Defem Mesh Trays

Catalogue 2017

Mesh Tray system for demanding applications

schneider-electric.com

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Cable Support is BIM Ready

Discover and download our Cable Support BIM models today by clicking or scanning the QR code.

If you're an architect, engineer, or contractor working on a BIM (Building Information Modeling) project design, you can now take advantage of Schneider Electric's comprehensive and user-friendly online BIM models library.

Here you can download from a wide range of BIM models and benefit from features we provide such as a support system, video explanations, customized selection components, extended-schedule generation, as well as size-error detection.

So rest assured, we have the perfect Cable Support BIM model for you to integrate into your project, so you can benefit from a design process that is intuitive, collaborative, and easy-to-configure.

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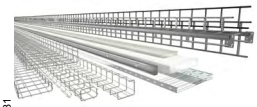
years of expertise
in cable support

Cable support is the fundament of our total power and network offer

With a powerful and extensive range of Cable Support products from Schneider Electric, our customers can feel confident that there is always a strong backbone
to build their solutions around – whether applied for a huge data centre or a wind power park supporting an entire community.

Cable Support is an essential ingredient in the total Schneider Electric offer, from power distribution to building management.

In the late 1920s the founders of Wibe, Mr Wikstrand and Mr Berg, realized the advantages of using a ladder horizontally as well as vertically. And that the horizontal ladder was ideal for carrying cabling. Since then, the product range has grown to include a vast amount of ladders, trays and accessories suitable for a variety of applications and environments.



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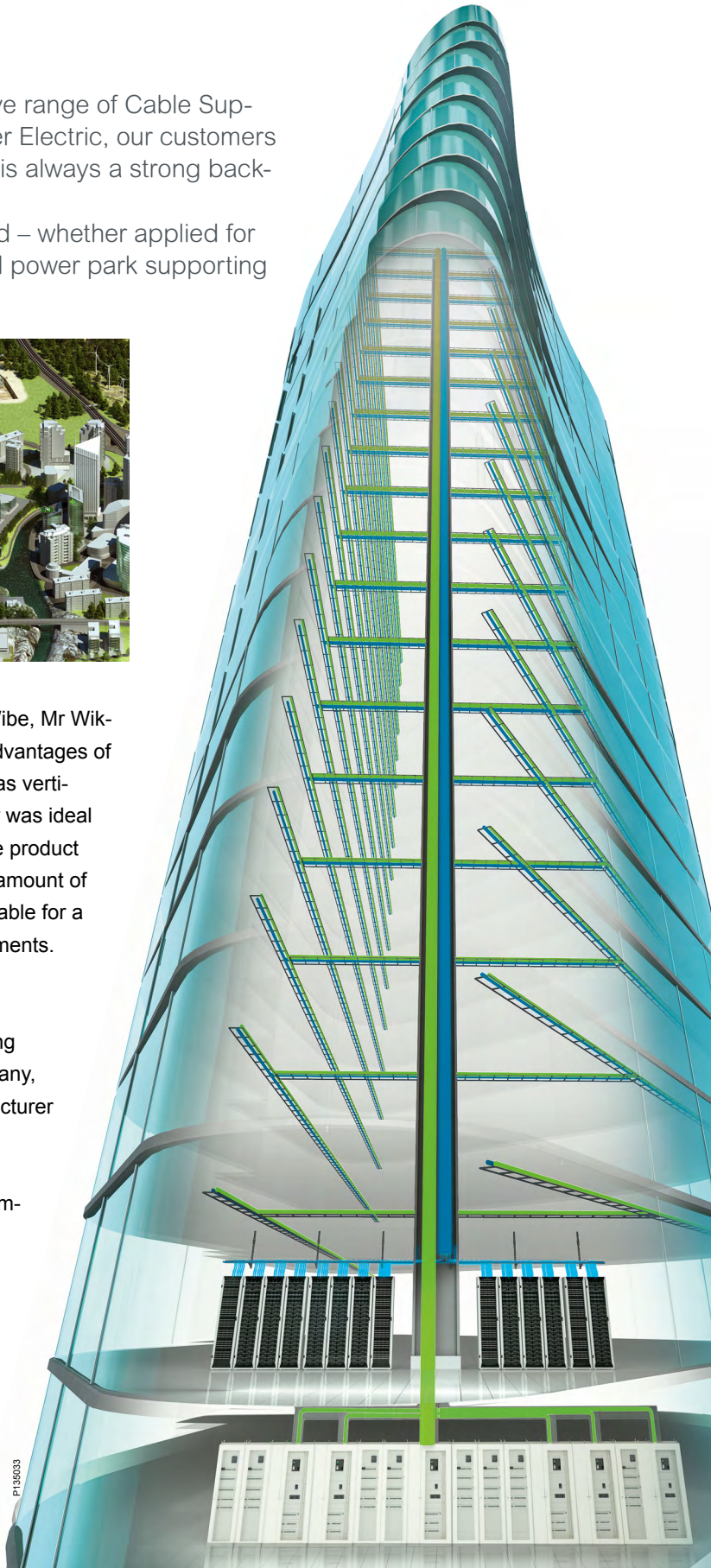
Our Cable Support range contains all necessary elements for a complete solution – mesh trays, cable trays and cable ladders along with a wide variety of accessories.

Fully integrated since 2009

In March 2004, AB Wibe, the leading Scandinavian Cable Support company, incorporated the mesh tray manufacturer Defem. And since 2009, Wibe is a fully integrated part of Schneider Electric. This means that our customers to an even greater extent can benefit from the comprehensive Schneider Electric offer.



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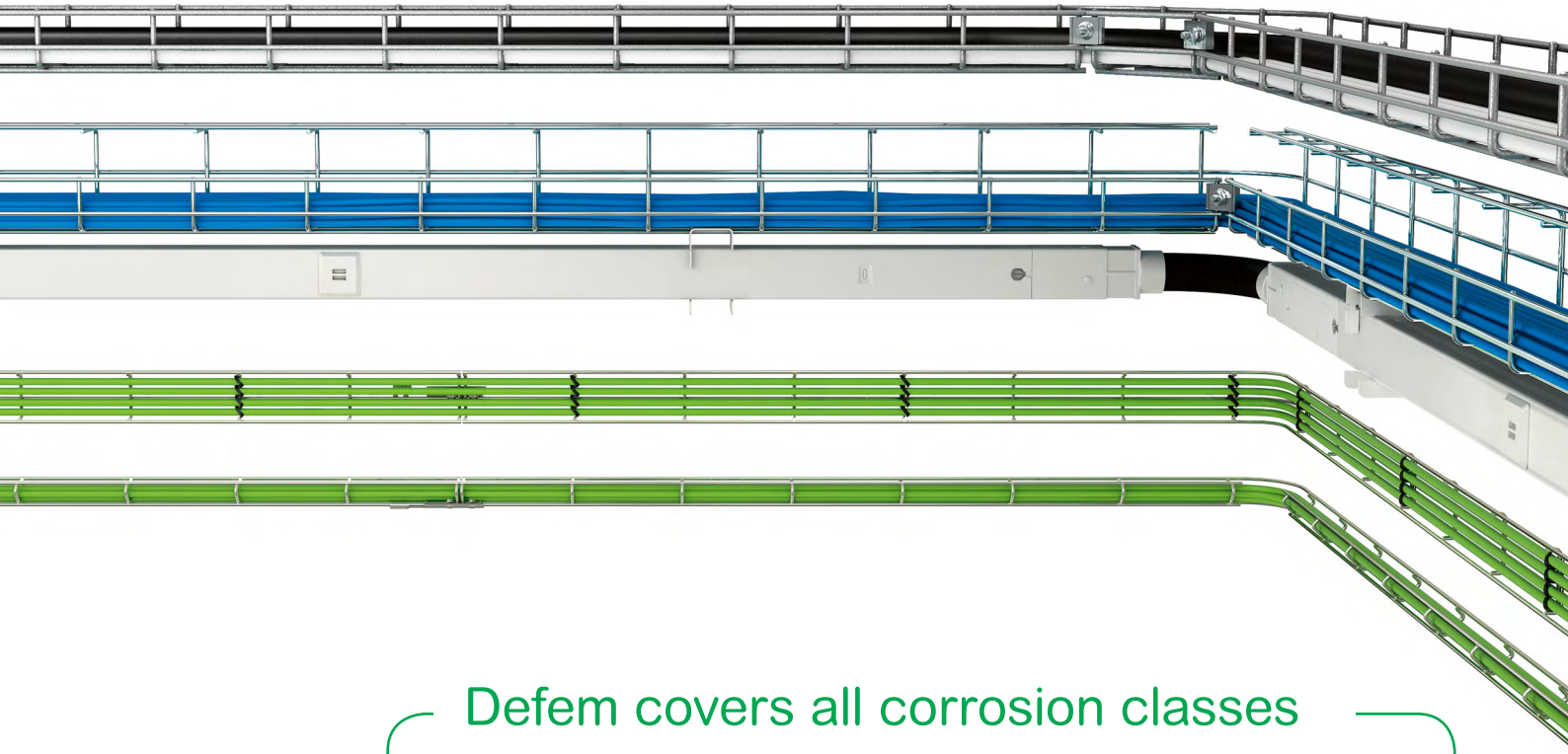
Version : 4.0 - 17 septembre 2018
LSB02724EN

Defem Mesh Trays

Every construction needs a strong backbone

Defem high-end mesh trays are part of our integrated, complete cable support offer for the routing of power, data and control cables. The mesh trays, accessories and support systems are excellent for light, medium and heavy duty applications. With a variety of surface treatments, the total assortment is suitable for non-aggressive in-door environments like offices and IT-centres, as well as fordemanding applications such as food industries and harsh outdoor environments like windmills, tunnels and offshore.

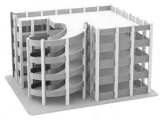


Defem covers all corrosion classes

C1

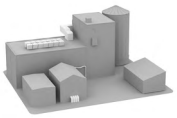
Electro-galvanized
For heated facilities with low exposure to corrosion, such as hotels and offices.

C2



Pre-galvanized
For partly outdoor environments with low exposure to corrosion, for example warehouses and parking garages.

C3



Hot-dip galvanized
For urban and light industrial areas with average environmental corrosion, such as breweries and dairies.

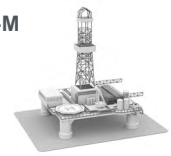
C4

Hot-dip galvanized
For areas with high levels of environmental corrosion, humidity and airborne pollution such as industrial and coastal areas, chemical plants, dockyards.

C5-I

Stainless steel AISI 304L
For areas with almost permanent high levels of humidity and airborne pollution, such as chemical and heavy industries, tunnels and dockyards.

C5-M



Stainless steel AISI 316L
For areas with almost permanent high levels of humidity, airborne pollution and salt, such as purifying plants and offshore.

Read more about corrosion classes on page 68

Decades of product development, hundreds of worldwide cases, an extensive range of complementary products for any installation, high-end system at a competitive total lifecycle cost.

Defem standard Mesh Trays 11

Robust, easily assembled mesh trays with unbeatable capacity and support distances. Suitable for a number of applications, for example large-scale data centres.

Defem custom-made Mesh Trays 13

Mesh trays that can be delivered custom-made for various needs and conditions.

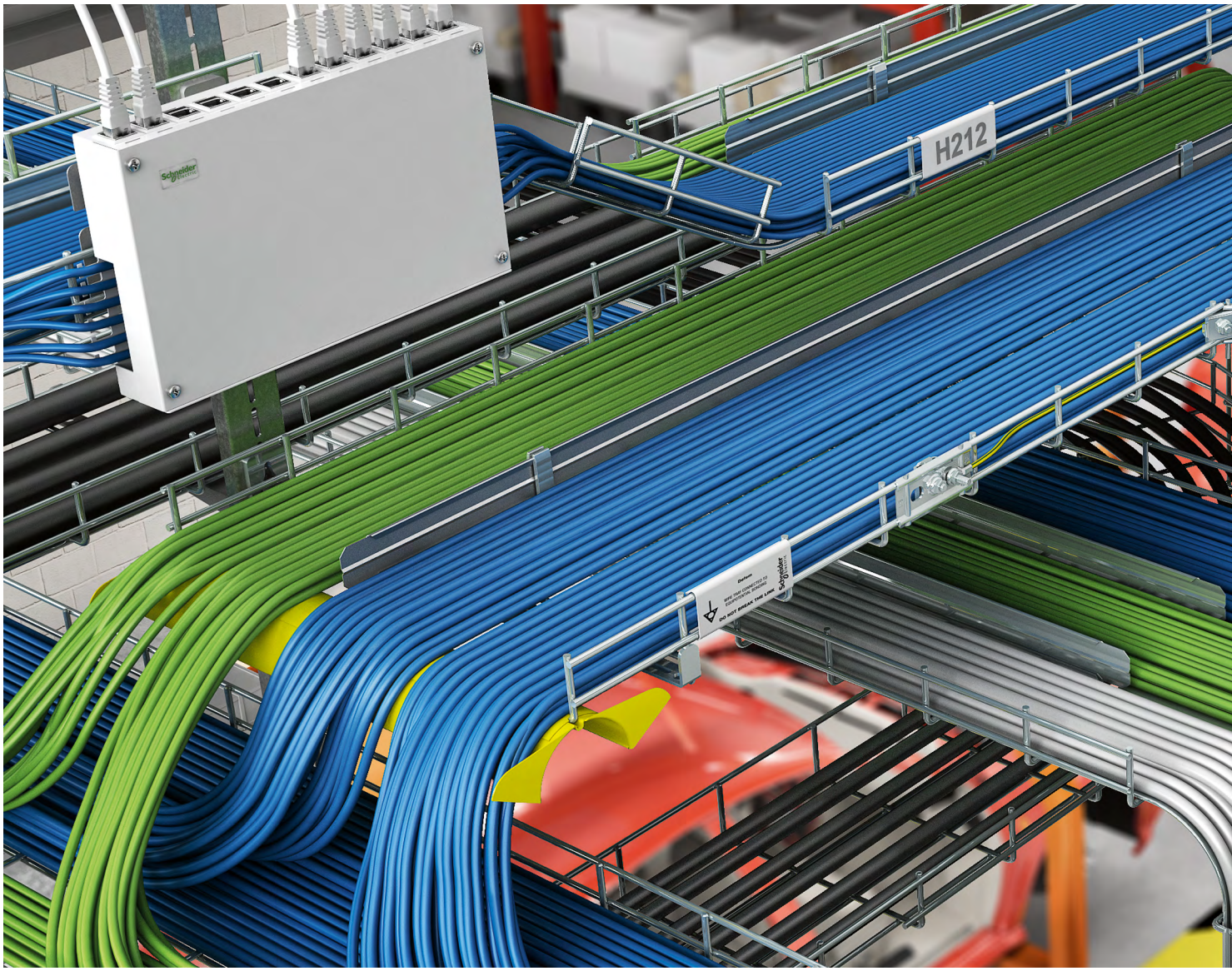
Defem special purpose Mesh Trays 15

Uniquely shaped mesh trays for the toughest requirements regarding hygiene and sanitation – the cabling is kept in place even when exposed to high pressure cleaning.

