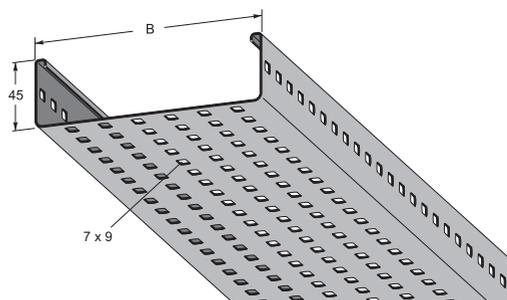
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Perforated cable tray

Painted trays are supplied with internally paint-free ends.

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

Loading and equipotential bonding – see page 64.

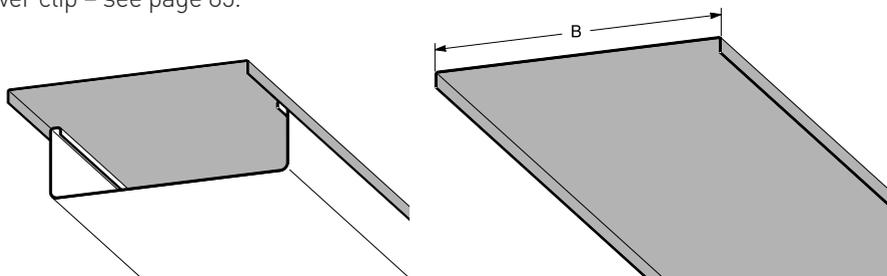


B	Zinc 20 µm	E-no	White	E-no	Length	Thickn.
50	MP-3931 S	11 170 79	MP-3931 V	11 170 80	3 m	1,0
75	MP-3131 S	11 170 81	MP-3131 V	11 170 82	3 m	1,0
100	MP-3231 S	11 170 83	MP-3231 V	11 170 84	3 m	1,0
150	MP-3331 S	11 170 85	MP-3331 V	11 170 86	3 m	1,0
200	MP-3431 S	11 170 87	MP-3431 V	11 170 88	3 m	1,0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

Cover

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

Cover clip – see page 85.



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

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

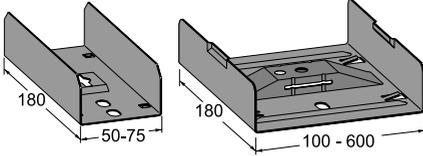
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

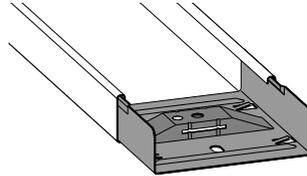
Cable trays

Splice bearing



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

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

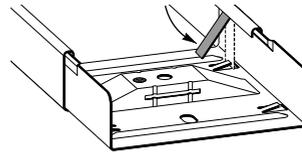


Lock clips



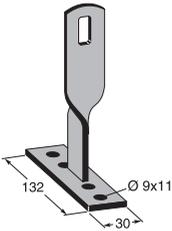
Lock clips used for locking the splice in tray widths 100-600 mm (4 pcs/splice). Supplied 4 pcs./set

Set	Zinc 20 μm	E-no
1	MP-906 S	11 176 40
25	MP-906 S2	11 176 39

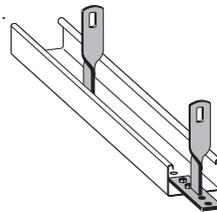


Splice/suspension

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

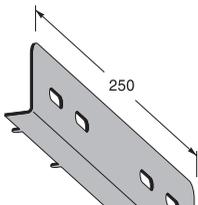


Zinc 60 μm	E-no
MP-933 Z	11 173 94

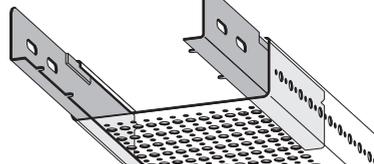


Side splice

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



Zinc 20 μm	E-no
MP-908 S	11 176 43



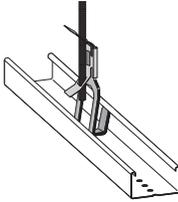
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Support yoke for luminaire rail 75 mm

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

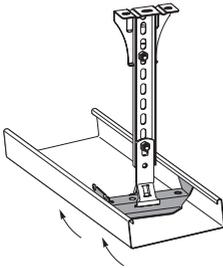
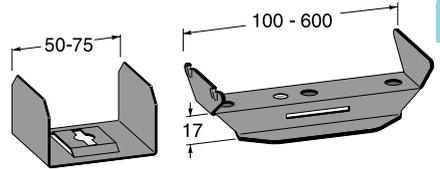


Zinc 20 µm	E-no	White	E-no
MP-515 S	11 173 99	MP-515 V	11 174 00

Support yoke

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

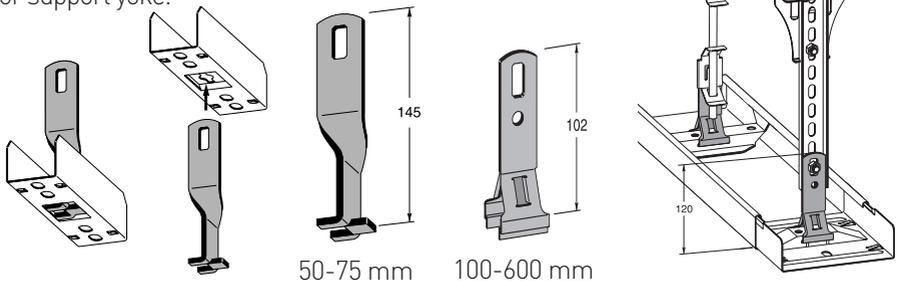
Max load for support yoke = 150 kg evenly distributed load. Ultimate failure load: ≥ 1.7 times the maximum load.



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

Pendant bracket

Pendant bracket for installation in splice or support yoke.



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

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

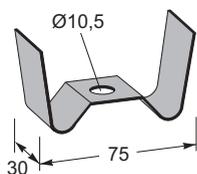
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

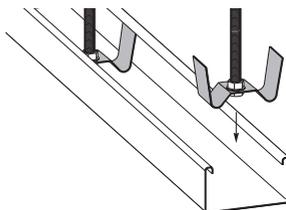
R = Acid resistant

Cable trays

Support yoke 75 mm



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



Zinc 20 μ m	E-no
MP-517 S	11 173 98

Adapter – threaded rod bracket

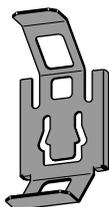


For installation of the threaded rod or pendant rail in sloping ceilings. Combined with angle the threaded rod bracket.



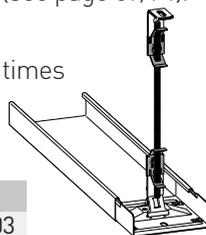
Zinc 60 μ m	E-no	White	E-no
MP-902 Z	11 175 10	MP-902 V	11 175 11

Threaded rod bracket



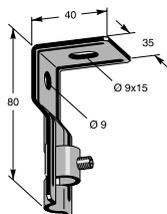
The threaded rod bracket is pressed on angle bracket/- pendant bracket (see page 69/74).

Maximum load: 125 kg
Ultimate failure load: ≥ 1.7 times the maximum load.



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

Ceiling bracket



Use a 3 mm hex key for the locking screw.

Maximum load: 75 kg
Ultimate failure load: ≥ 1.7 times the maximum load.



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

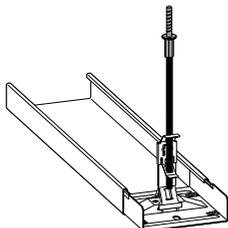
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

A = Aluzinc 20 μ m (AZ 150)
Z4 = Zinc/mag. 25 μ m (ZM 310)

Ceiling bracket for threaded rod M8/M10

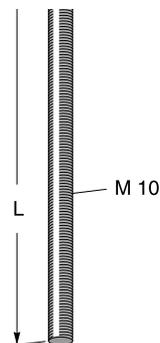
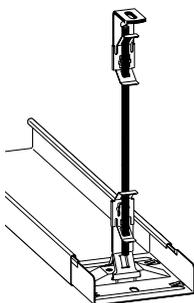
Ceiling bracket intended for fastening threaded rod M8 or M10 in concrete. Drill a $\varnothing 6 \times 65$ mm hole in the substrate, screw the ceiling bracket in the hole. In uncracked concrete K25 the pull-out force is 400 kg with three-fold safety.



B	Pack.	Zinc 10 μm	E-no
7,5x55	40 pcs	MP-023 E	11 175 50

Threaded rod M10

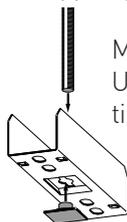
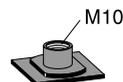
In order to get an adjustment of ± 25 mm in combination with the threaded rod bracket, cut the pendant as follows:
 50-75 mm 90 mm shorter than the required inset height.
 100-600 mm 50 mm shorter than the required inset height.



L	Zinc 10 μm	E-no	White/Black	E-no
2000	MP-927 E	11 175 55	MP-927 V	11 175 56
3000	MP-928 E	11 175 57	MP-928 V	11 175 58
3000			MP-928 SV	11 175 64

Threaded rod nut

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



Maximum load: 125 kg
 Ultimate failure load: ≥ 1.7 times the maximum load.

Zinc 10 μm	E-no
MP-929 E	11 173 97

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

V = White
 B = Beige
 SV = Black

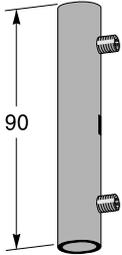
RAL 9010
 NCS 2502-Y
 RAL 9005

R = Acid resistant

Cable trays

Pipe joint

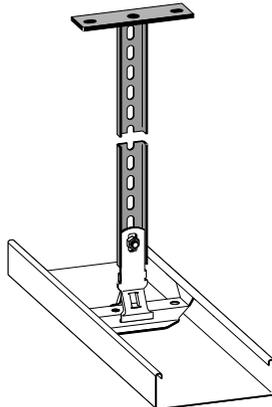
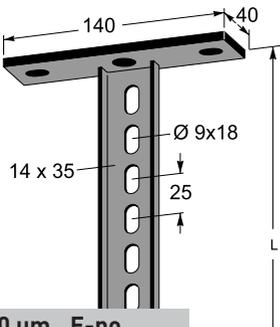
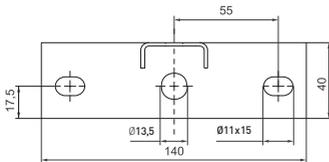
For splicing threaded rods. The joint is locked using a 3 mm set screw.



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

Ceiling pendant type MP-P

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



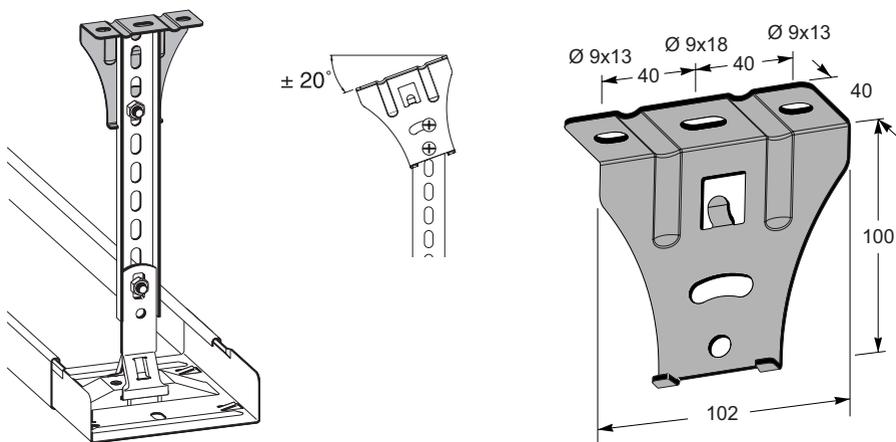
L	Zinc 60 µm	E-no
300	MP-957 Z	11 157 04
400	MP-958 Z	11 157 06
500	MP-959 Z	11 157 08
700	MP-960 Z	11 157 10
1 000	MP-961 Z	11 157 12

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

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

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

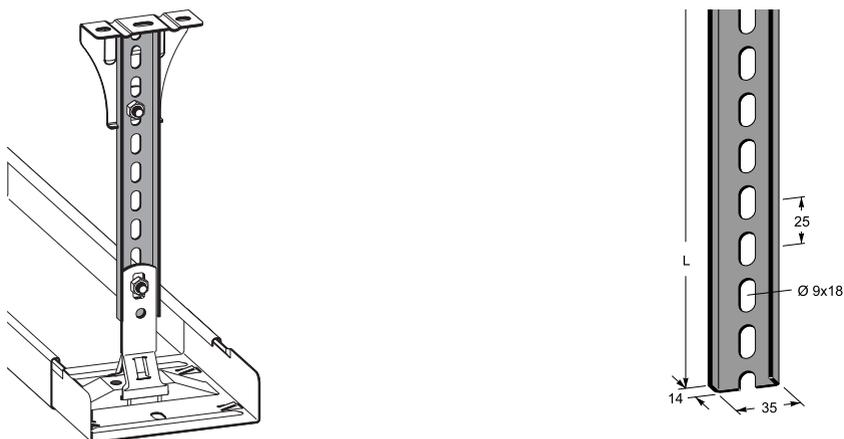
Ceiling bracket type TL for pendant rail



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

Pendant rail

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



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

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

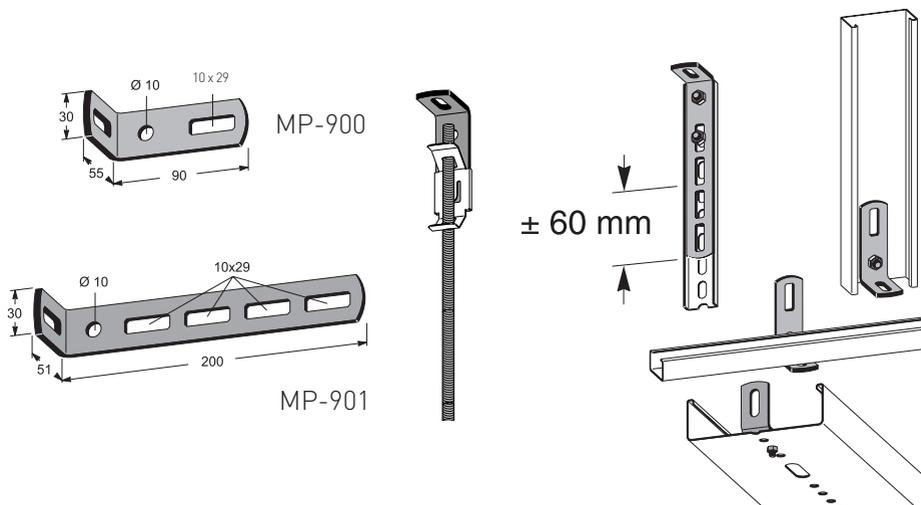
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable trays

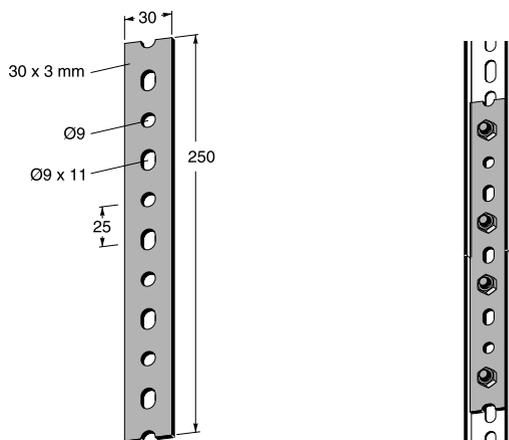
Angle bracket



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

Splice for pendant rail

The splice fits in the pendant rail's fold.



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

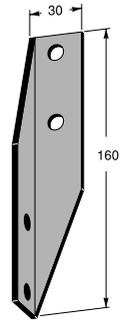
74 The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Pendant bracket

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

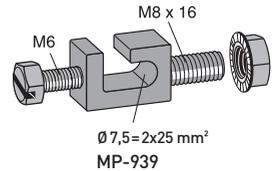
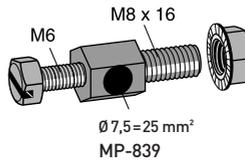
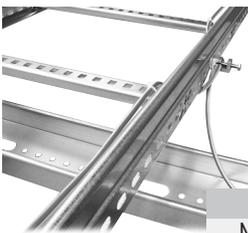


Zinc 60 µm E-no	White E-no
MP-918 Z 11 153 23	MP-918 V 11 153 24

Potential connection screw

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

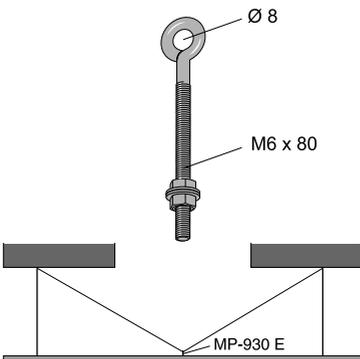
10 per package.



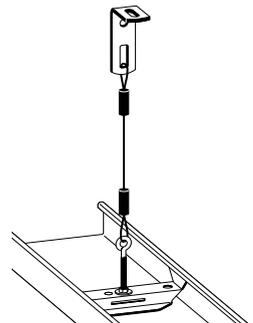
Dim	Zinc 10 µm E-no	Acid resist. E-no
M8 x 16	MP-839 E 11 157 88	MP-839 R 11 157 89
M8 x 16	MP-939 E 11 157 83	MP-939 R 11 157 85

Eyebolt

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



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



Zinc 10 µm E-no
MP-930 E 11 174 11

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

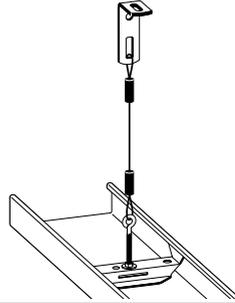
Cable trays

Wire



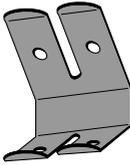
A "terminal block" can be used to lock the wire. Maximum load 125 kg, ≥ 1.7 times the maximum load.

Wire \varnothing 2 mm.
Length 100 m.



Zinc 10 μm	E-no
MP-770 E	11 185 00

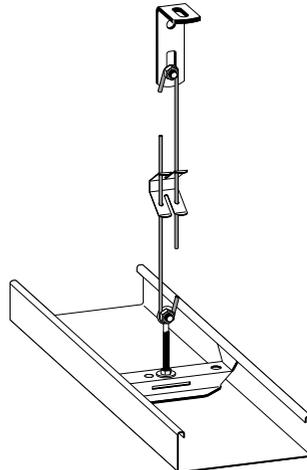
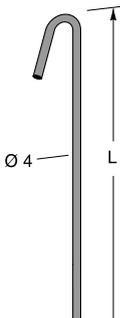
Wire pendant lock



Zinc 20 μm	E-no
MP-710 S	11 185 02



Wire pendant



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

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

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

A = Aluzinc 20 μ m (AZ 150)
Z4 = Zinc/mag. 25 μ m (ZM 310)

Wire pendant 2 mm

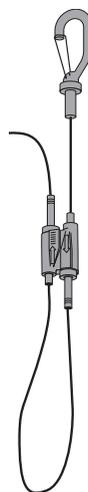
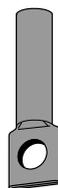
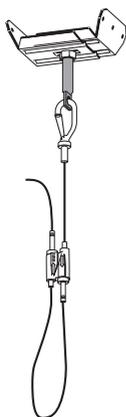
Wire with quick lock, Ø2 mm.

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

Eyebush M8x50

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

10 per package.



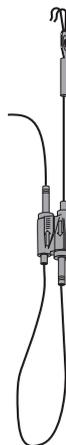
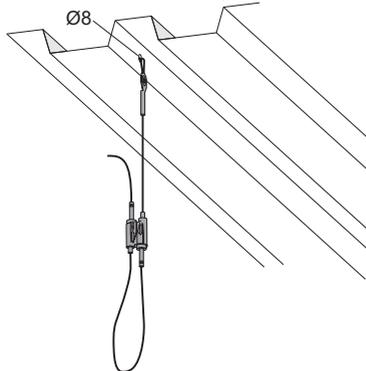
L	Zinc 20 µm	E-no
1000	MP-701 E	11 185 31
2000	MP-702 E	11 185 32
3000	MP-703 E	11 185 33
5000	MP-705 E	11 185 34
Eye bush	MP-706 E	11 185 35

Wire pendant with hook 2 mm

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

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

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



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

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

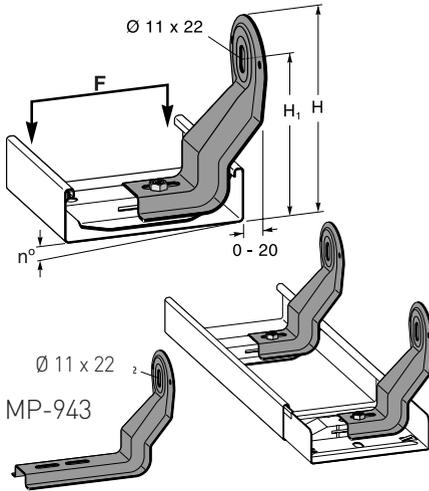
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

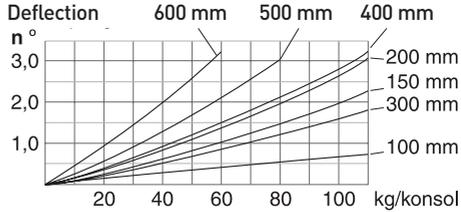
R = Acid resistant

Cable trays

Internal support cantilever arm



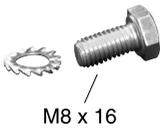
Fitted in the splice or support yoke with bolt MP-941 E, see below.
The diagram shows the deflection (n°) in degrees for an evenly distributed load F (kg) on the cantilever arm.



Ultimate failure load: ≥ 1.7 times the maximum load.

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

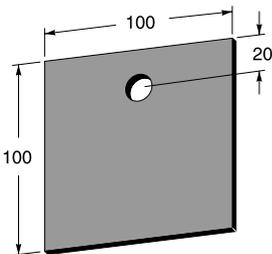
Bolt



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

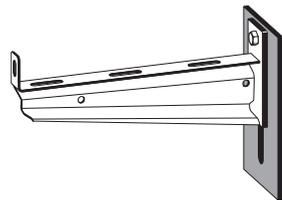
Zinc 10 μm	E-no
MP-941 E	11 157 13

Backing plate



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

Plate thickness = 5 mm.



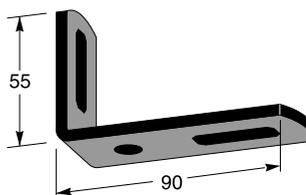
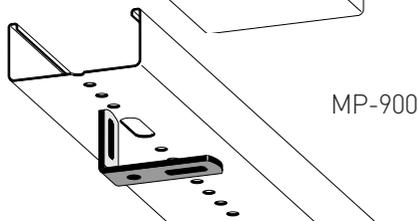
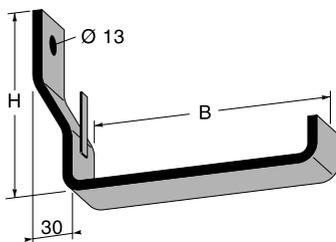
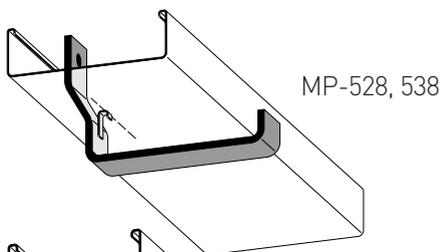
Zinc 60 μm	E-no	White	E-no
MP-962 Z	11 172 80	MP-962 V	11 172 81

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

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

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

External cantilever arm



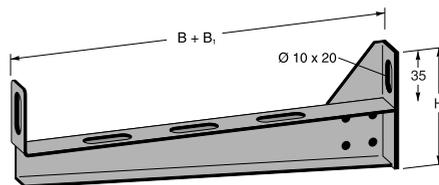
B	H	Max. load	Zinc 60 µm	E-no	White/Black	E-no
100	125	40 kg	MP-528 Z	11 172 57	MP-528 V	11 172 58
150	125	50 kg	MP-538 Z	11 172 61	MP-538 V	11 172 62
			MP-900 Z	11 153 85	MP-900 V	11 153 86
					MP-900 SV	11 153 91

External cantilever arm

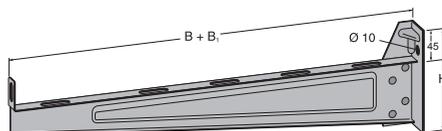
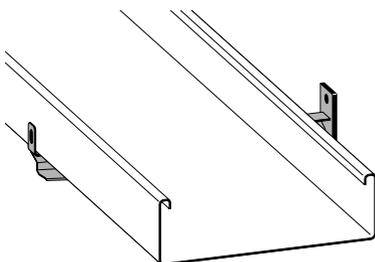
Cantilever arm designed for greater loads.

Maximum load = 150 kg.

Ultimate failure load: ≥ 1.7 times the maximum load.



MP-753-755



MP-756-762

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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable trays

Ceiling pendant type MP-V

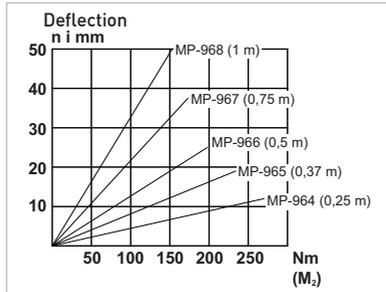
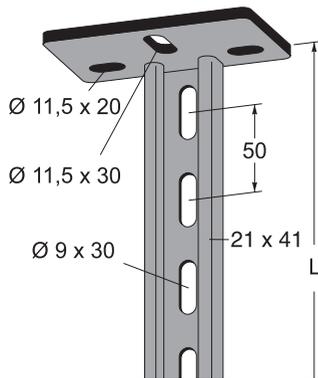
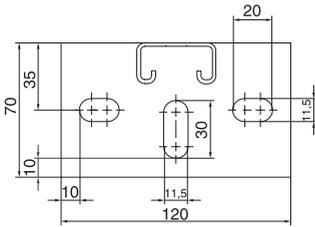
Heavy-duty ceiling pendants - see pages 30-31.

Deflection ceiling pendant MP-V

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

Read the deflection in the diagram for the selected pendant.

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

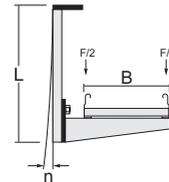


M_2 = Bending torque in Nm

F = Load in N

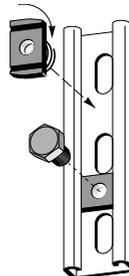
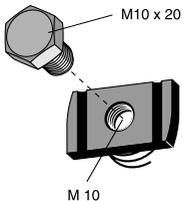
B = Ladder width in m

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



Nut washer for ceiling pendant

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



Zinc 60 µm	E-no
MP-978 Z	11 157 16

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

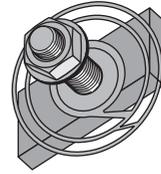
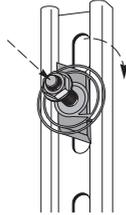
E = Electrogalv. 10 µm
 S = Zinc 20 µm
 Z = Zinc SS-EN ISO1461

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

T-screw

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

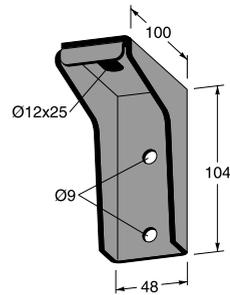
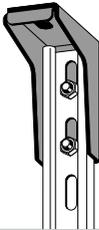
1. Placed in the rail opening.
2. Press the screw.
3. The T screw rotates to the right position.



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

Ceiling bracket

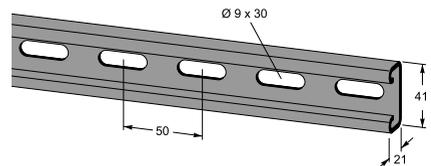
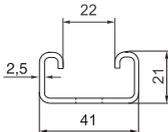
The ceiling bracket is combined with an anchor rail for side-hung tray installation. Choose from ready-cut lengths or cut to the desired length yourself, see below. The installation can handle larger loads than the corresponding ceiling pendant type MP-V - see page 80.



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

Anchor rail type MP-V

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



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

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

V = White
B = Beige
SV = Black

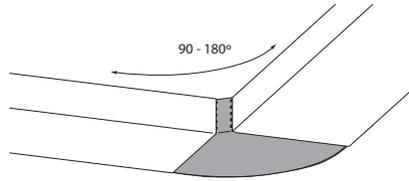
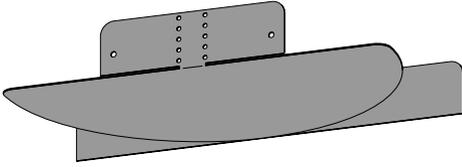
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable trays

Adjustable hook

Adjustable hook for all tray types.

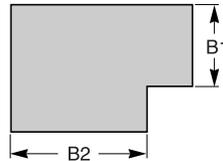
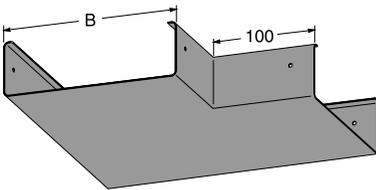


B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-493 S	11 193 00	MP-493 V	11 193 01		
75	MP-413 S	11 193 02	MP-413 V	11 193 03	MP-413 SV	11 193 06
100	MP-423 S	11 193 04	MP-423 V	11 193 05	MP-423 SV	11 193 07
150	MP-433 S	11 193 08	MP-433 V	11 193 09		
200	MP-443 S	11 193 12	MP-443 V	11 193 13	MP-443 SV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

Flat elbow

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

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



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

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

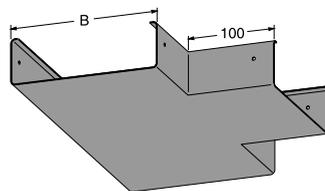
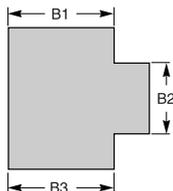
E = Electrogalv. 10 µm
 S = Zinc 20 µm
 Z = Zinc SS-EN ISO1461

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

Tee piece

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

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

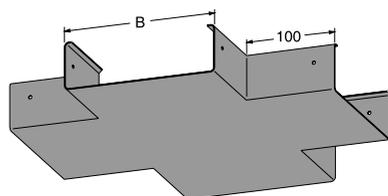
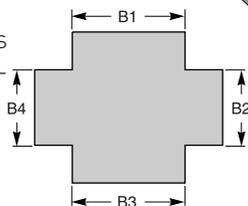


B	Zinc 20 µm	E-no	White	E-no	Black	E-no
50	MP-498 S	11 192 28	MP-498 V	11 192 29		
75	MP-418 S	11 179 05	MP-418 V	11 179 06	MP-418 SV	11 179 09
100	MP-428 S	11 192 32	MP-428 V	11 192 33	MP-428 SV	11 192 34
150	MP-438 S	11 192 36	MP-438 V	11 192 37		
200	MP-448 S	11 192 40	MP-448 V	11 192 41	MP-448 SV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

Cross piece

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

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



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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

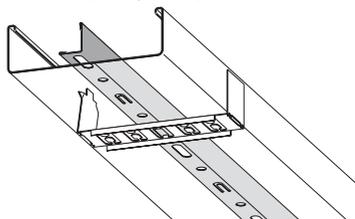
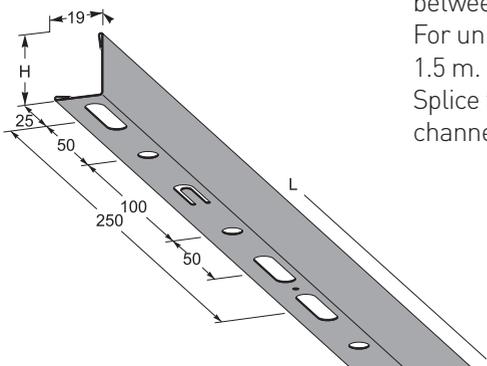
Cable trays

Divider

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

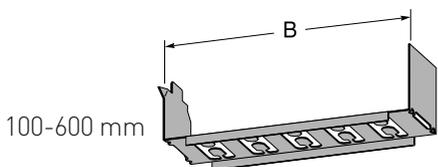
For unbroken sections use one support per 1.5 m.

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

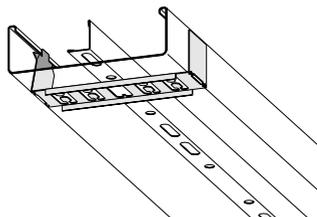


H	L	Zinc 20 µm	E-no	White	E-no
25	1750	MP-127 S	11 184 70		
25	2750	MP-137 S	11 184 72	MP-137 V	11 184 75
40	1750	MP-148 S	11 184 77		
40	2750	MP-149 S	11 184 78		

Tie support - support for dividers



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



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

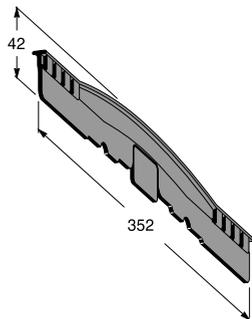
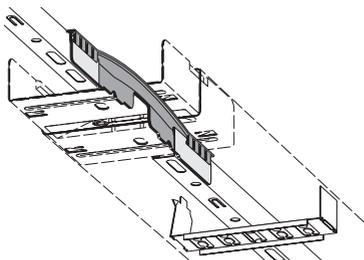
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Splice for divider

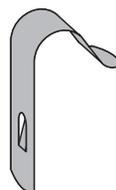
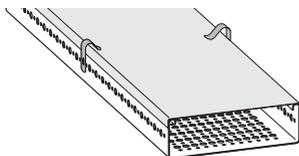
Splice for divider gives an uninterrupted channel over the splice/yoke.



Plastic	E-no
MP-137 P	11 184 73

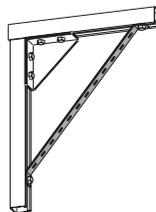
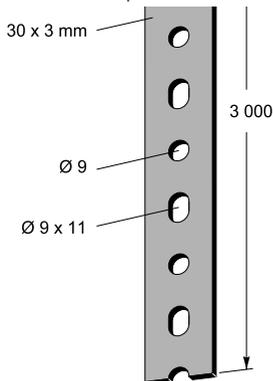
Cover clip

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



Stainless	E-no
MP-401 R	11 171 50

Bracing strap is cut and knocked into the desired shape.



Zinc 60 μm	E-no
MP-210 Z	11 157 02

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

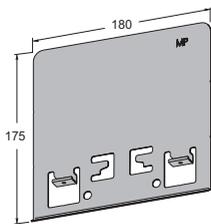
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

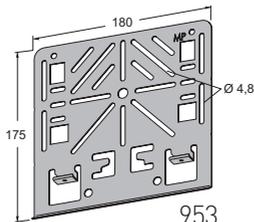
R = Acid resistant

Cable trays

Mounting plate

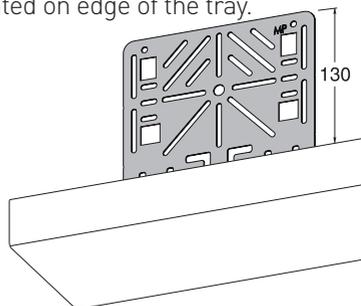


952



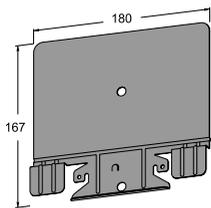
953

Mounting plate that snaps onto the edge of the tray. Used when the suspended ceiling bar is mounted on edge of the tray.