Defem Mini Mesh Trays 15

Ideal mesh trays for tricky installations in narrow spaces. Just bend, shape and cut to fit.

Accessories and benefits 16

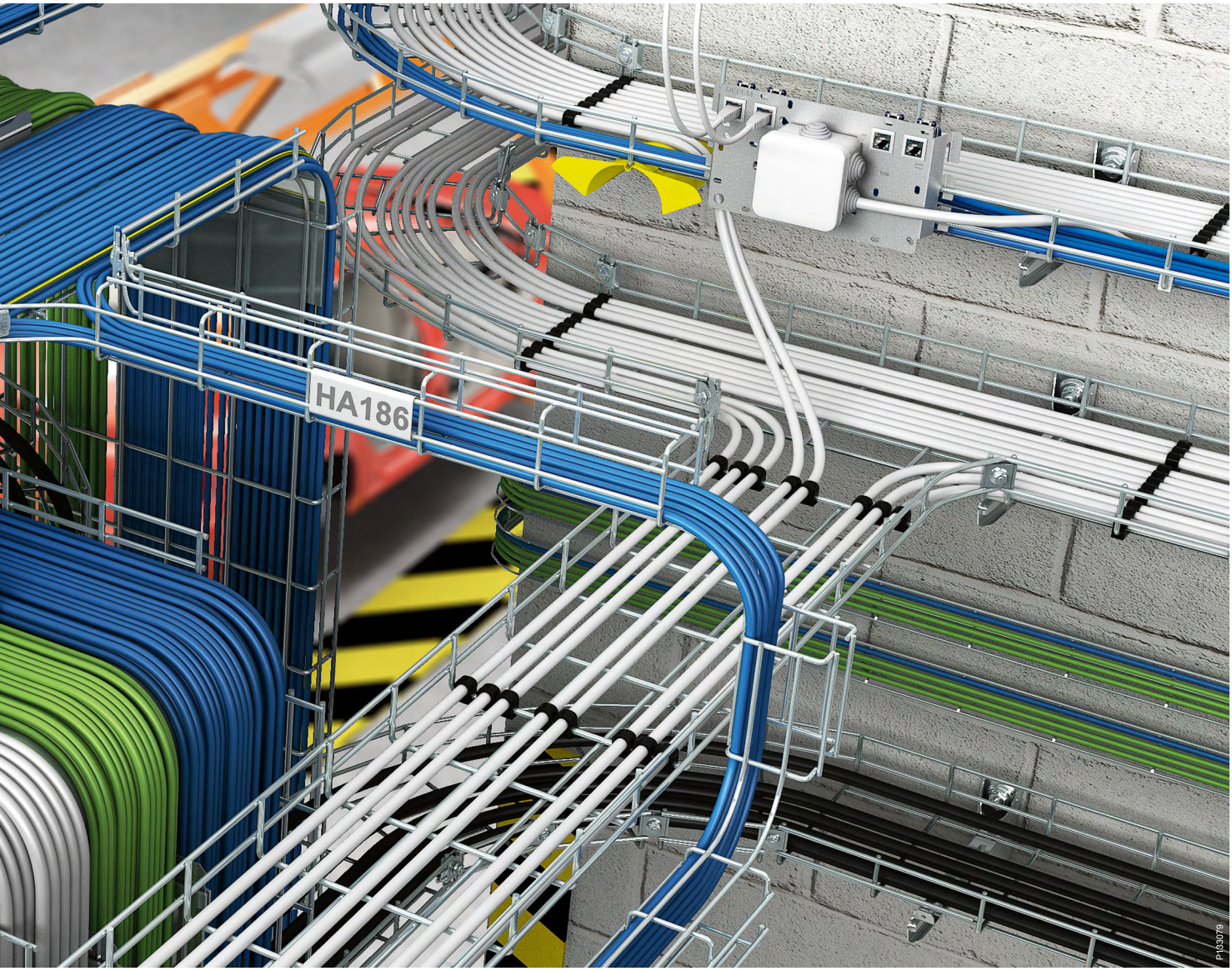


Step up to impressive capacity and endless opportunities

Miles of cables in all directions – no tangle, no mess. A variety of shapes, sizes and innovative accessories ensures a tidy, safe and flexible mesh tray installation in every type of environment.

Defem mesh trays can also be delivered as pre-cut parts or custom-made kits.

The Defem mesh tray range supports wall-mounted, floor-laid and ceiling-suspended installations. Bends, raisers and reducers can easily be formed on site from length material elements. Defem mesh trays provide a flexible, safe and easily installed solution. Thanks to the uniquely shaped rounded wire ends, as well as the smooth and strong welding points, the mesh trays comply with all safety requirements for installers and cables. Also, the wire diameter and size allows higher safety working-load values than any comparable products on the market. Add to that a variety of surface treatments to choose from, and you have a complete solution ready to take on any challenge.



Clear marking

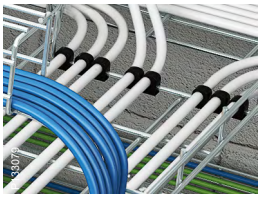
Just snap the clip onto the two side-wires of the mesh tray.

Accessory holders

Use any of our accessory holders dedicated for a variety of boxes and outlets. Snap it onto the mesh tray wires and tighten the grips.

Robust brackets

Mount the brackets right onto the wall or on ceiling-suspended pendants.



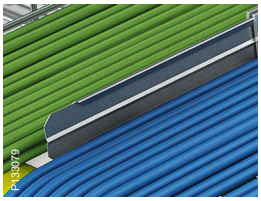
Fasten the cables

Keep the cables in place with Cable clips. Oil and UV- resistant.

No need to order accessories like bends, reducers and raisers. Form them easily on site from length material.

Strong and secure

Screw-fitting ensures a very robust installation with secure earthing and equipotential bonding over time.



Separate the cables

Easy to bend by hand, no tools are needed. Can be mounted continuously both on length material and bends.

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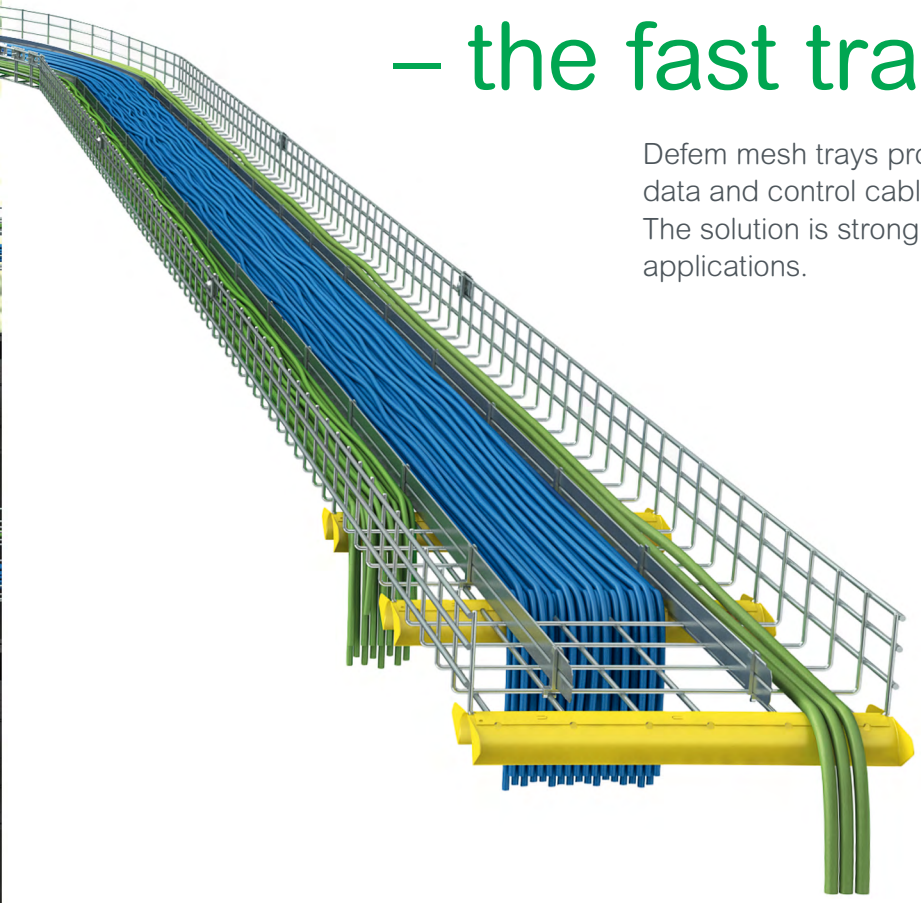
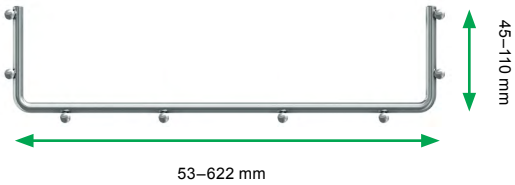
Defem standard Mesh Trays
– the fast track to reliability



Defem mesh trays provide reliable and safe transport of power, data and control cables to every corner of the building. The solution is strong, flexible and suitable for large-scale applications.

Whether a small industry or a large-scale airport, enabling trouble-free distribution of power and data is essential. Safe operation, easy maintenance and a minimum of interruptions, are requirements that call for a dependable and secure cable support system. The Defem range also includes support for easily accessible power distribution underneath the floor. Together with the flexible mesh trays for network distribution in the ceiling, the entire data centre installation is fully equipped, strong, and conveniently adjusted to any application.

A wide range of dimensions



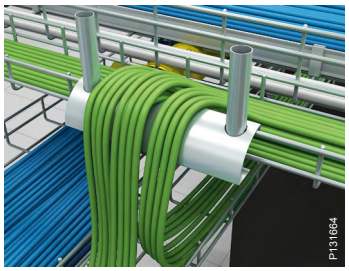
Product features

Well-rounded edges, along with smooth and strong welding points protect hands and cables from being damaged by sharp edges.

The open structure allows airflow and prevents cables from overheating.

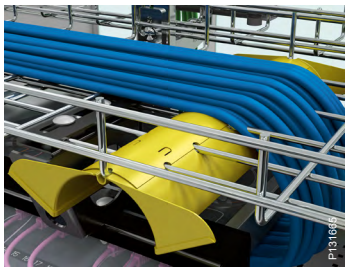
Zone cabling

Fittings for zone cabling are part of the Schneider Electric total offer for data and telecom.



Side radius limiter

For a protective and smooth distribution of gentle fibre cables.



Fibre management

The radius limiter protects sensitive cables from being bent at a too sharp an angle, which may cause reduced performance.

P.xxxxx

Defem custom-made Mesh Trays – flexibility at its best

Special applications require special products. The Defem mesh tray is easy to cut and bend for any configuration. But if you need a series of similar tailored parts for your installation, let us do the cutting and shaping for you. No waste of material or time.

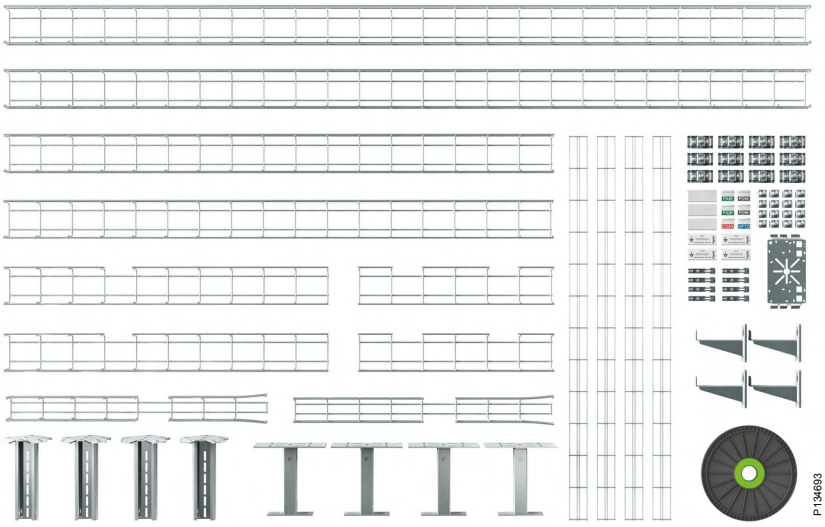
In quite a few projects there is a repeated need for mesh trays of a special design. We can deliver the mesh trays specially adapted to these needs, as pre-cut parts, or as complete, custom-made kit solutions.

Custom-making is not only about having the mesh tray cut in a certain manner. It is also about optimizing both performance and cost-efficiency to the special conditions that may occur, understanding the customer's need.

We have a long time of experience from many projects around the world and can provide custom-made adaptations for rigorous hygienic requirements, infrastructure in aggressive environments, and much more.

Ready-made kits - simplifies your work on site

Offshore windpower turbines are subject to the harshest climate. Every detail must endure the tough conditions.



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Defem special purpose Mesh Trays – when hygiene is key

You can let loose the high-pressure washing system with no worries. Defem mesh trays withstand the most rigid sanitary regulations and the non-bundled cables will stay in place during cleaning.

The food and beverage industry has the most rigorous regulations on hygiene and sanitation. Every part of the installation has to endure high-pressure washing and harsh detergents. The ingenious shapes of the C-, G- and Z-mesh trays provide excellent protection of and access to the cables. Thanks to the smooth and high-quality welding points with no cavitites, undesired substances will be prevented from accumulating.

Dimensions

C-Mesh tray, 120x100 mm

G-Mesh tray, 75x95 mm

Z-Mesh tray, 75x75 mm

Defem Mini Mesh Trays – flexibility in detail

Measure and cut the mini mesh tray into the desired length and fasten it with our dedicated accessories – and you are done.

The mini mesh trays offer the fastest way to route all types of small cables. Though modest in size, the mini mesh trays can endure any type of high-pressure water or air cleaning. The Mini esh B30-D also provides an excellent protection of impact to cables in tough environments.

Dimensions

Mini Mesh B30-D, 30x24 mm

Mini Mesh B30-U, 46x15 mm

Mini Mesh B30-I, 60x6 mm

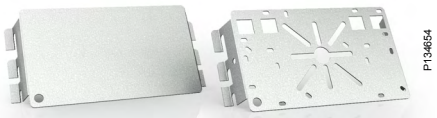
Accessories and benefits

Marking clip, Equipotential Bonding

For clear, visible information, just snap the plastic marking clip onto the mesh tray. Available in English, Swedish and German.

Accessory holder

Accessory holders without holes or with a universal hole pattern for easy mounting of various boxes and outlets. The holder can be mounted in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires.

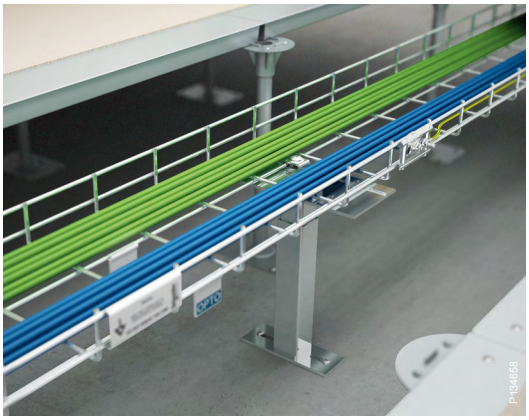


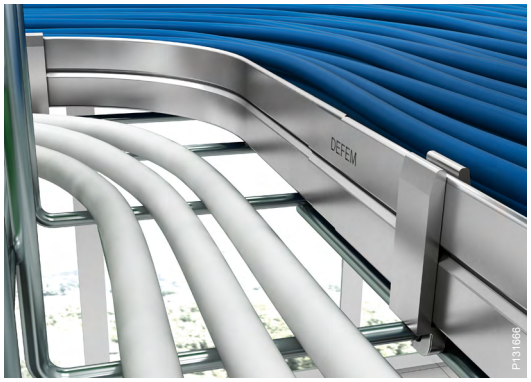
Fitting

Fittings for joining mesh trays. Can also be used as wall brackets or fastened onto a machine or similar. Mounted over the centre wires, it can also serve as a carrier of lighting fittings.

Floor support

Floor support for all mesh trays, for example underneath a raised floor. Adjustable 215–370 mm. The upper and lower part can be adjusted in a 90 degree angle.

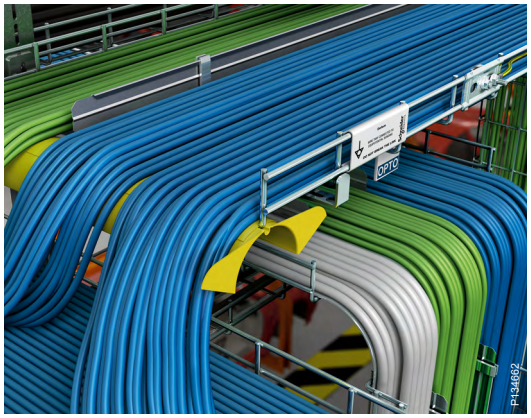




Separating plates

The plane separation plate can be mounted continuously both on length material and in bends with the support of plate holders. No tools are needed. Easy to bend by hand.

The L-shaped separating plate can be fastened onto the mesh trays by bending the flaps around the tranversal wires.



Bend plate, Radius limiter, Side radius limiter

The bend plate is made of aluminium and used for smooth bending of cables when changing levels. The steel radius limiters protect the cables from being bent at too narrow an angle.

Brackets for Canalis KBA and KBB busbars

The use of brackets will further stabilize and strengthen the installation. Just fasten the Canalis busbar to the mesh tray, and attach the dedicated Canalis lighting fittings underneath.

Brackets for hygiene installation

Stainless steel brackets for firm and secure mounting of mesh trays onto walls and pendants. A mounting distance of 100 mm from the wall enables easy cleaning. Especially suitable for environments that must endure rigid sanitary requirements, such as the food and beverage industry.

Defem mesh trays comply to E30 and E90 fire protection

The longer the mesh trays are resistant to fire, the longer the electric system will be able to operate normally. Defem products with E30 and E90 certification will help decrease the number of casualties in the event of a fire. The well-proven, reliable system will prolong the access to critical emergency services, such as fire suppression systems, emergency lighting, ventilation and other basic installations.

The Defem mesh trays meet the toughest product standards:
IEC 61537
UNE EN 50102
UNE EN ISO 9227
DIN 4102-12 for fire resistance E90

Defem is the only mesh tray approved by Det Norske Veritas (DNV) for offshore and ship-yard use.

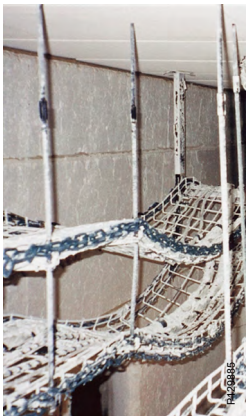
About the test

A large amount of the Defem products have excellent fire resistance properties. You can feel confident when installing Defem in environments requiring both E30 and E90 certification.

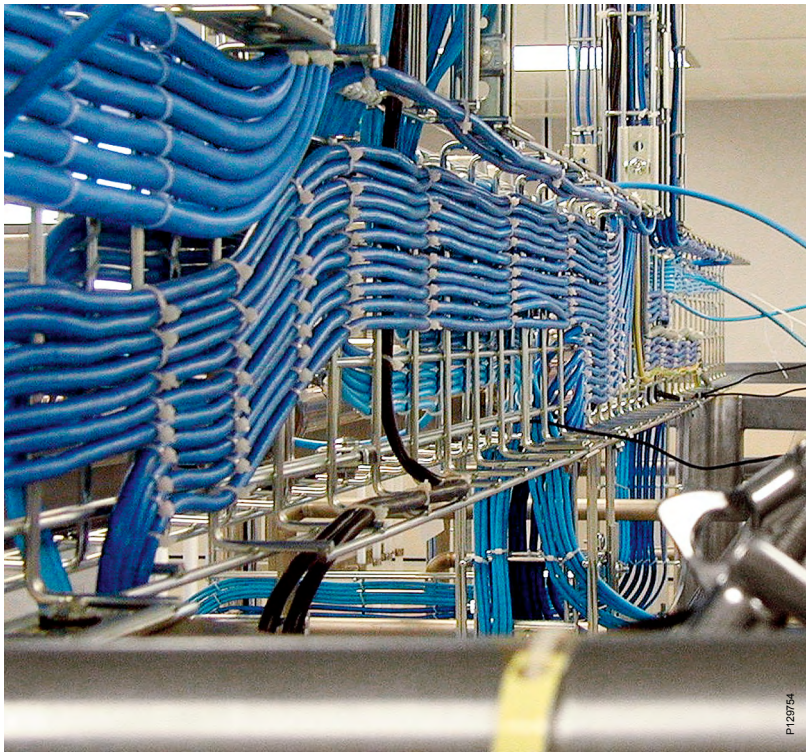
The Defem products exceeded the fire resistance test, qualifying for the highest level of resistance proposed by this standard – the E90. The trays with accessories and Dätwyler Pyrofil KERAM E30 and E90 cables were tested for 90 minutes in a temperature of up to 1000ºC without collapsing, with the electrical performance still remaining intact.

Stands 90 minutes in a temperature of up to 1000°C.

During the test
Defem system with Dätwyler Pyrofil KERAM E30 and E90 cables during the test.



After the test
Defem system after 90 minutes of fire test. The electrical performance is still intact.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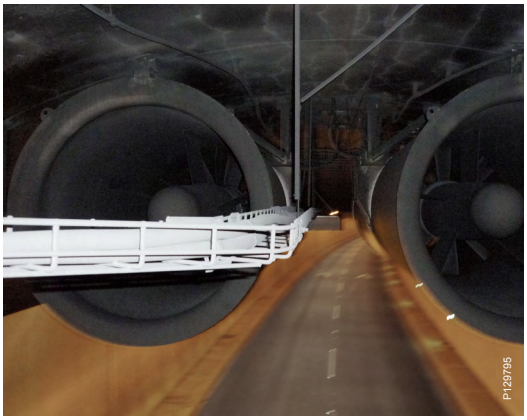
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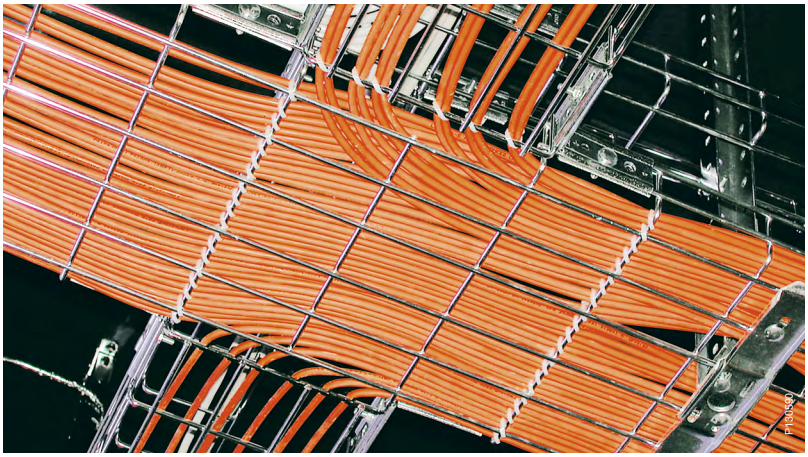
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MARK AIRS
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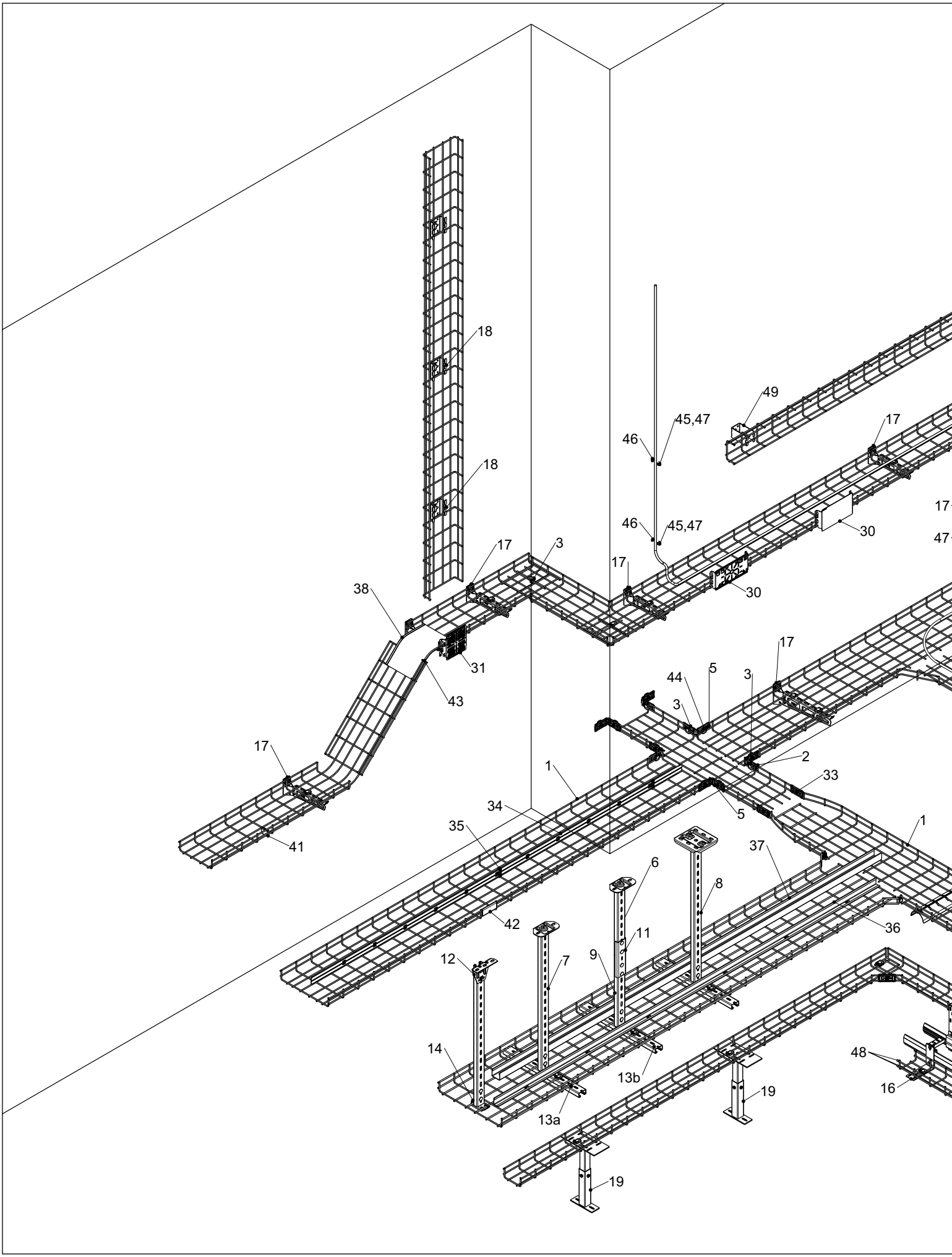
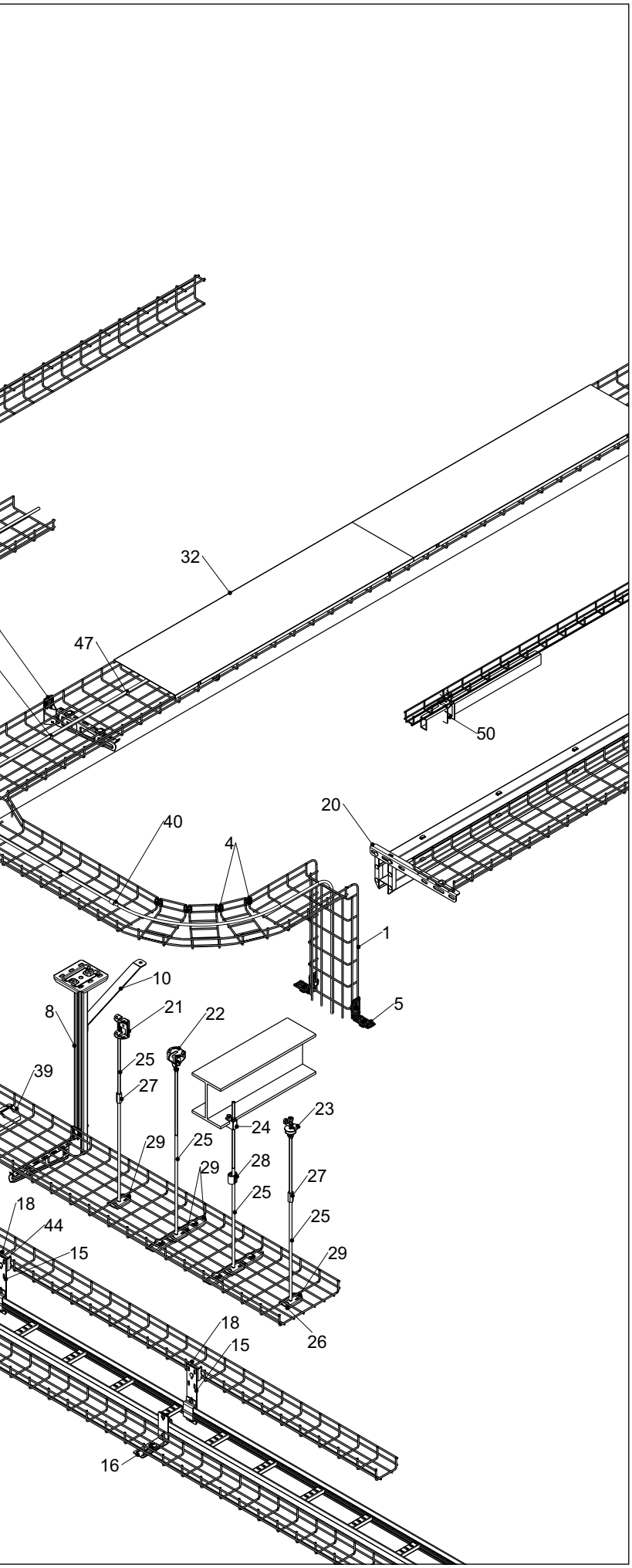
Installation summary