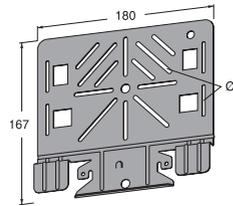


	Zinc 20 µm	E-no	White	E-no	Z4	E-no
Unperf.	MP-952 S	11 183 80	MP-952 V	11 183 81		
Perf.	MP-953 S	11 183 83	MP-953 V	11 183 84	MP-953 Z4	11 183 85

Mounting plate

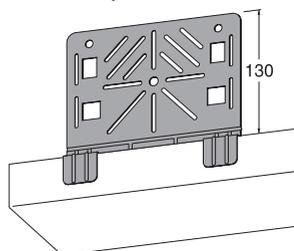


954



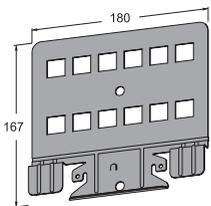
955

Mounting plate with folding tabs that lock under the edge of the tray.



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

Mounting plate for data sockets



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

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

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

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

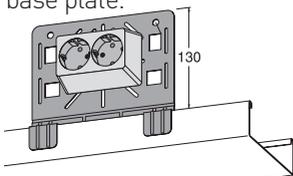
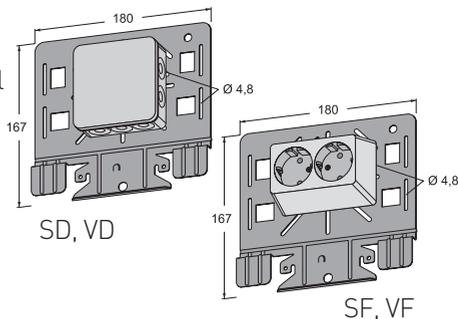
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Mounting plate + junction box IP65/socket outlet IP21

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

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

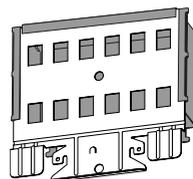
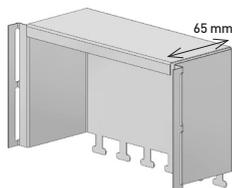
Mounting plate with pre-installed twoway socket outlet in white halogen-free polycarbonate, tamper resistant with base plate.



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

Hood for mounting plate

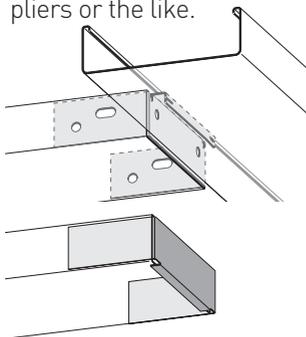
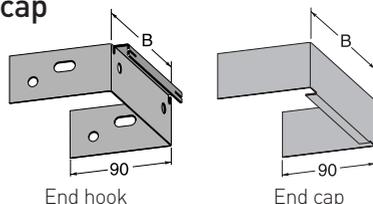
Hood for mounting plate MP-954 - see page 86.



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

End hook/end cap

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



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

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

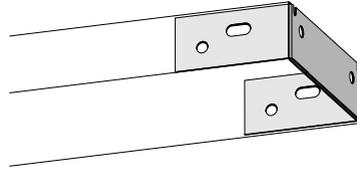
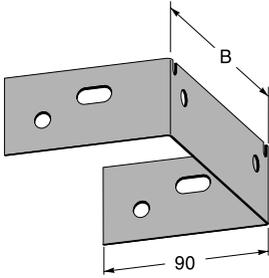
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

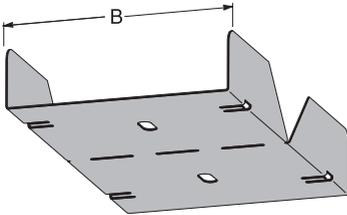
Cable trays

End bracket

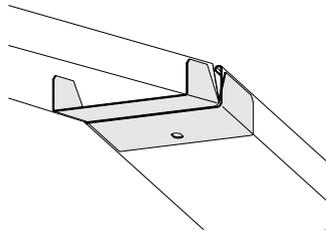


B	Zinc 20 µm	E-no	White	E-no
50	MP-594 S	11 178 81	MP-594 V	11 178 82
75	MP-514 S	11 179 00	MP-514 V	11 179 03
100	MP-524 S	11 178 85	MP-524 V	11 178 86
150	MP-534 S	11 178 87	MP-534 V	11 178 88
200	MP-544 S	11 178 89	MP-544 V	11 178 90
300	MP-554 S	11 178 91	MP-554 V	11 178 92
400	MP-564 S	11 178 94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

Level link



Installed as a splice in the tray. For a 90° - fall use the MP-downward bend.
Option - cut into the side edge of the tray and knock the tray to the desired angle.



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

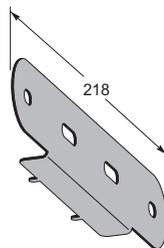
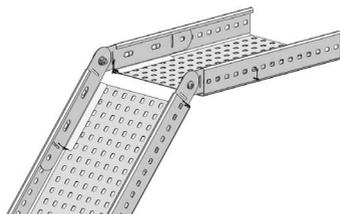
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Universal link - perforated tray

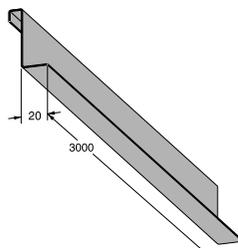
The universal link snaps into place (4 links/splice) and is fitted with a screw M6x12 mm - see page 137.



Zinc 20 µm	E-no
MP-909 S	11 176 45

Suspended ceiling holder

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



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

Reduction piece

Made to order, order according to the table.

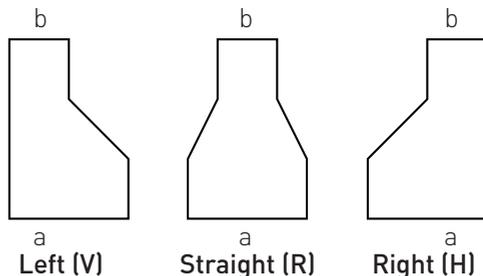
Form	Inside measur.	Outside measur.	Surface finish
V	a	b	S/V
R	a	b	S/V
H	a	b	S/V

E.g.

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

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

View from above



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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

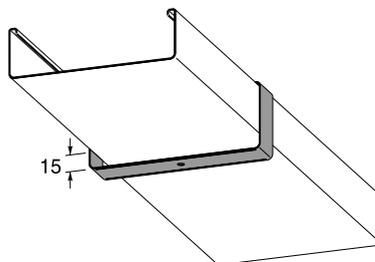
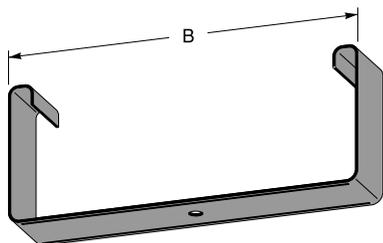
R = Acid resistant

Cable trays

Luminaire bracket

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

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

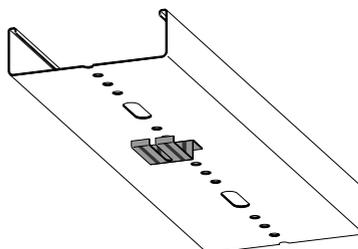
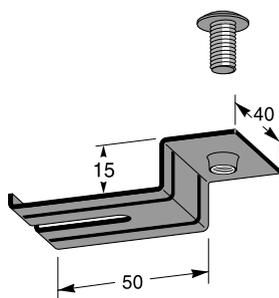


B	Zinc 20 µm	E-no	White	E-no	Z4	E-no
50	MP-692 S	11 184 33	MP-692 V	11 184 34		
75	MP-612 S	11 184 37	MP-612 V	11 184 38	MP-612 Z4	11 184 36
100	MP-622 S	11 184 39	MP-622 V	11 184 40		
150	MP-632 S	11 184 43	MP-632 V	11 184 44		
200	MP-642 S	11 184 47	MP-642 V	11 184 48		

Luminaire bracket

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

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



Zinc 20 µm	E-no
MP-935 S	11 184 21

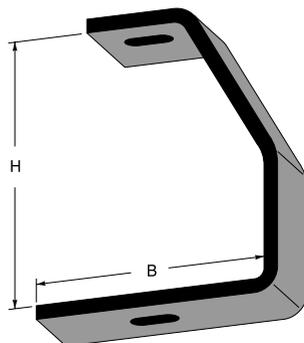
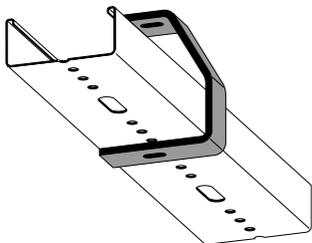
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Ceiling support

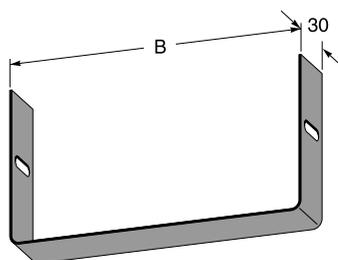
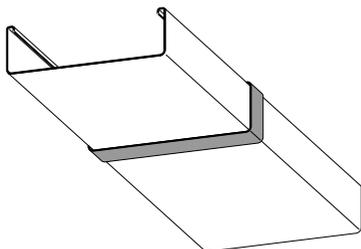
Extends 4 mm below the tray.



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

Décor splice

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



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

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

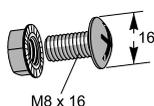
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Cable trays

Fastening screw



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

50 per package.

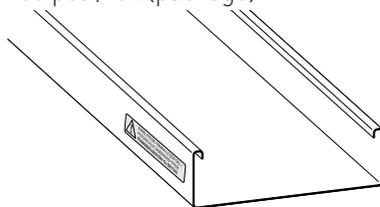
Zinc 20 µm	E-no
MP-937 E	11 157 11

Potential marking



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

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



Label	E-no
MP-837 F	11 167 15

Touch-up paint RAL 9010

Spray can 400 ml.
Colour no.: RAL 9010 (NCS 0502-Y).
Dust dry in about 30 minutes.
Covers approx. 2.5 m².

Touch-up paint in 25 ml bottle.
Colour no.: RAL 9010 (NCS 0502-Y).



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

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

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

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

Wire mesh trays

can be combined with other sub-systems - a system with many common accessories.

Wire mesh trays are easy to shape and an excellent complement to e.g. the cable ladder.

Use our cable ladders for the main installation and divide/branch with wire mesh trays.

Wire mesh trays with accessories can on request be supplied in any colour.

Equipotential bonding

SP Technical Research Institute of Sweden in Borås has made test measurements equivalent to SS-EN 61537:2007.

All MP-wire mesh trays can handle demands without screws – see page 8.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

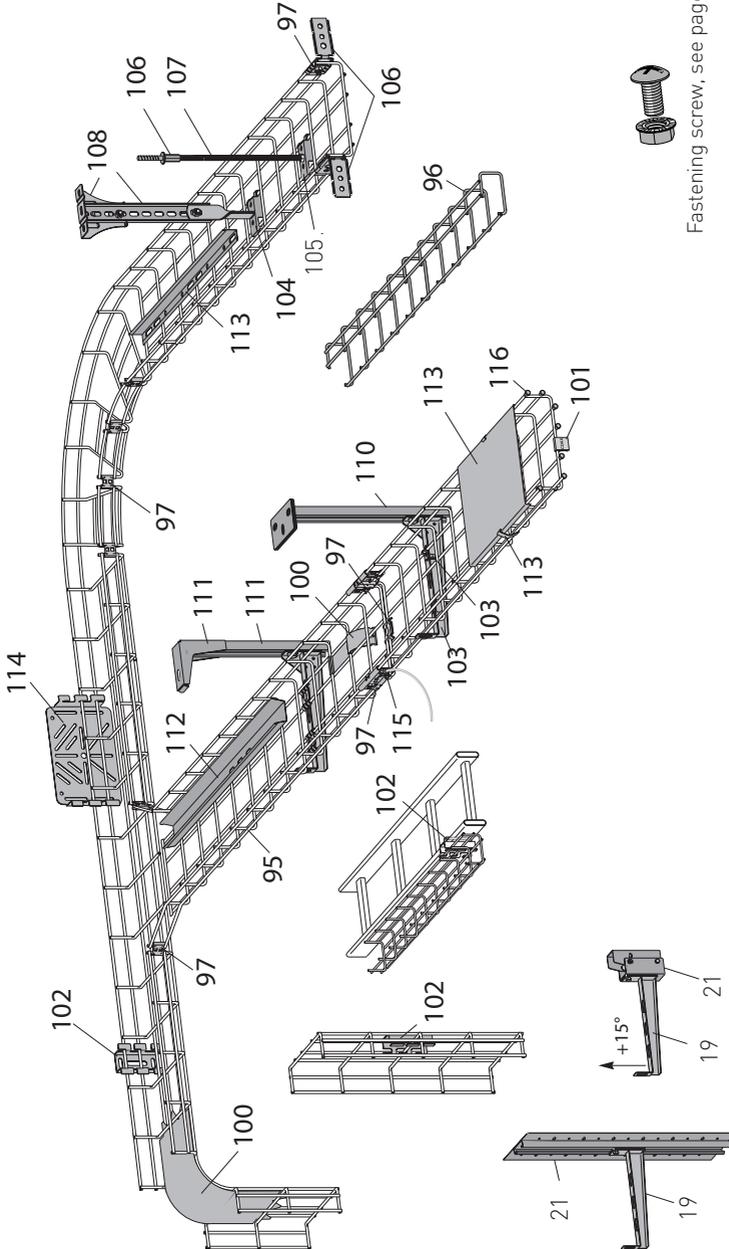
Wire mesh trays

Wire mesh trays

Numbers denote page number.

Wire mesh trays

Numbers denote page number.



Fastening screw, see page 125.

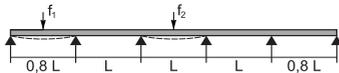
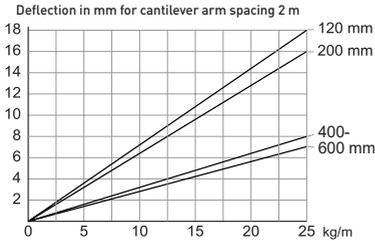
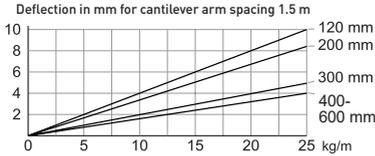
The letter in the MP No.denotes the surface finish according to: (also see page 4)

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

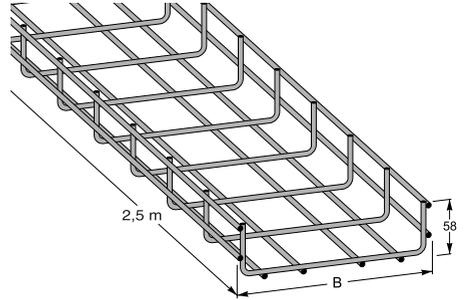
A = Aluzinc 20 µm (AZ 150)
 Z4 = Zinc/mag. 25 µm (ZM 310)

Wire mesh trays

Wire mesh tray – 2.5 m



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



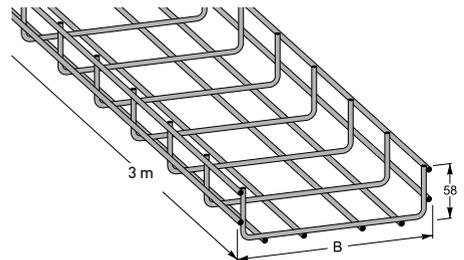
The diagram shows the deflection at $L = 1.5$ m and $L = 2$ m cantilever arm spacing. Ultimate failure load: ≥ 1.7 times the load. The ends of the lateral wires are bevelled.

Wire mesh trays with accessories can be supplied in any colour.

B	Zinc 10 μ m	E-no	Z4	E-no	Acid resist. E-no	White	E-no	Wire- \emptyset	
55	MP-719 E	11 163 91	MP-719 Z4	11 163 95	MP-719 R	11 163 97	MP-719 V	11 163 93	4 mm
75	MP-720 E	11 164 00	MP-720 Z4	11 164 04	MP-720 R	11 164 06	MP-720 V	11 164 02	4 mm
120	MP-722 E	11 164 09	MP-722 Z4	11 164 16	MP-722 R	11 164 15	MP-722 V	11 164 11	5 mm
200	MP-723 E	11 164 18	MP-723 Z4	11 164 25	MP-723 R	11 164 24	MP-723 V	11 164 20	5 mm
300	MP-724 E	11 164 27	MP-724 Z4	11 164 34	MP-724 R	11 164 33	MP-724 V	11 164 29	5 mm
400	MP-725 E	11 164 36	MP-725 Z4	11 164 43	MP-725 R	11 164 42	MP-725 V	11 164 38	6 mm
500	MP-726 E	11 164 45	MP-726 Z4	11 164 52	MP-726 R	11 164 51	MP-726 V	11 164 47	6 mm
600	MP-727 E	11 164 54	MP-727 Z4	11 164 61	MP-727 R	11 164 60	MP-727 V	11 164 56	6 mm

Wire mesh tray light – 3 m

Wire mesh tray light in pre-galvanised wire designed for light loads. All accessories are designed for wire mesh trays also fit the light version.



B	Zinc 10 μ m	E-no	Wire- \emptyset
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

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

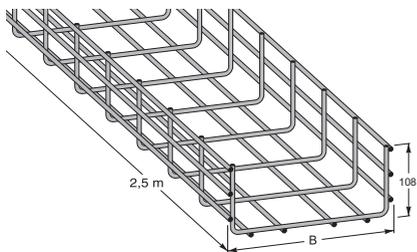
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Wire mesh trays

Wire mesh tray with 110 mm high edge – 2.5 m



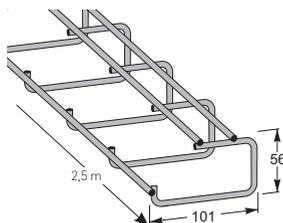
Higher wire mesh tray with more space for cables for installation and better bearing capacity.

Several of the accessories are shared with the remainder of the MP range.

For splicing, universal bracket MP-731 must be fitted in the bottom to achieve full strength.

B	Zinc 10 µm	E-no	Z4	E-no	Acid resist.	E-no	Wire
120	MP-722 HE	11 164 10	MP-722 HZ4	11 164 13	MP-722 HR	11 164 14	5 mm
200	MP-723 HE	11 164 19	MP-723 HZ4	11 164 22	MP-723 HR	11 164 23	5 mm
300	MP-724 HE	11 164 28	MP-724 HZ4	11 164 31	MP-724 HR	11 164 32	5 mm
400	MP-725 HE	11 164 37	MP-725 HZ4	11 164 40	MP-725 HR	11 164 41	6 mm
500	MP-726 HE	11 164 46	MP-726 HZ4	11 164 49	MP-726 HR	11 164 50	6 mm
600	MP-727 HE	11 164 55	MP-727 HZ4	11 164 58	MP-727 HR	11 164 59	6 mm

Wire mesh tray – 2.5 m

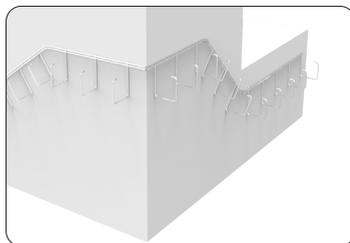
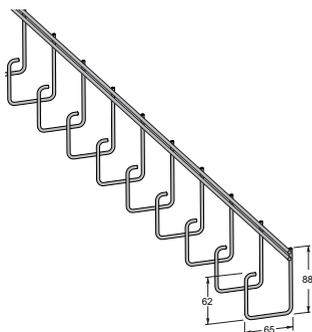


For installing directly on the ceiling using universal bracket MP 731 S. Ideal for low ceiling heights and during rebuilding work. Fully open cable routing from the side. In concrete ceilings – use MP-concrete screw – see page 154.

Zinc 10 µm	E-no
MP-729 E	11 164 71

Mesh tray flex – 2.5 m

Secured with screws between the two longitudinal wires. Screw size max Ø5 mm.



Zinc 10 µm	E-no
MP-728 E	11 164 80

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

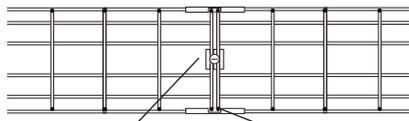
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

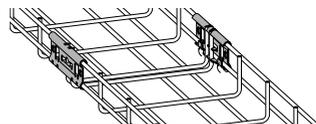
Coupling piece

Fitted by folding on the side of the tray after when the locking tongues are bent up with pliers. If necessary the splice can be locked using a fastening screw – see page 116.

Universal bracket fitted from below (width 300-600 mm)



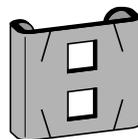
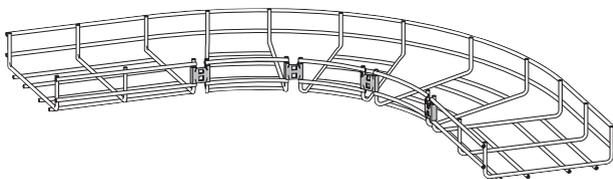
MP-731 MP-730



Zinc 20 µm	E-no	Z4	E-no	Acid resist.	E-no	White	E-no
MP-730 S	11 165 10	MP-730 Z4	11 165 14	MP-730 R	11 165 16	MP-730 V	11 165 12

Corner splice

For producing flat elbows, tee pieces and cross pieces Locked by inserting a screwdriver through one of the holes and bending the tongue between the tray's wires.

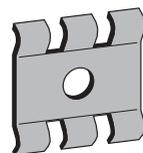
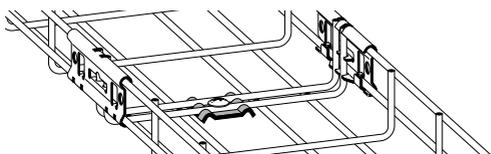


Zinc 20µm	E-no	Acid resist.	E-no	White	E-no
MP-732 S	11 165 20	MP-732 R	11 165 26	MP-732 V	11 165 22

Universal bracket

Designed for universal fastening in the trays and for locking cantilever arm and angle brackets. For widths 300 to 600 mm, use a universal bracket in the bottom of the wire mesh tray to reinforce the joint (see below).

Secured with one fastening screw – see page 116.



Zinc 20 µm	E-no	Z4	E-no	Acid resist.	E-no	White	E-no
MP-731 S	11 165 30	MP-731 Z4	11 165 34	MP-731 R	11 165 36	MP-731 V	11 165 32

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Products for solar panel installations!



New bracket for flat roofs!

Easier installation of wire ladders on flat roof using new roof support, as simple is clicked into place.

UV resistant and fits
120 and 200 mm widths.
Total weight over 1 kg.

Roof support wire mesh trays
- see page 101.

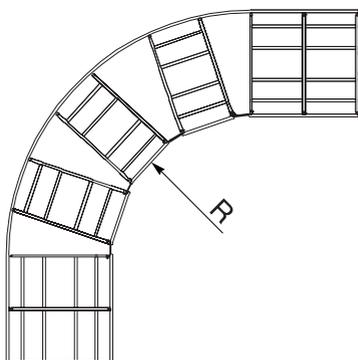


The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Flat elbow with radius

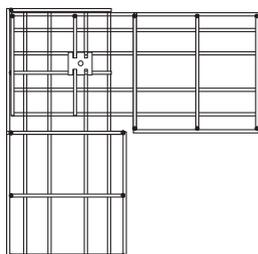


B	Cut compartment	Corner-splice	Radius
75	1 pcs.	1 pcs.	
120	2 pcs.	2 pcs.	90 mm
200	4 pcs.	4 pcs.	260 mm
300	6 pcs.	6 pcs.	420 mm
400	8 pcs.	8 pcs.	580 mm
500	10 pcs.	10 pcs.	720 mm
600	12 pcs.	12 pcs.	890 mm

Flat elbow with corner

One side edge of the wire mesh tray is cut off after which they are joined.

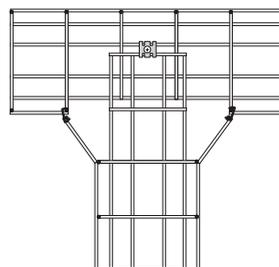
One universal bracket is fitted from above and the other from below.



B	Universal bracket MP-731
75	2 pcs.
120	2 pcs.
200	2 pcs.
300	4 pcs.
400	4 pcs.
500	4 pcs.
600	4 pcs.

Tee, cross pieces

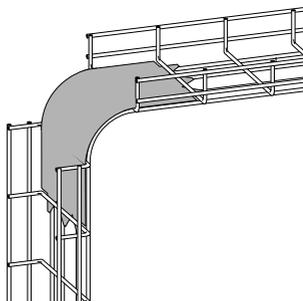
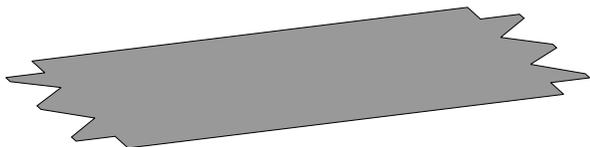
The side of the primary tray is cut from 100 mm wider than the connecting tray. The connecting tray's sides are cut up and bent outward. Joining is performed using two corner splices - MP-732 and a universal bracket MP-731.



Wire mesh trays

Bending plate

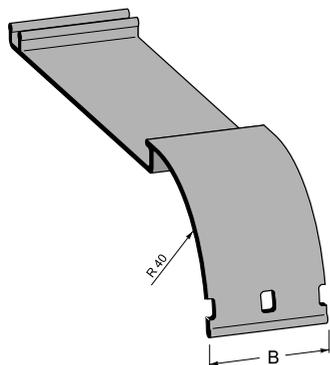
The bending plate is made of aluminium and is used for upward and downward falls with softer types of cables.



B	Aluminum	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 the sensitive cables with downward falls from the wire mesh trays. The radius limiter is made of aluminium and snaps onto the wire mesh trays.

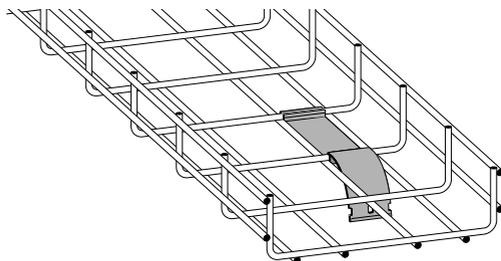


MP-786 C fits width 200 mm, without centre compartment.

MP-787 C fits width 300 mm, without centre compartment.

MP-788 C is suitable for widths of 400, 500 and 600 mm, and for centre compartment 120-600 mm.

(NOTE! Do not fit wire mesh tray "light")



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

Wire mesh trays

Label holder

Label holder that clips onto the wire mesh tray.
10 per package.



MP-780 CO



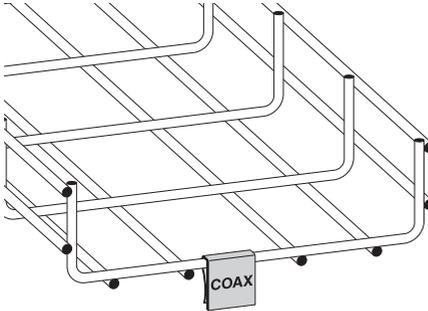
MP-780 OP



MP-780 PA



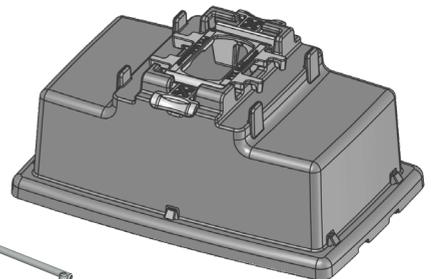
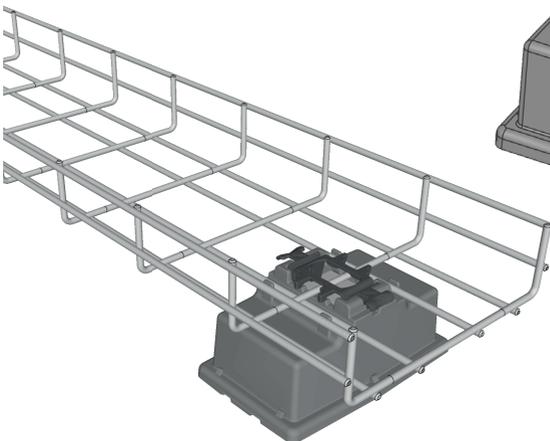
MP-780 PO



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

Roof support

Roof support for mounting wire mesh trays
with width 120-200 mm on flat roofs.
The wire mesh tray is easily attached with the
enclosed clip

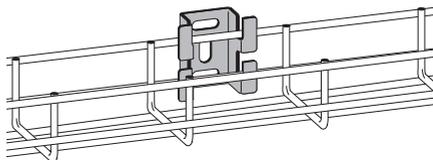
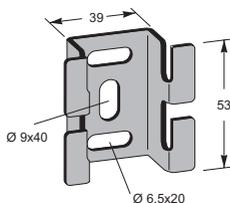


PVX1	E-no
Model	11 165 89

Wire mesh trays

Wall bracket mini

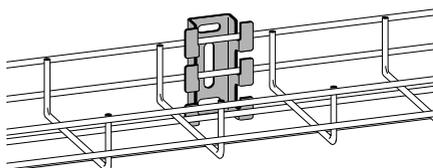
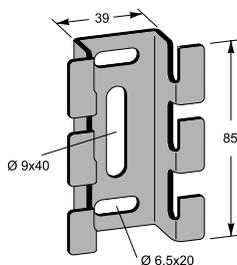
Wall bracket for suspending wire mesh trays horizontally, vertically, or on end along walls. Primarily designed for widths 55 and 75 mm.



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
MP-734 S	11 165 85	MP-734 Z	11 165 87	MP-734 R	11 165 88	MP-734 V	11 165 86

Wall bracket

Wall bracket for suspending wire mesh trays horizontally, vertically, or on end along walls. Primarily designed for widths 75 and 120 mm.

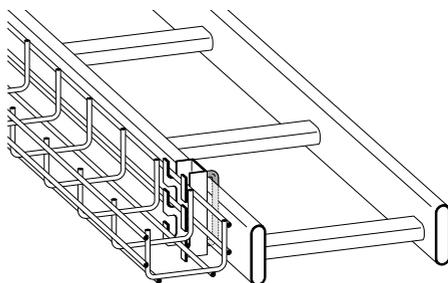
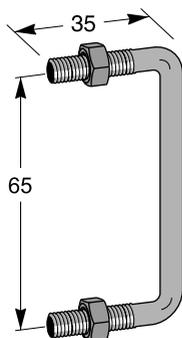


Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
MP-735 S	11 166 03	MP-735 Z	11 166 06	MP-735 R	11 166 09	MP-735 V	11 166 05

Fastening clamp

The fastening clamp is used together with wall bracket (MP-735) for the suspension of MP-wire mesh trays on extraneous cable ladders.

MP-735 is fastened directly in the side profile when fastening in MP cable ladders.



Zinc 10 µm	E-no
MP-736 E	11 166 10

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

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

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

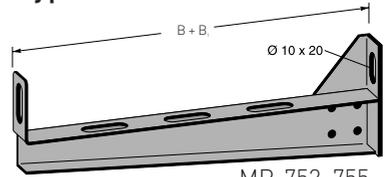
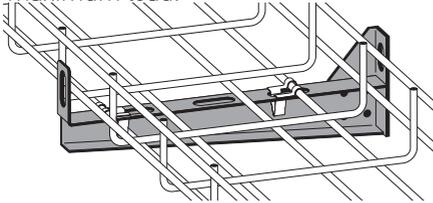
Wire mesh trays

Cantilever arm type KL

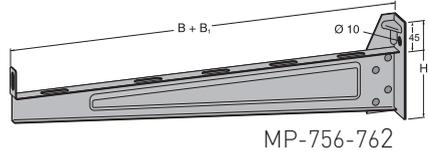
Lock the wire mesh tray on the cantilever arm using bracket clips MP-733, see below.

Maximum load = 150 kg.

Ultimate failure load: ≥ 1.7 times the maximum load.



MP-752-755

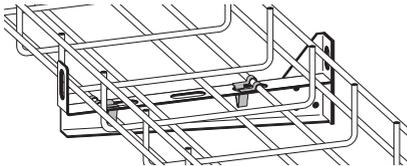


MP-756-762

B	B1	H	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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 53
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	150	MP-756 S	11 165 74	MP-756 Z	11 165 78	MP-175 R	11 165 79	MP-756 V	11 165 75
600	50	150	MP-762 S	11 165 80	MP-762 Z	11 165 84	MP-176 R	11 165 81	MP-762 V	11 165 82

Cantilever arm clips

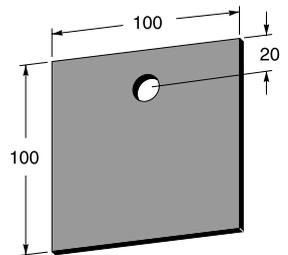
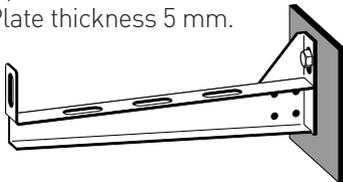
Cantilever arm clips for fastening wire mesh trays on the cantilever arm - type KL.
10 per package.



Acid resist.	E-no
MP-733 R	11 165 83

Backing plate

The backing plate is used to improve the distribution of surface pressure on a cantilever arm on walls with a porous surface material or the like.
Plate thickness 5 mm.



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

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

V = White
B = Beige
SV = Black

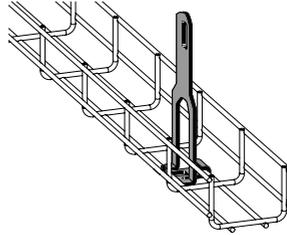
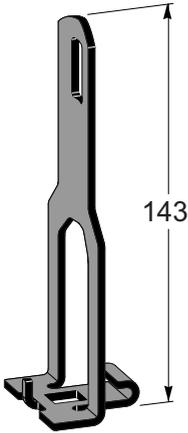
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Wire mesh trays

Support yoke 55 - 75 mm

Easily mounted on the pins in the wire mesh tray and secured by bending the catch on the yoke with pliers.

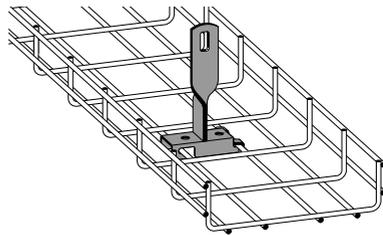
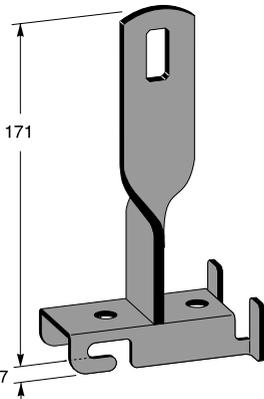


Z4	E-no
MP-769 Z4	11 166 57

Support yoke 120 - 600 mm

Support yoke for widths 120-600 mm. The widths of 300-600 mm can be supplemented with a support for wire mesh yoke to prevent the edges bend down.

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



Zinc 10 μm	E-no	Zinc 60 μm	E-no	Acid resist.	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

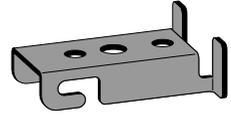
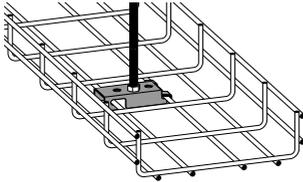
104 The letter in the MP No.denotes the surface finish according to: (also see page 4)

E = Electrogalv.	10 μm	A = Aluzinc	20 μm (AZ 150)
S = Zinc	20 μm	Z4 = Zinc/mag.	25 μm (ZM 310)
Z = Zinc	SS-EN ISO1461		

Wire mesh trays

Support yoke for threaded rod

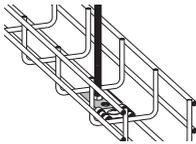
Support yoke intended for fastening to M10 threaded rod. Secured to the threaded rod with two M10 nuts. Exercise care in the event of unbalanced loads.



Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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

Support yoke for threaded rod

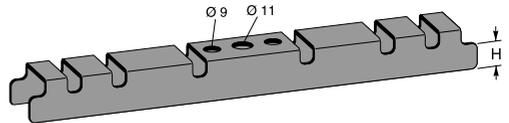
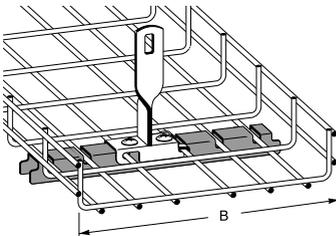
Support yoke designed for 55 and 75 mm wire mesh trays. Wire mesh trays are locked using universal bracket MP-731 – see page 97 and fastening screw MP-937 – see page 116.



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
MP-768 S	11 166 92	MP-768 Z	11 166 94	MP-768 R	11 166 95	MP-768 V	11 166 93

Support for wire mesh yoke 300-600 mm

Used together with Support yoke MP-757 for wire mesh trays in the width 300-600 mm, to prevent the wire mesh tray bending with heavy loads. The support is screwed to the support yoke with fastening screw MP-937 after the wire mesh tray has been fitted in the support yoke.



B	H	Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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

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

V = White
B = Beige
SV = Black

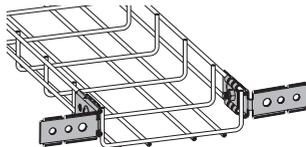
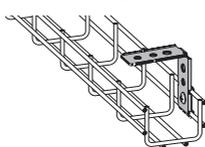
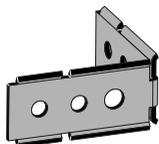
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Wire mesh trays

Angle bracket

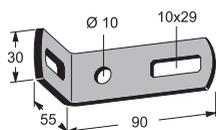
Used as an end bracket against the wall or another ladder.
Can also be used as a ceiling bracket (only applies to 55 and 120 mm widths). Fitted using universal bracket MP-731 - see page 97 and fastening screw MP-937 – see page 116.



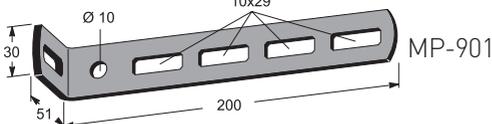
Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
MP-737 S	11 165 38	MP-737 R	11 165 40	MP-737 R	11 165 41	MP-737 R	11 165 39

Angle bracket

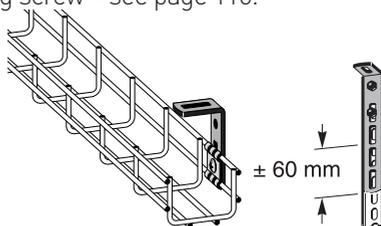
Used as an end bracket against the wall or another ladder.
Can also be used as a ceiling bracket (only applies to 75 and 120 mm widths). Fitted using universal bracket MP-731 - see page 97 and fastening screw – see page 116.



MP-900



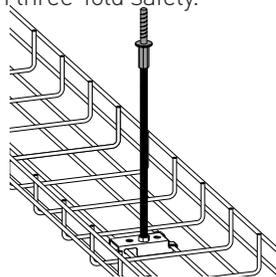
MP-901



Zinc 10 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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	11 153 86
		MP-901 Z	11 153 81	MP-901 R	11 154 19	MP-901 V	11 153 82

Ceiling bracket for threaded rod M8/M10

Ceiling bracket intended for fastening threaded rod M8 or M10 in concrete. Drill a Ø6x65 mm hole in the substrate, screw the ceiling bracket in the hole. In uncracked concrete K25 the pull-out force is 400 kg with three-fold safety.

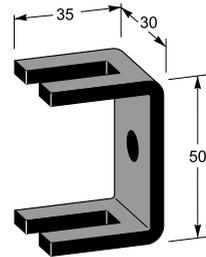
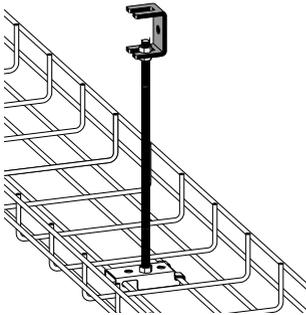


Dim.	Pack.	Zinc 10 µm	E-no
7,5x55	40 pcs.	MP-023 E	11 175 50

Wire mesh trays

Ceiling bracket threaded rod

The ceiling bracket is used to suspend wire mesh trays from the threaded rod. The threaded rod is secured to the ceiling bracket using two nuts MP-044 - see below.



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

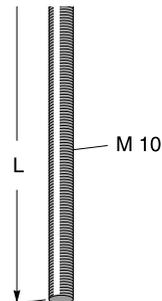
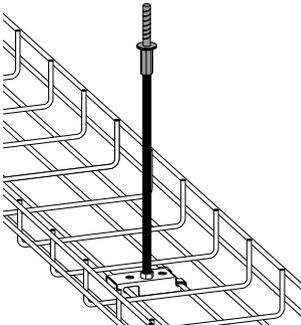
Nut M10

The nut is used for installing with threaded rods. 50 per package.



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

Threaded rod



L	Zinc 10 µm	E-no	Acid resist.	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 R	11 175 59	MP-928 V	11 175 58

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

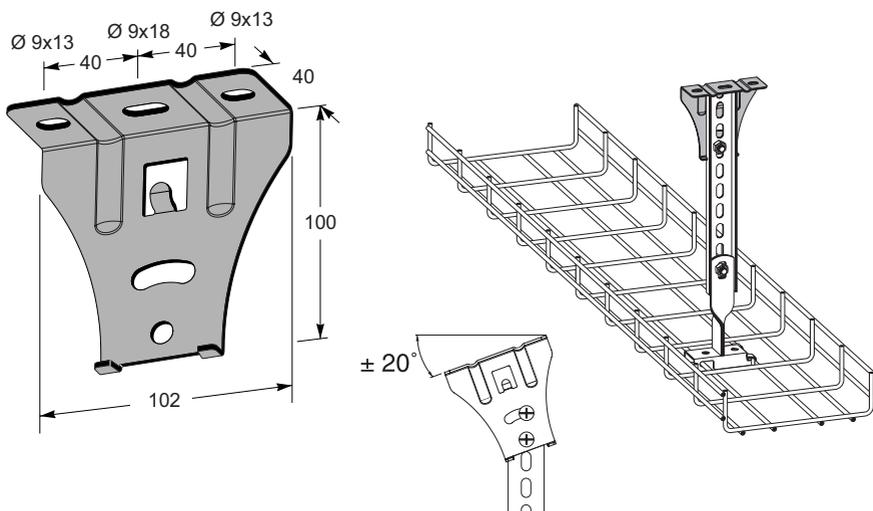
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Wire mesh trays

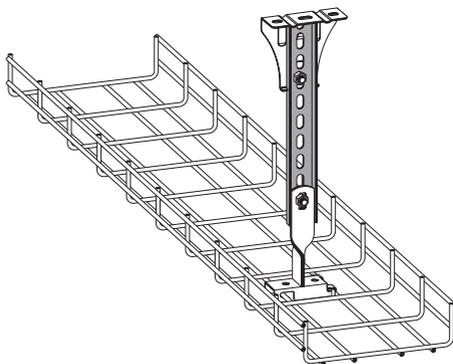
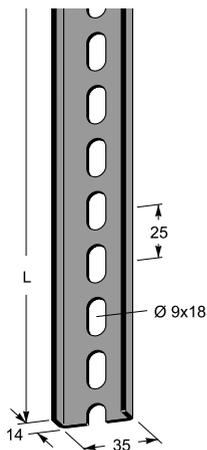
Ceiling bracket type TL



Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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 rail is equipped with cutting marks every 100 mm.



L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
2000					MP-910 R	11 153 41		
3000	MP-910S	11 153 38	MP-910Z4	11 153 39			MP-910V	11 153 40

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

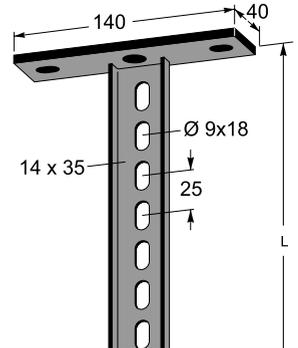
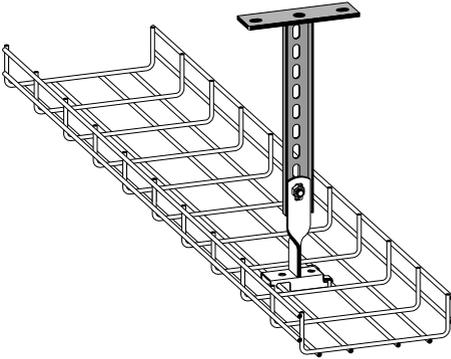
E = Electrogalv. 10 µm
 S = Zinc 20 µm
 Z = Zinc SS-EN ISO1461

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

Wire mesh trays

Ceiling pendant type MP-P

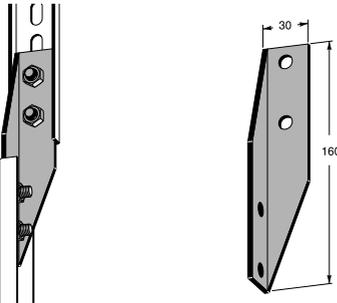
Hole module cc 25 mm. For acid-resistant installation use pendant rail and ceiling brackets.



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

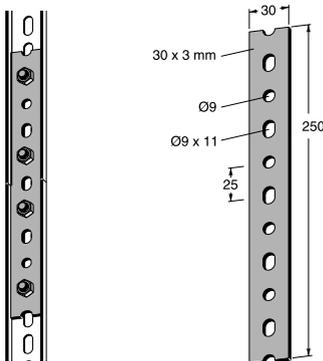
Mesh trays

Pendant bracket



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

Splice for pendant rail



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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

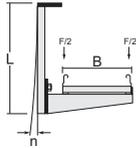
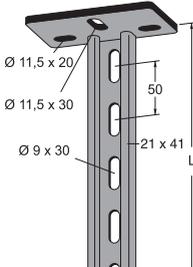
Wire mesh trays

Ceiling/floor pendant type MP-V

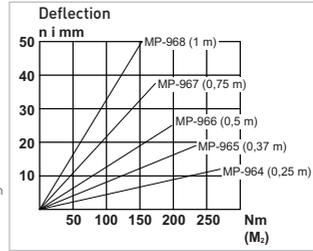
Ceiling pendant deflection MP-V (for fastening in the pendant – see page 46).

In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula $M2 = F \times (B+0.12)/2$.

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



M2 = Bending torque in Nm
F = Load in N
B = Ladder width in m

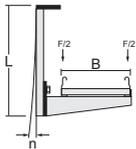
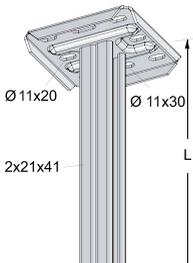


L	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
250	MP-964 Z	11 157 20	MP-964 R	11 157 22	MP-964 V	11 157 21
375	MP-965 Z	11 157 24	MP-965 R	11 157 26	MP-965 V	11 157 25
500	MP-966 Z	11 157 28	MP-966 R	11 157 30	MP-966 V	11 157 29
750	MP-967 Z	11 157 32	MP-967 R	11 157 34	MP-967 V	11 157 33
1000	MP-968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

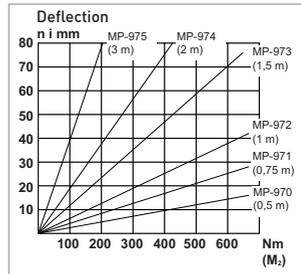
Ceiling/floor pendant type MP-DV

Ceiling pendant deflection MP-DV (for fastening in the pendant – see page 46). In order to calculate the deflection of the ceiling pendant, the bending moment is calculated according to the formula $M2 = F \times (B+0.14)/2$.

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



M2 = Bending torque in Nm
F = Load in N
B = Ladder width in m



L	Zinc 60 µm	E-no	Acid resist.	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

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

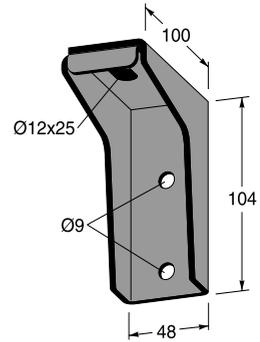
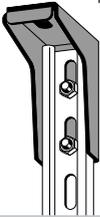
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

Ceiling bracket

The ceiling bracket is combined with an anchor rail for side-hung ladder installation. Choose from ready-cut lengths or cut to the desired length yourself, see below.

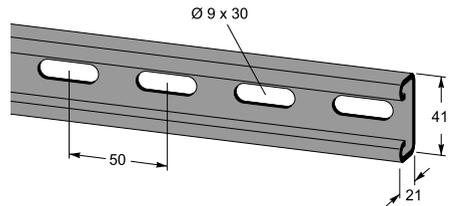
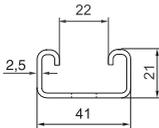
NOTE The installation can handle larger loads than the corresponding ceiling pendant type MP-V – see page 110.



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

Anchor rail type MP-V 21x41 mm

For fastening in rails – see below.

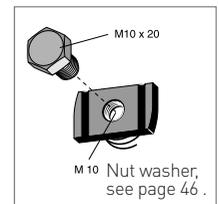
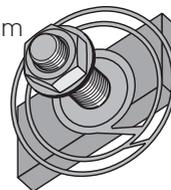


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	E-no	White	E-no
250	MP-024 S	11 158 39	MP-024 Z	11 158 40			MP-024 V	11 158 38
375	MP-025 S	11 158 43	MP-025 Z	11 158 44			MP-025 V	11 158 42
500	MP-026 S	11 158 47	MP-026 Z	11 158 48			MP-026 V	11 158 46
750	MP-027 S	11 158 51	MP-027 Z	11 158 52			MP-027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

T-screw

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

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



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

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

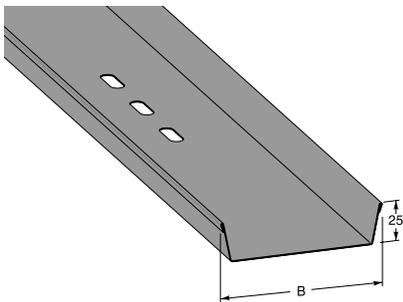
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

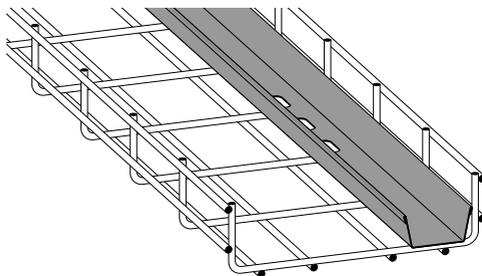
R = Acid resistant

Wire mesh trays

Telecom channel unperforated

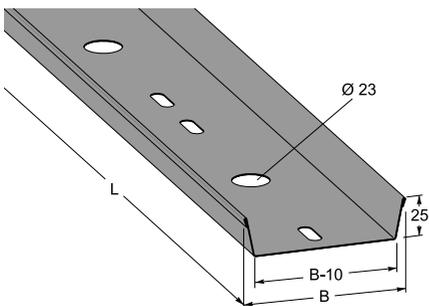


The channel is designed with fastening holes at the ends and in the middle.



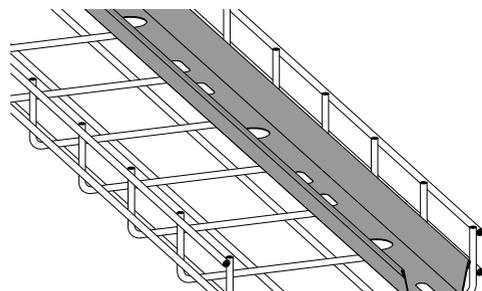
L	B	Zinc 20 µm	E-no
3000	50	MP-128 S	11 156 00
3000	100	MP-129 S	11 156 04
3000	200	MP-130 S	11 156 08

Telecom channel perforated



The large holes can be fitted with Ø23 mm rubber sleeves to prevent damage to the cord. Found in list 14.

Note! The length of acid resistant telecom channel is 2 m.



L	B	Zinc 20 µm	E-no	Z4	E-no	Acid resist.	E-no (L=2 m)
3000	50	MP-138 S	11 156 12	MP-138 Z4	11 156 13	MP-138 R	11 156 14
3000	100	MP-139 S	11 156 16	MP-139 Z4	11 156 24		
3000	200	MP-140 S	11 156 20				

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

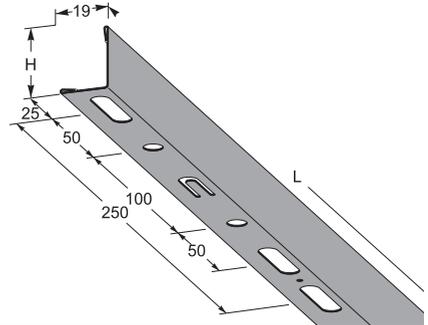
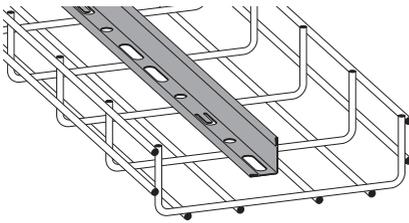
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

Wire mesh trays

Divider

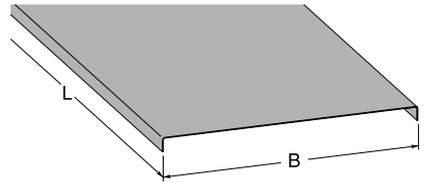
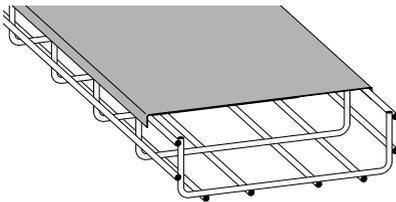
Dividers are secured with folding tongues on the ladder and are joined by overlapping.



H	L	Zinc 20 µm	E-no	Z4	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		

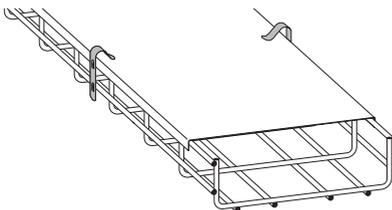
Cover

The covers are locked with clips, see below.
The length of the acid resistant cover is 1.25 m.



B	Zinc 20 µm	E-no	Z4	E-no	L	Acid resist.	E-no
55	MP-405 S	11 171 57	405 Z4	11 171 54	3 m	MP-405 R	11 171 58
75	MP-410 S	11 171 61	410 Z4	11 171 65	3 m	MP-410 R	11 171 63
120	MP-421 S	11 171 72	421 Z4	11 171 74	3 m	MP-421 R	11 171 73
200	MP-440 S	11 171 79	440 Z4	11 171 78	3 m	MP-440 R	11 171 81
300	MP-450 S	11 171 97	450 Z4	11 172 15	2 m	MP-450 R	11 171 85
400	MP-460 S	11 172 00	460 Z4	11 172 16	2 m	MP-460 R	11 171 89
500	MP-470 S	11 172 03	470 Z4	11 172 19	2 m	MP-470 R	11 172 02
600	MP-480 S	11 171 95	480 Z4	11 172 20	2 m	MP-480 R	11 171 94

Cover clip



Acid resist.	E-no
MP-749 R	11 166 61

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

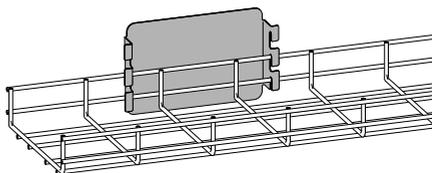
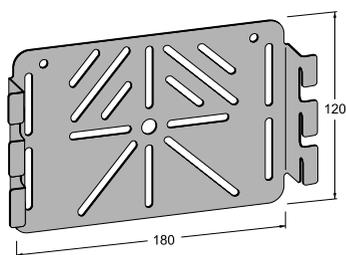
R = Acid resistant

Wire mesh trays

Mounting plate

Mounting plate for fitting boxes and socket outlets, etc.

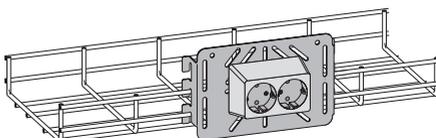
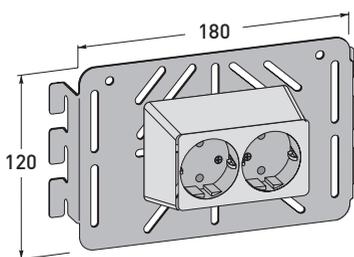
Available with or without hole pattern.



	Zinc 20 µm	E-no	Zinc 60 µm	E-no	Acid resist.	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

Mounting plate + socket outlet IP21

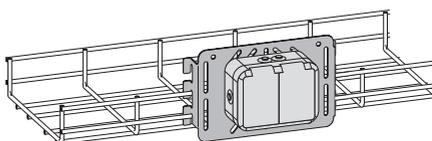
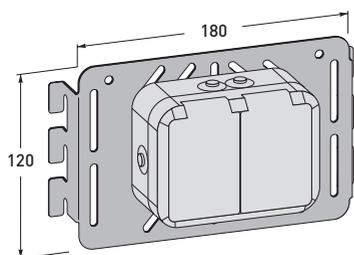
Mounting plate with pre-installed two-way socket outlet IP21 in white halogen-free polycarbonate, tamper resistant with base plate.



Zinc 20 µm	E-no
MP-739 SF	11 166 24

Mounting plate + socket outlet IP55

Mounting plate with pre-installed two-way enclosed socket outlet IP55 in white halogen-free polycarbonate, tamper resistant.



Zinc 20 µm	E-no
MP-739 SG	11 166 25

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

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

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

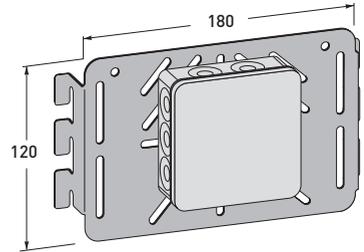
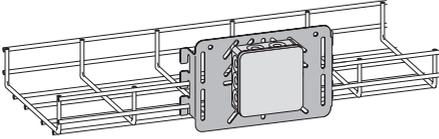
Wire mesh trays

Mounting plate + junction box IP65

Mounting plate with pre-installed junction box IP65 in white halogen-free plastic with ten entries.

Supplied without terminal block.

Suitable strain relief - ABB E14 382 72.

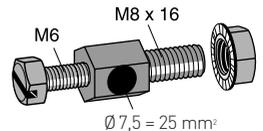
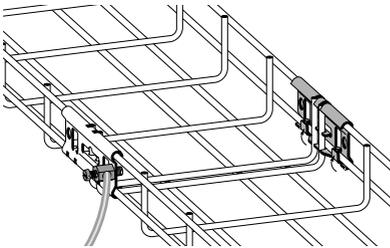


Zinc 20 µm E-no
MP-739 SD 11 166 23

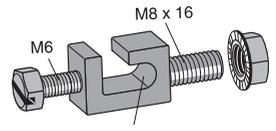
Potential connection screw

Using the potential connection screw you can connect the conductor directly without a cable lug.

10 per package.



MP-839

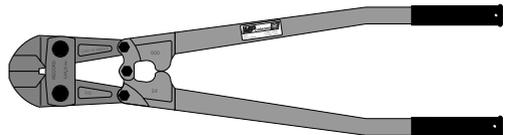


MP-939

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

Cutters

Manual bolt cutters with side cutter.
Designed for cutting wire mesh trays.



Cutters E-no
MP-790 P 16 239 88

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

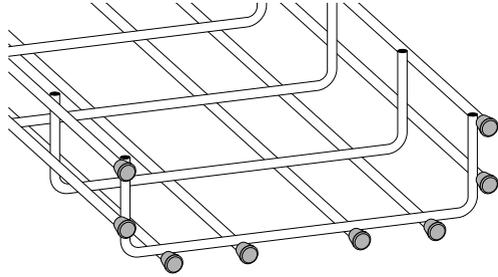
R = Acid resistant

Wire mesh trays

Plastic cap

Fitted as protection on the ends of protruding wires. Made of flame retardant material.

100 per package.

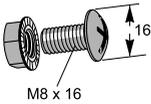


Ø	Fits ladder width	Plastic	E-no
4	55-75 mm (incl. light ladder)	MP-761 P	11 167 03
5	120-300 mm	MP-763 P	11 167 06
6	400-600 mm	MP-765 P	11 167 09

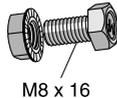
Fastening screw

The fastening screws are NOT supplied with accessories.

50 per package.



MP-937



MP-295

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

Profiles

U-slot profiles

Mounting profiles have revolutionised the use of tied cables on profiles. Through the patented EP 0813012 U-slot hole we have promoted the use of mounting profiles to a new level.

Anchor rails

Anchor rails have internationally accepted dimensions 41x21 mm, 41x41 mm and are thus suitable for a wide range of accessories.

Profiles

Profiles contain the well-known "good-to-have" products that have made us a reputed and established supplier in the electricity industry. Originally, they were used as a substrate for electrical distribution boxes.

Today they are indispensable as universal Meccano profiles, where there are no standard solutions.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



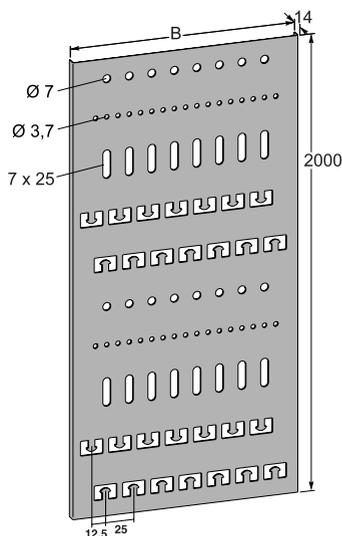
Wall trunkings



E-number, weight, package

Profiles

Assembly profile MP-MK

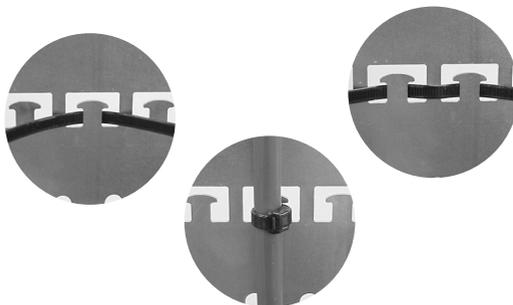


Profile length: 2 000 mm

Plate thickness: 1,25 mm

Module length: 200 mm

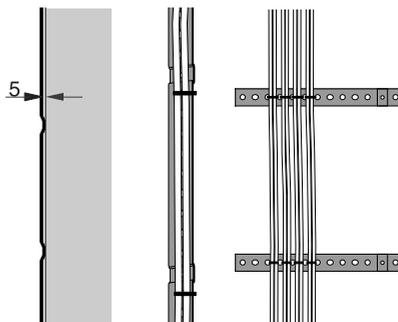
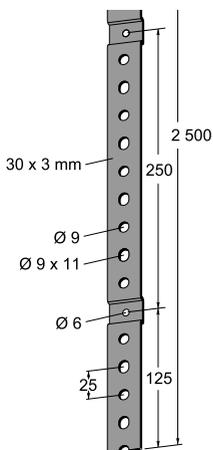
Patented EP 0813012



B	Zinc 20 µm	E-no	Z4	E-no	White	E-no
50	MP-821 S	11 160 26	MP-821 Z4	11 160 25	MP-821 V	11 160 27
75	MP-822 S	11 160 30	MP-822 Z4	11 160 29	MP-822 V	11 160 31
100	MP-823 S	11 160 34	MP-823 Z4	11 160 33	MP-823 V	11 160 35
150	MP-824 S	11 160 38	MP-824 Z4	11 160 37	MP-824 V	11 160 39
200	MP-825 S	11 160 42	MP-825 Z4	11 160 41	MP-825 V	11 160 43
300	MP-826 S	11 160 46	MP-826 Z4	11 160 45	MP-826 V	11 160 47
400	MP-827 S	11 160 50	MP-827 Z4	11 160 49	MP-827 V	11 160 51

Strapping profile

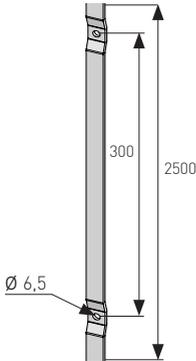
Strapping profile made of hot dip galvanized, designed for tying cable on the wall.



Zinc 60 µm	E-no	Z4	E-no
MP-800 Z	11 160 00	MP-800 Z4	11 160 01

Aluminum strapping profile

Aluminium strapping profile intended for tying cable on the wall. Width 801 A:15 mm, 802 A:25 mm.

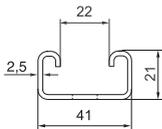
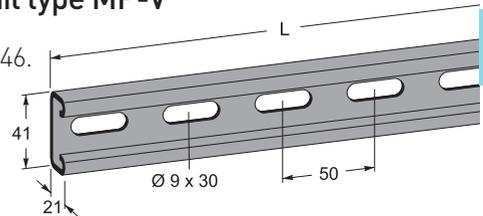


Aluminum	E-no	Aluminum	E-no
MP-801 A	11 160 12	MP-802 A	11 160 13

Anchor rail type MP-V

For fastening in anchor rails – see page 46.

Plate thickness = 2.5 mm.
End protection, see page 34.

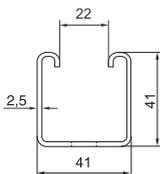
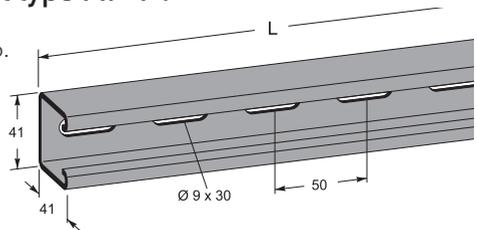


L	Zinc 20 µm	E-no	Zinc 60 µm	E-no
250	MP-024 S	11 158 39	MP-024 Z	11 158 40
375	MP-025 S	11 158 43	MP-025 Z	11 158 44
500	MP-026 S	11 158 47	MP-026 Z	11 158 48
750	MP-027 S	11 158 51	MP-027 Z	11 158 52
1000	MP-028 S	11 158 55	MP-028 Z	11 158 56
3000	MP-231 S	11 158 02	MP-231 Z	11 158 00
6000			MP-231 Z6	11 158 07

Anchor rail type MP-FV

For fastening in anchor rails – see page 46.

Plate thickness = 2.5 mm.
End protection, see page 34.



L	Zinc 20 µm	E-no	Zinc 60 µm	E-no
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
3000	MP-233 S	11 158 05	MP-233 Z	11 158 04
6000			MP-233 Z6	11 158 10

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Profiles

Anchor rail type MP-DV

For fastening in anchor rails – see page 46.

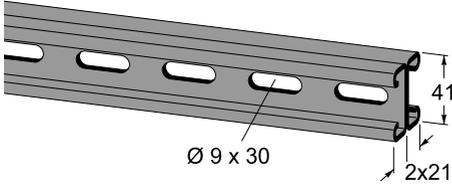
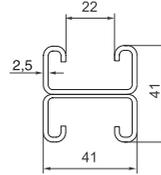


Plate thickness = 2.5 mm.
End protection, see page 34.



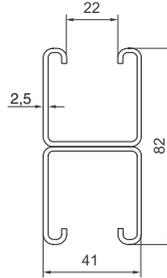
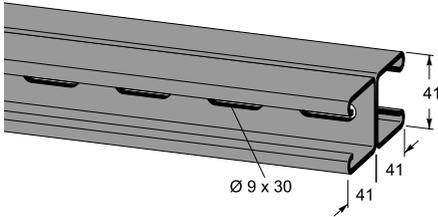
L	Zinc 60 µm	E-no
3000	MP-237 Z	11 158 08

Double anchor rail type MP-FDV

Double anchor rail in hot dip galvanized design with 2.5mm thickness.

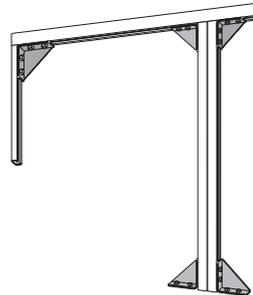
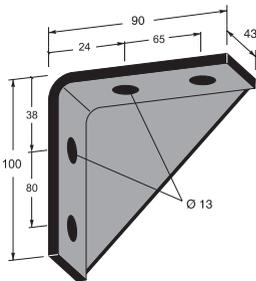
For fastening in anchor rails – see page 46.

Plate thickness = 2.5 mm. 6 metre lengths on order).



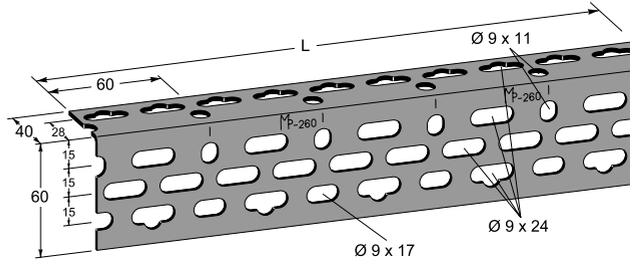
L	Zinc 60 µm	E-no
3000	MP-238 Z	11 158 12

Corner bar



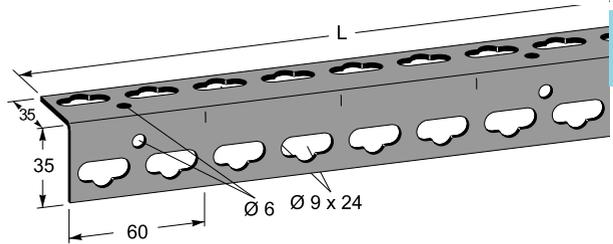
Zinc 60 µm	E-no
MP-245 Z	11 158 28

Angle profile



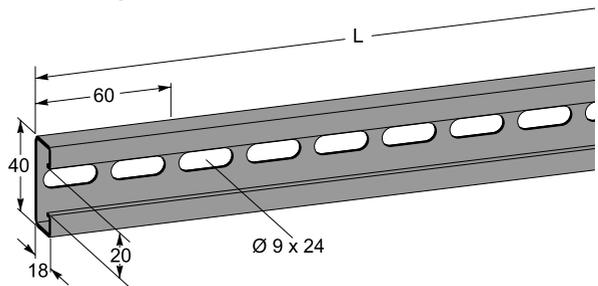
L m	AZ 150	E-no	White	E-no	Beige	E-no	Zinc 60 μ m	E-no
0,3	MP-991 A	15 094 60	MP-991 V	15 094 61				
1,5	MP-992 A	15 094 62	MP-992 V	15 094 63				
3,0	MP-260 A	26 844 42	MP-260 V	15 094 65	MP-260 B	26 844 43	MP-260 Z	26 844 44

Angle profile



L m	AZ 150	E-no	White	E-no	Beige	E-no	Zinc 60 μ m	E-no
0,3	MP-993 A	15 094 70	MP-993 V	15 094 71				
1,5	MP-994 A	15 094 72	MP-994 V	15 094 73				
3,0	MP-262 A	26 844 12	MP-262 V	15 094 75	MP-262 B	26 844 13	MP-262 Z	26 844 14

Box profile



L m	AZ 150	E-no	White	E-no	Beige	E-no	Zinc 60 μ m	E-no
0,3	MP-997 A	15 094 76	MP-997 V	15 094 77				
1,5	MP-998 A	15 094 78	MP-998 V	15 094 79				
3,0	MP-265 A	26 842 12	MP-265 V	15 094 81	MP-265 B	26 842 13	MP-265 Z	26 842 14

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

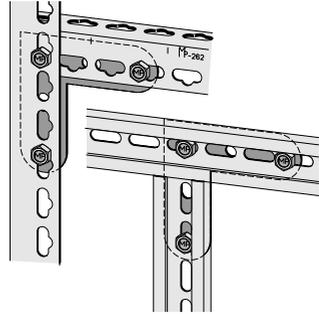
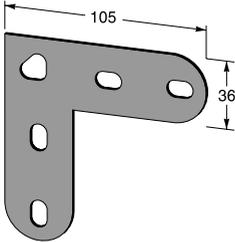
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

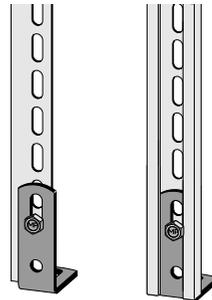
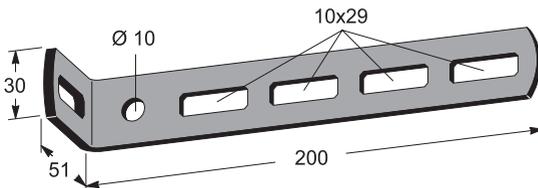
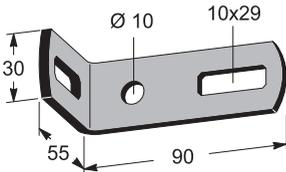
Profiles

Corner brace



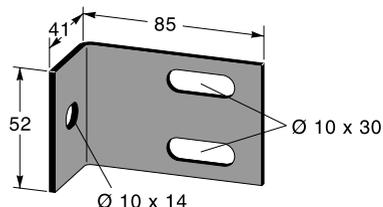
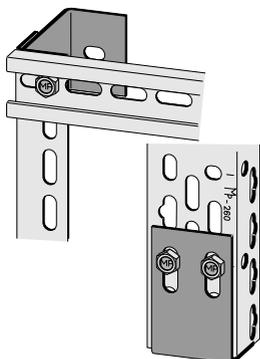
Zinc 60 µm	E-no	Beige	E-no
MP-281 Z	26 846 65	MP-281 B	26 846 63

Wall/floor bracket



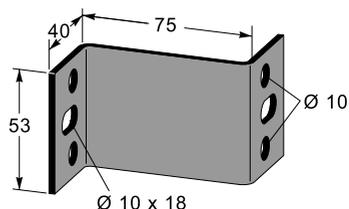
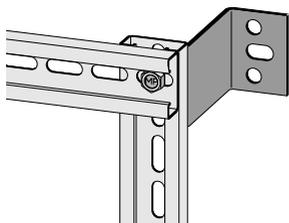
Zinc 60 µm	E-no	Beige	E-no
MP-282 Z	26 846 15	MP-282 B	26 846 13
MP-901 Z	11 153 81	MP-901 B	

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

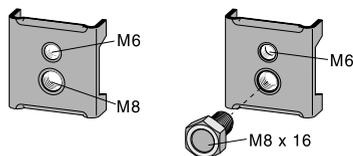
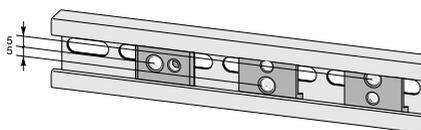


Zinc 60 µm	E-no	Beige	E-no
MP-284 Z	26 842 59	MP-284 B	26 842 58

Mutterbricka

Nut washer is slid from the end of the box profile. Depending on how the washer is turned, three different levels at 5 mm increments can be obtained for each thread.