1 Mesh trays
Mesh trays C,G,Z
Mini Mesh B30-D,-U,-I
2 Fitting B1
3 Fitting B2
4 Fitting B3
5 Angled Fitting B27
6 Vertical piece 2
7 Vertical piece 2F
8 Vertical piece 2FB
9 Pendant/fixing rail 24/48
10 Pendant bar 1
11 Pendant joint 2FJ
12 Ceiling bracket 5
13a Support Hook D35/320-422
13b Support Hook D35/422-622
14 Support Hook D35/120-220
15 Combi Fitting B21
16 Combi Fitting B21 90°
17 Cantilever arm 50i
18 Bracket B4, B4 mini
19 Support B33
20 Conveyor Bracket B17
21 Ceiling Fitting Universal B46
22 Ceiling Fitting Flexible B47
23 Ceiling Clamp B48
24 Beam Clamp B49
25 Threaded Rod B41
26 Flange Nut B43
27 Distance Nut B42
28 Thread Lock B50
29 Support Hook B39
30 Accessories Holder B5 with or without holes
31 Accessories Holder B5 mini
32 Plate Cover B7
33 Joining set B52
34 Separating Plate B36
35 Plate Holder B38
36 Separating Plate B26
37 Tele-Channel B6
38 Bend Plate B31
39 Radius Limiter B11, B34, B67
40 Velcro B51
41 Identification Tag B40
42 Marking Clip B44
43 Earth Connection Clamp B18
44 Bolt and Nut B13
45 AS-I clips B14
46 Fixing Plate B15
47 Cable Clips B16
48 Safety Cap B32
49 Bracket B4 100
50 Fixing for Canalis KBA and KBB

Choice guide
Electro-galvanized/Pre-galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
			50 pcs/250 pcs					
Cable Tray								
				1149113	1149100	1149110	1149101	
Fitting								
Joining set B52	–	–	–	1149153	1149153	1149153	1149153	
Fitting B1	1149155	–	1149184/85	1149154	1149154	1149154	1149154	
Fitting B2	–	–	1149184/85	1149155	1149155	1149155	1149155	
Fitting B3	–	–	–	1149156	1149156	1149156	1149156	
Angled fitting B27	1149155	–	1149184/85	1149169	1149169	1149169	1149169	
Wall support								
Bracket B4	–	–	–	1149157	1149157	1149157	1149157	
Bracket B4 mini	–	–	–	1149198	1149198	1149198	1149198	
Cantilever arm 50i	1149155	–	1149184/85	791412	791412	791412	791412	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149102	1149103	1149114	1149115	1149116	1149104	1149105	1149106	1149107	1149108	1149109
	1149153	1149153	1149153	1149153	1149153	1149153	1149153	1149153	1149153	1149153	1149153
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	1149169	1149169	1149169	1149169	1149169	1149169	1149169	1149169	1149169	1149169	1149169
	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157
	1149198	1149198	1149198	1149198	1149198	1149198	1149198	1149198	1149198	1149198	1149198
	791413	791414	791415	CSU795322	CSU795323	791412	791413	791414	791415	CSU795322	CSU795323

Choice guide
Electro-galvanized/Pre-galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
H / W			50 pcs/250 pcs					
Cable Tray								
	–	–	–	1149113	1149100	1149110	1149101	
Ceiling support								
Vertical piece 2	–	–	–	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	
Vertical piece 2F	–	–	–	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	
Vertical piece 2FB	–	–	–	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	
Cantilever arm 50i	1149155	–	1149184/85	791412	791412	791412	791412	
Support hook D35	1149155	–	1149184/85	–	–	–		
Support hook B39	–	1149451/52 1149461/62	1149184/85 1149405/64	–	–	–	1149117	
Pendant/fixing rail 24/48	–	–	–	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	
Pendant joint 2FJ	–	–	–	CSU795325	CSU795325	CSU795325	CSU795325	
Ceiling bracket 5	–	–	–	721101	721101	721101	721101	
Ceiling fitting Universal B46	–	1149451/52 1149461/62	–	1149474	1149474	1149474	1149474	
Ceiling fitting Flexible B47/M8	–	1149451 1149452	–	1149475	1149475	1149475	1149475	
Ceiling fitting Flexible B47/M10	–	1149461 1149462	–	1149476	1149476	1149476	1149476	
Ceiling clamp B48/ M8	–	1149451 1149452	–	1149472	1149472	1149472	1149472	
Ceiling clamp B48/ M10	–	1149461 1149462	–	1149473	1149473	1149473	1149473	
Beam clamp B49	–	1149451/52 1149461/62	–	1149471	1149471	1149471	1149471	
Pendant bar 1-500	–	–	–	792728	792728	792728	792728	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149102	1149103	1149114	1149115	1149116	1149104	1149105	1149106	1149107	1149108	1149109
	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574	CSU795572 CSU795573 CSU795574
	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331	CSU795329 CSU795330 CSU795331
	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334	CSU795332 CSU795333 CSU795334
	791413	791414	791415	CSU795322	CSU795323	791412	791413	791414	791415	CSU795322	CSU795323
	–	1149120	1149120	CSU795346	CSU795346	–	–	1149120	1149120	CSU795346	CSU795346
	1149117	1149118	1149118	–	–	1149117	1149117	1149118	1149118	–	–
	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564	731717 CSU795564
	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325	CSU795325
	721101	721101	721101	721101	721101	721101	721101	721101	721101	721101	721101
	1149474	1149474	1149474	1149474	1149474	1149474	1149474	1149474	1149474	1149474	1149474
	1149475	1149475	1149475	1149475	1149475	1149475	1149475	1149475	1149475	1149475	1149475
	1149476	1149476	1149476	1149476	1149476	1149476	1149476	1149476	1149476	1149476	1149476
	1149472	1149472	1149472	1149472	1149472	1149472	1149472	1149472	1149472	1149472	1149472
	1149473	1149473	1149473	1149473	1149473	1149473	1149473	1149473	1149473	1149473	1149473
	1149471	1149471	1149471	1149471	1149471	1149471	1149471	1149471	1149471	1149471	1149471
	792728	792728	792728	792728	792728	792728	792728	792728	792728	792728	792728

Choice guide
Electro-galvanized/Pre-galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
Cable Tray								
	–	–	–	1149113	1149100	1149110	1149101	
Floor support								
Bracket B4	–	–	–	–	–	–	1149157	
Bracket B4 mini	–	–	–	1149198	1149198	1149198	–	
Support B33	1149155	–	1149184/85	–	–	–	1149135	
Dividers								
Separating plate	–	–	–	1149276	1149276	1149276	1149276	
B36 + Holder B38	–	–	–	1149289	1149289	1149289	1149289	
Separating plate B26	–	–	–	1149278	1149278	1149278	1149278	
Tele Channel B6	–	–	–	–	1149247	1149247	1149247	
Cover								
Cover B7	–	–	–	–	CSU795264		CSU795265	
Fixing accessories								
Combi fitting B21	–	–	–	1149159	1149159	1149159	1149159	
Combi fitting B21 90°	1149155	–	1149184/85	1149191	1149191	1149191	1149191	
Fixing bracket for Canalis KBA	–	–	–	CSU794592	CSU794592	CSU794592	–	
Fixing bracket for Canalis KBB	–	–	–	CSU794593	CSU794593	CSU794593	–	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149102	1149103	1149114	1149115	1149116	1149104	1149105	1149106	1149107	1149108	1149109
	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157	1149157
	–	–	–	–	–	–	–	–	–	–	–
	1149135	1149135	1149135	1149135	1149135	1149135	1149135	1149135	1149135	1149135	1149135
	1149276	1149276	1149276	1149276	1149276	1149276	1149276	1149276	1149276	1149276	1149276
	1149289	1149289	1149289	1149289	1149289	1149289	1149289	1149289	1149289	1149289	1149289
	1149278	1149278	1149278	1149278	1149278	1149278	1149278	1149278	1149278	1149278	1149278
	1149247	1149247	1149247	1149247	1149247	1149247	1149247	1149247	1149247	1149247	1149247
	CSU795266	CSU795267	CSU795268	–	–	CSU795265	CSU795266	CSU795267	CSU795268	–	–
	–	–	–	–	–	1149159	–	–	–	–	–
	–	–	–	–	–	1149191	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–	–

Choice guide
Electro-galvanized/Pre-galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
Cable Tray								
	–	–	–	1149113	1149100	1149110	1149101	
Accessori holder								
Accessori holder B5 mini	–	–	–	1149137	1149137	1149137	1149137	
Accessori holder B5 without holes	–	–	–	1149168	1149168	1149168	1149168	
Accessori holder B5 with holes	–	–	–	1149158	1149158	1149158	1149158	
Cabling support								
Bend Plate B31	–	–	–	–	–	–	1149226	
Side radius limiter B11	–	–	–	–	–	1149438	1149438	
Radius limiter B34	–	–	–	–	1149437	1149437	1149431	
Radius limiter B67 Cover B68	–	–	–	–	1149442 1149482	1149442 1149482	1149443 1149483	

Others	
Bolt and nut B13 50pcs/250pcs	1149184 1149185
Earth connection clamp B18	1149180
Cable roller B25	1653955
Bolt cutter B28	1623998
10 mm Spanner B45	1622200
13 mm Spanner B45	1622221

Threaded rod	
Treaded rod B41 M8 1000 mm/2000 mm	1149451 1149452
Treaded rod B41 M10 1000 mm/2000 mm	1149461 1149462
Flange nut B43 M8	1149405
Flange nut B43 M10	1149464
Distance Nut B42 M8	1149455
Distance Nut B42 M10	1149465
Threaded lock B50 M8	1149456
Threaded lock B50 M10	1149466