MP-999 E: 10 per package.



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	

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

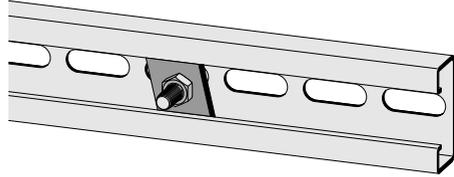
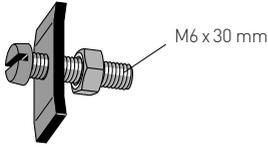
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

Anchor bolt M6

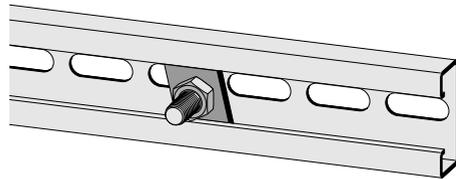
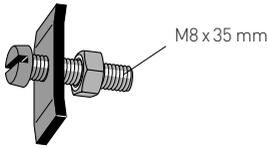
The anchor bolt is set in the opening on MP-265 and rotated anticlockwise and in doing so the bolt head locks against the back of the profile.



Zinc 10 µm E-no
MP-286 E 26 842 53

Anchor bolt M8

The anchor bolt is set in the opening on MP-265 and rotated anticlockwise and in doing so the bolt head locks against the back of the profile.



Zinc 10 µm E-no
MP-288 E 26 842 51

Cold zinc

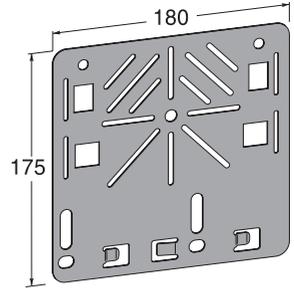
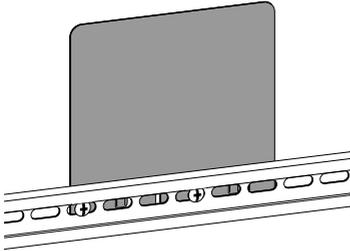
Cold zinc intended for use on unprotected cut surfaces on cut galvanized profiles in corrosive environments.



Zinc 60 µm E-no
MP-235 Z 26 848 19

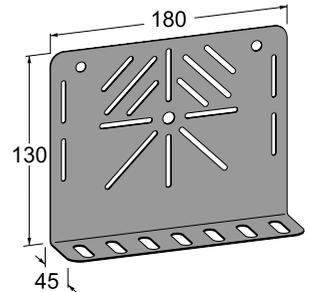
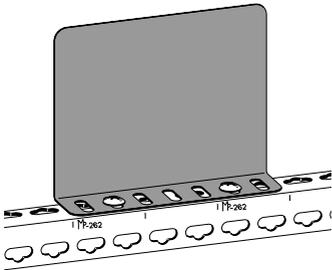
Mounting plate straight

Screwed on angle and box profiles. The tongues are turned out from the profile when fitted on angle and box profiles.



Type	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 plate angled

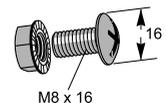


Type	Zinc 20 µm	E-no	Beige	E-no
Unperf.	MP-298 S	26 847 35	MP-298 B	26 847 33
Perf.	MP-299 S	26 847 39	MP-299 B	26 847 37

Fastening screw

The fastening screws are not supplied with accessories.

50 per package.



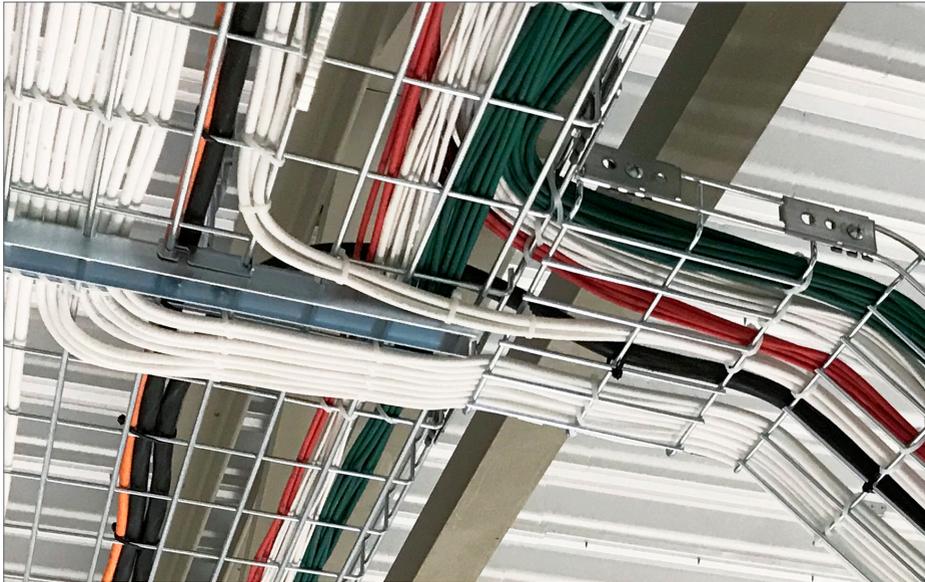
Zinc 10 µm	E-no	Zinc 60 µm	E-no
MP-937 E	11 157 11	MP-937 Z	11 156 80

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant



MP WIRE MESH TRAYS

Quick, easy installation!



MPbolagen

19" rack

19" racks are a number of racks with two standards in the same rack. Data on one side, according to SS IEC 297 with holes for cage nuts M6.

Telecom on the other side, according to g:a SEN R 430115, with holes 6.5x31.75 mm for M6 screws.

The frames are available with several wall distances.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/lumin-
aire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings

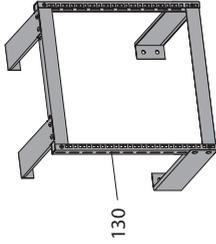
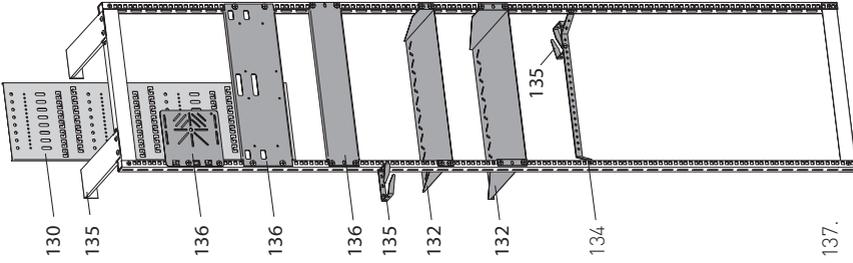


E-number, weight, package

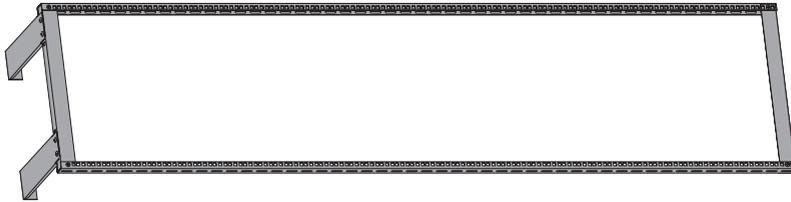
19" rack

19" rack

Numbers denote page number.



Fastening screw, see page 137.



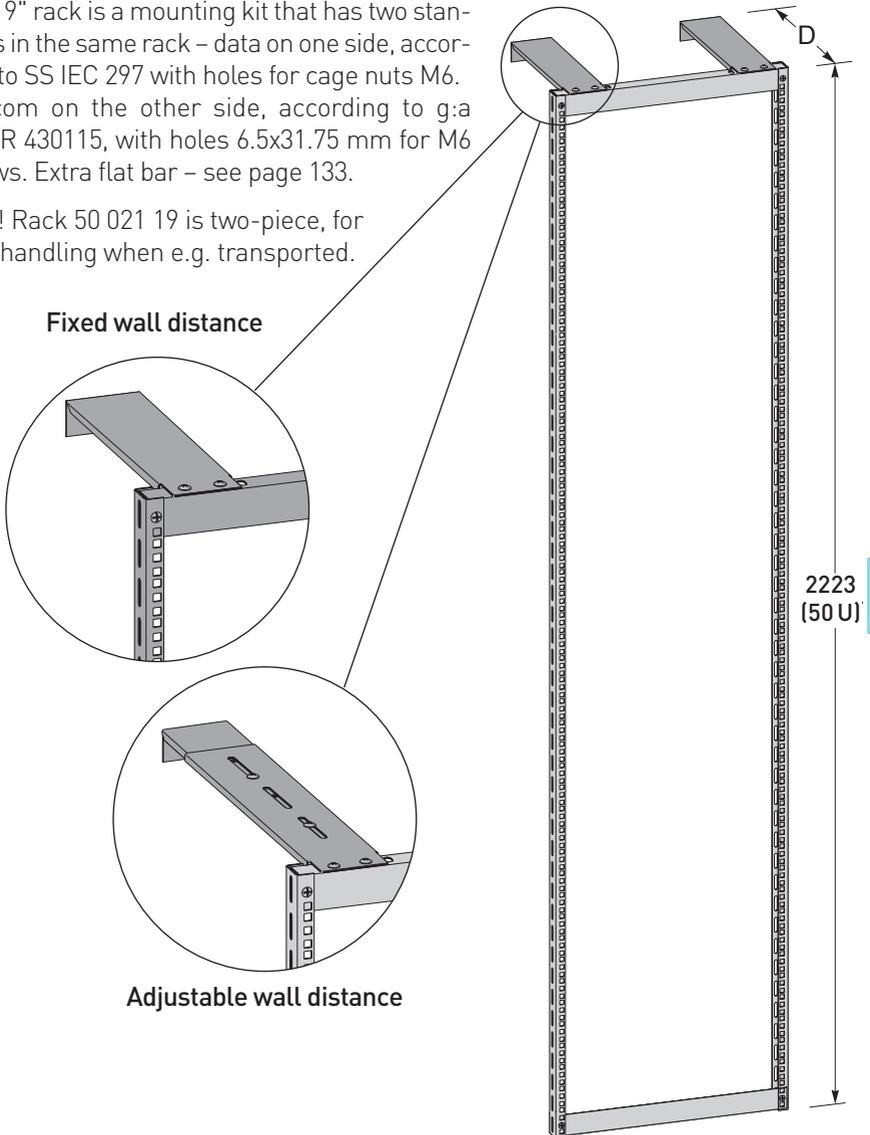
19" rack

Numbers denote page number.

19" rack

MP-19" rack is a mounting kit that has two standards in the same rack – data on one side, according to SS IEC 297 with holes for cage nuts M6. Telecom on the other side, according to g:a SEN R 430115, with holes 6.5x31.75 mm for M6 screws. Extra flat bar – see page 133.

Note! Rack 50 021 19 is two-piece, for easy handling when e.g. transported.



Depth mm	Zinc 10 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
350-600	MP-852 E	50 021 23	MP-852 V	50 021 24
350-600 – dividable	MP-861 E	50 021 19	–	–

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

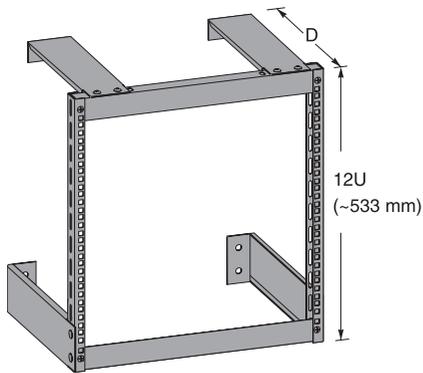
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

19" rack

Wall rack 19"

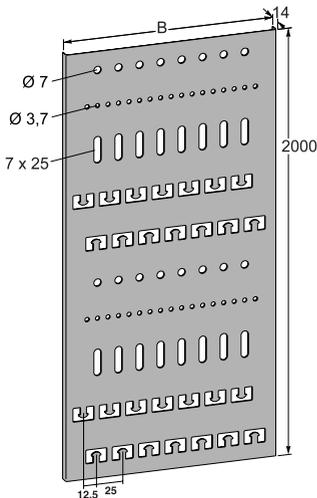


MP-19" rack is a mounting kit that has two standards in the same rack – data on one side, according to SS IEC 297 with holes for cage nuts M6.

Telecom on the other side, according to g:a SEN R 430115, with holes 6.5x31.75 mm for M6 screws.

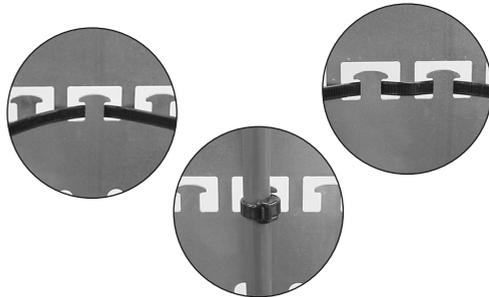
D	Zinc 20 µm	E-no	White	E-no
270	MP-845 E	50 021 45	MP-845 V	50 021 46
350	MP-846 E	50 021 48	MP-846 V	50 021 49

Assembly profile MP-MK



Profile length: 2 000 mm.
 Plate thickness: 1,25 mm.
 Module length: 200 mm.

Patented EP 0813012 Available on request finished in any colour.



B	Zinc 20 µm	E-no	Z4	E-no	White	E-no
50	MP-821 S	11 160 26	MP-821 Z4	11 160 25	MP-821 V	11 160 27
75	MP-822 S	11 160 30	MP-822 Z4	11 160 29	MP-822 V	11 160 31
100	MP-823 S	11 160 34	MP-823 Z4	11 160 33	MP-823 V	11 160 35
150	MP-824 S	11 160 38	MP-824 Z4	11 160 37	MP-824 V	11 160 39
200	MP-825 S	11 160 42	MP-825 Z4	11 160 41	MP-825 V	11 160 43
300	MP-826 S	11 160 46	MP-826 Z4	11 160 45	MP-826 V	11 160 47
400	MP-827 S	11 160 50	MP-827 Z4	11 160 49	MP-827 V	11 160 51

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

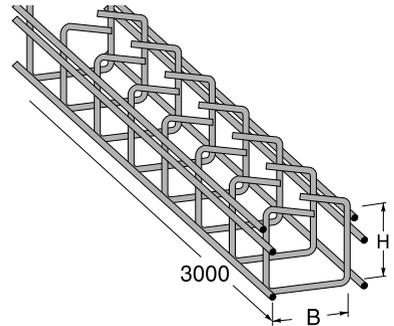
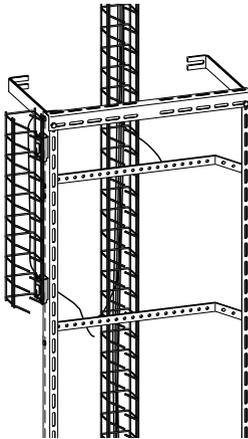
E = Electrogalv. 10 µm
 S = Zinc 20 µm
 Z = Zinc SS-EN ISO1461

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

Wire mesh tray with lock

Wire mesh tray with lock is equivalent to channel with cover.

The wire mesh tray can be easily secure to the rack or directly to the wall with wall bracket MP-775 R - 779 R

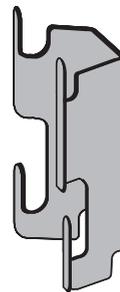
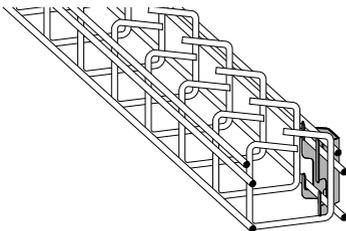


B	H	Zinc 10 µm	E-no
25	25	MP-771 E	50 021 50
50	50	MP-772 E	50 021 51
75	75	MP-773 E	50 021 52

Wall bracket for wire mesh tray

Wall bracket for fastening wire mesh trays MP 771 - MP 773 against the wall or rack.

NOTE different designs for vertical or horizontal installation.



B	Horizontal Acid resist.	E-no	Vertical Acid resist.	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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

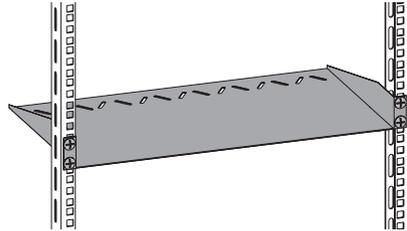
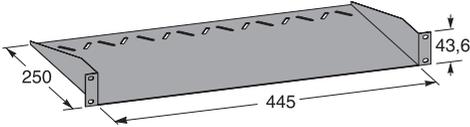
R = Acid resistant

19" rack

Shelf 1U

The shelf can be used in any standard 19" rack. Installed in front of the rack's hole system using cage nut MP-878 E, see page 137.

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

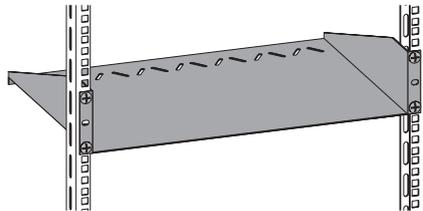
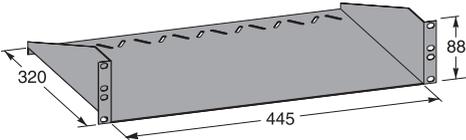


Zinc 20 µm	E-no	White	E-no
MP-887 S	50 020 31	MP-887 V	50 020 32

Shelf 2U

The shelf can be used in any standard 19" rack. Installed in front of the rack's hole system using cage nut MP-878 E, see page 137.

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



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

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

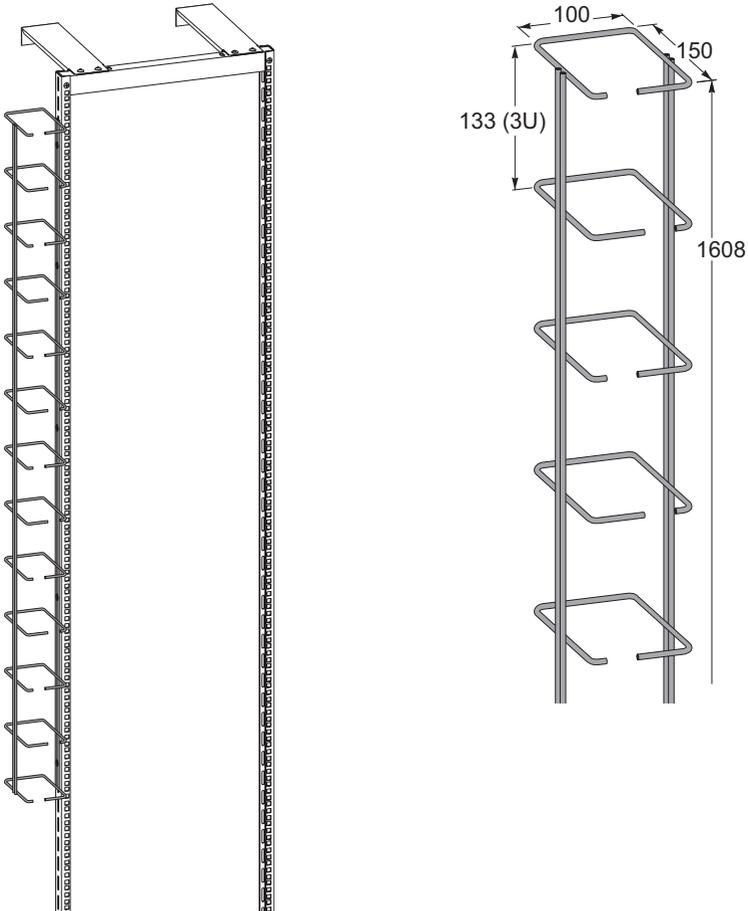
E = Electrogalv.	10 µm	A = Aluzinc	20 µm (AZ 150)
S = Zinc	20 µm	Z4 = Zinc/mag.	25 µm (ZM 310)
Z = Zinc	SS-EN ISO1461		

Wire guide 1.6 m

Wire guide for installation on the side of the 19" rack with E-no: 5002123–24 and 5002130–35, see page 129.

Screw E-no: 5002158.

The distance between each wire guide is 3U (~133 mm), a total of 13 wire guides.



Zinc 10 µm

E-no

MP-872 E

50 021 16

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

V = White
B = Beige
SV = Black

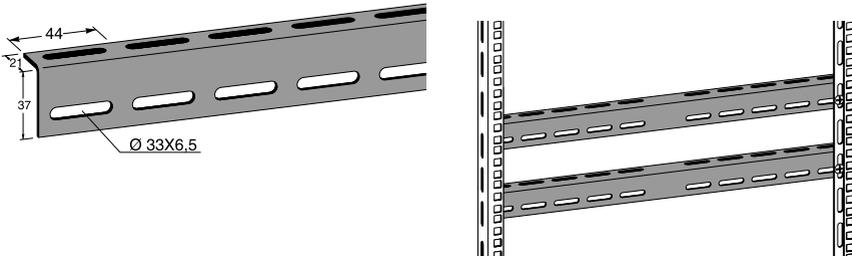
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

19" rack

Mounting rail

For the installation of transformers, enclosures and the like in the rack. Material thickness is 2.0 mm, length 485 mm.



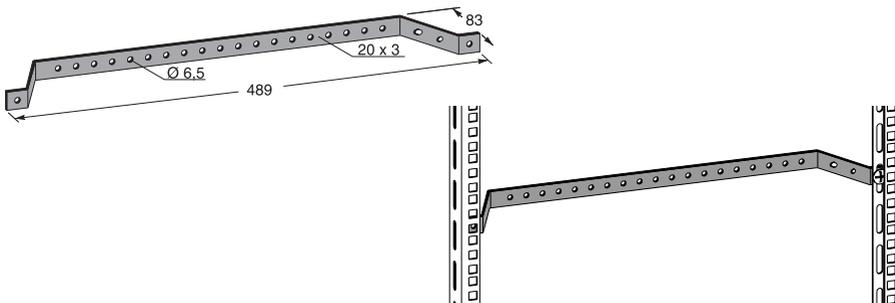
AZ 150	E-no	White	E-no
MP-851 A	50 020 53	MP-851 V	50 020 55

Cable support

The cable support is mounted on the rear of the rack to support cables to each terminal block row or level.

There are holes on the cable support to mount wire guide MP-869 or cable ties.

Installed with screw MP-855 E, see page 137.

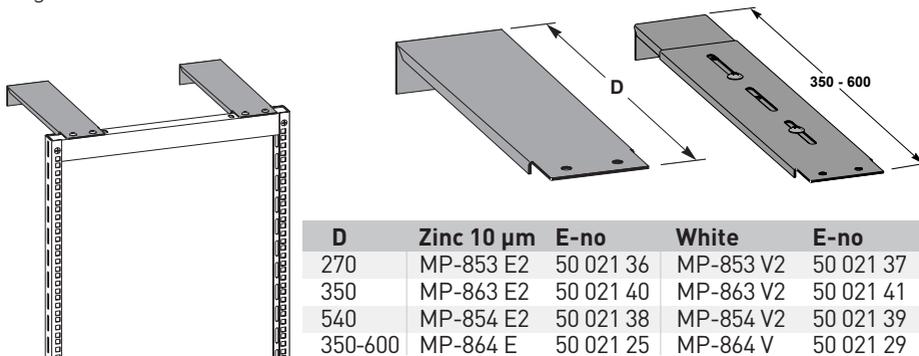


Zinc 10 µm	E-no	White	E-no
MP-868 E2	50 020 86	MP-868 V2	50 020 82

134	The letter in the MP No.denotes the surface finish according to: (also see page 4)	E = Electrogalv. 10 µm	A = Aluzinc 20 µm (AZ 150)
		S = Zinc 20 µm	Z4 = Zinc/mag. 25 µm (ZM 310)
		Z = Zinc SS-EN ISO1461	

Flat bar

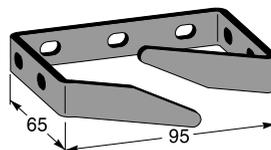
The flat bar is intended for securing the rack up at the top of the wall. Or as a support for larger loads. Two flat bars/rack.



Wire guide bracket

Wire guide is used to hold the wire bundle together and is very universally installable on cable supports or uprights.

Tip! For several parallel racks, the wire guides can be used to interconnect the racks and provide a common "downward channel".



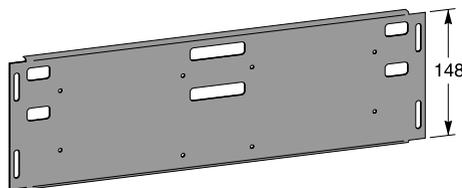
Zinc 10 µm	E-no	White	E-no
MP-869 E	50 020 43	MP-869 V	50 020 45

Mounting plate

Mounting plate used for the AT and T-terminals 110 DW 1-100 and fixing plate 110 B1.

The plate has space for two terminal blocks and two jumpers.

These are installed with sheet-metal screw B10.



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

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

V = White
B = Beige
SV = Black

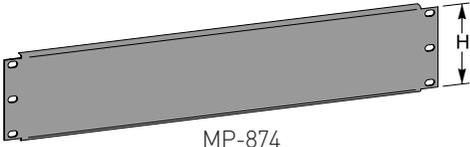
RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

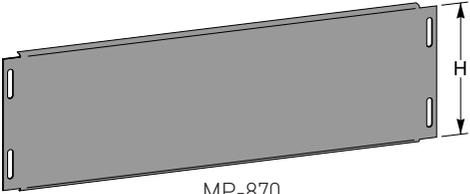
19" rack

Blind plate

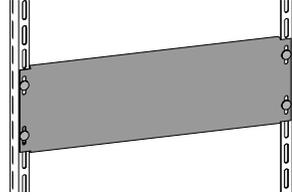
Mounting plate where you drill the holes and mount the parts you want.



MP-874
MP-876



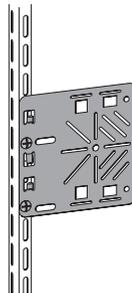
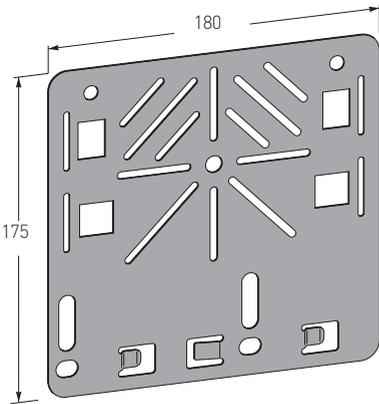
MP-870



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

Mounting plate straight

The mounting plate is available in unperforated and perforated versions. This mounting plate is used when installing smaller units that do not require a 19" plate, e.g. wall sockets.



Type	Zinc 10 µm	E-no	White	E-no
Unperf.	MP-110 S	11 155 75	MP-110 V	11 155 76
Perf.	MP-112 S	11 155 79	MP-112 V	11 155 80

136

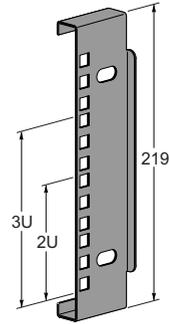
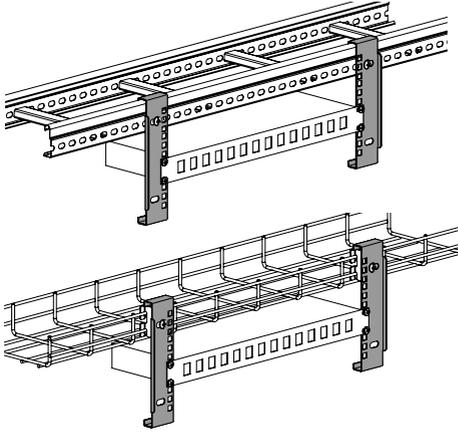
The letter in the MP No. denotes the surface finish according to: (also see page 4)

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

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

Panel bracket

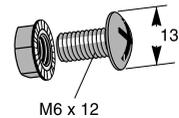
Bracket for the installation of 19" panels. Holds 3U under cable ladders and 2U under wire mesh trays. When installed on wire mesh trays supplement the bracket with Wall bracket mini (MP-734), see page 102.



Zinc 20 µm	E-no
MP-873 S	50 021 17

Screw with nut

20 or 100 per package.



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

Cage nut M6

Cage nut M6 with screw M6 x12 mm, for securing in the square holes on the side profile.

20 per package.



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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

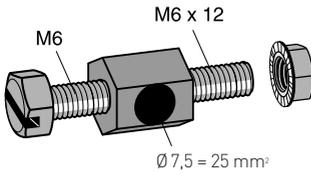
R = Acid resistant

19" rack

Potential connection screw

Screw for simple potential connections with a hole where you connect the conductor directly without cable lugs.

10 per package.



Zinc 10 µm	E-no
MP-842 E	11 157 87



Potential connection screw!
Read more on page 142

Potential connection

is a system for potential connections, particularly suitable in situations where you can not/may not make a direct connection in e.g. a pipe under pressure. The system consists of a pair of pliers and a roll of strapping (10 m). The pliers are used to punch mounting holes and at the same time the right length of the strap - thus no need to think about having different strap lengths for different pipe sizes.

Here are screws for connecting both single and double potential conductors internally in our system and to other equipment.

Equipotential bonding rail also complements the system.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



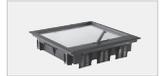
Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings

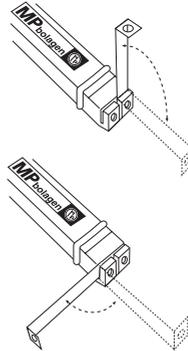
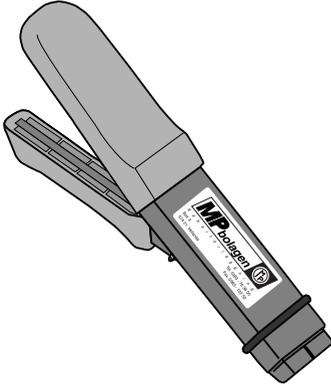


E-number, weight, package

Potential connection

Punch/bending pliers

Pliers designed for both punching holes at the same time as cutting the strap. 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

Strap 10x0.5 mm

Steel strap 10x0.5 mm with rounded edges. Tensile strength 600N/mm² ± 100 N. The strap (10 m) is rolled up on a plastic cassette where the end is hidden in the cassette so as not to catch on surrounding objects.

Note! When connecting around untreated pipes use aluzinc strap.



AZ 150	E-no	Stainless	E-no
MP-831 A	15 220 39	MP-831 R	15 220 40

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

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

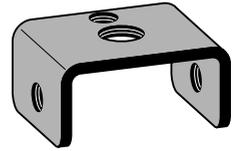
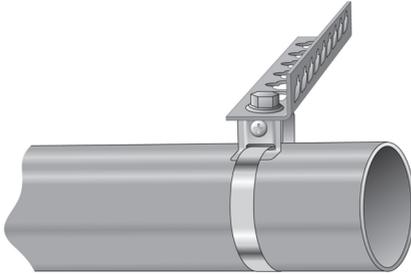
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Potential connection

Strap

The fastening clamp is equipped with M5 threads on the sides as well as M8 and M5 on the top for fastening tubes. Bolt not included.

10 per package.

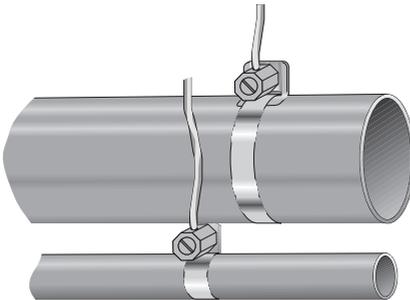


AZ 150	E-no	Stainless	E-no
MP-832 A	15 220 44	MP-832 R	15 220 42

Reinforcement angles

The angle brackets provide a powerful clamp around the object you wish to connect. Should be used whenever possible.

100 per package.



AZ 150	E-no	Stainless	E-no
MP-833 A	15 220 45	MP-833 R	15 220 43

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

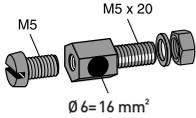
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

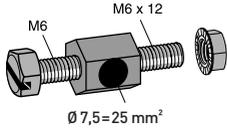
R = Acid resistant

Potential connection

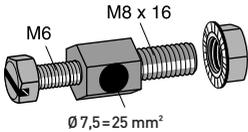
Potential connection screw



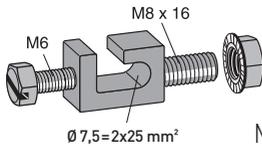
MP-838



MP-842



MP-839



MP-939

The small screws (M5x20) are primarily intended to be used with our potential connection strap when wrapped around metal objects in all forms. The screw has a dual function, as well as the tightening screw on the strap (M5x20 mm) also to connect the potential conductor - max. 16 mm² in the Ø6 mm hole.

10 per package.

M6x12 and M8x16 fit most holes in our products, making it easy to potential connect all our parts.

The hole for the potential conductor (Ø7.5 mm) permits connections of up to 25 mm² conductors.

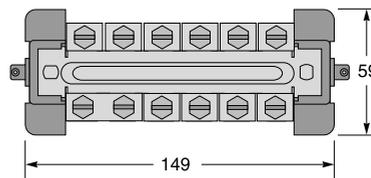
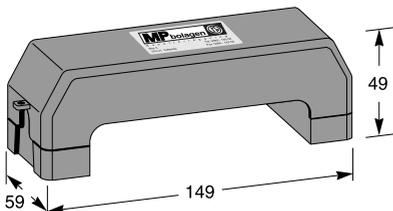
10 per package.

Dim	Zinc 10 µm	E-no	Stainless	E-no
M5x20			MP-838 R	15 144 94
M8x16	MP-839 E	11 157 88	MP-839 R	11 157 89
M6x12	MP-842 E	11 157 87		
M8x16	MP-939 E	11 157 83	MP-939 R	11 157 85

Equipotential bonding rail

Equipotential bonding rail with sealable plastic hood. Nine loose add-on terminal blocks for connecting round conductors with an area of 2.5 mm² - 95 mm² on the cam-shaped contact rail.

In addition, a steel strap of 4 x 30 mm is connected with double terminal blocks. Height=49 mm.



Zinc 10 µm	E-no
MP-841 E	06 819 02

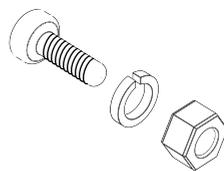
Potential connection

Screw with spring washer and nut

Screw with spring washer and nut in acid resistant grade A4.

Note! Spring washer must always be used on potential connections.

50 per package.

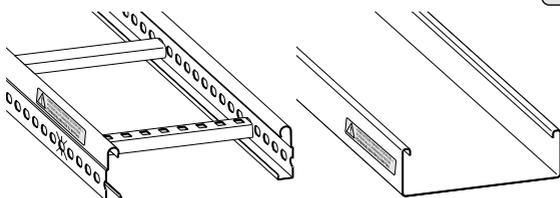


Dim	Stainless	E-no
M5 x 12	MP-834 R	15 144 90
M5 x 25	MP-835 R	15 144 91

Potential marking

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

100 labels/roll (package).



Label	E-no
MP-837 F	11 167 15

Basic set equipotential bonding

Contents::

- 1 pcs. Punch/bending pliers.... 16 058 90
- 1 pcs. Stainless steel strap 15 220 40
- 1 pcs. Aluzinc strap..... 15 220 39
- 1 set Clamp – stainless..... 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 M5x 12..... 15 144 90
- 1 set Screw M5x 25..... 15 144 91

Supplied in black tool bag.



Case	E-no
MP-840 F	06 819 00

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

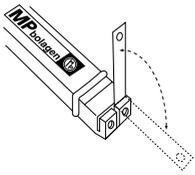
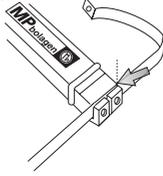
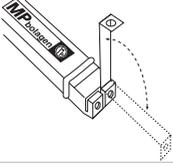
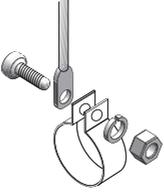
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

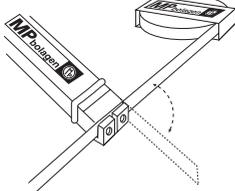
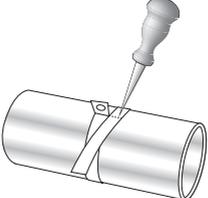
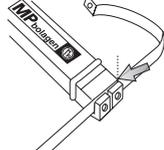
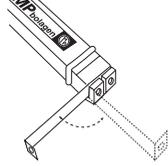
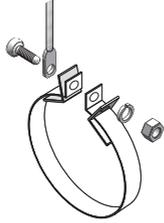
R = Acid resistant

Potential connection

Installation instructions without angle bracket

<p>Cut the strap in a raw length. Bend one angle as shown in the fig.</p> <p>1</p> 	<p>Measure the exact length around the object, make a scribe mark 5 mm shorter than the circumference.</p> <p>2</p> 	<p>Place the strap in the pliers with the scribe mark flush with the cutting head. Cut off the strap.</p> <p>3</p> 
<p>Bend the other angle as shown in the fig. Shape the strap around the object. There must be a gap of 1-2 mm between the angles of a sound joint.</p> <p>4</p> 	<p>Screw together the joint with the contact connection on the outside of one bend.</p> <p>5</p> 	

Installation instructions with angle bracket

<p>Cut the strap in a raw length. Bend one angle as shown in the fig.</p> <p>1</p> 	<p>Measure the exact length around the object, make a scribe mark at the bent angle.</p> <p>2</p> 	<p>Place the strap in the pliers with the scribe mark flush with the cutting head. Cut off the strap. Hold the pliers in the depressed position.</p> <p>3</p> 
<p>Bend the other angle as shown in the fig. Shape the strap around the object. There must be a gap of 1-2 mm between the angles of a sound joint.</p> <p>4</p> 	<p>Screw together the joint with the contact connection on the outside of one bend.</p> <p>5</p> 	

Cable clamps

Pohl cable clamps are considered to be the original cable clamp.

Here are clamps for different mounting purposes including anchor rails, cable ladders and telecom masts etc.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



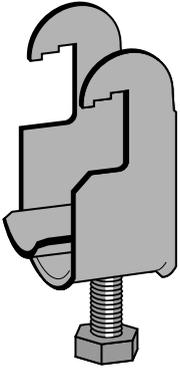
Wall trunkings



E-number, weight, package

Cable clamps

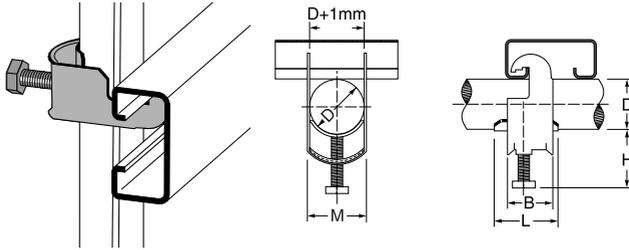
Universal model ACU



Cable clamp primarily designed for anchor rails, but also suitable on flat steel bars, U- and C-profiles, etc. as well as on the rungs of cable ladder type MP-S. Cable clamp type ACU-VA is manufactured of non-magnetic stainless steel grade 1.4301 (SS2333).

Cable clamps in other sizes are available on request.

Tip! Mount the cable clamp with the opening facing upwards on a horizontal anchor rail.



— = order item

No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless	E-no	Tight. mom	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	20
1	12-16	K 16 ACU	15 246 06	K 16 ACU-VA	15 249 32	2 Nm	20	28	28	20
1	16-20	K 20 ACU	15 246 10	K 20 ACU-VA	15 249 34	2 Nm	24	28	28	20
1	20-24	K 24 ACU	15 246 14	K 24 ACU-VA	15 249 36	2 Nm	28	28	28	20
1	24-28	K 28 ACU	15 246 18	K 28 ACU-VA	15 249 38	2 Nm	32	28	28	20
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	—	—	—	2 Nm	32	36	28	25

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

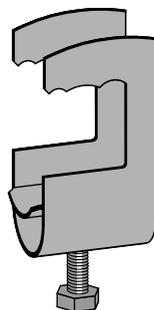
E = Electrogalv. 10 µm
S = Zinc 20 µm
Z = Zinc SS-EN ISO1461

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

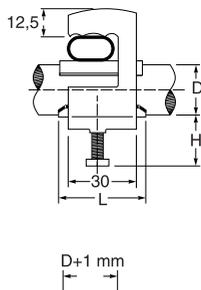
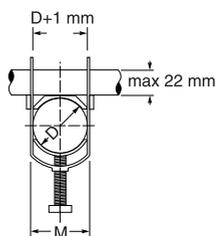
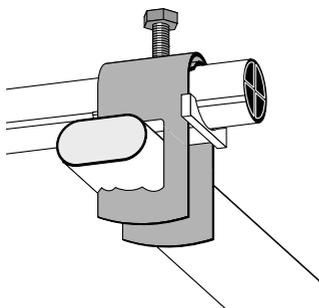
Universal model RU

Cable clamp RU is designed to fit most cable trays available on the market. The cable clamp is also suitable for mounting on flat surfaces such as flat steel bars, etc. RU is always supplied complete with spacer type GW, to give the cable an even and large contact surface against the support.

Cable clamp type RU-VA is manufactured of non-magnetic stainless steel grade 1.4301 [SS2333].



Cable clamps in other sizes are available on request.



— = order item

No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless	E-no	Tight. mom	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	—	—	—	4 Nm	49	40	33
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

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

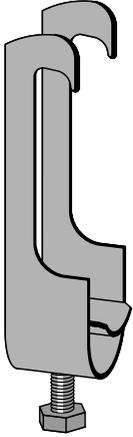
V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant

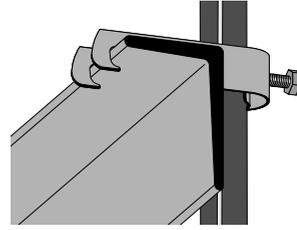
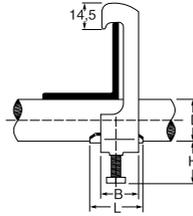
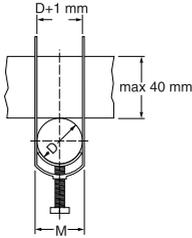
Cable clamps

Model S



Cable clamp for angle brackets or U-bars mm with a flange height of 40 mm. Cable clamp type S-VA is manufactured of non-magnetic stainless steel grade 1.4301 (SS2333).

Cable clamps in other sizes are available on request.



— = order item

No. of cables	Cable Ø	Zinc 60 µm	E-no	Stainless	E-no	Tight. mom	Tight.			
							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	—	—	—	4 Nm	49	36	33	25
2	44-48	K 48/2 S	—	—	—	4 Nm	53	36	33	25
2	48-52	K 52/2 S	15 245 43	—	—	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

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

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

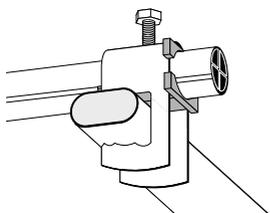
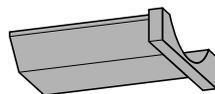
A = Aluzinc 20 µm (AZ 150)
Z4 = Zinc/mag. 25 µm (ZM 310)

Basic spacer type GW

Manufactured of impact-resistant and climate resistant polyethylene plastic. Used to distribute the pressure between the cable and support.

An insulated cable mounting is obtained with spacers both above and below the cable.

Note! One GW spacer is supplied with each cable clamp type RU.

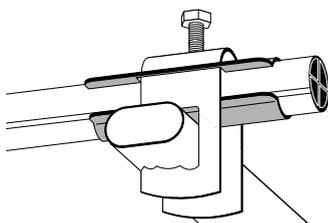


Dim	Plastic	E-no
9-12	GW 10-12	15 247 00
13-16	GW 14-16	15 247 02
17-20	GW 18-20	15 247 04
21-24	GW 22-24	15 247 06
25-28	GW 26-28	15 247 08
29-32	GW 30-32	15 247 10
33-36	GW 34-36	15 247 12
37-40	GW 38-40	15 247 14
41-48	GW 44-48	15 247 16
49-56	GW 52-56	15 247 18
57-64	GW 60-64	15 247 20
65-70	GW 70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

Long spacer type LW

On account of the longer contact surface, LW is intended for extra pressure sensitive cable

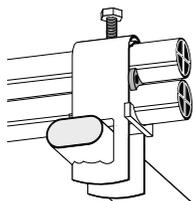
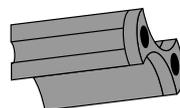
Normally used in pairs above and below the cable. Can also be used as a double spacer for several cables in the same cable clamp.



Dim	Zinc 60 µm	E-no	Stainless	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 spacer type DW

Manufactured of impact-resistant and climate resistant polyethylene plastic. 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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

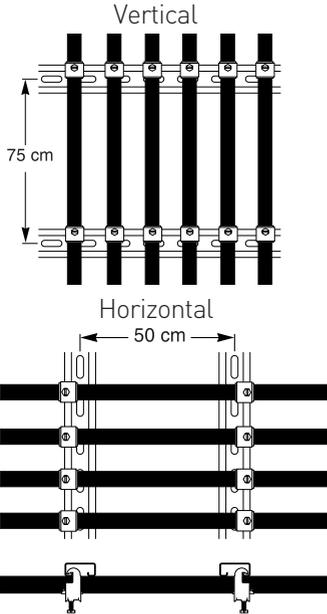
R = Acid resistant

Cable clamps

Installation instructions for Pohl clamps

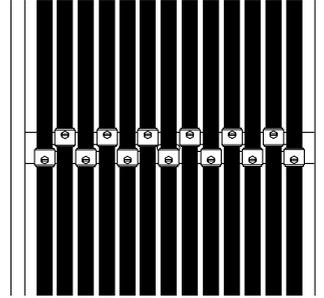
Cable fastening

Rekommenderat infästningsavstånd av kablar i Pohl-kabelhållare.



For horizontal installation, fastening will be more secure if you turn every other cable clamp.

Cable ladder installation



In order to prevent rotation of the rungs when installing a cable ladder, the cable clamps are fitted on both sides of the rung as shown in the figure.

Co-routing single conductors or low voltage cables

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

Outer cable Ø in mm.	3 cables	4 cables	5 cables	6 cables	Outer cable Ø in mm.	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					

Metal roof bracket

Metal roof bracket providing a unique opportunity to mount in sheet metal. The bracket is adjustable for different widths between troughs. It can be used for flat metal roofs and wall mounting. Fastened using sheet metal screws or pop rivets on trough's upended - strongest part of the sheet metal.

The metal roof bracket can be used with or without MP profiles. All the construction industry's installation groups are given a unique opportunity, thanks to flexibility of the bracket.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



**Ceiling brackets
concrete screws**



Service poles/posts



Floor boxes



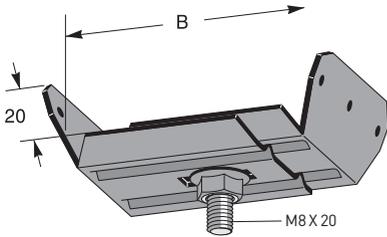
Wall trunkings



E-number, weight, package

Metal roof bracket

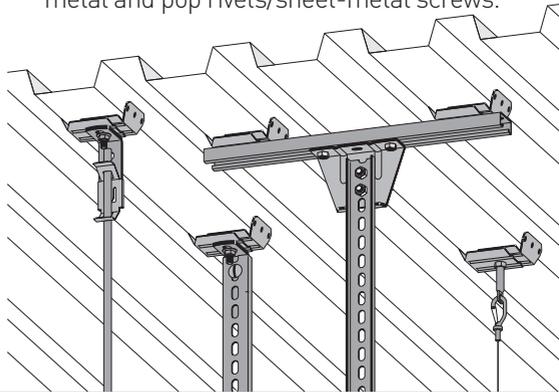
Universal bracket for trapezoidal sheet-metal



Bracket for trapezoidal sheet-metal suitable for trough bottom width B. When divided and in combination with a flat bar the anchor is suitable for all trough bottoms. The angle bracket has three holes \varnothing 4.3 mm, designed for 4 mm pop rivets or sheet metal screws ST4.2 (B8).

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

In order to obtain the bracket's maximum load, consult the supplier's load values for roofing metal and pop rivets/sheet-metal screws.

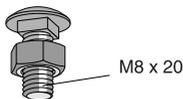


B	Zinc 20 μ m	E-no	Zinc 60 μ m	E-no	White	E-no
40 - 60	MP-980 S	15 094 52	MP-980 Z	15 094 54	MP-980 V	15 094 53
60 - 95	MP-981 S	15 094 56	MP-981 Z	15 094 55	MP-981 V	15 094 57
95 - 150	MP-982 S	15 094 50	MP-982 Z	15 094 49	MP-982 V	15 094 51

Bolt and nut

When Universal bracket MP-980 and MP-982 are installed divided, the bracket should be supplemented with 1 bolt and nut MP 990 per bracket.

10 per set (package).



Zinc 10 μ m	E-no
MP-990 E	15 094 58

Concrete screw Multi-Monti

Multi-Monti is a concept with innovative and smart concrete screws. We have included the range as they naturally complement our other products.

Some of the advantages offered by Multi-Monti:

- Small drill holes, a 7.5 mm screw requires a \varnothing 6 mm drill hole, this corresponds to an M8 expander bolt with a \varnothing 8 mm drill hole. The same pull-out force is obtained at a set depth of 35 mm.
- Saw teeth, the screw tips are equipped with saw teeth. The screws "tap" into the substrate, thus there is no expansion pressure and you can anchor closer to the edges. Also ideal in bricks, which is normally difficult to attach anchor in.
- Type approval signifies that you can always rely on the screw quality.
- Removable, the screw can be removed simply by unscrewing it.
- Reusable, dismantled screws can be used again.

The above added value gives a time benefit of up to 50% per fastening.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaires rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

Concrete screw

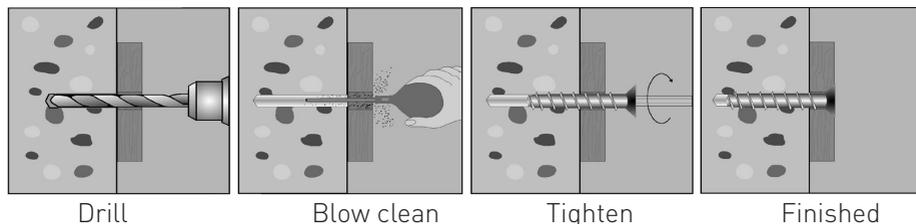
Multi-Monti concrete screws

Multi-Monti is a concept with innovative and smart concrete screws, which naturally complement our other products.

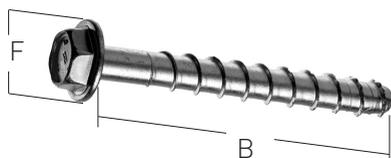
The following max. loads apply for uncracked concrete K 25 with safety factor 3. For concrete F 20 calculate 75% of the maximum loads.

Screw-size	Max tensile load	Max axial load	Drill-hole	Drill-depth	Min edge distance	Spanner-size
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

Install like this



Concrete screw with flange



B	F	Pack.	Zinc 10 µm	E-no	Zinc 60 µm	E-no
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	50 pcs.	MP-891 E	15 566 22	MP-891 Z	15 566 23
10 x 70	19,0	50 pcs.	MP-892 E	15 566 24	MP-892 Z	15 566 25

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

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

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

Ceiling bracket for threaded rod

Concrete screw, screwed directly into the substrate. Threaded rod screwed into the sleeve "nut hole". Both M10 and M8 rod can be threaded into the bracket. Spanner size: 13 mm.



B	Pack.	Zinc 10 µm	E-no
7,5x55	40 pcs.	MP-023 E	11 175 50

Lightweight concrete screw 8x100 mm

Screw for installation in lightweight concrete. Yellow chromated with round head, Torx TX 40, see page 152.

Supplied with washer Ø18 mm.

Screwed directly into lightweight concrete, Leca blocks or the like without pre-drilling. Pull-out value > 2 kN.

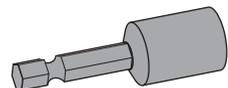


10 per package.

Zinc 10 µm	E-no
MP-889 E10	15 566 36

Magnetic socket for 10/13 mm

Magnetic socket made of carbon steel with 1/4" shaft for drills and screwdrivers.



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

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

V = White
B = Beige
SV = Black

RAL 9010
NCS 2502-Y
RAL 9005

R = Acid resistant



Service poles & posts

The service poles/post make up the final distribution point to the user.

Our aim is to develop different components for the industry's most functional and integrated systems.

Contact us if you like quick smart solutions!

Design your own service pole!

konfigurator.mpbolagen.se

MPbolagen

Service poles/posts

have been designed together with architects, consultants and customers.

They are designed to blend into the environment and can be customized as needed.

They are manufactured of aluminum and come in a white and black finish as standard.

The service poles are designed for one to four users, and can be installed tension-mounted between the floor and ceiling, stand alone on feet or clipped onto the wall.

The service poles are equipped as required with socket outlets for electricity and data, etc.

- **MP-Flex**, elegant and simple design. A flexible pole that discreetly blends in with the environment.
- **MP-Duo**, with a split design. Discreet in most environments and equipped for one or two users.
- **MP-Quattro**, with a split design. Discreet in most environments and equipped for one or four users.
- **MP-Service posts** (Duo) Fed from below and available in two variants – one with mobile base and one with a fixed base plate to screw down.

• S-marking quality and safety



The products are CE-marked and 3rd party certified by: Semko, Nemko and Fimko.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



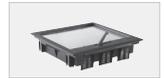
Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

Service poles

MP-Flex

The Flex pole can be installed in different ways:

- stand alone on base
- free next to wall
- on the wall with a wall bracket
- on desktops.

Aluminum pole – available in white finish (RAL 9010) and black (RAL9005)

Equipped as set out below or customized on request.

Easily create a service pole:

<https://konfigurator.mpbolagen.se/>

Flex – standard poles – select below.

U 500 – U 501 – U 502

2 m flexible tube Ø50 mm.

Total cable length 7.5 m - electricity/data.

Network cable Cat6 UTP

U521 – U522.

Total cable length 5 m – electricity/data.

Network cable Cat6 S/FTP.

Dimensions
equipped
580-670 mm.



(the base is an accessory)

Equipped				
Model	General power	Data power	RJ45	Blind cover
U 500 V/SV	6 sockets	–	2 pcs.	–
U 501 V	4 sockets	4 sockets	2 pcs.	1 pcs.
U 502 V	4 sockets	4 sockets	4 pcs.	1 pcs.
U 521 V/SV	6 sockets	–	2 pcs.	–
U 522 V	4 sockets	4 sockets	2 pcs.	–

Model	White/black	E-no
Stand alone – 2100 mm	MP-U 500 V	11 744 88
Stand alone – 2100 mm	MP-U 500 SV	11 782 03
Stand alone – 2100 mm	MP-U 501 V	11 790 01
Stand alone – 2100 mm	MP-U 502 V	11 790 04
Stand alone – 2100 mm	MP-U 521 V	11 782 17
Stand alone – 2100 mm	MP-U 521 SV	11 785 37
Stand alone – 2100 mm	MP-U 522 V	11 782 18

The last letter in the MP No. denotes
the surface finish according to:

V = White RAL 9010

G = Grey RAL 7012

SV = Black RAL 9005

MP-Duo

The Duo pole can be installed in different ways:

- stand alone on base
- between the floor and ceiling.

Double-sided aluminium pole for two users
– available in white (RAL 9010) and black (RAL 9005).

Equipped as set out below or customized on request.

Easily create a service pole:

<https://konfigurator.mpbolagen.se/>

Duo – standard poles – select below.

U 600 – U 601 – U 602

2 m flexible tube Ø50 mm.

Total cable length 7.5 m - electricity/data.

U 621

2 m flexible tube Ø50 mm.

Total cable length 5 m - electricity/data.

Equipped (per side/workplace)

Model	General power	Data power	RJ45	Blind cover
U 600 V/SV	6 sockets	–	2 pcs.	–
U 601 V	4 sockets	4 sockets	2 pcs.	1 pcs.
U 602 V	4 sockets	4 sockets	4 pcs.	–
U 621 V/SV	6 sockets	–	2 pcs.	–

Model	White/black	E-no
Stand alone – 2100 mm	MP-U 601 V	11 790 11
Stand alone – 2100 mm	MP-U 602 V	11 790 14
Stand alone – 2100 mm	MP-U 600 V	11 778 48
Stand alone – 2100 mm	MP-U 600 SV	11 785 35
Stand alone – 2100 mm	MP-U 621 V	11 782 21
Stand alone – 2100 mm	MP-U 621 SV	11 785 38

The last letter in the MP No. denotes the surface finish according to:

V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005



(the base is an accessory)

Service poles

MP-Quattro

The Quattro pole is mounted stand alone on a base.

Double-sided aluminium pole with four compartments.

Available in white (RAL 9010) finish as standard.

Equipped as set out below or customized on request.

Contact our support department for customised service poles – offert@mpbolagen.se

Easily create a service pole:

<https://konfigurator.mpbolagen.se/>

Quattro – standard poles – select below.

U 701

2 m flexible tube Ø60 mm.

Total cable length 7.5 m - electricity/data.

U 721

2 m flexible tube Ø60 mm.

Total cable length 5 m - electricity/data.

Datakablage skärmat Cat6 S/FTP.



(the base is an accessory)

Equipped (per compartment/workplace)

Model	Genersl power	Data power	RJ45	Blind cover
U 701 V	4 sockets	4 sockets	2 pcs.	1 pcs.
U 721 V	6 sockets	–	2 pcs.	–

Model	White	E-no
Stand alone – 2100 mm	MP-U 701 V	11 790 18
Stand alone – 2100 mm	MP-U 721 V	11 782 22

The last letter in the MP No. denotes the surface finish according to:

160

V = White RAL 9010

G = Grey RAL 7012

SV = Black RAL 9005

Suspended boxes & Balance block

- see page 163.



MPbolagen

Service poles

Mobile post – MP-Duo



Standard post with four braked castors on a base plate, 4x2-way socket outlets, 5 m connection cord and two empty mounting boxes for data/media.

White

E-no

MP-U 615 V

11 790 16

Service post – MP-Duo



Ready-equipped service post for e.g. conference rooms. Equipped with 3x2-way socket outlets connected to a terminal block. HDMI and USB female socket outlets and two empty mounting boxes for data/media.

White

E-no

MP-U 616 V

11 790 19

The last letter in the MP No. denotes the surface finish according to:

V = White RAL 9010

G = Grey RAL 7012

SV = Black RAL 9005

Suspended post – MP-Duo

Standard box with 2x2-way socket outlets and two angled front covers (data/media). Spiral cable 0.5-3 m. Installed on wire or with balance block (sold separately).

Balance block U128 with roller blind function or U129 is used for suspended box MP-Duo, see below.



White	E-no
MP-U 610 V	11 790 15

Balance block

Balance block with roller blind function.



Weight kg	Art. no	E-no
0,5-2	MP-U 128	11 792 58

Balance block 0.5-6 kg

Stops in the required position with loads over 0.5 kg. Returned manually to its starting position.



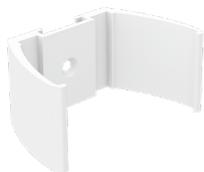
Weight kg	Art. no	E-no
0,5-6	MP-U 129	11 792 59

The last letter in the MP No. denotes the surface finish according to:

V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005

Service poles – service pole/post accessories

Wall bracket



Bracket for Flex profile, installed directly on the wall.

White	E-no	Black	E-no
MP-U 010 V	11 791 31	MP-U 010 SV	11 783 99

Wall/desktop bracket MP-Flex 45°



Bracket for Flex profile for installation on a wall or desktop, 45° profile angle.

White	E-no
MP-U 014 V	11 791 37

Wall bracket with spacer MP-Flex



Wall bracket for the MP-flex rod when mounted to a wall. The bracket gives a distance of 25 mm and is suitable in areas with suspended ceilings and allows the profile to go through the roof panel instead.

White	E-no	Black	E-no
MP-U 030 V	11 787 02	MP-U 030 SV	11 787 03

The last letter in the MP No. denotes the surface finish according to:

164 V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005

DUCTEL®

WALL SOCKETS FOR WALL TRUNKINGS



Installation ready two- and four-way outlet sockets

with data marking for prioritised power. The junction box is concealed under the front cover and features smart strain relief.



Cover for data socket outlet 2xRJ45

Space for 2xRJ45 with integrated dust cover.

MPbolagen

Service poles

Design base



Fits Flex-, Duo- and Quattro poles.
Use the enclosed bracket set for mounting on Flex and Duo poles.
Size 365x365x35 mm, weight 12.5 kg.

Grey	E-no	White	E-no	Black	E-no
MP-U 038 G	11 791 74	MP-U 038 V	11 791 75	MP-U 038 SV	11 783 94

Pole base – Flex and Duo



The base is secured with socket head cap screws, included with the pole.
Dim 325x325x20 mm, weight 8 kg.

Grey	E-no	White	E-no	Black	E-no
MP-U 040 G	11 791 20	MP-U 040 V	11 791 21	MP-U 040 SV	11 782 13

Pole base for wall



Pole base for placement close to the wall. Fits Flex and Duo poles.
Size 294x445x20 mm, weight 6.5 kg.

Grey	E-no	White	E-no	Black	E-no
MP-U 041 G	11 774 97	MP-U 041 V	11 774 98	MP-U 041 SV	11 782 14



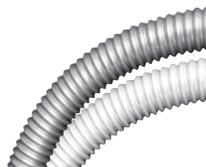
New pole base MP-Flex and Duo poles

For neater installations against the wall – white, black or grey.

MPbolagen

Flexible tube 2 m

Tube 2 m 50- and 60 mm.



Ø	White	E-no	Black	E-no
50	MP-U 070 V	11 791 81	MP-U 070 S	11 791 78
60	MP-U 071 V	11 791 83	-	-

Tube bracket

Bracket for flexible tube 50 mm



Ø	White	E-no
50	MP-U 024 V	11 791 46

Ceiling frame for tube

Set with two frames, for quicker and easier ceiling installation.
Suitable for tubes with Ø50 and Ø60 mm.



White	E-no
MP-U 073 V	11 791 86

End plate MP-Flex

Plastic sleeve for Flex profile.



White	E-no
MP-U 022 V	11 791 55

End sleeve for tube



Mod.	White	E-no
Flex	MP-U 074 V	11 791 91
Duo	MP-U 075 V	11 791 93
Quatt.	MP-U 076 V	11 791 95

The last letter in the MP No. denotes the surface finish according to:

V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005

Service poles

Ceiling frame MP-Flex



Ceiling frame for Flex pole
Can be retrofitted.

White	E-no
MP-U 077 V	11 791 84

Ceiling frame MP-Flex – wall installation



Ceiling frame for wall mounted Flex profile. Can be retrofitted.

White	E-no
MP-U 080 V	11 791 85

Ceiling frame MP-Duo – downward tube



Ceiling frame for Duo poles with downward tube. Can be retrofitted.

White	E-no
MP-U 082 V	11 791 87

Ceiling frame MP-Duo – base profile



Ceiling frame for Duo profile.
Can be retrofitted.

White	E-no
MP-U 083 V	11 791 88

The last letter in the MP No. denotes
the surface finish according to:

Ceiling frame MP-Quattro – downward tube

Ceiling frame for Quattro poles with downward tube. Can be retrofitted.



White	E-no
MP-U 084 V	11 791 89

Tray bracket for tube 50-60 mm

Bracket for fastening tubes in cable trays.



mm	Suitable for	White	E-no
60	Quattro	MP-U 079 V	11 792 01

2xRJ45 Cat6 UTP

7.5 m cable assembly, Cat6 UTP incl. connector, assembly washer and front cover.



White	E-no
MP-U 131 D	11 792 10

Audio and video adapters

USB A-female to USB A 3,0 – female with Keystone jack.

HDMI adapter – female - female with Keystone jack.

PHONO adapter 3.5 mm – female - female with Keystone jack.



Adapter	White	E-no
USB 3,0 Keystone	MP-U USB	11 792 50
HDMI Keystone	MP-U HDMI	11 792 51
PHONO 3,5 Keystone	MP-U PHONO	11 792 52

The last letter in the MP No. denotes the surface finish according to:

V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005

Service poles

Front cover – angled



Front cover for fastening of the assembly washer, see below and page 171.

White	E-no	Black	E-no
MP-U 170 V	11 792 31	MP-U 170 SV	11 784 36

Blind washer



Fitted in data cover MP-U170, see above. Ordered separately.

White	E-no	Black	E-no
MP-U 171 V	11 792 32	MP-U 171 SV	11 784 37

Assembly washer Keystone 2xRJ45



Fitted in data cover MP-U170, see above. Ordered separately.

White	E-no	Black	E-no
MP-U 172 V	11 792 33	MP-U 172 SV	11 784 38

Assembly washer Keystone 1xRJ45



Fitted in data cover MP-U170, see above. Ordered separately.

White	E-no
MP-U 173 V	11 792 34

Assembly washer Actassi 2xRJ45



Fitted in data cover MP-U170, see above. Ordered separately.
Note! Assembly frame required for Actassi socket outlets.

White	E-no	Black	E-no
MP-U 174 V	11 792 35	MP-U 174 SV	11 784 39

The last letter in the MP No. denotes

170 the surface finish according to: V = White RAL 9010 G = Grey RAL 7012 SV = Black RAL 9005

Assembly washer Systimax 2xRJ45

Fitted in data cover MP-U170, see page 170.
Ordered separately.



White	E-no
MP-U 184 V	11 792 39

Assembly washer D-connector 9 way/VGA

Fitted in data cover MP-U170, see page 170.
Ordered separately.



White	E-no
MP-U 175 V	11 792 35

Assembly washer fiber 1 x Duplex SC

Fitted in data cover MP-U170, see page 170.
Ordered separately.



White	E-no
MP-U 176 V	11 792 37

Front cover Mosaic 45 x 45 mm

For the installation of Mosaic components in
Service poles/Posts.

Contact us for switch, charger options, etc.



White	E-no
MP-U 190 V	11 792 41

Floor boxes

COMPLETE RANGE

Contact us for quick, simple and
smart solutions!

offert@mpbolagen.se



MPbolagen

Floor boxes

PUK floor boxes consist of junction boxes, floor boxes with electricity, data or media socket outlets, etc.

Junction boxes

- several sizes
- feed with conduit or metal trunking.

Floor boxes

- Round and square in sizes from 1-12 socket outlets.
- In plastic, aluminium or stainless.
- For dry and wet cleaned floors.
- For installation in junction boxes, raised floors or recesses.
- Alternative filling depth in the cover.

The PUK floor box catalogue comprises the complete range with accessories and assembly instructions.

Order from: info@mpbolagen.se

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/luminaire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

Floor boxes

Junction box of rectangular floor boxes



The junction box can be fed from all side with conduit or metal trunking. Fitted with moulding piece during casting.

Minimum embedment height 87 mm.

Model	E-no	Outside dim. mm	Opening
UBDHB250 3V	11 790 36	400x400	262x262
UBDHB250 2V	11 790 34	400x400	187x262
UBDHB190 1V	11 790 32	290x290	165x165

Junction box for round floor boxes



The junction box can be fed from all side with conduit or metal trunking. Fitted with moulding pipe during casting. Minimum embedment height 87 mm.

Model	E-no	Outside dim. mm	Opening
UBDHB350 308R	11 790 39	450x450	Ø310
UBDHB38 122R	11 790 31	160x160	Ø123

Moulding piece for rectangular floor boxes



The moulding piece is placed in the junction box during casting. Spray with moulding oil for easy removal. Equipped with straps for removal.

Model	E-no	WxL mm	Height
USK 259 V	11 790 43	261x261	150
USK 185 V	11 790 42	261x186	150
USK 160 V	11 790 41	164x164	150

Moulding pipe for round floor boxes



The moulding pipe is placed in the junction box during casting. Spray with moulding oil for easy removal. Equipped with straps for removal.

Model	E-no	Ø mm	Height
USR	11 790 44	Ø310	150
USKR	11 790 40	Ø123	150

Installation unit - square

Installation unit with carpet flange for dry cleaned floors. Made of polyamide plastic, with space for 8 or 12 units. Filling depth 10 mm - min. height 65 mm. For low inset heights - see page 178.



Model	E-no	Units	Outside dim. mm	Assembly open mm	Colour
UEK3 V-G	11 790 54	12	280x280	261x261	grey
UEKD2 V-G	11 790 52	8	280x206	261x186	grey

Installation unit - stainless

Installation unit with carpet flange for dry cleaned floors. For 8 or 12 units. Filling depth 12 mm - min height 71 mm.