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149102	1149103	1149114	1149115	1149116	1149104	1149105	1149106	1149107	1149108	1149109
	1149137	1149137	1149137	1149137	1149137	1149137	1149137	1149137	1149137	1149137	1149137
	1149168	1149168	1149168	1149168	1149168	1149168	1149168	1149168	1149168	1149168	1149168
	1149158	1149158	1149158	1149158	1149158	1149158	1149158	1149158	1149158	1149158	1149158
	1149227	1149228	1149229	–	–	1149226	1149227	1149228	1149229	–	–
	1149438	1149438	1149439	1149439	1149439	1149438	1149438	1149438	1149439	1149439	1149439
	1149432	1149433	1149434	1149435	1149436	1149431	1149432	1149433	1149434	1149435	1149436
	1149444 1149484	1149445 1149485	1149446 1149486	1149447 1149487	1149448 1149488	1149443 1149483	1149444 1149484	1149445 1149485	1149446 1149486	1149447 1149487	1149448 1149488

Marking/Identification		
Marking clip B44	1149427	
Marking Clip B44 Potentialutjämning	1149428	
Marking Clip B44 Equipotential Bonding	1149429	
Marking Clip B44 Potentialausgleich	1149430	

End plugs 28E		
Pendant 2F/2FB Pendant fixing rail 24/48	709021	

Marking/Identification		
Identification Tag B40 Opto	1149420	OPTO
Identification Tag B40 Coax	1149421	COAX
Identification Tag B40 Pair	1149422	PAIR
Identification Tag B40 Neutral	1149423	
Identification Tag B40 Pow	1149424	POW

Choice guide
Hot-dip galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
			50 pcs/250 pcs					
Cable Tray								
	–	–	–	1149213	1149200	1149210	1149201	
Fitting								
Joining set B52	–	–	–	1149253	1149253	1149253	1149253	
Fitting B1	1149255	–	1149284/85	1149254	1149254	1149254	1149254	
Fitting B2	–	–	1149284/85	1149255	1149255	1149255	1149255	
Fitting B3	–	–	–	1149256	1149256	1149256	1149256	
Angled fitting B27	1149255	–	1149284/85	1149269	1149269	1149269	1149269	
Wall support								
Bracket B4	–	–	–	–	–	–	1149257	
Bracket B4 mini	–	–	–	1149298	1149298	1149298	–	
Cantilever arm 50i	1149255	–	1149284/85	CSU795316	CSU795316	CSU795316	CSU795316	
Ceiling support								
Vertical piece 2	–	–	–	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	
Vertical piece 2F	–	–	–	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	
Vertical piece 2FB	–	–	–	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	
Cantilever arm 50i	1149255	–	1149284/85	CSU795316	CSU795316	CSU795316	CSU795316	
Support hook D35	1149255	–	1149284/85	–	–	–	CSU795347	
Support hook B39	–	CSU794697 CSU734698	1149284/85 CSU794715	–	–	–	1149217	
Pendant /fixing rail 24/48	–	–	–	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	
Pendant joint 2FJ	–	–	–	713178	713178	713178	713178	
Ceiling bracket 5	–	–	–	718640	718640	718640	718640	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149202	1149203	1149214	1149215	1149216	1149204	1149205	1149206	1149207	1149208	1149209
	1149253	1149253	1149253	1149253	1149253	1149253	1149253	1149253	1149253	1149253	1149253
	1149254	1149254	1149254	1149254	1149254	1149254	1149254	1149254	1149254	1149254	1149254
	1149255	1149255	1149255	1149255	1149255	1149255	1149255	1149255	1149255	1149255	1149255
	1149256	1149256	1149256	1149256	1149256	1149256	1149256	1149256	1149256	1149256	1149256
	1149269	1149269	1149269	1149269	1149269	1149269	1149269	1149269	1149269	1149269	1149269
	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257
	–	–	–	–	–	–	–	–	–	–	–
	CSU795317	CSU795318	CSU795319	CSU795320	CSU795321	CSU795316	CSU795317	CSU795318	CSU795319	CSU795320	CSU795321
	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195	717191 717192 717193 717194 717195
	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200	717196 717198 717200
	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337	CSU795335 CSU795336 CSU795337
	CSU795317	CSU795318	CSU795319	CSU795320	CSU795321	CSU795316	CSU795317	CSU795318	CSU795319	CSU795320	CSU795321
	CSU795347	1149220	1149220	CSU795349	CSU795349	CSU795347	CSU795347	1149220	1149220	CSU795349	CSU795349
	1149217	1149218	1149218	–	–	1149217	1149217	1149218	1149218	–	–
	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565	705093 CSU795565
	713178	713178	713178	713178	713178	713178	713178	713178	713178	713178	713178
	718640	718640	718640	718640	718640	718640	718640	718640	718640	718640	718640

Choice guide
Hot-dip galvanized

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
H, W			50 pcs/250 pcs					
	–	–	–	1149213	1149200	1149210	1149201	
Ceiling support								
Pendant bar 1-500	–	–	–	717641	717641	717641	717641	
Floor support								
Bracket B4	–	–	–	–	–	–	1149257	
Bracket B4 mini	–	–	–	1149298	1149298	1149298	–	
Support B33	1149255	–	1149284/85	–	–	–	1149235	
Fixing accessories								
Combi fitting B21	–	–	–	1149259	1149259	1149259	1149259	
Combi fitting B21 90°	1149255	–	1149284/85	1149291	1149291	1149291	1149291	
Accessori holder								
Accessori holder B5 mini	–	–	–	1149237	1149237	1149237	1149237	
Accessori holder B5 without holes	–	–	–	1149268	1149268	1149268	1149268	
Accessori holder B5 with holes	–	–	–	1149258	1149258	1149258	1149258	

Others	
Bolt and nut B13 50pcs/250pcs	1149284 1149285
Earth connection clamp B18	1149180
Cable roller B25	1653955
Bolt cutter B28	1623998
10 mm Spanner B45	1622200
13 mm Spanner B45	1622221

Threaded rod	
Treaded rod W76 M8 1000mm/2000mm	CSU794697 CSU734698
Flange nut M8 HDG	CSU794715
Distance Nut M8 HDG	CSU794699

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149202	1149203	1149214	1149215	1149216	1149204	1149205	1149206	1149207	1149208	1149209
	717641	717641	717641	717641	717641	717641	717641	717641	717641	717641	717641
	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257	1149257
	–	–	–	–	–	–	–	–	–	–	–
	1149235	1149235	1149235	1149235	1149235	1149235	1149235	1149235	1149235	1149235	1149235
	–	–	–	–	–	1149259	–	–	–	–	–
	–	–	–	–	–	1149291	–	–	–	–	–
	1149237	1149237	1149237	1149237	1149237	1149237	1149237	1149237	1149237	1149237	1149237
	1149268	1149268	1149268	1149268	1149268	1149268	1149268	1149268	1149268	1149268	1149268
	1149258	1149258	1149258	1149258	1149258	1149258	1149258	1149258	1149258	1149258	1149258

Marking/Identification		
Marking clip B44	1149427	
Marking Clip B44 Potentialutjämning	1149428	
Marking Clip B44 Equipotential Bonding	1149429	
Marking Clip B44 Potentialausgleich	1149430	

Marking/Identification		
Identification Tag B40 Opto	1149420	OPTO
Identification Tag B40 Coax	1149421	COAX
Identification Tag B40 Pair	1149422	PAIR
Identification Tag B40 Neutral	1149423	
Identification Tag B40 Pow	1149424	POW

End plugs 28E		
Pendant 2F/2FB Pendant fixing rail 24/48	709021	

Choice guide
Stainless steel 316L

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
H / W	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
			50 pcs/250 pcs					
	–	–	–	1149313	1149300	1149310	WBE1149301	
Fitting								
Joining set B52	–	–	–	1149353	1149353	1149353	1149353	
Fitting B1	1149355	–	1149384/85	1149354	1149354	1149354	1149354	
Fitting B2	–	–	1149384/85	1149355	1149355	1149355	1149355	
Fitting B3	–	–	–	1149356	1149356	1149356	1149356	
Angled fitting B27	1149355	–	1149384/85	1149369	1149369	1149369	1149369	
Wall support								
Bracket B4	–	–	–	–	–	–	1149357	
Bracket B4 mini	–	–	–	1149398	1149398	1149398	–	
Cantilever arm 50	1149355	–	1149384/85	725618/ 725619	725618/ 725619	725618/ 725619	725618/ 725619	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149302	1149303	1149314	1149315	1149316	1149304	1149305	1149306	1149307	1149308	1149309
	1149353	1149353	1149353	1149353	1149353	1149353	1149353	1149353	1149353	1149353	1149353
	1149354	1149354	1149354	1149354	1149354	1149354	1149354	1149354	1149354	1149354	1149354
	1149355	1149355	1149355	1149355	1149355	1149355	1149355	1149355	1149355	1149355	1149355
	1149356	1149356	1149356	1149356	1149356	1149356	1149356	1149356	1149356	1149356	1149356
	1149369	1149369	1149369	1149369	1149369	1149369	1149369	1149369	1149369	1149369	1149369
	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357
	–	–	–	–	–	–	–	–	–	–	–
	725620/ 725621	725622	725623	725624	725625	725618/ 725619	725620/ 725621	725622	725623	725624	725625

Choice guide
Stainless steel 316L

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
H / W			50 pcs/250 pcs					
	–	–	–	1149313	1149300	1149310	WBE1149301	
Ceiling support								
Vertical piece 2	–	–	–	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	
Vertical piece 2F	–	–	–	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	
Vertical piece 2FB	–	–	–	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	
Cantilever arm 50	1149355	–	1149384/85	725618 725619	725618 725619	725618 725619	725618 725619	
Support hook D35	1149355	–	1149384/85	–	–	–	CSU795350	
Support hook B39	–	1149551/52 1149561/62	1149384/85 1149554/64	–	–	–	1149317	
Pendant/fixing rail 24/48	–	–	–	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	
Pendant joint 2FJ	–	–	–	726485	726485	726485	726485	
Ceiling bracket 5	–	–	–	725573	725573	725573	725573	
Ceiling fitting Universal B46	–	–	–	1149574	1149574	1149574	1149574	
Ceiling fitting Flexible B47/M8	–	–	–	1149575	1149575	1149575	1149575	
Ceiling fitting Flexible B47/M10	–	–	–	1149576	1149576	1149576	1149576	
Ceiling clamp B48/ M8	–	–	–	1149572	1149572	1149572	1149572	
Ceiling clamp B48/ M10	–	–	–	1149573	1149573	1149573	1149573	
Pendant bar 1-500	–	–	–	CSU795328	CSU795328	CSU795328	CSU795328	
Floor support								
Bracket B4	–	–	–	–	–	–	1149357	
Bracket B4 mini	–	–	–	1149398	1149398	1149398	–	
Support B33	1149355	–	1149384/85	–	–	–	1149335	

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x60
	1149302	1149303	1149314	1149315	1149316	1149304	1149305	1149306	1149307	1149308	1149309
	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561	725557 725558 725559 725560 725561
	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566	725562 725564 725566
	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340	CSU795338 CSU795339 CSU795340
	725620 725621	725622	725623	725624	725625	725618 725619	725620 725621	725622	725623	725624	725625
	CSU795350	1149320	1149320	CSU795352	CSU795352	CSU795350	CSU795350	1149320	1149320	CSU795352	CSU795352
	1149317	1149318	1149318	–	–	1149317	1149317	1149318	1149318	–	–
	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566	728595 CSU795566
	726485	726485	726485	726485	726485	726485	726485	726485	726485	726485	726485
	725573	725573	725573	725573	725573	725573	725573	725573	725573	725573	725573
	1149574	1149574	1149574	1149574	1149574	1149574	1149574	1149574	1149574	1149574	1149574
	1149575	1149575	1149575	1149575	1149575	1149575	1149575	1149575	1149575	1149575	1149575
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	1149573	1149573	1149573	1149573	1149573	1149573	1149573	1149573	1149573	1149573	1149573
	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328	CSU795328
	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357	1149357
	–	–	–	–	–	–	–	–	–	–	–
	1149335	1149335	1149335	1149335	1149335	1149335	1149335	1149335	1149335	1149335	1149335

Choice guide
Stainless steel 316L

Dimensions (WxH mm)	Complementary accessories			Dimensions (WxH mm)				
	Fitting B2	Threaded rod	Bolt B13	53x45	75x4/55	75x5/55	120x60	
			50 pcs/250 pcs					
	–	–	–	1149313	1149300	1149310	WBE1149301	
Dividers								
Separating plate B26	–	–	–	1149378	1149378	1149378	1149378	
Tele Channel B6	–	–	–	-	1149347	1149347	1149347	
Cover								
Cover B7	–	–	–	–	CSU795269	CSU795269	CSU795270	
Fixing accessories								
Combi fitting B21	–	–	–	1149359	1149359	1149359	1149359	
Combi fitting B21 90°	1149355	–	1149384/85	1149391	1149391	1149391	1149391	
Accessori holder								
Accessori holder B5 mini	–	–	–	1149337	1149337	1149337	1149337	
Accessori holder B5 without holes	–	–	–	1149368	1149368	1149368	1149368	
Accessori holder B5 with holes	–	–	–	1149358	1149358	1149358	1149358	

Others	
Bolt and nut B13 50pcs/250pcs	1149384 1149385
Earth connection clamp B18	1149180
Cable roller B25	1653955
Bolt cutter B28	1623998
10 mm Spanner B45	1622200
13 mm Spanner B45	1622221

Threaded rod	
Threaded rod B41 M8 1000 mm/2000 mm	1149551 1149552
Threaded rod B41 M10 1000 mm/2000 mm	1149561 1149562
Flange nut B43 M8	1149554
Flange nut B43 M10	1149564
Distance Nut M8	1149555
Distance Nut M10	1149565

	220x60	320x60	422x60	522x60	622x60	120x110	220x110	320x110	422x110	522x110	622x110
	1149302	1149303	1149314	1149315	1149316	1149304	1149305	1149306	1149307	1149308	1149309
	1149378	1149378	1149378	1149378	1149378	1149378	1149378	1149378	1149378	1149378	1149378
	1149347	1149347	1149347	1149347	1149347	1149347	1149347	1149347	1149347	1149347	1149347
	CSU795271	CSU795272	CSU795273	–	–	CSU795270	CSU795271	CSU795272	CSU795273	–	–
	1149359	1149359	1149359	1149359	1149359	1149359	1149359	1149359	1149359	1149359	1149359
	1149391	1149391	1149391	1149391	1149391	1149391	1149391	1149391	1149391	1149391	1149391
	1149337	1149337	1149337	1149337	1149337	1149337	1149337	1149337	1149337	1149337	1149337
	1149368	1149368	1149368	1149368	1149368	1149368	1149368	1149368	1149368	1149368	1149368
	1149358	1149358	1149358	1149358	1149358	1149358	1149358	1149358	1149358	1149358	1149358

Marking/Identification		
Marking clip B44	1149427	
Marking Clip B44 Potentialutjämning	1149428	
Marking Clip B44 Equipotential Bonding	1149429	
Marking Clip B44 Potentialausgleich	1149430	

End plugs 28E		
Pendant 2F/2FB Pendant fixing rail 24/48	709021	

Marking/Identification		
Identification Tag B40 Opto	1149420	
Identification Tag B40 Coax	1149421	
Identification Tag B40 Pair	1149422	
Identification Tag B40 Neutral	1149423	
Identification Tag B40 Pow	1149424	

Steel mesh trays

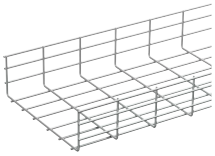
Electro-galvanized/Pre-galvanized
Corrosion class C1

Mesh trays, electro-galvanized

P140859

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ø 4 and 5 mm wire, see dimension table below. Material: Steel, electro-galvanized.				
53/45	45/53/2500	175	7332227011136	**1149113**
75x4/55	55/75/2500	187	7332227011006	**1149100**
75x5/55	55/75/2500	290	7332227011105	**1149110**
120/60	60/120/2500	311	7332227011013	**1149101**
220/60	60/220/2500	430	7332227011020	**1149102**
320/60	60/320/2500	546	7332227011037	**1149103**
422/60	60/422/2500	757	7332227011143	**1149114**
522/60	60/522/2500	895	7321677886852	**1149115**
622/60	60/622/2500	1040	7321677886869	**1149116**

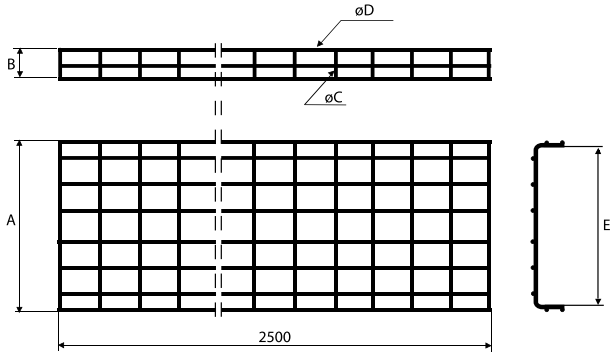
P140865



Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Steel, electro-galvanized.				
120/110	110/120/2500	430	7332227011044	**1149104**
220/110	110/220/2500	546	7332227011051	**1149105**
320/110	110/320/2500	663	7332227011068	**1149106**
422/110	110/422/2500	895	7332227011075	**1149107**
522/110	110/522/2500	1044	7332227011082	**1149108**
622/110	110/622/2500	1083	7332227011099	**1149109**

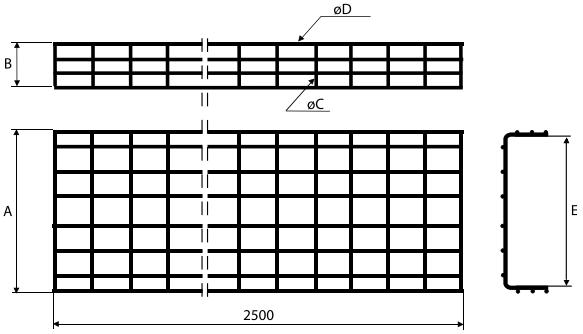
Dimension table

B225239



B225240

Type	A mm	B mm	C mm	D mm	E mm	Ref. No.
Mesh tray 53/45	53	45	4	4	37	**1149113**
Mesh tray 75x4/55	75	55	4	4	59	**1149100**
Mesh tray 75x5/55	75	55	5	5	55	**1149110**
Mesh tray 120/60	120	60	5	5	100	**1149101**
Mesh tray 220/60	220	60	5	5	200	**1149102**
Mesh tray 320/60	320	60	5	5	300	**1149103**
Mesh tray 422/60	422	60	5	6	400	**1149114**
Mesh tray 522/60	522	60	5	6	500	**1149115**
Mesh tray 622/60	622	60	5	6	600	**1149116**



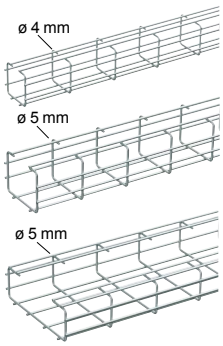
Mesh tray 120/110	120	110	5	5	100	**1149104**
Mesh tray 220/110	220	110	5	5	200	**1149105**
Mesh tray 320/110	320	110	5	5	300	**1149106**
Mesh tray 422/110	422	110	5	6	400	**1149107**
Mesh tray 522/110	522	110	5	6	500	**1149108**
Mesh tray 622/110	622	110	5	6	600	**1149109**

Steel mesh trays

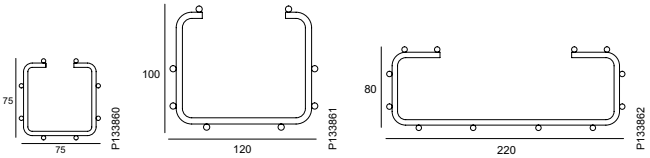
Electro-galvanized/Pre-galvanized
Corrosion class C1

C and G-Mesh trays

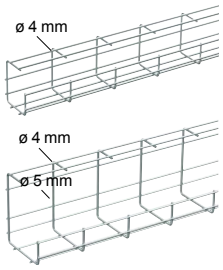
P140869 P140870 P140871



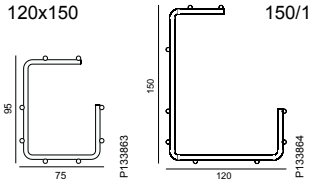
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
C-mesh trays				
C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed. Material: Steel, electro-galvanized.				
75x75	75/75/2500	258	7332227011327	**1149132**
120x100	100/120/2500	437	7332227011334	**1149133**
220x80	80/220/2500	634	7332227011341	**1149134**



P149848 P149849



G-mesh trays				
G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders. Material: Steel, electro-galvanized.				
75x95	95/75/2500	256	7332227011389	**1149138**
120x150	150/120/2500	356	7332227011396	**1149139**

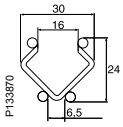


Mini Mesh trays

P140953

Mini mesh trays B30-D

Mini mesh tray for the routing of cables. Diamond-shaped for good guiding and protection. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, electro-galvanized.

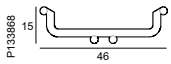


B30-D	24/30/2000	50	7332227011129	**1149112**

P140954

Mini mesh trays B30-U

Mini mesh tray in a space-saving U-shape for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, electro-galvanized.

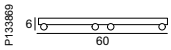


B30-U	15/46/2000	50	7332227011259	**1149125**

P140955

Mini mesh trays B30-I

Mini mesh tray in a space-saving plane design for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, electro-galvanized.



B30-I	6/60/2000	50	7332227011112	**1149111**

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Fittings

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140956	**Fitting B1**				
	Fitting to be used as a wall bracket. It can also be mounted over the centre wires as a carrier of lighting fittings. Can also be used in 90 degree angles or as a joining fitting. Delivered without bolt and nut. Material: Steel, electro-galvanized.				
	B1	40/5/80	4,8	7332227011549	**1149154**
P140957	**Fitting B2**				
	Fitting to be used to join mesh trays. Can also be used in 90 degree angles. Delivered without bolt and nut. Material: Steel, electro-galvanized.				
	B2	35/7/25	2	7332227011556	**1149155**
P140958	**Fitting B3**				
	Fitting to be used when jointing wires in horizontal and vertical bends, in four-way and tee-junctions, etc. Delivered with bolt and nut. Material: Steel, electro-galvanized.				
	B3	20/29/23	4	7332227011563	**1149156**
P140959	**Angled fitting B27**				
	Angled fitting for creating T-junctions or for connections to wall, ceiling and floor. Also for bends with adjustable angle. Material: Steel, electro-galvanized.				
	B27	85/40/85	13	7332227011693	**1149169**
P140963	**Mounting coupler B20**				
	Mounting coupler to be used for joining and mounting of mini mesh trays. Material: Steel, electro-galvanized.				
	B20	9/19/85	2	7332227011310	**1149131**
P140960	**Joining set B52**				
	Pre-assembled joining fitting including Fittings B1 and B2, Bolt and Nut B13. Used to join the side sections of all mesh trays. Material: Steel, electro-galvanized.				
	B52	41/25/80	8	7332227011532	**1149153**
P141021	**Bolt and nut B13**				
	Bolt and nut M6x25. Tensi-lock and flange nut M6. Material: Steel, electro-galvanized.				
	B13, 50+50 pcs	30/18/18	0.56/bag	7332227011846	**1149184**
	B13, 250+250 pcs	30/18/18	2.82/bag	7332227011853	**1149185**

Brackets

P140961	**Bracket B4/B4 Mini**				
	Bracket to be used for the mounting of mesh trays 53-622 onto wall and floor. Material: Steel, electro-galvanized.				
	B4	85/30/95	14	7332227011570	**1149157**
P140962	B4 Mini	53/23/55	6	7332227011983	**1149198**

Cantilever arms

P138932	**Cantilever arm 50i**				
	Cantilever arm to be used for mountings on walls, vertical pieces or pendant/fixing rails. Material: Steel, pre-galvanized.				
	50i/100	80/150/43	19	7321677914128	**791412**
	50i-200	85/250/43	29	7321677914135	**791413**
	50i-300	110/350/43	46	7321677914142	**791414**
	50i-400	115/450/44	83	7321677914159	**791415**
	50i/500	150/580/50	160	3606480911354	**CSU795322**
	50i/600	150/680/50	186	3606480911361	**CSU795323**
P140072	**T-bolt M8x30**				
	T-bolt to be used for the mounting of cantilever arm 50i on Pendant/fixingrail 24/48 and vertical piece 2F/2FB. Material: Steel, electro-galvanized.				
	T-bolt M8x30	-	4,5	7321677349838	**734983**

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Vertical pieces

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Vertical piece 2				
Vertical piece to be used for installation of support bracket 3, symmetrical loading. Not suitable for cable ladders KHZV and KHZPV. Can be joined to Pendant/fixing rail 24/34 with Pendant joint 2J. Material: Steel, electro galvanized.				
2-300	279/80/135	52	3606489475895	**CSU795572**
2-500	504/80/135	72	3606489475901	**CSU795573**
2-1000	1022/80/135	120	3606489475918	**CSU795574**
Vertical piece 2F				
Vertical piece to be used for installation of central suspension bracket D35 and cantilever arm 50i. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Steel, electro-galvanized.				
2F-280	280/135/80	80	3606480911422	**CSU795329**
2F-505	505/135/80	130	3606480911439	**CSU795330**
2F-1000	1000/135/80	220	3606480911446	**CSU795331**
Vertical piece 2FB				
Reinforced vertical piece to be used for installation of central suspension bracket D35 and cantilever arm 50i. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Steel, electro-galvanized.				
2FB-280	280/155/150	113	3606480911453	**CSU795332**
2FB-505	505/155/150	163	3606480911460	**CSU795333**
2FB-1000	1000/155/150	253	3606480911477	**CSU795334**
Pendant B12 for fire resistance installations E30 - E90				
Pendant for specific fire certified installations according to DIN 4102-12 Classification E30 - E90. Specifically to be used to suspend the Defem electro-galvanized mesh trays in combination with cantilever arm 50i. Telescopic extension with B19. Material: Steel, electro-galvanized.				
Pendant B12	500/142/142	188	3606480920462	**CSU795354**

P139937

P139938

P122499

P140969

Ceiling and joining fittings, support, pendant joints

Ceiling bracket 5				
Ceiling bracket to be used for installations with Pendant/Fixing rail 24/48. Screw set 22S included. Material: Steel, pre-galvanized.				
5	100/135/40	35	7321677211012	**721101**
Pendant/fixing rail 24/48				
Pendant/Fixing rail for mounting of support brackets, cantilever arms etc. Material: Steel, pre-galvanized.				
24/48	1000/26/48	175	3606481317858	**CSU795564**
24/48	2970/26/48	520	7321677317172	**731717**
Extension B19 for fire resistance installations E30 - E90				
Telescopic pendant extension for specific fire certified installations according to DIN 4102-12 Classification E30 - E90. Specifically to be used to extend pendant B12. Material: Steel, electro-galvanized.				
B19/1000	1000/61/21	172	3606480920479	**CSU795355**
Pendant joint 2FJ				
Pendant joint to be used for joining pendant/fixing rails and vertical pieces. Screws M8x16 and nuts included. Material: Steel, pre-galvanized.				
2FJ	200/18/55	46	3606480911385	**CSU795325**
Pendant bar 1				
Pendant bar to be installed in order to reduce the deflection of heavily loaded vertical pieces. Installed with T-bolt and Expansion bolt. Material: Steel, pre-galvanized.				
1-500	515/166/40	53	7321677927289	**792728**

P140348

P140345

P140971

P139960

P140346

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Ceiling and joining fittings, support