Model	E-no	Units	Outside dim. mm	Assembly open mm
UEKDD 15 V E	11 790 60	12	283x283	261x261
UEKDD2 15 V E	11 790 59	8	284x211	261x186
UEKDD1-2 15 V E	11 790 58	2	187x187	165x165

Cover- stainless steel

Cover for installation unit in stainless steel, designed for stone or parquet. Mounted on an assembly frame. Filling depth 32 mm - min height 105 mm.



Model	E-no	Units	Outside dim. mm
UEKD 35 V E	11 790 63	12	261x261

Assembly frame for stainless steel cover

Assembly frame for installation of the cover and holder for mounting boxes.



Model	E-no	Outside dim. mm	Height mm
UNE 260V-30S	11 790 65	261x261	65+30
UNE 260V-60S	11 790 66	261x261	90+50

Holder for mounting box

The holders are screwed in the assembly frame for installation of mounting boxes.



Model	E-no	Min. height mm
UGEAV-50S	11 790 69	65
UGEAV-80S	11 790 70	95

Floor boxes

Installation unit – round



Installation unit with carpet flange for dry cleaned floors. Made of polyamide plastic, with space for 12 units. Filling depth 10 mm - min. height 65 mm.

Model	E-no	Outer dim. mm	Assembly hole mm	Colour
UEK3 R-G	11 790 56	Ø330	Ø307	grey

Floor box of aluminium/plastic – round



Complete floor box in aluminium or polyamide, with 230 V socket outlet and Cat6 STP data socket outlet.

Bodo N 1x230, 1xRJ45.

Bodo N4 2x230.

Bodo T 1x 230 V, 1x blind

IP 66 in closed position for the aluminium box.

IP 30 in closed position for the plastic box.

Model	E-no	Outer dim. mm	Assembly hole mm	Material
BODO N	11 790 50	Ø140	Ø122	aluminium
BODO N4	11 770 13	Ø140	Ø122	aluminium
BODO T-G	11 790 51	Ø133	Ø122	polyamid

Bodo N and N4 floor boxes made of aluminium are ideal for car showrooms.

Can be driven over and are waterproof. Basic round aluminium box with 1x230 V socket outlet and 1xRJ45 socket outlet.

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www.mpbolagen.se

Installation unit - square

Floor box incl. junction box and block for embedment.
 Embedment measurement 165x165 mm.
 Space for 4 mosaic units.
 Supplemented with fastening frames as required.
 Max. IP 54 in closed position.
 Max load on the cover 2000 kg.



Model	E-no	LxWxH
UKE160 15-VP-WD	11 770 40	160x160x90 mm

Fastening frames for UKE160

Fastening frame 1 with partition for two mosaic units.



Fastening frame 1
UEP160-UST2



Fastening frame 2
UEP160-UST2-TR

Fastening frame 2 for two mosaic units.

Model	E-no	LxWxH
UEP160-UST2	11 770 45	108x50x5 mm
UEP160-UST2-TR	11 770 46	108x56x30 mm

Stainless installation unit - square

Floor box incl. junction box and block for embedment.
 Embedment measurement 130x130 mm.
 Space for 2 mosaic units and mounting plate for two data jacks.
 Supplemented with fastening frames as required.
 Max. IP 54 in closed position.
 Max load on the cover 2000 kg.



Model	E-no	LxWxH
UKE125 15-VP-WD	11 770 41	125x125x90 mm

Fastening frames for UKE125

Blind plate to cover the space where RJ45 outlet sockets can be fitted.



Blind plate
UDEP125-B



Fastening frame 1
UDEP125-KS2



Fastening frame 2
UEP125-UST2

Fastening frame 1 for 2xRJ45 outlet sockets with Keystone hole pattern.

Fastening frame 2 for two mosaic units.

Model	E-no	LxWxH
UEP125-B	11 770 42	98x29x2 mm
UEP125-KS2	11 770 43	98x29x2 mm
UEP125-UST2	11 770 44	98x29x2 mm

Floor boxes

Mounting box



The mounting box is installed in the holders' punched holes and has space for 4 socket outlet units.

Model	E-no	Colour	Dim. W x H x D in mm.	Pack.
UG	11 790 72	black	74x46x226	1 pcs.

Mounting box - low inset depth



Plastic mounting box for minimal inset depth and stainless floor boxes.

Supplement with assembly frame UGEE for power and data outlet sockets with space for a total of 4 frames.

Model	E-no	Colour	Insert depth mm	Fits	Pack.
UGE3-VRK 4	11 790 74	grey	65	11 790 54	1 pcs.
UGE3-VE 4	11 790 71	grey	85	11 790 60	1 pcs.

Angled front cover



Assembly washer for data jacks 2 x keystone. One mosaic unit 45x45 mm.

Model	E-no	Colour	Pack.
UDAP45-KS	11 770 48	black	1 pcs.

Assembly frame



Assembly frame for two mosaic units or mounting plate UDEP (page 180).

Fits mounting box with low inset depth.

Model	E-no	Colour	Fits	Pack.
UGEE-2 UST45	11 790 75	black	2 mosaic units	1 pcs.
UGEE-1 DEP-S	11 777 02	black	Mount. plate UDEP	1 pcs

Mounting box for UEKDD 1-2



Mounting box for stainless cover UEKDD1-2, for 2 Mosaic units.

Model	E-no	Colour	Type	Pack.
UGR1-4	11 790 76	grey	2 units	1 pcs.

230 V socket outlet - Mosaic

230 V socket outlet - 1, 2 or 4-way.
White or orange.



Model	E-no	Colour	Version	Pack.
UST45-W 1	11 790 80	white	1-way	1 pcs.
UST45-O 1	11 790 81	orange	1-way	1 pcs.
UST45-W 2	11 790 82	white	2-way	1 pcs.
UST45-O 2	11 790 83	orange	2-way	1 pcs.
UST45-W 4	11 790 84	white	4-way	1 pcs.

Blind cover

Blind cover in full or half Mosaic modules.
Used in unused units.



Model	E-no	Colour	Hole size HxW mm	Pack.
UAA-B 22	11 790 78	black	45x22,5	1 pcs.
UAA-B 45	11 790 79	black	45x45	1 pcs.

Assembly frame for Mosaic units

The assembly frame snaps into mounting box UG. 4 Mosaic units can be mounted in the frame.



Model	E-no	Colour	Type	Pack.
UAM4-1 226	11 790 73	black	4 units	1 pcs.

Assembly frame - data/media socket outlets

Assembly frame with space for three UDEP-xxx plates – see page 180.

The plates are screwed to the frame.



Model	E-no	Colour	Pack.
UGETD-3 226	11 790 86	black	1 pcs.

Floor boxes

Mounting plate - blind



Blind plate screwed in the assembly frame UGETD-3 226 or UGEE-1 DEP-S.

Model	E-no	Colour	Pack.
UDEP-B	11 790 87	black	1 pcs.

Mounting plate – AMP SL.



Socket plate for 3 x AMP SL. Plate screwed in the assembly frame UGETD-3 226 or UGEE-1 DEP-S.

Model	E-no	Colour	Pack.
UDEP-AMP	11 790 92	black	1 pcs.

Mounting plate – blind



Socket plate for 2 x Keystone socket outlets.

Plate screwed in the assembly frame UGETD-3 226 or UGEE-1 DEP-S. Adapters – see page 169.

Model	E-no	Colour	Pack.
UDEP-KR 2	11 790 88	black	1 pcs.

Mounting plate – Actassi



Socket plate for 2 x Actassi socket outlets. Plate screwed in the assembly frame UGETD-3 226 or UGEE-1 DEP-S.

Model	E-no	Colour	Pack.
UDEP-LEX 2	11 790 89	black	1 pcs.

Mounting plate - XLR



Socket plate 2xXLR socket outlets. Plate screwed in the assembly frame UGETD-3 226 or UGEE-1 DEP-S.

Model	E-no	Colour	Hole size HxB mm	Pack.
UDEP-XLR 2	11 790 90	black	∅23,6	1 pcs.

Mounting plate D-sub



Socket plate 1 x Dsub/VGA socket outlet.

Plate screwed in the assembly frame UGETD-3226 or UGE3-VK8.

Model	E-no	Colour	Pack.
UDEP-DSUB 9-1	11 790 91	black	1 pcs

Wall trunkings

Ductel

Trunking system for electricity, tele-coms and data solutions.

The trunking is made of aluminium and is available with 45 mm and 80 mm openings.

For simplicity all trunking has installation holes.

Selection of surface finish

Equipotential bonding

Cable ladders



Cable ladders RF/SF



Cable trays/lumin-
aire rails



Wire mesh trays



Profiles



MP-19" racks



Potential connection



Cable clamps



Ceiling brackets
concrete screws



Service poles/posts



Floor boxes



Wall trunkings



E-number, weight, package

Wall trunkings

Trunking TB 1010 – 3 m



The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 192. This trunking cannot be installed with the cantilever arm. Perforated back.

Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 1010-1	11 793 50	100x65 mm	natural anod.	11 793 72
TB 1010-2	11 782 23	100x65 mm	black painted	11 782 29
TB 1010-3	11 793 51	100x65 mm	white painted	11 793 73

Trunking TB 1040 – 3 m



The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. This trunking cannot be installed with the cantilever arm. Perforated back.

Model	E-no	Width/depth	Surface finish	Suitable cover (45 mm)
TB 1040-1	11 793 52	100x65 mm	natural anod.	11 793 70
TB 1040-3	11 793 53	100x65 mm	white painted	11 793 71

Trunking TB 1210 – 3 m



The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. This trunking cannot be installed with the cantilever arm. Perforated back.

Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 1210 -3	11 788 90	120x65 mm	white painted	11 793 73

Trunking TB 1310 – 3 m



The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. Perforated back.

Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 1310-1	11 793 54	135x65 mm	natural anod.	11 793 72
TB 1310-2	11 782 24	135x65 mm	black painted	11 782 29
TB 1310-3	11 793 55	135x65 mm	white painted	11 793 73

Trunking TB 1340 – 3 m

The partition wall has a punched hole pattern of 50x21 mm c-c spacing 320 mm.

There are slots in the trunking for earthing clamp TBM 1 - see page 190. Perforated back.



Model	E-no	Width/depth	Surface finish	Suitable cover (45 mm)
TB 1340-1	11 793 56	135x65 mm	natural anod.	11 793 70
TB 1340-3	11 793 57	135x65 mm	white painted	11 793 71

Trunking TB 1710 – 3 m

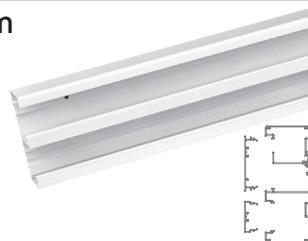
The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. Perforated back.



Model	E-no	Width/depth	Surface finish	Suitable cover (45 mm)
TB 1710-1	11 793 58	170x65 mm	natural anod.	11 793 72
TB 1710-2	11 782 25	170x65 mm	black painted	11 782 29
TB 1710-3	11 793 59	170x65 mm	white painted	11 793 73

Trunking TB 1740 – 3 m

The trunking can be mounted on cantilever arms. The partition wall has a punched hole pattern of 50x21 mm c-c spacing 320 mm. (Intermediate shelf can be fitted). There are slots in the trunking for earthing clamp TBM 1 - see page 190. Perforated back.

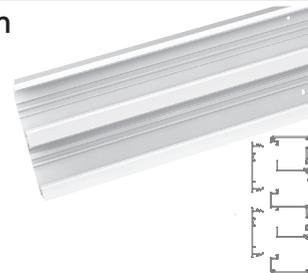


Model	E-no	Width/depth	Surface finish	Suitable cover (45/80 mm)
TB 1740-1	11 793 60	170x65 mm	natural anod.	11 793 70 - 11 793 72
TB 1740-2	11 782 27	170x65 mm	black painted	11 782 28 - 11 782 29
TB 1740-3	11 793 61	170x65 mm	white painted	11 793 71 - 11 793 73

Trunking TB 2210 – 3 m

Both compartments can be divided into several parts with TDH intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190.

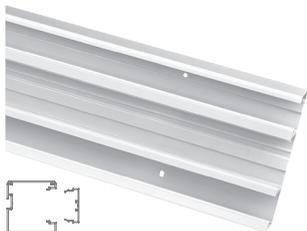
The partition wall has a punched hole pattern of 50x21 mm c-c spacing 320 mm. Perforated back.



Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 2210-1	11 793 62	220x65 mm	natural anod.	11 793 72
TB 2210-3	11 793 63	220x65 mm	white painted	11 793 73

Wall trunkings

Trunking TB 2240 – 3 m



The partition walls have a punched hole pattern of 50x 21 mm c-c spacing 320 mm.

There are slots in the trunking for earthing clamp TBM 1 – see page 190.

Perforated back.

Model	E-no	Width/depth	Surface finish	Suitable cover (45/80 mm)
TB 2240-1	11 793 64	220x65 mm	natural anod.	11 793 70 – 11 793 72
TB 2240-3	11 793 65	220x65 mm	white painted	11 793 71 – 11 793 73

Recessed installation

STYLISH AND
DISCREET

TB 1332-3
E-no: 11 788 64

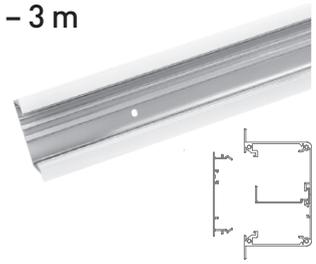


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Wall trunkings – recessed

Recessed trunking TB 1032 – 3 m

The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. This trunking cannot be installed with the cantilever arm. Inset depth: 100x65 mm. Perforated back.



Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 1032-3	11 788 62	125x65 mm	white painted	11 793 73

Recessed trunking TB 1332 – 3 m

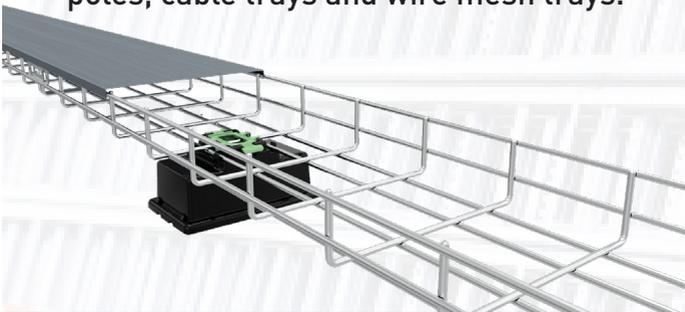
The cable area can be divided into sections with an intermediate shelf and there are slots in the trunking for earthing clamp TBM 1 - see page 190. This trunking cannot be installed with the cantilever arm. Inset depth: 100x65 mm. Perforated back.



Model	E-no	Width/depth	Surface finish	Suitable cover (80 mm)
TB 1332-3	11 788 64	148x65 mm	white painted	11 793 73

Configure more!

Our configurator now has more possibilities to calculate the quantity of cable ladders, wall trunkings, service poles, cable trays and wire mesh trays.



Configurator

MPbolagen

Wall trunkings

Front TB 80 – 3 m



The front is fitted via a simple snap-in action.
Earthing clamp – see page 190.

Front section L = 50 mm (11 793 98-99),
used between mounting boxes. 6 pcs/pack.

Model	E-no	Width/depth	Surface finish
TB 80-1	11 793 72	80x19 mm	natural anod.
TB 80-2	11 782 29	80x19 mm	black painted
TB 80-3	11 793 73	80x19 mm	white painted
TB 80-1/50	11 793 98	80x19 mm	natural anod.
TB 80-3/50	11 793 99	80x19 mm	white painted

Front TB 45 – 3 m



The front is fitted via a simple snap-in action.

Earthing clamp – see page 190.

Model	E-no	Width/depth	Surface finish
TB 45-1	11 793 70	45x19 mm	natural anod.
TB 45-2	11 782 28	45x19 mm	black painted
TB 45-3	11 793 71	45x19 mm	white painted

Corner TBC



The corner acts as both inner and outer corners and also permits a few degrees of deviation from a 90° angle.

Model	E-no	W x D x L mm	Colour/material	Suitable for
TBC 100-1	11 793 80	90x90x103	natural alu/plastic	TB 1010, 1040
TBC 100-2	11 782 30	90x90x103	black colour alu/plastic	TB 1010, 1040
TBC 100-3	11 793 84	90x90x103	white colour alu/plastic	TB 1010, 1040
TBC 135-1	11 793 81	90x90x138	natural alu/plastic	TB 1310, 1340
TBC 135-2	11 782 33	90x90x138	black colour alu/plastic	TB 1310, 1340
TBC 135-3	11 793 85	90x90x138	white colour alu/plastic	TB 1310, 1340
TBC 170-1	11 793 82	90x90x173	natural alu/plastic	TB 1710, 1740
TBC 170-2	11 782 34	90x90x173	black colour alu/plastic	TB 1710, 1740
TBC 170-3	11 793 86	90x90x173	white colour alu/plastic	TB 1710, 1740
TBC 220-1	11 793 83	90x90x223	natural alu/plastic	TB 2210, 2240
TBC 220-3	11 793 87	90x90x223	white colour alu/plastic	TB 2210, 2240

Wall collar TBO

Wall collar of white plastic (ABS). Covers the entry hole for connection against the wall. There is a guide slot for opening and assembly, after the trunking has been installed.



Model	E-no	W x D x L mm	Material	Suitable for
TBO 100-3	11 787 17	151x106x25	ABS white	TB 1010, 1040
TBO 135-3	11 787 30	186x106x25	ABS white	TB 1310, 1340
TBO 170-3	11 787 50	221x106x25	ABS white	TB 1710, 1740
TBO 220-3	11 787 70	271x106x25	ABS white	TB 2210, 2240

Ceiling frame TBCF

Ceiling frame for trunking TB1210-3. Screws for fastening included. Can be retrofitted.



Model	E-no	W x D x L mm	Suitable for
TBCF 120-3	11 788 94	100x190x2	white finish

Jointing collar TBL

Plastic jointing collar (ABS), for connections between downward trunking and wall trunking.



Model	E-no	W x D x L mm	Material	Suitable for
TBL 10-1	11 793 76	105x67x12	ABS grey	TB 1010, 1040
TBL 10-2	11 782 36	105x67x12	ABS black	TB 1010, 1040
TBL 10-3	11 788 50	105x67x12	ABS white	TB 1010, 1040
TBL 13-1	11 793 77	140x67x12	ABS grey	TB 1310, 1340
TBL 13-2	11 782 37	140x67 x12	ABS black	TB 1310, 1340
TBL 13-3	11 788 51	140x67x12	ABS white	TB 1310, 1340
TBL 17-1	11 793 78	175x67x12	ABS grey	TB 1710, 1740
TBL 17-2	11 782 38	175x67x12	ABS black	TB 1710, 1740
TBL 17-3	11 788 52	175x67x12	ABS white	TB 1710, 1740
TBL 22-1	11 793 79	225x67x12	ABS grey	TB 2210, 2240
TBL 22-3	11 788 53	225x67x12	ABS white	TB 2210, 2240

Wall trunkings

End plate TBP



End plate for stylish trunking capping. Easy installation with snap-on coupling that provides firm locking.

Note! TBP-120-3 is screwed in the trunking with the supplied screws.

Model	E-no	W x L x D mm	Surface finish	Suitable for
TBP 100-1	11 793 88	100x65x24	natural	TB 1010, 1040
TBP 100-2	11 782 44	100x65x24	black finish	TB 1010
TBP 100-3	11 793 89	100x65x24	white finish	TB 1010, 1040
TBP 120-3	11 788 92	120x60x24	white finish	TB 1210
TBP 135-1	11 793 90	135x65x24	natural	TB 1310, 1340
TBP 135-2	11 782 45	135x65x24	black finish	TB 1310
TBP 135-3	11 793 91	135x65x24	white finish	TB 1310, 1340
TBP 170-1	11 793 92	170x65x24	natural	TB 1710, 1740
TBP 170-2	11 782 47	170x65x24	black finish	TB 1740
TBP 170-3	11 793 93	170x65x24	white finish	TB 1710, 1740
TBP 220-1	11 793 94	220x65x24	natural	TB 2210, 2240
TBP 220-3	11 793 95	220x65x24	white finish	TB 2210, 2240

End plate TBP – recessed trunking



White end plate for trunking TB1032-3 and TB1332-3. Overlaps the wall by 12.5 mm.

Screwed in the trunking before installation with the supplied screws.

Model	E-no	Width/depth	Surface finish
TBP 1032-3	11 788 88	125x65x25 mm	white finish
TBP 1332-3	11 788 89	148x70x25 mm	white finish

Splice TBJ



Splice for a natural joint between trunking sections. Use two splices per joint. Meets requirements for equipotential bonding according SS-EN 61537:2007.

Model	E-no	WxLxD mm	Material
TBJ 1	11 793 96	53x12x70	aluminum

Cover joint TBMP

Available in four models and can be used to cover joints between trunking. Fitted using double sided adhesive tape (enclosed).



Model	E-no	Surface finish	Suitable for
TBMP 1-1	11 793 22	natural	TB-1010, 1040
TBMP 1-3	11 793 23	white finish	TB-1010, 1040
TBMP 2-1	11 793 26	natural	TB-1310, 2210, 2240
TBMP 2-3	11 793 29	white finish	TB-1310, 2210, 2240
TBMP 3-1	11 793 32	natural	TB-1340, 1740
TBMP 3-3	11 793 33	white finish	TB-1340, 1740
TBMP 4-1	11 793 36	natural	TB-1710
TBMP 4-3	11 793 37	white finish	TB-1710

Décor splice TBMP

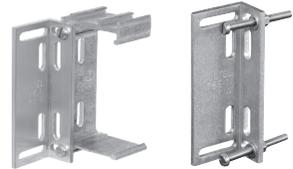
Fitted over joints as well as a wall collar for ends against the wall.



Model	E-no	Surface finish	Suitable for
TBMP 6-1	11 788 80	grey finish	TB-1010, 1040 (100 mm)
TBMP 6-2	11 782 39	black finish	TB-1010, 1040 (100 mm)
TBMP 6-3	11 788 81	white finish	TB-1010, 1040 (100 mm)
TBMP 7-1	11 788 82	grey finish	TB-1310, 1340 (135 mm)
TBMP 7-2	11 782 42	black finish	TB-1310, 1340 (135 mm)
TBMP 7-3	11 788 83	white finish	TB-1310, 1340 (135 mm)
TBMP 8-1	11 782 43	black finish	TB-1710, 1740 (170 mm)
TBMP 8-2	11 788 84	grey finish	TB-1710, 1740 (170 mm)
TBMP 8-3	11 788 85	white finish	TB-1710, 1740 (170 mm)
TBMP 9-1	11 788 86	grey finish	TB-2210, 2240 (220 mm)
TBMP 9-3	11 788 87	white finish	TB-2210, 2240 (220 mm)

Adjusting piece TBE

Used together with cantilever arms, for adjustment 0-26 mm. Can be mounting in two ways to give different mounting depths. With the long side against the wall, the measurement will be 0-11 mm. With the short side against the wall, the measurement will be 0-26 mm.



Model	E-no	Material
TBE 1	11 788 10	aluminum

Wall trunkings

Cantilever arm TBE



Aluminum cantilever arm for mounting on the wall with snap-in function.

The distance from the centre of the top hole to the top edge of the trunking is 50 mm.

Recommended spacing between cantilever arm is 1 m.

Grille and holder – see page 191.

Model	E-no	Dist.fr.wall	No. of grilles
TBE 25	11 788 05	25 mm	1
TBE 50	11 788 06	50 mm	2
TBE 75	11 788 07	75 mm	3
TBE 100	11 788 08	100 mm	4
TBE 125	11 788 09	125 mm	5

Intermediate shelf TDH – 1 m



Available in two models and used to divide the trunking into sections.

Model	E-no	Width/depth	Material
TDH 1	11 788 14	52x15 mm	aluminum
TDH 2	11 788 15	52x42 mm	aluminum

Earthing clamp TBM



The earthing clamp is used to earth the front and trunking. A maximum of 2 x 4 mm² Cu conductors can be connected to the clamp.

Model	E-no	Material
TBM 1	11 788 22	steel

Cable tie bracket TBK



Used to secure and strain relieve cables (max. 5 mm cable ties). Can also be used for mini trunking: TBA 10 and TBA 18.

Model	E-no	Material
TBK 1	11 787 99	ABS white

Sound absorber XTBO



Sound absorber at wall penetrations by the trunking. Self-adhesive pieces which are attached to the inside of the fronts.

Model	E-no	W x L x D mm	Suitable for
XTBO 304	11 788 23	32x300x30	TB 45
XTBO 308	11 788 24	74x300x30	TB 80

Universal box TBF

Universal boxes snap into the trunking's front opening. 2 strain relief TBF 11 supplied.



Model	E-no	W x L x D mm	Material
TBF 1	11 788 42	79x42,5x79	ABS blue
TBF 2	11 788 43	79x42,5x150	ABS blue
TBF 11	11 788 47	Strain relief	-

Ventilation grille TBE – 3 m

Clipped into the ventilation grille holder TBE 3. The edge of the grille aligns with the upper edge of the trunking.



Number of grilles/cantilever arm	
Cantilever arm	Grille
TBE 25.....	1
TBE 50.....	2
TBE 75.....	3
TBE 100.....	4
TBE 125.....	5

Model	E-no	Width/depth	Surface finish
TBE 20-1	11 788 18	24x9 mm	natural
TBE 20-2	11 782 35	24x9 mm	black finish
TBE 20-3	11 788 19	24x9 mm	white finish

Ventilation grille holder

The holder slides into the cantilever arm from the side.



Use of the holder	
Cantilever arm	cs./cantilever arm
TBE 25.....	1/3
TBE 50.....	2/3
TBE 75.....	1
TBE 100.....	1 1/3
TBE 125.....	1 2/3

Model	E-no	Width/depth	Material
TBE 3	11 788 21	73x40 mm	ABS white

Connecting pin for grilles

Used for splicing ventilation grille TBE 20.



Model	E-no	Width/depth	Material
TBJ 10	11 788 25	50x10 mm	plastic

Wall trunkings – mini trunking

TBA 202 trunking and front – 3 m



Trunking dimensions: 32x20.5x3000 mm.
Front dimensions: 32x6x3000 mm.
Perforated back.

Model	E-no	Surface finish
Trunking TBA 202-1	11 788 55	natural anod.
Trunking TBA 202-3	11 788 56	white painted
Front TBA 22-1	11 788 65	natural anod.
Front TBA 22-3	11 788 66	white painted
End plate TBD 20-3	–	white painted.



TBA 302 trunking, front and end piece - 3 m



Trunking dimensions: 65x30x3000 mm.
Front dimensions: 54x7.5x3000 mm.
End plate: 65x30 mm.
Perforated back.

Model	E-no	Surface finish
Trunking TBA 302-1	11 788 57	natural anod.
Trunking TBA 302-3	11 788 58	white painted
Front TBA 32-1	11 788 67	natural anod.
Front TBA 32-3	11 788 68	white painted
End plate TBD 30-1	11 788 70	natural anod.
End plate TBD 30-3	11 788 71	white painted



TBA 652 trunking, front and end piece – 3 m



Trunking dimensions: 65x65x3000 mm.
Front dimensions: 54x7.5x3000 mm.
End plate: 65x65 mm.
Perforated back.

Model	E-no	Surface finish
Trunking TBA 652-1	11 788 59	natural anod.
Trunking TBA 652-3	11 788 60	white painted
Front TBA 32-1	11 788 67	natural anod.
Front TBA 32-3	11 788 68	white painted
End plate TBD 65-1	11 788 72	natural anod.
End plate TBD 65-3	11 788 73	white painted



Wall trunkings – mini trunking

TBA 10 trunking, front and end piece – 3 m

Trunking dimensions: 100x49x3000 mm.

Front dimensions: 80x19x3000 mm.

End plate: 100x49 mm.

Perforated back.



Model	E-no	Surface finish
Trunking TBA 10-1	11 787 90	natural anod.
Trunking TBA 10-3	11 787 91	white painted
Front TB 80-1	11 793 72	natural anod.
Front TB 80-3	11 793 73	white painted.
End plate TBD 100-1	11 787 92	natural anod.
End plate TBD 100-3	11 787 93	white painted.

TBA 18 trunking, front and end piece – 3 m

Trunking dimensions: 100x49x3000 mm.

Front dimensions: 80x19x3000 mm.

End plate: 100x49 mm.

Perforated back.



Model	E-no	Surface finish
Trunking TBA 18-1	11 787 95	natural anod.
Trunking TBA 18-3	11 787 96	white painted
Front TB 80-1	11 793 72	natural anod.
Front TB 80-3	11 793 73	white painted
End plate TBD 180-1	11 787 97	natural anod.
End plate TBD 180-3	11 787 98	white painted

- Wall trunkings - telecom/data

Cover for data socket outlet 2xRJ45

Cover with label holder and dust cover. Fits trunking with 80 mm opening.



Model	E-no	Pack.	Type	Colour
DUCT-Key-1	11 792 78	1/4	Keystone	grey
DUCT-Key-2	11 782 51	1/4	Keystone	black
DUCT-Key-3	11 792 82	1/4	Keystone	white
DUCT-Amp-1	11 792 79	1/4	Amp	grey
DUCT-Amp-3	11 792 83	1/4	Amp	white
DUCT-Sys-1	11 792 80	1/4	Systemax	grey
DUCT-Sys-3	11 792 84	1/4	Systemax	white
DUCT-Act-1	11 792 81	1/4	Actassi	grey
DUCT-Act-3	11 782 50	1/4	Actassi	black
DUCT-Act-3	11 792 85	1/4	Actassi	white

Fastening frame for modular socket outlets with label holder

Used with adapter plates for AMP, Keystone, Systemax and Actassi data jacks. Intended for 2xRJ45 (possibility for 3xRJ45). Blind plug AUDMP33 suitable for unused holes.



Model	E-no	Designation	Pack.
AUD50.NP	11 746 46	Fastening frame for RJ45, white	10/100
AUDMP33	11 746 47	Blind plug for AUD50.NP.	10 pcs.

Adapter plate for fastening frame

Adapter plate for 3xAMP, Keystone, Systemax or Actassi data jacks. Supplemented with fastening frames AUD50.NP or AUD50.NP-83.



Model	E-no	Designation	Pack.
AUD51.1	11 746 42	Adapter plate for 3xRJ-45, AMP	10/100
AUD51.2	11 746 44	Adapter plate for 3xRJ-45, Keystone	10/100
AUD51.3	11 746 43	Adapter plate for 3xRJ-45, Systemax	10/100
AUD51.4	11 746 45	Adapter plate for 3xRJ-45, Actassi	10/100

Audio and video adapters

USB A-female to USB A 3,0 – female with Keystone jack.

HDMI adapter – female - female with Keystone jack.

PHONO adapter 3.5 mm – female - female with Keystone jack.



Adapter	White	E-no
USB 3,0 Keystone	MP-U USB	11 792 50
HDMI Keystone	MP-U HDMI	11 792 51
PHONO 3,5 Keystone	MP-U PHONO	11 792 52

Wall trunkings – Ductel, pre-wired socket outlets

Pre-wired 2-way socket outlet



Installation-ready 2-way socket outlet with label holder. Concealed junction box with strain relief and three quick connections. Approved for 3-phase through wiring.

Model	E-no	Designation	Pack.
DUCT-2-1	11 792 70	Socket outlet set, earthed, 2-way, grey	1/20
DUCT-2D-1	11 792 74	Socket outlet set, earthed, 2-way, DATA marking, grey	1/20
DUCT-2-2	11 782 48	Socket outlet set, earthed, 2-way, black	1/20
DUCT-2-3	11 792 71	Socket outlet set, earthed, 2-way, white	1/20
DUCT-2D-3	11 792 75	Socket outlet set, earthed, 2-way, DATA-labelled, white	1/20

Pre-wired 4-way socket outlet



Installation-ready 4-way socket outlet with label holder. Concealed junction box with strain relief and three quick connections. Approved for 3-phase through wiring.

Model	E-no	Designation	Pack.
DUCT-4-1	11 792 72	Socket outlet set, earthed, 4-way, grey	1/18
DUCT-4D-1	11 792 76	Socket outlet set, earthed, 4-way, DATA marking, grey	1/18
DUCT-4-2	11 782 49	Socket outlet set, earthed, 4-way, black	1/18
DUCT-4-3	11 792 73	Socket outlet set, earthed, 4-way, white	1/18
DUCT-4D-3	11 792 77	Socket outlet set, earthed, 4-way, DATA-labelled, white	1/18

Pre-wired 2-way socket outlet – Ensto Net



Installation-ready 2-way socket outlet with label holder. Concealed junction box with three-way Ensto Net connector.

Model	E-no	Designation	Pack.
DUCT-2E-3	11 792 86	Socket outlet set, earthed, 2-way, white	1/20
DUCT-2ED-3	11 792 88	Socket outlet set, earthed, 2-way, DATA-labelled, white	1/20

Pre-wired 4-way socket outlet – Ensto Net



Installation-ready 4-way socket outlet with label holder. Concealed junction box with three-way Ensto Net connector.

Model	E-no	Designation	Pack.
DUCT-4E-3	11 792 87	Socket outlet set, earthed, 4-way, white	1/18
DUCT-4ED-3	11 792 89	Socket outlet set, earthed, 4-way, DATA-labelled, white	1/18

Wall trunkings – ProDuct wall socket

Pre-wired 2-way socket outlet

Installation-ready 2-way socket outlet with label holder 14x46 mm, end piece, cover, junction box with strain relief and 3 top clips. Approved for 3-phase through wiring.



Model	E-no	Designation	Pack.
AUD11-214	11 745 77	Socket outlet set, earthed, 2-way, white	1/25
AUD11-214D	11 745 78	Socket outlet set, earthed, 2-way, DATA-labelled, white	1/25

Pre-wired 4-way socket outlet

Installation-ready 4-way socket outlet with label holder 14x46 mm, end piece, cover, junction box with strain relief and 3 top clips. Approved for 3-phase through wiring.



Model	E-no	Designation	Pack.
AUD12-214	11 745 85	Socket outlet set, earthed, 4-way, white	1/20
AUD12-214D	11 745 86	Socket outlet set, earthed, 4-way, DATA-labelled, white	1/20

Pre-wired 6-way socket outlet

Installation-ready 6-way socket outlet with label holder 14x46 mm, end piece, cover, junction box with strain relief and 3 top clips. Approved for 3-phase through wiring.



Model	E-no	Designation	Pack.
AUD13-214	11 745 89	Socket outlet set, earthed, 6-way, white	1/25
AUD13-214D	11 745 90	Socket outlet set, earthed, 6-way, DATA-labelled, white	1/25

Pre-wired 8-way socket outlet

Installation-ready 8-way socket outlet with label holder 14x46 mm, end piece, cover, junction box with strain relief and 3 top clips. Approved for 3-phase through wiring.



Model	E-no	Designation	Pack.
AUD14-214	11 745 93	Socket outlet set, earthed, 8-way, white	1/25

Wall trunking – ProDuct components

End package



The package includes two end pieces and two covers. Used together with 2-way socket-outlet AUD10 - Jussi or Impressivo boxes.

Model	E-no	Designation	Pack.
AUD31	11 746 07	End package without junction box, white	10/100
AUD31-83	11 745 97	End package without junction box, alu.	10/100

Universal box TBF



Universal boxes snap into the trunking's front opening. 2 strain relief TBF 11 supplied.

Model	E-no	W x L x D mm	Material
TBF 1	11 788 42	79x42,5x79	ABS blue
TBF 2	11 788 43	79x42,5x150	ABS blue

Strain relief TBF



Strain relief for universal box TBF 1, TBF 2.

Model	E-no
TBF 11	11 788 47

Residual current device

(Order item, not stocked.)



Model	E-no	Designation	Pack.
AUD41	11 746 09	Residual current device, 30 mA, A-type, 2-pole - white	1/25

Wall trunking - ProDuct components

2-way socket outlet with box

The socket outlet is approved for through wiring. If several AUD10 sockets are connected in series, 120 mm long intermediate cables (stripped 13 mm) are recommended. One connection package AUD30 or AUD31 is required for each socket-outlet group. Box depth is 45 mm.



Model	E-no	Designation	Pack.
AUD10-214	11 745 69	Socket outlet earthed, 2-way, white	10/100
AUD10-214D	11 745 74	Socket outlet earthed, 2-way, white	10/100

Jussi – ABB mounting box

In the ABB Jussi series, all mounting boxes with screw spacing c-c 60 mm can be fitted in the box, e.g. for switches, KNX-breaker, one-way socket and telecom products. One connection package AUD30 or end package AUD31 is required for each box. Box depth is 45 mm.



Model	E-no	Designation	Pack.
AUD20	11 746 04	A junction box for Jussi products, white	10/100

Impressivo – ABB mounting box

In the ABB Impressivo series, all mounting boxes with screw spacing c-c 60 mm can be fitted in the box, e.g. for switches, KNX-breaker, one-way socket and telecom products. One connection package AUD30 or end package AUD31 is required for each box. Box depth is 45 mm.



Model	E-no	Designation	Pack.
AUD21	11 746 16	Junction box Impressivo apparatus, white	10/100

Connection package

The package contains one end package, a junction box and one cover. Approved for 3-phase through wiring. A maximum of 5 loose connections can be used (max. 5x2.5) in the junction box.



Model	E-no	Designation	Pack.
AUD30	11 746 05	Connection package with the junction box, white	10/100

ABB low voltage products

E-no. below* (except Jussi box) owned by ABB. Distributed via electrical wholesalers.

Jussi



Model	E-no
AUD 20 Junction box ProDuct	11 746 04
AUD 31 End package	11 746 07



Model	E-no
Switch Stair/1-pole	*18 150 22



Model	E-no
1-way socket outlet with USB	*18 150 04



Model	E-no
Switch Crown	*18 150 17



Model	E-no
Centre plate USB	*18 151 87
USB-port 1xUSB C, 1xUSB A	*52 005 18



Model	E-no
Pushbutton spri.return 1-pole	*18 150 47



Model	E-no
Centre plate, Jussi, 2xRJ45	*51 008 71
RJ45-insert, 2xKeystone	*18 153 63



Model	E-no
2-pole switch	*18 150 07



Model	E-no
DKS centre plate, Jussi	*51 008 35
Washer DKS system, D-connector 9-way.	*18 151 34

ABB low voltage products

E-no. below* (except Impressivo box) owned by ABB. Distributed via electrical wholesalers.

Impressivo



Model	E-no
AUD 21 Junction box ProDuct	11 746 16
AUD 31 End package	11 746 07



Model	E-no
1-way socket outlet with USB	*18 150 09



Model	E-no
Switch stair/1-pole	*18 165 57



Model	E-no
Centre plate USB	*18 156 79
USB port 1xUSB C, 1xUSBA	*52 005 18



Model	E-no
Switch stair/1-pole	*18 165 51



Model	E-no
Centrumplatta Jussi 2xRJ45	*18 151 48
RJ45-insats, 2xKeystone	*18 153 63



Model	E-no
Pushbutton spring ret. 1 pole	*18 165 69



Model	E-no
DKS centre plate, Impressivo	*18 156 87
Washer DKS system, D-connector 9-way.	*18 151 34



Model	E-no
2-pole switch	*18 165 45

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
06 819 00	143	356	1 pcs.	11 151 82	18	90	20 pcs.
06 819 02	142	39	1 pcs.	11 151 83	18	90	20 pcs.
11 150 23	12	517	6 pcs.	11 151 85	18	160	15 pcs.
11 150 24	12	1034	10 pcs.	11 151 86	18	160	15 pcs.
11 150 25	12	386	6 pcs.	11 151 88	19	180	15 pcs.
11 150 26	12	568	6 pcs.	11 151 89	18	180	15 pcs.
11 150 27	12	1136	10 pcs.	11 151 91	19	60	12 pcs.
11 150 28	12	568	6 pcs.	11 151 93	19	80	12 pcs.
11 150 29	12	618	6 pcs.	11 151 95	19	120	12 pcs.
11 150 31	12	618	6 pcs.	11 151 97	19	170	12 pcs.
11 150 32	12	668	6 pcs.	11 151 99	19	215	10 pcs.
11 150 33	12	1336	10 pcs.	11 152 01	21	15	10 pcs.
11 150 34	12	668	6 pcs.	11 152 23	25	28	1 pcs.
11 150 35	12	719	6 pcs.	11 152 24	25	28	1 pcs.
11 150 36	12	1438	10 pcs.	11 152 25	25	30	1 pcs.
11 150 42	12	719	6 pcs.	11 152 26	25	41	1 pcs.
11 150 43	12	1290	10 pcs.	11 152 27	25	41	1 pcs.
11 150 46	12	1414	10 pcs.	11 152 28	25	44	1 pcs.
11 150 49	12	1539	10 pcs.	11 152 29	25	54	1 pcs.
11 150 52	12	1872	10 pcs.	11 152 30	25	54	1 pcs.
11 150 55	12	1996	10 pcs.	11 152 31	25	48	1 pcs.
11 150 63	13	1367	20 pcs.	11 152 32	25	84	1 pcs.
11 150 66	13	1499	20 pcs.	11 152 33	25	84	1 pcs.
11 150 69	13	1630	20 pcs.	11 152 34	25	86	1 pcs.
11 150 72	13	1970	20 pcs.	11 152 35	25	100	1 pcs.
11 150 75	13	2102	20 pcs.	11 152 36	25	100	1 pcs.
11 150 77	13	1112	20 pcs.	11 152 37	25	100	1 pcs.
11 150 78	13	1220	20 pcs.	11 152 46	19	239	1 pcs.
11 150 79	13	1328	20 pcs.	11 152 49	19	300	1 pcs.
11 150 80	13	1436	20 pcs.	11 152 64	21	66	10 pcs.
11 150 81	13	1544	20 pcs.	11 152 66	21	66	10 pcs.
11 150 85	14	3153	12 pcs.	11 152 68	19	450	1 pcs.
11 150 88	14	3371	12 pcs.	11 152 92	45	2	10 pcs.
11 150 91	14	3589	12 pcs.	11 152 93	45	2	10 pcs.
11 150 94	14	3807	12 pcs.	11 152 94	24	24	1 pcs.
11 150 97	14	4025	12 pcs.	11 152 95	24	23	1 pcs.
11 151 02	13	1290	10 pcs.	11 152 96	24	23	1 pcs.
11 151 03	13	1410	10 pcs.	11 152 97	24	40	1 pcs.
11 151 04	13	1530	10 pcs.	11 152 98	24	39	10 pcs.
11 151 05	13	1610	10 pcs.	11 152 99	24	46	10 pcs.
11 151 06	13	1740	10 pcs.	11 153 00	24	57	1 pcs.
11 151 07	13	1290	10 pcs.	11 153 01	24	56	1 pcs.
11 151 08	13	1410	10 pcs.	11 153 02	24	59	1 pcs.
11 151 09	13	1530	10 pcs.	11 153 03	24	75	1 pcs.
11 151 10	13	1610	10 pcs.	11 153 04	23	72	10 pcs.
11 151 11	13	1740	10 pcs.	11 153 05	24	72	10 pcs.
11 151 12	14	6450	10 pcs.	11 153 06	24	88	1 pcs.
11 151 13	14	7005	10 pcs.	11 153 07	24	85	1 pcs.
11 151 14	14	7650	10 pcs.	11 153 08	24	85	1 pcs.
11 151 15	14	8005	10 pcs.	11 153 11	28, 74, 109	17	10 pcs.
11 151 16	14	8007	10 pcs.	11 153 12	28, 74, 109	17	10 pcs.
11 151 17	12	7480	10 pcs.	11 153 23	28, 75, 109	18	10 pcs.
11 151 18	12	8260	10 pcs.	11 153 24	28, 75, 109	18	10 pcs.
11 151 19	12	9050	10 pcs.	11 153 26	27, 73	23	50 pcs.
11 151 20	12	11230	10 pcs.	11 153 27	73, 27	24	50 pcs.
11 151 21	12	12290	10 pcs.	11 153 28	27, 73	23	50 pcs.
11 151 76	18	40	35 pcs.	11 153 32	27, 73	39	50 pcs.
11 151 77	18	40	35 pcs.	11 153 33	73, 27	40	50 pcs.
11 151 79	18	60	35 pcs.	11 153 34	27, 73	39	50 pcs.
11 151 80	18	60	35 pcs.	11 153 38	27, 73, 108	232	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 153 39	27, 73, 108	239	10 pcs.	11 154 75	38	524	1 pcs.
11 153 40	27, 73, 106	232	10 pcs.	11 154 83	38	283	1 pcs.
11 153 41	108	155	10 pcs.	11 154 86	38	340	1 pcs.
11 153 42	26	40	10 pcs.	11 154 89	38	398	1 pcs.
11 153 43	26	43	10 pcs.	11 154 92	38	524	1 pcs.
11 153 46	26, 73, 108	13	10 pcs.	11 154 95	38	592	1 pcs.
11 153 47	26, 108	14	10 pcs.	11 155 03	38	654	1 pcs.
11 153 48	26, 73, 108	14	10 pcs.	11 155 05	38	730	1 pcs.
11 153 49	108	14	10 pcs.	11 155 06	38	873	1 pcs.
11 153 60	14	20	10 pcs.	11 155 08	38	950	1 pcs.
11 153 61	14	17	10 pcs.	11 155 09	38	1043	1 pcs.
11 153 63	15	17	10 pcs.	11 155 23	39	290	1 pcs.
11 153 64	14	17	10 pcs.	11 155 26	39	356	1 pcs.
11 153 65	15	19	10 pcs.	11 155 29	39	513	1 pcs.
11 153 67	15	40	10 pcs.	11 155 32	39	537	1 pcs.
11 153 69	16	47	10 pcs.	11 155 35	39	560	1 pcs.
11 153 71	15	58	10 pcs.	11 155 43	39	327	1 pcs.
11 153 74	14	8	10 pcs.	11 155 46	39	376	1 pcs.
11 153 76	14	8	10 pcs.	11 155 49	39	563	1 pcs.
11 153 77	16	70	1 pcs.	11 155 52	39	590	1 pcs.
11 153 78	16	60	10 pcs.	11 155 55	39	616	1 pcs.
11 153 81	17, 74, 106, 122	19	10 pcs.	11 155 57	39	843	1 pcs.
11 153 82	17, 74, 106	17	10 pcs.	11 155 59	39	950	1 pcs.
11 153 84	74, 106	10	10 pcs.	11 155 60	39	1005	1 pcs.
11 153 85	17, 74, 79, 106	11	10 pcs.	11 155 62	39	1200	1 pcs.
11 153 86	17, 74, 79, 106	10	10 pcs.	11 155 63	39	1211	1 pcs.
11 153 87	106	11	10 pcs.	11 155 70	42	24	10 pcs.
11 153 88	17	46	10 pcs.	11 155 71	44	36	1 pcs.
11 153 90	17	16	10 pcs.	11 155 73	44	26	1 pcs.
11 153 91	74, 79	12	10 pcs.	11 155 75	42, 125, 136	24	10 pcs.
11 153 93	36	87	1 pcs.	11 155 76	42, 136	22	10 pcs.
11 153 95	36	87	1 pcs.	11 155 79	42, 125, 136	20	10 pcs.
11 153 96	44	13	10 pcs.	11 155 80	42, 136	21	10 pcs.
11 153 97	41	90	1 pcs.	11 155 85	47	136	6 pcs.
11 153 99	41	170	1 pcs.	11 155 87	42	20	10 pcs.
11 154 01	41	280	1 pcs.	11 155 90	43	28	2 pcs.
11 154 03	37	178	6 pcs.	11 155 91	43	31	2 pcs.
11 154 05	37	178	6 pcs.	11 155 92	43	40	2 pcs.
11 154 06	37	206	6 pcs.	11 155 93	42	21	10 pcs.
11 154 08	37	206	6 pcs.	11 155 94	42	21	10 pcs.
11 154 09	37	256	6 pcs.	11 156 00	40, 112	135	10 pcs.
11 154 11	37	256	6 pcs.	11 156 04	40, 112	210	10 pcs.
11 154 12	37	345	6 pcs.	11 156 08	40, 112	350	10 pcs.
11 154 14	37	256	6 pcs.	11 156 12	40, 112	130	10 pcs.
11 154 15	37	387	6 pcs.	11 156 13	40, 112	130	10 pcs.
11 154 17	37	387	6 pcs.	11 156 14	40, 112	130	10 pcs.
11 154 20	37	204	1 pcs.	11 156 16	40, 112	200	10 pcs.
11 154 23	37	238	1 pcs.	11 156 20	40, 112	340	10 pcs.
11 154 26	37	309	1 pcs.	11 156 24	40, 112	208	10 pcs.
11 154 29	37	383	1 pcs.	11 156 80	47, 116, 125	79	1 set
11 154 32	37	431	1 pcs.	11 157 02	29, 85	204	30 pcs.
11 154 41	37	410	1 pcs.	11 157 04	27, 72, 109	43	1 pcs.
11 154 43	37	480	1 pcs.	11 157 06	27, 72, 109	49	1 pcs.
11 154 45	37	540	1 pcs.	11 157 08	27, 72, 109	56	1 pcs.
11 154 47	37	670	1 pcs.	11 157 10	27, 72, 109	73	1 pcs.
11 154 50	37	812	1 pcs.	11 157 11	47, 92, 116, 125	80	25 pcs.
11 154 63	38	249	1 pcs.	11 157 12	27, 72, 109	98	1 pcs.
11 154 66	38	279	1 pcs.	11 157 13	78	1	10 pcs.
11 154 69	38	348	1 pcs.	11 157 14	46	4	10 pcs.
11 154 72	38	472	1 pcs.	11 157 15	46	4	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 157 16	46, 80	6	10 pcs.	11 158 05	33, 119	761	1 pcs.
11 157 17	46	6	10 pcs.	11 158 07	119	1038	1 pcs.
11 157 18	46	6	10 pcs.	11 158 08	33, 119	1038	1 pcs.
11 157 19	46	6	10 pcs.	11 158 10	117	1520	6 pcs.
11 157 20	30, 80, 110	74	1 pcs.	11 158 11	32	2	25 pcs.
11 157 21	80, 110	82	1 pcs.	11 158 12	33, 120	1520	1 pcs.
11 157 22	110	82	1 pcs.	11 158 14	46	5,4	10 pcs.
11 157 24	30, 80, 110	97	10 pcs.	11 158 15	46	5,7	10 pcs.
11 157 25	80, 110	97	10 pcs.	11 158 17	34	1	10 pcs.
11 157 26	110	97	10 pcs.	11 158 18	34	2	10 pcs.
11 157 28	30, 80, 110	125	1 pcs.	11 158 19	34	2	10 pcs.
11 157 29	80, 110	125	1 pcs.	11 158 20	46, 81, 111	9	10 pcs.
11 157 30	110	125	1 pcs.	11 158 22	46, 81, 111	12	10 pcs.
11 157 32	30, 80, 110	165	1 pcs.	11 158 25	36	18	10 pcs.
11 157 33	80, 110	165	1 pcs.	11 158 27	20	130	8 pcs.
11 157 34	110	165	1 pcs.	11 158 28	35, 120	40	20 pcs.
11 157 36	30, 80, 110	210	65 pcs.	11 158 32	32	46	10 pcs.
11 157 37	80, 110	210	1 pcs.	11 158 38	32, 81, 111	43	1 pcs.
11 157 38	110	210	1 pcs.	11 158 39	32, 81, 111, 119	43	1 pcs.
11 157 40	31, 110	250	1 pcs.	11 158 40	32, 111, 119	41	1 pcs.
11 157 41	110	250	1 pcs.	11 158 42	32, 81, 111	65	1 pcs.
11 157 42	110	250	1 pcs.	11 158 43	32, 81, 111, 119	65	1 pcs.
11 157 44	31, 110	330	1 pcs.	11 158 44	32, 111, 119	65	1 pcs.
11 157 45	110	330	1 pcs.	11 158 46	32, 81, 111	87	1 pcs.
11 157 46	110	330	1 pcs.	11 158 47	32, 81, 111, 119	87	1 pcs.
11 157 48	31, 110	410	1 pcs.	11 158 48	32, 111, 119	86	1 pcs.
11 157 49	110	410	1 pcs.	11 158 50	32, 81, 111	130	1 pcs.
11 157 50	110	410	1 pcs.	11 158 51	32, 81, 111, 119	130	1 pcs.
11 157 52	31, 110	605	5 pcs.	11 158 52	32, 111, 119	130	1 pcs.
11 157 53	110	605	1 pcs.	11 158 54	32, 81, 111	173	1 pcs.
11 157 54	110	605	1 pcs.	11 158 55	32, 81, 111, 119	173	1 pcs.
11 157 56	31, 110	800	5 pcs.	11 158 56	32, 111, 119	163	1 pcs.
11 157 57	110	800	1 pcs.	11 158 58	20	180	1 pcs.
11 157 58	110	800	1 pcs.	11 158 59	20	190	1 pcs.
11 157 60	31, 110	1210	5 pcs.	11 158 60	33, 119	190	1 pcs.
11 157 61	110	1210	1 pcs.	11 158 61	33, 119	190	1 pcs.
11 157 62	110	1210	1 pcs.	11 158 65	33, 119	254	1 pcs.
11 157 64	31	550	1 pcs.	11 158 66	33, 119	257	1 pcs.
11 157 68	31	815	5 pcs.	11 158 79	34	43	10 pcs.
11 157 72	31	1080	5 pcs.	11 158 81	34	5	10 pcs.
11 157 76	31	1630	5 pcs.	11 158 82	34	27	10 pcs.
11 157 79	32	20	50 pcs.	11 158 83	35	60	10 pcs.
11 157 80	47, 116	78	25 pcs.	11 158 84	35	50	10 pcs.
11 157 83	47, 75, 115, 142	78	10 pcs.	11 160 00	118	170	10 pcs.
11 157 84	47	30	10 pcs.	11 161 00	118	170	10 pcs.
11 157 85	47, 75, 115, 142	78	10 pcs.	11 160 17	62	100	10 pcs.
11 157 86	47	36	10 pcs.	11 160 18	62	100	10 pcs.
11 157 87	142	23	10 pcs.	11 160 25	118, 130	130	10 pcs.
11 157 88	47, 75, 115, 142	27	10 pcs.	11 160 26	118, 130	130	10 pcs.
11 157 89	47, 75, 115, 142	26	10 pcs.	11 160 27	118, 130	130	1 pcs.
11 157 90	30	240	1 pcs.	11 160 29	118, 130	175	10 pcs.
11 157 92	30	310	1 pcs.	11 160 30	118, 130	175	10 pcs.
11 157 94	30	440	10 pcs.	11 160 31	118, 130	170	1 pcs.
11 157 96	32, 81, 111	46	10 pcs.	11 160 33	116, 130	216	6 pcs.
11 157 97	32, 81, 111	46	10 pcs.	11 160 34	118, 130	216	6 pcs.
11 157 98	32, 111	46	10 pcs.	11 160 35	118, 130	216	1 pcs.
11 158 00	32, 111, 119	519	6 pcs.	11 160 37	118, 130	310	4 pcs.
11 158 01	32, 81, 111	519	6 pcs.	11 160 38	118, 130	310	4 pcs.
11 158 02	32, 81, 111, 119	519	6 pcs.	11 160 39	118, 130	310	1 pcs.
11 158 04	33, 119	761	1 pcs.	11 160 41	118, 130	390	4 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 160 42	118, 130	390	4 pcs.	11 161 56	58	290	1 pcs.
11 160 43	118, 130	390	1 pcs.	11 161 57	58	290	1 pcs.
11 160 45	118, 130	565	4 pcs.	11 161 58	58	350	1 pcs.
11 160 46	118, 130	565	4 pcs.	11 161 59	58	350	1 pcs.
11 160 47	118, 130	565	1 pcs.	11 161 61	58	400	1 pcs.
11 160 49	116, 130	735	4 pcs.	11 161 62	58	450	1 pcs.
11 160 50	118, 130	735	4 pcs.	11 161 63	58	450	1 pcs.
11 160 51	118, 130	735	10 pcs.	11 161 66	58	370	1 pcs.
11 161 00	51, 118	1344	1 pcs.	11 161 67	58	370	1 pcs.
11 161 01	51	1344	1 pcs.	11 161 68	58	420	1 pcs.
11 161 02	51	1404	1 pcs.	11 161 69	58	420	1 pcs.
11 161 03	51	1404	1 pcs.	11 161 70	58	465	1 pcs.
11 161 04	51	1506	1 pcs.	11 161 71	58	465	1 pcs.
11 161 05	51	1506	1 pcs.	11 161 72	58	510	1 pcs.
11 161 06	51	1626	1 pcs.	11 161 73	58	510	1 pcs.
11 161 07	51	1626	1 pcs.	11 161 74	58	550	1 pcs.
11 161 08	51	1700	1 pcs.	11 161 75	58	550	1 pcs.
11 161 09	51	1700	1 pcs.	11 161 78	58	170	1 pcs.
11 161 10	51	1854	1 pcs.	11 161 79	58	170	1 pcs.
11 161 11	51	1854	1 pcs.	11 161 80	58	190	1 pcs.
11 161 12	51	2202	1 pcs.	11 161 81	58	190	1 pcs.
11 161 13	51	2202	1 pcs.	11 161 82	58	210	1 pcs.
11 161 14	51	2304	1 pcs.	11 161 83	58	210	1 pcs.
11 161 15	51	2304	1 pcs.	11 161 84	58	230	1 pcs.
11 161 16	51	2424	1 pcs.	11 161 85	58	230	1 pcs.
11 161 17	51	2424	1 pcs.	11 161 86	58	250	1 pcs.
11 161 18	51	2538	1 pcs.	11 161 87	58	250	1 pcs.
11 161 19	51	2538	1 pcs.	11 161 88	52	40	1 pcs.
11 161 20	51	2652	1 pcs.	11 161 89	52	40	1 pcs.
11 161 21	51	2652	1 pcs.	11 161 93	52	48	1 pcs.
11 161 24	54	47	1 pcs.	11 161 94	52	40	1 pcs.
11 161 25	54	47	1 pcs.	11 161 95	52	40	1 pcs.
11 161 26	54	110	25 pcs.	11 161 96	52	40	1 pcs.
11 161 27	54	110	1 pcs.	11 161 97	52	40	10 pcs.
11 161 28	54	140	1 pcs.	11 161 98	54	21	10 pcs.
11 161 29	54	140	1 pcs.	11 161 99	54	21	10 pcs.
11 161 30	54	200	1 pcs.	11 162 00	54	26	10 pcs.
11 161 31	54	200	1 pcs.	11 162 01	54	26	10 pcs.
11 161 32	54	235	1 pcs.	11 162 02	54	15	1 pcs.
11 161 33	54	235	1 pcs.	11 162 03	54	15	10 pcs.
11 161 34	54	376	1 pcs.	11 162 04	54	15	10 pcs.
11 161 35	54	376	1 pcs.	11 162 05	54	15	10 pcs.
11 161 36	55	50	1 pcs.	11 162 06	55	40	10 pcs.
11 161 37	55	50	1 pcs.	11 162 07	55	40	10 pcs.
11 161 38	55	64	30 pcs.	11 162 10	57	89	1 pcs.
11 161 39	55	64	1 pcs.	11 162 11	57	89	1 pcs.
11 161 40	55	93	1 pcs.	11 162 12	57	104	1 pcs.
11 161 41	55	93	1 pcs.	11 162 13	57	104	1 pcs.
11 161 42	55	122	20 pcs.	11 162 14	57	130	1 pcs.
11 161 43	55	122	1 pcs.	11 162 15	57	130	1 pcs.
11 161 44	55	151	1 pcs.	11 162 16	57	169	1 pcs.
11 161 45	55	151	1 pcs.	11 162 17	57	169	1 pcs.
11 161 46	55	180	1 pcs.	11 162 18	57	218	1 pcs.
11 161 47	55	180	1 pcs.	11 162 19	57	218	1 pcs.
11 161 48	55	6	10 pcs.	11 162 20	57	398	1 pcs.
11 161 49	55	6	10 pcs.	11 162 21	57	398	1 pcs.
11 161 50	55	5	10 pcs.	11 162 22	57	280	1 pcs.
11 161 51	55	5	104 pcs.	11 162 23	57	280	1 pcs.
11 161 54	58	260	1 pcs.	11 162 24	57	370	1 pcs.
11 161 55	58	260	1 pcs.	11 162 25	57	370	1 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 162 26	57	475	1 pcs.	11 163 03	51	1042	1 pcs.
11 162 27	57	475	1 pcs.	11 163 04	51	1126	1 pcs.
11 162 28	57	670	1 pcs.	11 163 05	51	1126	1 pcs.
11 162 29	57	670	1 pcs.	11 163 06	51	1210	1 pcs.
11 162 30	57	865	1 pcs.	11 163 07	51	1210	1 pcs.
11 162 31	57	865	1 pcs.	11 163 08	51	1294	1 pcs.
11 162 32	57	1255	1 pcs.	11 163 09	51	1294	1 pcs.
11 162 33	57	1255	1 pcs.	11 163 10	51	1380	1 pcs.
11 162 34	57	65	1 pcs.	11 163 11	51	1380	1 pcs.
11 162 35	57	65	1 pcs.	11 163 12	52	16	1 pcs.
11 162 36	57	100	1 pcs.	11 163 13	52	16	1 pcs.
11 162 37	57	100	1 pcs.	11 163 14	52	2	1 set
11 162 38	57	125	1 pcs.	11 163 15	53	26	1 pcs.
11 162 39	57	125	1 pcs.	11 163 16	53	26	10 pcs.
11 162 40	57	270	1 pcs.	11 163 17	53	58	1 pcs.
11 162 41	57	270	1 pcs.	11 163 18	53	58	1 pcs.
11 162 42	56	40	1 pcs.	11 163 19	53	47	1 pcs.
11 162 43	56	40	1 pcs.	11 163 20	53	47	1 pcs.
11 162 44	56	51	1 pcs.	11 163 21	53	24	1 pcs.
11 162 45	56	51	1 pcs.	11 163 22	53	24	1 pcs.
11 162 46	56	62	1 pcs.	11 163 91	95	183	6 pcs.
11 162 47	56	62	1 pcs.	11 163 93	95	183	6 pcs.
11 162 48	56	73	1 pcs.	11 163 94	93	183	6 pcs.
11 162 49	56	73	1 pcs.	11 163 95	95	183	6 pcs.
11 162 52	56	365	1 pcs.	11 163 97	95	186	6 pcs.
11 162 53	56	365	1 pcs.	11 164 00	95	200	6 pcs.
11 162 54	56	540	1 pcs.	11 164 02	95	200	6 pcs.
11 162 55	56	540	1 pcs.	11 164 04	95	200	6 pcs.
11 162 56	56	1080	1 pcs.	11 164 06	95	200	6 pcs.
11 162 57	56	1080	1 pcs.	11 164 09	95	310	6 pcs.
11 162 58	54	14	50 pcs.	11 164 10	96	390	2 pcs.
11 162 59	54	14	1 pcs.	11 164 11	95	310	6 pcs.
11 162 60	59	61	40 pcs.	11 164 13	96	390	2 pcs.
11 162 61	59	61	1 pcs.	11 164 14	96	390	2 pcs.
11 162 64	59	28	1 pcs.	11 164 15	95	310	6 pcs.
11 162 65	59	28	1 pcs.	11 164 16	95	310	6 pcs.
11 162 74	59	70	1 pcs.	11 164 18	95	420	4 pcs.
11 162 75	59	70	1 pcs.	11 164 19	96	500	2 pcs.
11 162 76	59	110	1 pcs.	11 164 20	95	420	4 pcs.
11 162 77	59	110	1 pcs.	11 164 22	96	500	2 pcs.
11 162 78	59	104	1 pcs.	11 164 23	96	500	2 pcs.
11 162 79	59	104	1 pcs.	11 164 24	95	420	4 pcs.
11 162 80	59	160	1 pcs.	11 164 25	95	420	4 pcs.
11 162 81	59	160	1 pcs.	11 164 27	95	540	2 pcs.
11 162 82	62	230	1 pcs.	11 164 28	96	620	2 pcs.
11 162 83	62	230	1 pcs.	11 164 29	95	540	2 pcs.
11 162 84	62	290	1 pcs.	11 164 31	96	620	2 pcs.
11 162 85	62	290	1 pcs.	11 164 32	96	620	2 pcs.
11 162 90	60	2	25 pcs.	11 164 33	95	540	2 pcs.
11 162 91	60	4	1 pcs.	11 164 34	95	540	2 pcs.
11 162 92	60	22	25 pcs.	11 164 36	95	750	2 pcs.
11 162 93	60	6	1 pcs.	11 164 37	96	863	2 pcs.
11 162 94	60	8	10 pcs.	11 164 38	95	750	2 pcs.
11 162 95	60	8	10 pcs.	11 164 40	96	863	2 pcs.
11 162 96	60	10	1 pcs.	11 164 41	96	863	2 pcs.
11 162 97	61	1	10 pcs.	11 164 42	95	750	2 pcs.
11 162 98	61	1	10 pcs.	11 164 43	95	750	2 pcs.
11 162 99	61	2	10 pcs.	11 164 45	95	898	2 pcs.
11 163 00	61	2	10 pcs.	11 164 46	96	1012	2 pcs.
11 163 02	51	1042	1 pcs.	11 164 47	95	898	2 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 164 49	96	1012	2 pcs.	11 165 88	102	6	10 pcs.
11 164 50	96	1012	2 pcs.	11 165 89	101	109	20 pcs.
11 164 51	95	898	2 pcs.	11 165 90	100	3	1 pcs.
11 164 52	95	898	2 pcs.	11 165 93	100	5	1 pcs.
11 164 54	95	1057	2 pcs.	11 165 96	100	13	1 pcs.
11 164 55	96	1170	2 pcs.	11 165 99	100	17	1 pcs.
11 164 56	95	1057	2 pcs.	11 166 03	102	11	10 pcs.
11 164 58	96	1170	2 pcs.	11 166 05	102	9	10 pcs.
11 164 59	96	1170	2 pcs.	11 166 06	102	9	10 pcs.
11 164 60	95	1057	2 pcs.	11 166 09	102	12	10 pcs.
11 164 61	95	1057	2 pcs.	11 166 10	102	3	10 pcs.
11 164 63	95	220	6 pcs.	11 166 12	114	32	10 pcs.
11 164 65	95	240	6 pcs.	11 166 13	114	27	10 pcs.
11 164 67	95	300	6 pcs.	11 166 14	114	27	10 pcs.
11 164 69	95	415	4 pcs.	11 166 16	114	27	10 pcs.
11 164 71	96	126	6 pcs.	11 166 18	114	29	10 pcs.
11 164 80	96	110	1 pcs.	11 166 19	114	27	10 pcs.
11 165 10	97	6	10 pcs.	11 166 20	114	27	10 pcs.
11 165 12	97	6	10 pcs.	11 166 22	114	27	10 pcs.
11 165 14	97	12	10 pcs.	11 166 23	115	37	2 pcs.
11 165 16	97	6	10 pcs.	11 166 24	114	40	2 pcs.
11 165 20	97	2	10 pcs.	11 166 25	114	49	2 pcs.
11 165 22	97	2	10 pcs.	11 166 32	25	39	60 pcs.
11 165 26	97	2	10 pcs.	11 166 41	25	50	40 pcs.
11 165 30	21, 97	2	10 pcs.	11 166 50	25	66	1 pcs.
11 165 32	21, 97	3	10 pcs.	11 166 57	104	9	10 pcs.
11 165 34	21, 97	3	10 pcs.	11 161 61	113	400	1 pcs.
11 165 36	97	3	10 pcs.	11 166 63	104	20	10 pcs.
11 165 38	106	11	10 pcs.	11 166 64	104	20	10 pcs.
11 165 39	106	11	10 pcs.	11 166 65	104	20	10 pcs.
11 165 40	106	11	10 pcs.	11 166 67	104	20	10 pcs.
11 165 41	106	11	10 pcs.	11 166 69	105	23	10 pcs.
11 165 43	103	27	10 pcs.	11 166 70	105	23	10 pcs.
11 165 44	103	15	10 pcs.	11 166 71	105	51	10 pcs.
11 165 46	103	28	10 pcs.	11 166 72	105	23	10 pcs.
11 165 49	103	15	10 pcs.	11 166 73	105	51	10 pcs.
11 165 52	18, 79, 103	30	50 pcs.	11 166 74	105	23	10 pcs.
11 165 53	18, 79, 103	20	1 pcs.	11 166 75	105	51	10 pcs.
11 165 55	18, 103	32	1 pcs.	11 166 76	105	51	10 pcs.
11 165 58	103	20	1 pcs.	11 166 77	105	7	10 pcs.
11 165 61	18, 79, 103	42	40 pcs.	11 166 78	105	8	10 pcs.
11 165 62	18, 79, 103	30	1 pcs.	11 166 79	105	8	10 pcs.
11 165 64	18, 103	45	1 pcs.	11 166 81	105	8	10 pcs.
11 165 67	103	30	1 pcs.	11 166 84	107	8	10 pcs.
11 165 70	18, 79, 103	52	1 pcs.	11 166 86	107	8	10 pcs.
11 165 71	18, 79, 103	40	1 pcs.	11 166 88	107	8	10 pcs.
11 165 73	18, 103	59	1 pcs.	11 166 92	105	5	10 pcs.
11 165 74	18, 79, 103	160	1 pcs.	11 166 93	105	5	10 pcs.
11 165 75	18, 79, 103	160	1 pcs.	11 166 94	105	5	10 pcs.
11 165 76	103	40	1 pcs.	11 166 95	105	5	10 pcs.
11 165 78	18, 103	160	1 pcs.	11 167 00	100	4	10 pcs.
11 165 79	103	160	1 pcs.	11 167 01	100	4	10 pcs.
11 165 80	18, 79, 103	180	1 pcs.	11 167 02	100	6	10 pcs.
11 165 81	103	180	1 pcs.	11 167 03	116	3	25 pcs.
11 165 82	18, 79, 103	180	1 pcs.	11 167 06	116	4	25 pcs.
11 165 83	103	3	10 pcs.	11 167 09	116	6	25 pcs.
11 165 84	18, 103	180	1 pcs.	11 167 10	101	2	10 pcs.
11 165 85	102	6	10 pcs.	11 167 11	101	2	10 pcs.
11 165 86	102	6	10 pcs.	11 167 12	101	2	10 pcs.
11 165 87	102	6	10 pcs.	11 167 13	101	2	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 167 15	29, 92, 143	5	100 pcs.	11 171 59	67	117	2 pcs.
11 170 07	66	424	6 pcs.	11 171 60	67	117	2 pcs.
11 170 08	66	424	6 pcs.	11 171 61	67, 113	132	2 pcs.
11 170 13	66	365	6 pcs.	11 171 62	67	138	2 pcs.
11 170 14	66	365	6 pcs.	11 171 63	113	61	1 pcs.
11 170 18	66	483	6 pcs.	11 171 65	67	220	2 pcs.
11 170 19	66	483	6 pcs.	11 171 69	67	168	2 pcs.
11 170 20	66	601	4 pcs.	11 171 70	67	174	2 pcs.
11 170 21	66	601	4 pcs.	11 171 72	113	201	2 pcs.
11 170 24	66	718	4 pcs.	11 171 73	113	90	1 pcs.
11 170 25	66	718	4 pcs.	11 171 75	67	225	2 pcs.
11 170 30	66	636	4 pcs.	11 171 76	67	231	2 pcs.
11 170 31	66	636	4 pcs.	11 171 78	48, 67	318	2 pcs.
11 170 34	66	991	2 pcs.	11 171 79	48, 67, 113	318	2 pcs.
11 170 35	66	991	2 pcs.	11 171 80	48, 67	324	2 pcs.
11 170 38	66	1190	2 pcs.	11 171 81	113	130	1 pcs.
11 170 39	66	1190	2 pcs.	11 171 85	113	189	1 pcs.
11 170 40	66	1662	2 pcs.	11 171 89	113	248	1 pcs.
11 170 41	66	1662	2 pcs.	11 171 94	113	620	1 pcs.
11 170 44	66	483	6 pcs.	11 171 95	48, 67, 113	975	2 pcs.
11 170 45	66	718	4 pcs.	11 171 96	48, 67	975	2 pcs.
11 170 46	66	636	4 pcs.	11 171 97	48, 67, 113	300	2 pcs.
11 170 47	66	991	2 pcs.	11 171 98	48, 67	300	2 pcs.
11 170 49	66	1660	2 pcs.	11 172 00	48, 67, 113	670	2 pcs.
11 170 50	66	43	6 pcs.	11 172 01	48, 67	670	2 pcs.
11 170 55	66	355	6 pcs.	11 172 02	113	530	1 pcs.
11 170 56	66	355	6 pcs.	11 172 03	48, 67, 113	820	2 pcs.
11 170 59	66	836	2 pcs.	11 172 04	48, 67	820	2 pcs.
11 170 61	66	418	6 pcs.	11 172 05	22, 78	25	10 pcs.
11 170 62	66	418	6 pcs.	11 172 06	22, 78	26	10 pcs.
11 170 63	66	418	6 pcs.	11 172 07	22	26	10 pcs.
11 170 65	66	473	6 pcs.	11 172 09	22, 78	60	5 pcs.
11 170 66	66	473	6 pcs.	11 172 10	22, 78	58	5 pcs.
11 170 71	66	591	4 pcs.	11 172 11	22	68	5 pcs.
11 170 72	66	591	4 pcs.	11 172 15	48, 67	59	2 pcs.
11 170 77	66	709	4 pcs.	11 172 16	48, 67	67	2 pcs.
11 170 78	66	709	4 pcs.	11 172 19	48, 67	82	2 pcs.
11 170 79	67	343	6 pcs.	11 172 20	48, 67	98	2 pcs.
11 170 80	67	343	6 pcs.	11 172 57	79	31	10 pcs.
11 170 81	67	395	6 pcs.	11 172 58	79	30	10 pcs.
11 170 82	67	395	6 pcs.	11 172 61	79	60	10 pcs.
11 170 83	67	448	6 pcs.	11 172 62	79	58	10 pcs.
11 170 84	67	448	6 pcs.	11 172 80	21, 78, 103	43	10 pcs.
11 170 85	67	553	4 pcs.	11 172 81	21, 78, 103	31	10 pcs.
11 170 86	67	553	4 pcs.	11 172 82	103	31	10 pcs.
11 170 87	67	651	4 pcs.	11 173 09	91	17	10 pcs.
11 170 88	67	651	4 pcs.	11 173 10	91	15	10 pcs.
11 170 89	67	575	4 pcs.	11 173 11	91	25	10 pcs.
11 170 90	67	575	4 pcs.	11 173 12	91	23	10 pcs.
11 170 91	67	884	2 pcs.	11 173 17	91	45	10 pcs.
11 170 92	67	884	2 pcs.	11 173 18	91	43	10 pcs.
11 170 93	67	1053	2 pcs.	11 173 87	22, 69	10	10 pcs.
11 170 94	67	1053	2 pcs.	11 173 88	22, 69	11	10 pcs.
11 171 04	67	1462	2 pcs.	11 173 91	69	14	10 pcs.
11 171 05	67	1462	2 pcs.	11 173 92	69	13	10 pcs.
11 171 50	48, 85	1	10 pcs.	11 173 93	69	14	10 pcs.
11 171 51	48	1	10 pcs.	11 173 97	71	2	10 pcs.
11 171 54	113	106	1 pcs.	11 173 98	70	5	10 pcs.
11 171 57	113	106	1 pcs.	11 173 99	69	14	10 pcs.
11 171 58	113	106	1 pcs.	11 174 00	69	14	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 174 11	75	3	10 pcs.	11 177 83	88	48	12 pcs.
11 174 51	69	8	10 pcs.	11 177 86	88	67	8 pcs.
11 174 53	69	9	10 pcs.	11 177 87	88	67	8 pcs.
11 174 54	69	12	10 pcs.	11 177 90	88	86	12 pcs.
11 174 55	69	12	10 pcs.	11 177 91	88	91	12 pcs.
11 174 59	69	18	10 pcs.	11 177 94	88	105	10 pcs.
11 174 63	69	24	10 pcs.	11 177 95	88	105	10 pcs.
11 174 67	69	43	1 pcs.	11 177 98	88	124	1 pcs.
11 174 71	69	59	1 pcs.	11 178 65	87	5	10 pcs.
11 174 75	69	72	1 pcs.	11 178 68	87	6	10 pcs.
11 174 79	69	85	1 pcs.	11 178 71	87	9	10 pcs.
11 174 82	23	2	10 pcs.	11 178 76	87	11	10 pcs.
11 175 01	70	2	10 pcs.	11 178 77	87	14	10 pcs.
11 175 02	70	2	10 pcs.	11 178 78	87	20	10 pcs.
11 175 03	70	2	10 pcs.	11 178 79	87	34	1 pcs.
11 175 10	70	7	10 pcs.	11 178 80	87	32	15 pcs.
11 175 11	70	7	10 pcs.	11 178 81	88	3	10 pcs.
11 175 21	72	5	10 pcs.	11 178 82	88	3	10 pcs.
11 175 22	72	5	10 pcs.	11 178 85	88	7	10 pcs.
11 175 50	71, 106, 155	180	40 pcs.	11 178 86	88	7	10 pcs.
11 175 51	70	7	10 pcs.	11 178 87	88	10	10 pcs.
11 175 52	70	7	10 pcs.	11 178 88	88	10	10 pcs.
11 175 55	71, 107	100	25 pcs.	11 178 89	88	13	10 pcs.
11 175 56	71, 107	105	20 pcs.	11 178 90	88	13	10 pcs.
11 175 57	71, 107	150	25 pcs.	11 178 91	88	15	10 pcs.
11 175 58	71, 107	155	20 pcs.	11 178 92	88	15	10 pcs.
11 175 62	107	70	20 pcs.	11 178 93	87	38	25 pcs.
11 175 63	107	70	20 pcs.	11 178 94	88	22	50 pcs.
11 175 64	71	155	20 pcs.	11 178 95	88	22	10 pcs.
11 175 97	68	25	10 pcs.	11 178 98	88	30	15 pcs.
11 176 01	68	25	10 pcs.	11 178 99	88	30	15 pcs.
11 176 01	68	30	1 pcs.	11 179 00	88	4	10 pcs.
11 176 03	68	39	1 pcs.	11 179 03	88	4	10 pcs.
11 176 07	68	47	1 pcs.	11 179 05	83	34	1 pcs.
11 176 10	68	21	10 pcs.	11 179 06	83	35	1 pcs.
11 176 13	68	65	1 pcs.	11 179 07	88	38	25 pcs.
11 176 15	68	83	20 pcs.	11 179 08	88	38	25 pcs.
11 176 19	68	101	10 pcs.	11 179 10	87	3	10 pcs.
11 176 21	68	119	1 pcs.	11 179 14	87	6	10 pcs.
11 176 39	68	62	25 pcs.	11 179 16	87	10	10 pcs.
11 176 40	68	3	25 pcs.	11 179 18	87	13	10 pcs.
11 176 43	68	13	10 pcs.	11 179 20	87	15	10 pcs.
11 176 45	89	7	10 pcs.	11 179 22	87	22	1 pcs.
11 176 82	91	5	10 pcs.	11 179 24	87	30	1 pcs.
11 176 84	91	6	10 pcs.	11 179 26	87	38	1 pcs.
11 176 86	91	7	10 pcs.	11 179 45	82	25	4 pcs.
11 176 88	91	9	1 pcs.	11 179 46	82	25	1 pcs.
11 176 90	91	10	10 pcs.	11 180 05	83	43	1 pcs.
11 176 92	91	12	10 pcs.	11 180 06	83	44	1 pcs.
11 176 94	91	14	10 pcs.	11 183 80	86	22	10 pcs.
11 176 96	91	16	10 pcs.	11 183 81	86	22	10 pcs.
11 177 70	88	20	30 pcs.	11 183 83	86	21	10 pcs.
11 177 71	88	20	30 pcs.	11 183 84	86	21	10 pcs.
11 177 72	88	20	30 pcs.	11 183 85	86	21	10 pcs.
11 177 73	88	26	30 pcs.	11 183 98	42, 87	260	36 pcs.
11 177 74	88	29	30 pcs.	11 183 99	42, 87	260	36 pcs.
11 177 75	88	29	30 pcs.	11 184 00	86	22	10 pcs.
11 177 78	88	38	20 pcs.	11 184 01	86	22	10 pcs.
11 177 79	88	38	20 pcs.	11 184 02	86	21	10 pcs.
11 177 82	88	48	12 pcs.	11 184 03	86	21	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 184 07	44	23	10 pcs.	11 192 12	82	118	10 pcs.
11 184 08	44	20	10 pcs.	11 192 13	82	118	10 pcs.
11 184 09	87	28	10 pcs.	11 192 16	82	170	1 pcs.
11 184 10	87	28	10 pcs.	11 192 17	82	170	1 pcs.
11 184 13	87	62	10 pcs.	11 192 20	82	222	1 pcs.
11 184 14	87	32	10 pcs.	11 192 21	82	222	1 pcs.
11 184 15	86	20	10 pcs.	11 192 24	82	274	1 pcs.
11 184 16	86	20	10 pcs.	11 192 25	82	170	1 pcs.
11 184 17	86	20	10 pcs.	11 192 26	82	326	1 pcs.
11 184 18	86	20	10 pcs.	11 192 27	82	326	1 pcs.
11 184 21	90	5	10 pcs.	11 192 28	83	51	1 pcs.
11 184 33	90	7	10 pcs.	11 192 29	83	51	1 pcs.
11 184 34	90	6	10 pcs.	11 192 32	83	59	1 pcs.
11 184 36	90	8	10 pcs.	11 192 33	83	84	1 pcs.
11 184 37	90	8	10 pcs.	11 192 36	83	118	1 pcs.
11 184 38	90	8	10 pcs.	11 192 37	83	118	1 pcs.
11 184 39	90	11	10 pcs.	11 192 40	83	151	1 pcs.
11 184 40	90	11	10 pcs.	11 192 41	83	151	1 pcs.
11 184 43	90	13	10 pcs.	11 192 44	83	218	1 pcs.
11 184 44	90	13	10 pcs.	11 192 45	83	218	1 pcs.
11 184 47	90	15	10 pcs.	11 192 48	83	285	1 pcs.
11 184 48	90	15	10 pcs.	11 192 49	83	285	1 pcs.
11 184 70	84	40	25 pcs.	11 192 52	83	351	1 pcs.
11 184 72	41, 84, 113	63	10 pcs.	11 192 53	83	351	1 pcs.
11 184 73	85	3	10 pcs.	11 192 54	83	418	1 pcs.
11 184 75	41, 84, 113	63	1 pcs.	11 192 55	83	418	1 pcs.
11 184 77	84	54	25 pcs.	11 192 56	83	67	1 pcs.
11 184 78	41, 84, 113	63	25 pcs.	11 192 57	83	67	1 pcs.
11 184 80	41	63	25 pcs.	11 192 60	83	106	1 pcs.
11 184 81	41	85	25 pcs.	11 192 61	83	106	1 pcs.
11 185 00	76	160	10 pcs.	11 192 64	83	145	1 pcs.
11 185 02	76	2	10 pcs.	11 192 65	83	145	1 pcs.
11 185 08	84	1	10 pcs.	11 192 68	83	184	1 pcs.
11 185 09	84	1	10 pcs.	11 192 69	83	184	1 pcs.
11 185 24	76	3	10 pcs.	11 192 72	83	261	1 pcs.
11 185 26	76	5	10 pcs.	11 192 73	83	261	1 pcs.
11 185 28	76	10	10 pcs.	11 192 76	83	339	1 pcs.
11 185 30	76	20	10 pcs.	11 192 77	83	339	1 pcs.
11 185 31	77	9	10 pcs.	11 192 80	83	417	1 pcs.
11 185 32	77	11	10 pcs.	11 192 81	83	417	1 pcs.
11 185 33	77	13	10 pcs.	11 192 84	83	494	1 pcs.
11 185 34	77	15	10 pcs.	11 192 85	83	494	1 pcs.
11 185 35	77	14	10 pcs.	11 193 00	82	13	10 pcs.
11 185 36	77	9	10 pcs.	11 193 01	82	13	10 pcs.
11 185 37	77	11	10 pcs.	11 193 02	82	16	10 pcs.
11 185 40	84	3	10 pcs.	11 193 03	82	16	10 pcs.
11 185 42	84	5	10 pcs.	11 193 04	82	28	10 pcs.
11 185 44	84	6	10 pcs.	11 193 05	82	28	10 pcs.
11 185 46	84	7	10 pcs.	11 193 08	82	45	10 pcs.
11 185 48	84	10	1 pcs.	11 193 09	82	45	10 pcs.
11 185 50	84	12	1 pcs.	11 193 12	82	68	10 pcs.
11 185 52	84	14	1 pcs.	11 193 13	82	68	10 pcs.
11 190 24	89	114	20 pcs.	11 193 16	82	108	10 pcs.
11 190 25	89	114	20 pcs.	11 193 17	82	108	10 pcs.
11 192 00	82	47	1 pcs.	11 193 20	82	148	10 pcs.
11 192 01	82	49	1 pcs.	11 193 21	82	220	10 pcs.
11 192 04	82	47	1 pcs.	11 193 24	82	376	5 pcs.
11 192 05	82	50	1 pcs.	11 193 25	82	376	5 pcs.
11 192 08	82	92	1 pcs.	11 193 28	82	456	1 pcs.
11 192 09	82	70	1 pcs.	11 193 29	82	456	1 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 195 00	92	55	1 pcs.	11 784 38	170	1	1 pcs.
11 744 88	158	820	1 pcs.	11 784 39	191	4	10 pcs.
11 745 69	198	10,8	10 pcs.	11 778 48	159	1	1 pcs.
11 745 74	198	10,8	10 pcs.	11 785 35	159	1	1 pcs.
11 745 77	196	17	25 pcs.	11 785 38	159	1100	1 pcs.
11 745 78	196	17	25 pcs.	11 787 02	164	106	1 pcs.
11 745 85	196	27	20 pcs.	11 787 03	164	106	1 pcs.
11 745 86	196	27	20 pcs.	11 787 17	187	4,1	10 pcs.
11 745 89	196	37	25 pcs.	11 787 30	187	5,1	10 pcs.
11 745 90	196	37	25 pcs.	11 787 50	187	6,1	10 pcs.
11 745 93	196	47	20 pcs.	11 787 70	187	7,1	10 pcs.
11 745 97	197	2,3	10 pcs.	11 787 90	193	425	4 pcs.
11 746 04	198	3,8	10 pcs.	11 787 91	193	425	4 pcs.
11 746 05	198	6,5	10 pcs.	11 787 92	193	4	2 pcs.
11 746 07	199	2,3	10 pcs.	11 787 93	193	4	2 pcs.
11 746 09	197	22	25 pcs.	11 787 95	193	6	2 pcs.
11 746 16	198	3,7	10 pcs.	11 787 96	193	6	2 pcs.
11 746 42	194	1,1	10 pcs.	11 787 97	193	6	2 pcs.
11 746 43	194	1	10 pcs.	11 787 98	193	6	2 pcs.
11 746 44	194	1,1	10 pcs.	11 787 99	190	0,1	100 pcs.
11 746 45	194	1,1	10 pcs.	11 788 05	190	6,5	20 pcs.
11 746 46	194	3,7	10 pcs.	11 788 06	190	1,1	10 pcs.
11 746 47	194	5	10 pcs.	11 788 07	190	1,5	10 pcs.
11 770 13	176	74	1 pcs.	11 788 08	190	1,9	10 pcs.
11 770 40	177	404	1 pcs.	11 788 09	190	2,3	10 pcs.
11 770 41	177	260	1 pcs.	11 788 10	189	9	10 pcs.
11 770 42	177	3	1 pcs.	11 788 14	190	23	10 pcs.
11 770 43	177	6	1 pcs.	11 788 15	190	42	10 pcs.
11 770 44	177	4	10 pcs.	11 788 18	191	57	30 pcs.
11 770 45	177	3	10 pcs.	11 788 19	191	57	30 pcs.
11 770 46	177	7	1 pcs.	11 788 21	191	1,1	20 pcs.
11 770 48	178	2	1 pcs.	11 788 22	190	0,6	20 pcs.
11 774 97	166	650	1 pcs.	11 788 23	190	3,5	2 pcs.
11 774 98	166	650	1 pcs.	11 788 24	190	7,5	2 pcs.
11 777 02	178	1	1 pcs.	11 788 25	191	0,2	10 pcs.
11 782 23	184	340	4 pcs.	11 788 42	191, 197	3,5	10 pcs.
11 782 24	184	475	4 pcs.	11 788 43	191, 197	6,2	5 pcs.
11 782 25	183	595	2 pcs.	11 788 47	191, 197	3	20 pcs.
11 782 27	185	635	2 pcs.	11 788 50	187	0,9	10 pcs.
11 782 28	186	85	8 pcs.	11 788 51	187	1	10 pcs.
11 782 29	186	130	8 pcs.	11 788 52	187	1,1	10 pcs.
11 782 30	186	14	10 pcs.	11 788 53	187	1	10 pcs.
11 782 33	186	17	10 pcs.	11 788 55	192	70	12 pcs.
11 782 34	186	21	10 pcs.	11 788 56	192	80	12 pcs.
11 782 35	191	57	30 pcs.	11 788 57	192	208	6 pcs.
11 782 36	187	1	10 pcs.	11 788 58	192	208	6 pcs.
11 782 37	187	1	10 pcs.	11 788 59	192	302	4 pcs.
11 892 38	187	1	10 pcs.	11 788 60	192	302	4 pcs.
11 782 39	189	4	10 pcs.	11 788 62	185	500	4 pcs.
11 782 42	189	4	10 pcs.	11 788 64	185	580	2 pcs.
11 782 43	189	5	10 pcs.	11 788 65	192	42	12 pcs.
11 782 44	188	7	10 pcs.	11 788 66	192	42	12 pcs.
11 782 45	188	8	10 pcs.	11 788 67	192	75	4 pcs.
11 782 47	188	22	10 pcs.	11 788 68	192	75	4 pcs.
11 782 48	195	20	20 pcs.	11 788 70	192	2	2 pcs.
11 782 49	195	31	18 pcs.	11 788 71	192	2	2 pcs.
11 782 50	194	5	4 pcs.	11 788 72	192	2	2 pcs.
11 782 51	194	5	4 pcs.	11 788 73	192	2	2 pcs.
11 784 36	170	2	10 pcs.	11 788 80	189	4	10 pcs.
11 784 37	170	1	1 pcs.	11 788 81	189	4	1 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 788 82	189	4	10 pcs.	11 790 91	180	3	1 pcs.
11 788 83	189	4	10 pcs.	11 790 92	180	3	1 pcs.
11 788 84	189	5	10 pcs.	11 791 20	166	800	1 pcs.
11 788 85	189	5	10 pcs.	11 791 21	166	800	1 pcs.
11 788 86	189	6	10 pcs.	11 791 31	164	3,4	10 pcs.
11 788 87	189	6	10 pcs.	11 791 37	164	5,2	1 pcs.
11 788 88	188	8	10 pcs.	11 791 46	167	2,5	1 pcs.
11 788 89	188	8	10 pcs.	11 791 55	167	2,4	1 pcs.
11 788 90	184	400	2 pcs.	11 791 74	166	1250	1 pcs.
11 788 92	188	7	10 pcs.	11 791 75	166	1250	1 pcs.
11 788 94	187	12	10 pcs.	11 791 78	167	62	1 pcs.
11 790 01	158	820	1 pcs.	11 791 81	167	56	1 pcs.
11 790 04	158	850	1 pcs.	11 791 83	167	84	1 pcs.
11 790 11	159	1100	1 pcs.	11 791 84	168	17	1 pcs.
11 790 14	159	1100	1 pcs.	11 791 85	168	12	1 pcs.
11 790 15	163	190	1 pcs.	11 791 86	167	27	1 pcs.
11 790 16	162	850	1 pcs.	11 791 87	168	14	1 pcs.
11 790 18	160	1500	1 pcs.	11 791 88	168	22	1 pcs.
11 790 19	162	212	1 pcs.	11 791 89	169	16	1 pcs.
11 790 31	174	64	4 pcs.	11 791 91	167	2	1 pcs.
11 790 32	174	200	1 pcs.	11 791 93	167	4	1 pcs.
11 790 34	174	370	1 pcs.	11 791 95	167	6	1 pcs.
11 790 36	174	350	1 pcs.	11 792 01	169	20	1 pcs.
11 790 39	174	360	1 pcs.	11 792 10	169	2,8	1 pcs.
11 790 40	174	42	1 pcs.	11 792 31	170	1,5	10 pcs.
11 790 41	174	14	1 pcs.	11 792 32	170	0,4	10 pcs.
11 790 42	174	16	1 pcs.	11 792 33	170	0,4	10 pcs.
11 790 43	174	19	1 pcs.	11 792 34	170	0,4	10 pcs.
11 790 44	174	30	1 pcs.	11 792 35	170	0,4	10 pcs.
11 790 50	176	74	1 pcs.	11 792 37	171	0,4	10 pcs.
11 790 51	176	40	1 pcs.	11 792 39	171	0,4	10 pcs.
11 790 52	175	140	1 pcs.	11 792 41	171	1,5	10 pcs.
11 790 54	175	160	1 pcs.	11 792 50	169, 194	10	1 pcs.
11 790 56	176	184	6 pcs.	11 792 51	169, 194	10	1 pcs.
11 790 58	175	126	1 pcs.	11 792 52	169, 194	10	1 pcs.
11 790 59	175	171	1 pcs.	11 792 58	163	100	1 pcs.
11 790 60	175	160	1 pcs.	11 792 59	163	80	1 pcs.
11 790 63	175	220	1 pcs.	11 792 70	195	20	20 pcs.
11 790 65	175	97	1 pcs.	11 792 71	195	20	20 pcs.
11 790 66	175	100	1 pcs.	11 792 72	195	31	18 pcs.
11 790 69	175	24	50 pcs.	11 792 73	195	31	18 pcs.
11 790 70	175	34	30 pcs.	11 792 74	195	20	20 pcs.
11 790 71	178	76	1 pcs.	11 792 75	195	20	20 pcs.
11 790 72	178	9	10 pcs.	11 792 76	195	31	18 pcs.
11 790 73	179	3	10 pcs.	11 792 77	195	31	18 pcs.
11 790 74	178	76	1 pcs.	11 792 78	194	5	4 pcs.
11 790 75	178	1	100 pcs.	11 792 79	194	5	4 pcs.
11 790 76	178	30	1 pcs.	11 792 80	194	5	4 pcs.
11 790 78	179	1	10 pcs.	11 792 81	194	5	4 pcs.
11 790 79	179	1	10 pcs.	11 792 82	194	5	4 pcs.
11 790 80	179	4	100 pcs.	11 792 83	194	5	4 pcs.
11 790 81	179	4	100 pcs.	11 792 84	194	5	4 pcs.
11 790 82	179	7	100 pcs.	11 792 85	194	5	4 pcs.
11 790 83	179	7	100 pcs.	11 792 86	195	20	20 pcs.
11 790 84	179	12	100 pcs.	11 792 87	195	31	18 pcs.
11 790 86	179	16	30 pcs.	11 792 88	195	20	20 pcs.
11 790 87	180	3	1 pcs.	11 792 89	195	31	18 pcs.
11 790 88	180	3	10 pcs.	11 793 22	189	0,5	10 pcs.
11 790 89	180	3	1 pcs.	11 793 23	189	0,5	10 pcs.
11 790 90	180	3	1 pcs.	11 793 26	189	0,5	10 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
11 793 29	189	0.5	10 pcs.	15 094 70	121	23	10 pcs.
11 793 32	189	0.5	10 pcs.	15 094 71	121	23	10 pcs.
11 793 33	189	0.5	10 pcs.	15 094 72	121	140	10 pcs.
11 793 36	189	0.5	10 pcs.	15 094 73	121	140	10 pcs.
11 793 37	189	0.5	10 pcs.	15 094 75	121	243	10 pcs.
11 793 50	182	340	4 pcs.	15 094 76	121	33	10 pcs.
11 793 51	182	340	4 pcs.	15 094 77	121	33	10 pcs.
11 793 52	182	370	4 pcs.	15 094 78	121	165	10 pcs.
11 793 53	182	370	4 pcs.	15 094 79	121	165	10 pcs.
11 793 54	182	475	4 pcs.	15 094 81	121	285	10 pcs.
11 793 55	182	475	4 pcs.	15 094 82	123	33	50 pcs.
11 793 56	183	525	4 pcs.	15 144 90	143	21	50 pcs.
11 793 57	183	525	4 pcs.	15 144 91	143	29	50 pcs.
11 793 58	183	595	2 pcs.	15 144 94	142	10	20 pcs.
11 793 59	183	595	2 pcs.	15 220 40	140	41	1 pcs.
11 793 60	183	635	2 pcs.	15 220 42	141	2	10 pcs.
11 793 61	183	635	2 pcs.	15 220 43	141	51	1 set.
11 793 62	183	870	2 pcs.	15 220 44	141	20	10 pcs.
11 793 63	183	870	2 pcs.	15 220 45	141	51	1 set.
11 793 64	184	910	2 pcs.	15 245 00	148	4	250 pcs.
11 793 65	184	910	2 pcs.	15 245 01	148	4	250 pcs.
11 793 70	186	85	8 pcs.	15 245 03	148	4	250 pcs.
11 793 71	186	85	8 pcs.	15 245 04	148	4	250 pcs.
11 793 72	186	130	10 pcs.	15 245 06	148	5	250 pcs.
11 793 73	186	130	10 pcs.	15 245 07	148	5	250 pcs.
11 793 76	187	0,9	10 pcs.	15 245 10	148	4	250 pcs.
11 793 77	187	1	10 pcs.	15 245 11	148	4	250 pcs.
11 793 78	187	1,1	10 pcs.	15 245 13	148	5	250 pcs.
11 793 79	187	1,3	10 pcs.	15 245 14	148	5	250 pcs.
11 793 80	186	14	10 pcs.	15 245 16	148	6	250 pcs.
11 793 81	186	17	10 pcs.	15 245 17	148	6	250 pcs.
11 793 82	186	21	10 pcs.	15 245 20	148	5	250 pcs.
11 793 83	186	26	10 pcs.	15 245 21	148	5	250 pcs.
11 793 84	186	14	10 pcs.	15 245 23	148	7	250 pcs.
11 793 85	186	17	10 pcs.	15 245 24	148	7	250 pcs.
11 793 86	186	21	10 pcs.	15 245 26	148	8	250 pcs.
11 793 87	186	26	10 pcs.	15 245 27	148	8	250 pcs.
11 793 88	188	17	10 pcs.	15 245 30	148	9	200 pcs.
11 793 89	188	17	10 pcs.	15 245 31	148	9	200 pcs.
11 793 90	188	19	10 pcs.	15 245 33	148	12	100 pcs.
11 793 91	188	19	10 pcs.	15 245 34	148	9	200 pcs.
11 793 92	188	22	10 pcs.	15 245 40	148	12	100 pcs.
11 793 93	188	22	10 pcs.	15 245 41	148	12	100 pcs.
11 793 94	188	25	10 pcs.	15 245 43	148	17	100 pcs.
11 793 95	188	25	10 pcs.	15 246 02	146	3	100 pcs.
11 793 96	188	5	20 pcs.	15 246 06	146	3	100 pcs.
11 793 98	186	14	50 pcs.	15 246 10	146	4	100 pcs.
11 793 99	186	14	40 pcs.	15 246 14	146	4	100 pcs.
15 094 50	152	23	10 pcs.	15 246 18	146	4	100 pcs.
15 094 51	152	23	10 pcs.	15 246 20	146	6	100 pcs.
15 094 52	152	10	10 pcs.	15 246 22	146	7	100 pcs.
15 094 53	152	10	10 pcs.	15 246 24	146	8	100 pcs.
15 094 56	152	15	10 pcs.	15 246 26	146	9	100 pcs.
15 094 57	152	14	10 pcs.	15 246 28	146	9	100 pcs.
15 094 58	152	18	40 pcs.	15 246 30	146	10	100 pcs.
15 094 60	121	40	10 pcs.	15 246 32	146	11	100 pcs.
15 094 61	121	40	10 pcs.	15 246 34	146	14	100 pcs.
15 094 62	121	200	10 pcs.	15 246 38	146	19	100 pcs.
15 094 63	121	200	10 pcs.	15 246 52	146	3	100 pcs.
15 094 65	119	325	10 pcs.	15 246 56	146	4	100 pcs.