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140974	**Ceiling fitting, universal B46**				
	Universal ceiling fitting intended for mounting of Threaded rod B41 onto ceiling. Material: Steel, electro-galvanized.				
	B46	75/30/60	9	7332227014748	**1149474**
P140975	**Ceiling fitting, flexible B47**				
	Flexible ceiling fitting that adapts to the inclination of the ceiling. Delivered complete with Tensi-lock flange nut. Material: Steel, electro-galvanized.				
	B47/M8	65/65/65	12	7332227014755	**1149475**
	B47/M10	65/65/65	13	7332227014762	**1149476**
P140976	**Ceiling clamp B48**				
	Ceiling clamp for hole dimension Ø 22 mm. Delivered complete with Tensi-lock nut and washers. Material: Steel, electro-galvanized.				
	B48/M8	20/20/75	6	7332227014724	**1149472**
	B48/M10	20/20/75	7	7332227014731	**1149473**
P140151	**Screw set 22S**				
	Screw set to be used for installation of central suspension bracket D35 on Vertical piece 2F/2FB, central suspension bracket D35 and Ceiling bracket 5 on Pendant/fixing rails 24/48, and Pendant/fixing rails back to back. Set including screw MVBF 8x16 and nut M6MF8. Material: Steel, hot-dip galvanized.				
	22S	—	1.9	7321677136940	**713694**

Support hooks

P140977	**Support hook D35/120-220**				
	Support hook intended for 120-220 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/120-220	160/49/94	19	3606480911576	**CSU795344**
P140978	**Support hook D35/320-422**				
	Reinforced support hook intended for 320-422 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/320-422	161/48/290	37	7332227011204	**1149120**
P122501	**Support hook D35/422-622**				
	Reinforced support hook intended for 422-622 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/522-622	176/48/490	91	3606480911590	**CSU795346**
P140980	**Support hook B39**				
	Support hook for mounting onto a Threaded rod. For tray widths 120-220 and 320-422 respectively. Material: Steel, electro-galvanized.				
	B39/120-220	25/49/95	8	7332227011174	**1149117**
P140981	B39/320-422	25/49/290	30	7332227011181	**1149118**

Threaded rods

	Threaded rod B41				
	Threaded rod according to metric standard 6G. Material: Steel, electro-galvanized.				
P140075	B41/M8	8/8/1000 8/8/2000	31 63	7332227014519 7332227014526	**1149451** **1149452**
P140076	B41/M10	10/10/1000 10/10/2000	49 98	7332227014618 7332227014625	**1149461** **1149462**

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Nuts, locks, clamps

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140154	**Flange nut B43**				
	Flange nut to be mounted onto Threaded rod B41 in order to lock it to the Support hook and the Ceiling fittings. Material: Steel, electro-galvanized.				
	B43/M8, 50 pcs	8/17/17	0.4/bag	7321677888474	**1149405**
	B43/M10, 50 pcs	15/20/20	0.56/bag	7332227014649	**1149464**
P140155	**Distance nut B42**				
	Distance nut to be used when joining Threaded rods. Material: Steel, electro-galvanized.				
	B42/M8	30/15/15	1	7332227014557	**1149455**
	B42/M10	40/20/20	2	7332227014656	**1149465**
P140094	**Thread lock B50**				
	Thread lock to be used when joining Threaded rods. Material: Zinc, electro-galvanized.				
	B50/M8	35/10/20	1	7332227014564	**1149456**
	B50/M10	35/12/24	2	7332227014663	**1149466**
P133793	**Beam clamp B49**				
	Beam clamp intended for mounting onto a beam. Material: Steel, electro-galvanized.				
	B49	60/43/20	14	7332227014717	**1149471**

Accessory holders

P140982	**Accessory holder B5 Mini**				
	Accessory holder with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, electro-galvanized.				
	B5 Mini	140/24/170	20	7332227011372	**1149137**
	Accessory holder B5				
	Accessory holder without holes or with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, electro-galvanized.				
P140983	B5 with holes	107/24/240	43	7332227011587	**1149158**
P140984	B5 without holes	107/24/240	46	7332227011686	**1149168**

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Accessories

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Plate cover B7				
Mesh tray plate cover, for tray widths acc. to the type designation. With built-in clip function to fix cover on mesh tray. Cover length 1250 mm. Material: Steel, pre-galvanized.				
B7/75	16/80/1250	72	3606485412276	**CSU795264**
B7/120	16/125/1250	130	3606485412283	**CSU795265**
B7/220	16/226/1250	170	3606485412290	**CSU795266**
B7/320	16/326/1250	240	3606485412306	**CSU795267**
B7/422	16/426/1250	310	3606485412313	**CSU795268**
Separating plate B36 and Plate holder B38				
Separating plate for simple joining by entering plates into each other. Plate holder B38 is used to mount the separating plates onto a mesh tray. Material: Zinc, pre-galvanized.				
B36	38/4/2400	65	7332227012768	**1149276**
Plate holder to be used for mounting of Separating plate B36, 5 pcs/Separating Plate. Material: Zinc, electro-galvanized.				
B38	50/15/20	3	7332227012898	**1149289**
Separating plate B26				
L-shaped separating plate, fixed to the mesh tray by bending the flaps around the transversal wires. Material: Steel, pre-galvanized.				
B26, L-shaped	40/30/2500	114	7332227012782	**1149278**
Tele-channel B6				
Tele-channel to be fixed to the mesh tray by bending the flaps around the transversal wires. Material: Steel, pre-galvanized.				
B6	40/50/2500	195	7332227012478	**1149247**
Combi-fittings B21				
Combi-fitting to be mounted onto cable ladders. Material: Steel, electro-galvanized.				
B21	250/50/20	44	7332227011594	**1149159**
B21 90 degrees	120/50/135	44	7332227011914	**1149191**
Support B33				
Support to be used for mounting of all mesh trays on the floor, for example under a raised floor. The height of B33 Support is adjustable from 215 to 370 mm. The upper or lower part can be adjusted in a 90º angle. Material: Steel, electro-galvanized.				
B33	215/100/220	169	7332227011358	**1149135**
Conveyor bracket B17				
Universal fitting to be used when mounting mesh trays along conveyor systems. Material: Steel, electro-galvanized.				
B17	35/450/35	52	7332227011921	**1149192**
Fixing for Canalis KBA and KBB				
Fixing bracket to fix Canalis busbar trunking to the mesh trays. Hole for M6 on top, dia. 6.5 mm. Maximum load 60 kg. Material: Steel, pre-galvanized.				
For Canalis KBA	78/38/52.5	65	3606480461590	**CSU794592**
For Canalis KBB	78/38/68.5	78	3606480461606	**CSU794593**
Earth connection clamp B18				
Earth connection clamp to be used to mount earth cable onto a chosen wire of the mesh tray. Material: Brass, electrolytically nickel coated.				
B18	15/30/15	2	321677887163	**1149180**

P150425

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P140021

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P131609
P131608

P141000

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Accessories

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
End plug 28E				
End plug to be mounted on Pendant 2F/2FB and on Pendant/fixing rail 24/48 respectively, see below. Intended to provide protection against personal injuries and to make the the ends of the profiles more conspicuous. Material: PP/TPE, orange.				
28E for Vertical piece 2F and Pendant/fixing rail 24/48	24/30/52	0.5	7321677090211	**709021**
Safety cap B32				
Safety cap of halogen-free and flame-proof plastic material. To be mounted onto wires sticking out. Bag with 100 pcs. Material: PE.				
B32/3	5/8/5	5	7332227013895	**1149389**
B32/4	8/10/8	5	7332227013888	**1149388**
B32/5	8/10/8	4	7332227013666	**1149366**
B32/6	8/10/9	3	7332227013673	**1149367**
Mounting spacer B22				
Plastic spacer that fits all mini mesh-tray dimensions. Mounted by snapping the spacer onto the bottom wires. For 3 mm wire diameter. Bag with 10 pcs. Material: PE.				
B22	6/18/18	1.4	7332227015233	**1149523**
Bend plate B31				
Bend plate for smooth bending of cables when changing level. For tray widths 120, 220, 320 and 422 mm respectively. Material: Aluminium.				
B31/120	5/290/90	4	7332227012263	**1149226**
B31/220	5/290/190	9	7332227012270	**1149227**
B31/320	5/290/290	13	7332227012287	**1149228**
B31/422	5/290/390	17	7332227012294	**1149229**
Side radius limiter B11				
Radius limiter to be used for limiting the side bend radius of any cable type. R = 40 mm. Material: Steel, pre-galvanized.				
B11/5 for mesh trays 75x5-320 mm	120/40/215	24	7332227014380	**1149438**
B11/6 for mesh trays 422-622 mm	120/40/215	24	7332227014397	**1149439**
Radius limiter B34				
Radius limiter that limits the bend radius for sensitive cables. The radius limiter is mounted from below by using the locking stick. Material: Steel, pre-galvanized.				
B34/75	40/80/75	8	7332227014373	**1149437**
B34/120	40/80/115	10	7332227014311	**1149431**
B34/220	40/80/215	21	7332227014328	**1149432**
B34/320	40/80/315	32	7332227014335	**1149433**
B34/422	40/80/415	43	7332227014342	**1149434**
B34/522	40/80/515	55	7332227014359	**1149435**
B34/622	40/80/615	65	7332227014366	**1149436**

P140069

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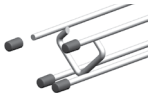

P141002

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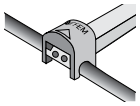
Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Accessories

P141006
P141005

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Radius limiter B67, Cover B68				
Radius limiter that limits the bend radius and gives protection at side position. The radius limiter is mounted from below by using the locking stick. Cover B68 is used for extra protection of cables < 2 mm. Material: Steel, pre-galvanized.				
B67/75 B68/75	40/150/75 10/25/60	13 1	7332227014427 7332227014823	**1149442** **1149482**
B67/120 B68/120	40/150/115 10/25/102	18 2	7332227014434 7332227014830	**1149443** **1149483**
B67/220 B68/220	40/150/215 10/25/202	30 4	7332227014441 7332227014847	**1149444** **1149484**
B67/320 B68/320	40/150/315 10/25/302	42 6	7332227014458 7332227014854	**1149445** **1149485**
B67/422 B68/422	40/150/415 10/25/402	53 8	7332227014465 7332227014861	**1149446** **1149486**
B67/522 B68/522	40/150/515 10/25/502	65 10	7332227014472 7332227014878	**1149447** **1149487**
B67/622 B68/622	40/150/615 10/25/602	77 12	7332227014489 7332227014885	**1149448** **1149488**
AS-I clip B14				
Plastic clip, oil and UV-resistant, intended for the fixing of AS-I cable. For mesh tray wire diameter 4 and 5 mm respectively. The grey clip is also used for mounting onto Fixing plate B15. Package of 100 pcs. Material: POM.				
B14, blue For 4 mm wire	10/15/14	10	7332227015202	**1149520**
B14, grey For 5 mm wire	10/15/14	10	7332227015219	**1149521**
Fixing plate B15				
Plastic plate, oil and UV-resistant, intended for mounting of cable or hose onto machines for example. The cable is mounted onto the fixing plate with Cable clips B14 or B16. Package of 100 pcs. Material: POM.				
B15, grey	5/15/15	7	7332227015226	**1149522**
Cable clip B16				
Plastic clip, oil and UV-resistant, intended for mounting of cable or hose, Ø 6, 8 or 10 mm respectively, onto a 5 mm mesh tray wire. Can also be used to mount cable or hose onto Fixing plate B15. Package of 100 pcs. Material: POM.				
B16, grey, Ø 6 mm	10/16/15	11	7332227015257	**1149525**
B16, black, Ø 8 mm	10/16/15	10	7332227015264	**1149526**
B16, white, Ø 10 mm	10/16/15	9	7332227015271	**1149527**
Velcro B51				
Velcro tape intended to attach bundles of cables onto a mesh tray. Length 22.8 m, colour black.				
B51/10	10/22.8	16	7332227186506	**1518650**
B51/20	20/22.8	32	7332227186513	**1518651**



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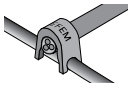


P141011

P141012

P141013

P149448

Steel mesh trays

Electro-galvanized/Pre-galvanized
Corrosion class C1

Accessories

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
	Marking clip B44				
	Plastic marking clip, flame-resistant, to be snapped onto the two side wires of the mesh tray. The Equipotential Bonding clip is available in Swedish, English and German. Package of 10 pcs. Material: ABS.				
P133791	B44	40/10/90	1	7332227014274	**1149427**
P141014	B44/Potentialutjämning, SE	40/10/90	1	7321677888566	**1149428**
P133792	B44/Equipotential Bonding, GB	40/10/90	1	7321677888573	**1149429**
P141015	B44/Potentialausgleich, DE	40/10/90	1	7321677888580	**1149430**
	Identification tag B40				
	Identification tag to be snapped onto mesh tray wires of Ø 5 mm.Package of 10 pcs. Material: ABS.				
P141016	B40/Opto	35/8/43	1	7332227014205	**1149420**
P141017	B40/Coax	35/8/43	1	7332227014212	**1149421**
P141018	B40/Pair	35/8/43	1	7332227014229	**1149422**
P141019	B40/Neutral	35/8/43	1	7332227014236	**1149423**
P141020	B40/Pow	35/8/43	1	7332227014243	**1149424**

Tools

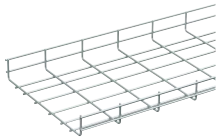
	Cable roller B25				
B224692	Cable roller intended to facilitate the pulling of cables into the mesh trays. Mounted on the mesh tray by pulling the black knob outwards. When the cable pulled by the cable roller has reached the desired distance, it is moved to the tray by pushing the small metal button to open the cable roller and removing it. Material: Stainless steel AISI316L, plastic.				
	B25	210/130/40	35	7332227019552	**1653955**
	Bolt cutter B28				
B224843	Bolt cutter with angled clipper cut head for narrow and clean cuts of mesh tray wires.				
	B28	140/40/630	272	7332227239981	**1623998**
	Spanner B45				
B224769	10 mm combination spanner, open end/flex head end. Material: Chrome vanadium steel.				
	B45	15/15/180	7	7332227222006	**1622200**