E-number table

E-no	Page	Weight/100	Pack.	E-no	Page	Weight/100	Pack.
15 246 60	146	5	100 pcs.	15 249 44	146	7	100 pcs.
15 246 64	146	6	100 pcs.	15 249 48	146	8	100 pcs.
15 246 82	146	4	100 pcs.	15 249 50	146	9	100 pcs.
15 246 86	146	5	100 pcs.	15 249 52	146	10	100 pcs.
15 247 00	149	1	100 pcs.	15 249 54	146	11	100 pcs.
15 247 02	149	1	100 pcs.	15 249 56	146	11	100 pcs.
15 247 04	149	1	100 pcs.	15 566 20	154	2	100 pcs.
15 247 06	149	1	100 pcs.	15 566 21	154	2	100 pcs.
15 247 08	149	1	100 pcs.	15 566 22	154	2	50 pcs.
15 247 10	149	1	100 pcs.	15 566 23	154	2	50 pcs.
15 247 12	149	1	50 pcs.	15 566 24	154	3	50 pcs.
15 247 14	149	1	50 pcs.	15 566 25	154	3	50 pcs.
15 247 16	149	1	50 pcs.	15 566 36	155	27	10 pcs.
15 247 18	149	1	25 pcs.	16 004 80	45	1520	5 pcs.
15 247 20	149	1	25 pcs.	16 058 90	140	39	1 pcs.
15 247 26	149	2	25 pcs.	16 147 60	155	3	10 pcs.
15 247 30	149	1	100 pcs.	16 147 61	155	3	10 pcs.
15 247 32	149	1	100 pcs.	16 239 88	115	300	5 pcs.
15 247 34	149	1	50 pcs.	16 934 42	92	4	6 pcs.
15 247 36	149	1	50 pcs.	26 842 12	121	275	10 pcs.
15 247 38	149	1	25 pcs.	26 842 13	121	285	10 pcs.
15 247 40	149	1	25 pcs.	26 842 14	121	313	10 pcs.
15 247 50	149	1	100 pcs.	26 842 51	124	4	10 pcs.
15 247 51	149	1	100 pcs.	26 842 53	124	3	10 pcs.
15 247 52	149	1	100 pcs.	26 842 55	123	2	10 pcs.
15 247 53	149	1	200 pcs.	26 842 58	123	14	10 pcs.
15 247 54	149	1	100 pcs.	26 842 59	123	14	10 pcs.
15 247 56	149	2	100 pcs.	26 844 12	121	230	10 pcs.
15 247 58	149	2	100 pcs.	26 844 13	121	243	10 pcs.
15 247 59	149	2	100 pcs.	26 844 14	121	255	10 pcs.
15 247 60	149	2	100 pcs.	26 844 42	121	315	10 pcs.
15 247 62	149	2	100 pcs.	26 844 43	121	325	10 pcs.
15 247 64	149	3	100 pcs.	26 844 44	121	399	10 pcs.
15 247 65	149	3	100 pcs.	26 846 13	122	11	10 pcs.
15 247 66	149	3	100 pcs.	26 846 15	122	11	10 pcs.
15 247 68	149	4	100 pcs.	26 846 23	123	11	10 pcs.
15 247 70	149	4	100 pcs.	26 846 25	123	12	10 pcs.
15 247 71	149	4	100 pcs.	26 846 63	122	9	10 pcs.
15 247 72	149	4	100 pcs.	26 846 65	122	10	10 pcs.
15 248 00	147	4	100 pcs.	26 847 23	125	24	10 pcs.
15 248 02	147	5	100 pcs.	26 847 27	125	20	10 pcs.
15 248 04	147	6	100 pcs.	26 847 33	125	25	10 pcs.
15 248 06	147	9	100 pcs.	26 847 35	44, 125	23	10 pcs.
15 248 08	147	11	100 pcs.	26 847 37	125	25	10 pcs.
15 248 10	147	12	100 pcs.	26 847 39	44, 125	20	10 pcs.
15 248 12	147	14	100 pcs.	50 020 31	132	130	1 pcs.
15 248 14	147	16	50 pcs.	50 020 32	132	130	1 pcs.
15 248 16	145	18	50 pcs.	50 020 34	132	190	6 pcs.
15 248 30	147	6	100 pcs.	50 020 38	132	190	6 pcs.
15 248 32	147	7	250 pcs.	50 020 43	135	10	10 pcs.
15 248 33	147	12	100 pcs.	50 020 45	135	10	10 pcs.
15 248 34	147	8	100 pcs.	50 020 53	134	35	10 pcs.
15 248 36	147	13	100 pcs.	50 020 55	134	35	10 pcs.
15 248 37	147	23	100 pcs.	50 020 73	134	79	10 pcs.
15 249 30	146	2	100 pcs.	50 020 75	134	79	10 pcs.
15 249 32	146	3	100 pcs.	50 020 77	135	74	10 pcs.
15 249 34	146	4	100 pcs.	50 020 79	135	75	10 pcs.
15 249 36	146	4	100 pcs.	50 020 82	134	28	1 pcs.
15 249 38	146	5	100 pcs.	50 020 86	134	28	1 pcs.
15 249 40	146	5	100 pcs.	50 021 10	136	31	1 pcs.

E-number table

E-no	Page	Weight/100	Pack.
50 021 11	136	31	1 pcs.
50 021 13	136	52	1 pcs.
50 021 14	136	52	1 pcs.
50 021 16	133	187	1 pcs.
50 021 17	137	16	10 pcs.
50 021 19	129	636	10 pcs.
50 021 23	129	620	1 set.
50 021 24	129	620	1 set.
50 021 25	135	65	1 pcs.
50 021 29	135	65	30 pcs.
50 021 30	129	540	1 set.
50 021 31	129	540	1 set.
50 021 32	129	560	1 set.
50 021 33	129	560	1 set.
50 021 34	129	590	25 pcs.
50 021 35	129	590	1 set.
50 021 36	135	27	10 pcs.
50 021 37	135	27	10 pcs.
50 021 38	135	53	10 pcs.
50 021 39	135	53	10 pcs.
50 021 40	135	34	10 pcs.
50 021 41	135	34	10 pcs.
50 021 42	137	19	20 pcs.
50 021 45	130	310	1 set.
50 021 46	130	310	1 set.
50 021 48	130	340	1 set.
50 021 49	130	340	1 set.
50 021 50	131	336	4 pcs.
50 021 51	131	282	4 pcs.
50 021 52	131	336	4 pcs.
50 021 53	131	1	4 pcs.
50 021 54	131	2	1 pcs.
50 021 55	131	3	1 pcs.
50 021 56	131	1	1 pcs.
50 021 57	131	3	1 pcs.
50 021 58	137	15	20 pcs.
50 021 59	137	75	100 pcs.