Steel mesh trays

Hot-dip galvanized
Corrosion class C2-C4

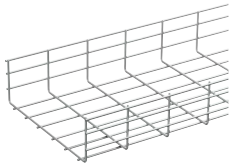
Mesh trays, HDG

P140859



Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ø 4 and 5 mm wire, see dimension table below. Material: Steel, HDG.				
53/45	45/53/2500	185	7332227012133	**1149213**
75x4/55	55/75/2500	204	7332227012003	**1149200**
75x5/55	55/75/2500	306	7332227012102	**1149210**
120/60	60/120/2500	340	7332227012010	**1149201**
220/60	60/220/2500	453	7332227012027	**1149202**
320/60	60/320/2500	585	7332227012034	**1149203**
422/60	60/422/2500	817	7332227012140	**1149214**
522/60	60/522/2500	949	7321677887354	**1149215**
622/60	60/622/2500	1106	7321677887361	**1149216**

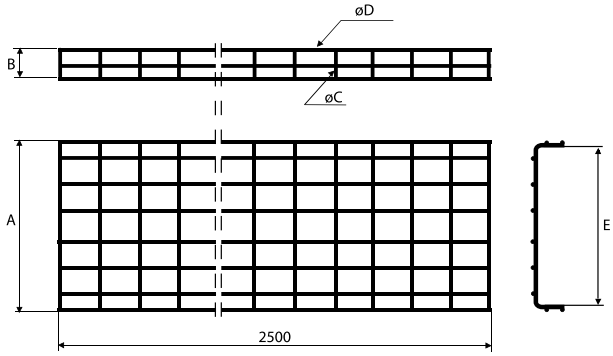
P140865



Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Steel, HDG.				
120/110	110/120/2500	453	7332227012041	**1149204**
220/110	110/220/2500	584	7332227012058	**1149205**
320/110	110/320/2500	709	7332227012065	**1149206**
422/110	110/422/2500	949	7332227012072	**1149207**
522/110	110/522/2500	1106	7321677887309	**1149208**
622/110	110/622/2500	1148	7321677887316	**1149209**

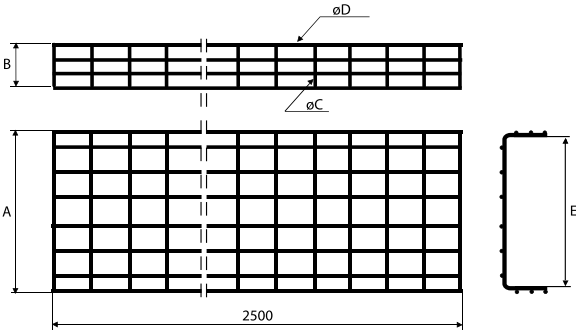
Dimension table

B225239



B225240

Type	A mm	B mm	C mm	D mm	E mm	Ref. No.
Mesh tray 53/45	53	45	4	4	37	**1149213**
Mesh tray 75x4/55	75	55	4	4	59	**1149200**
Mesh tray 75x5/55	75	55	5	5	55	**1149210**
Mesh tray 120/60	120	60	5	5	100	**1149201**
Mesh tray 220/60	220	60	5	5	200	**1149202**
Mesh tray 320/60	320	60	5	5	300	**1149203**
Mesh tray 422/60	422	60	5	6	400	**1149214**
Mesh tray 522/60	522	60	5	6	500	**1149215**
Mesh tray 622/60	622	60	5	6	600	**1149216**



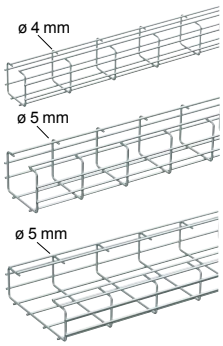
Mesh tray 120/110	120	110	5	5	100	**1149204**
Mesh tray 220/110	220	110	5	5	200	**1149205**
Mesh tray 320/110	320	110	5	5	300	**1149206**
Mesh tray 422/110	422	110	5	6	400	**1149207**
Mesh tray 522/110	522	110	5	6	500	**1149208**
Mesh tray 622/110	622	110	5	6	600	**1149209**

Steel mesh trays

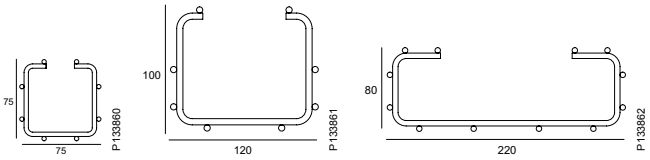
Hot-dip galvanized
Corrosion class C2-C4

C and G-Mesh trays

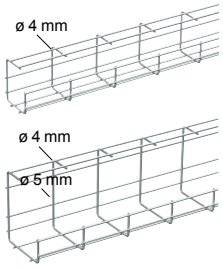
P140869 P140870 P140871



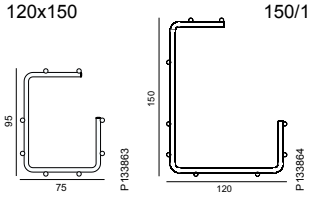
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
C-mesh trays				
C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed. Material: Steel, HDG.				
75x75	75/75/2500	278	7332227012324	**1149232**
120x100	100/120/2500	472	7332227012331	**1149233**
220x80	80/220/2500	685	7332227012348	**1149234**



P149848 P149849



G-mesh trays				
G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders. Material: Steel, HDG.				
75x95	95/75/2500	278	7332227012386	**1149238**
120x150	150/120/2500	472	7332227012393	**1149239**

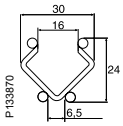


Mini Mesh trays

P140953

Mini mesh trays B30-D

Mini mesh tray for the routing of cables. Diamond-shaped for good guiding and protection. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, HDG.

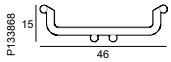


B30-D	24/30/2000	55	7332227012126	**1149212**

P140954

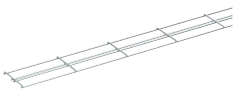
Mini mesh trays B30-U

Mini mesh tray in a space-saving U-shape for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, HDG.



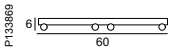
B30-U	15/46/2000	55	7332227012256	**1149225**

P140955



Mini mesh trays B30-I

Mini mesh tray in a space-saving plane design for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Steel, HDG.



B30-I	6/60/2000	55	7332227012119	**1149211**

Steel mesh trays

Hot-dip galvanized
Corrosion class C2-C4

Fittings

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140956	**Fitting B1**				
	Fitting to be used as a wall bracket. It can also be mounted over the centre wires as a carrier of lighting fittings. Can also be used in 90 degree angles or as a joining fitting. Delivered without bolt and nut. Material: Steel, HDG.				
	B1	40/5/80	4,8	7332227012546	**1149254**
P140957	**Fitting B2**				
	Fitting to be used to join mesh trays. Can also be used in 90 degree angles. Delivered without bolt and nut. Material: Steel, HDG.				
	B2	35/7/25	2	7332227012553	**1149255**
P140958	**Fitting B3**				
	Fitting to be used when jointing wires in horizontal and vertical bends, in four-way and tee-junctions, etc. Delivered with bolt and nut. Material: Steel, HDG.				
	B3	20/29/23	4	7332227012560	**1149256**
P140959	**Angled fitting B27**				
	Angled fitting for creating T-junctions or for connections to wall, ceiling and floor. Also for bends with adjustable angle. Material: Steel, HDG.				
	B27	85/40/85	13	7332227012690	**1149269**
P140963	**Mounting coupler B20**				
	Mounting coupler to be used for joining and mounting of mini mesh-wire trays. Material: Steel, HDG.				
	B20	9/19/85	2	7332227012317	**1149231**
P140960	**Joining set B52**				
	Pre-assembled joining fitting including Fittings B1 and B2, Bolt and Nut B13. Used to join the side sections of all mesh trays. Material: Steel, HDG.				
	B52	41/25/80	8	7332227012539	**1149253**
P141021	**Bolt and nut B13**				
	Bolt and nut M6x25. Tensi-lock and flange nut M6. Material: Steel HDG.				
	B13, 50+50 pcs	30/18/18	0.57/bag	7332227012843	**1149284**
	B13, 250+250 pcs	30/18/18	2.80/bag	7332227012850	**1149285**

Brackets

P140961	**Bracket B4/B4 Mini**				
	Bracket to be used for the mounting of mesh trays 53-622 onto wall and floor. Material: Steel, HDG.				
	B4	85/30/95	15	7332227012577	**1149257**
P140962	B4 Mini	53/23/55	6	7332227012980	**1149298**

Cantilever arms

P122500	**Cantilever arm 50i**				
	Cantilever arm to be used for mountings on walls, vertical pieces or pendant/fixing rails. Material: Steel, HDG.				
	50i/100	80/150/43	19	3606480911293	**CSU795316**
	50i/200	85/250/43	29	3606480911309	**CSU795317**
	50i/300	110/350/43	46	3606480911316	**CSU795318**
	50i/400	115/450/44	83	3606480911323	**CSU795319**
	50i/500	150/580/50	160	3606480911330	**CSU795320**
	50i/600	150/680/50	186	3606480911347	**CSU795321**
P140072	**T-bolt 26F M8x30**				
	T-bolt to be used for the mounting of cantilever arm 50i on Pendant/fixingrail 24/48 and vertical piece 2F/2FB. Material: Steel, hot-dip galvanized.				
	T-bolt 26F M8x30	-	4,5	7321677347445	**734744**

Steel mesh trays

Hot-dip galvanized
Corrosion class C2-C4

Vertical pieces

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Vertical piece 2VP				
Vertical piece to be used for installation of support bracket 3, symmetrical loading. Not suitable for cable ladders KHZV and KHZPV. Can be joined to Pendant/fixing rail 24/34 with Pendant joint 2J. Material: Steel, hot-dip galvanized.				
2-300	279/80/135	52	7321677171910	**717191**
2-400	392/80/135	62	7321677171927	**717192**
2-500	504/80/135	72	7321677171934	**717193**
2-700	729/80/135	93	7321677171941	**717194**
2-1000	1022/80/135	120	7321677171958	**717195**
Vertical piece 2F				
Vertical piece to be used for installation of central suspension bracket D35 and Cantilever arm 50i. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Steel, hot-dip galvanized.				
2F-280	280/80/135	80	7321677171965	**717196**
2F-505	505/80/135	130	7321677171989	**717198**
2F-1000	1000/80/135	220	7321677172009	**717200**
Vertical piece 2FB				
Reinforced vertical piece to be used for installation of central suspension bracket D35 and Cantilever arm 50i. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Steel, hot-dip galvanized.				
2FB-280	280/155/150	113	3606480911484	**CSU795335**
2FB-505	505/155/150	163	3606480911491	**CSU795336**
2FB-1000	1000/155/150	253	3606480911507	**CSU795337**

P139937

P139938

P122499

Ceiling and joining fittings, support

Ceiling bracket 5				
Ceiling bracket to be used for installations with Pendant/Fixing rail 24/48. Screw set 22S included. Material: Steel, hot-dip galvanized.				
5	100/135/40	35	7321677186402	**718640**
Pendant/Fixing rail 24/48				
Pendant/Fixing rail for mounting of support brackets, cantilever arms, etc. Material: Steel, hot-dip galvanized.				
24/48	1000/26/48	175	3606481317865	**CSU795565**
24/48	2970/26/48	520	7321677050932	**705093**
Pendant joint 2FJ				
Pendant joint to be used for joining pendant/fixing rails and vertical pieces. Screws M8x16 and nuts included. Material: Steel, hot-dip galvanized.				
2FJ	200/55/18	46	7321677131785	**713178**
Pendant bar 1				
Pendant bar to be installed in order to reduce the deflection of heavily loaded vertical pieces. Installed with T-bolt and Expansion bolt. Material: Steel, hot-dip galvanized.				
1-500	568/–/40	53	7321677176410	**717641**
Screw set 22S				
Screw set to be used for installation of central suspension bracket D35 on Vertical piece 2F/2FB, central suspension bracket D35 and Ceiling bracket 5 on Pendant/fixing rails 24/48 and Pendant/fixing rails back to back. Set including screw MVBF 8x16 and nut M6MF8. Material: Steel, hot-dip galvanized.				
22S	—	1.9	7321677136940	**713694**

P139961

P139946

P139960

P140023

P140151

Steel mesh trays

Hot-dip galvanized
Corrosion class C2-C4

Support hooks

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140977	**Support hook D35/120-220**				
	Support hook intended for 120-220 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/120-220	160/49/94	19	3606480911606	**CSU795347**
P140978	**Support hook D35/320-422**				
	Reinforced support hook intended for 320-422 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/320-422	161/49/290	37	7332227012201	**1149220**
P122501	**Support hook D35/422-622**				
	Reinforced support hook intended for 422-622 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/422-622	176/48/490	91	3606480911620	**CSU795349**
	Support hook B39				
	Support hook for mounting onto a Threaded rod. For tray widths 120-220 and 320-422 respectively. Material: Steel, HDG.				
P140980	B39/120-220	25/49/95	8	7332227012171	**1149217**
P140981	B39/320-422	25/49/290	32	7332227012188	**1149218**

Threaded rods

P140075	**Threaded rod W76**				
	Threaded rod for M8 ceiling mounting of cable support. For fixing, use Flange Nut M8 and for extension, Distance nut M8. Material: Steel, HDG.				
	W76/M8	8/8/1000 8/8/2000	32 64	3606480483783 3606480483776	**CSU794697** **CSU734698**

Nuts

P140154	**Flange nut**				
	Flange Nut M8 to be mounted on Threaded rod W76. Intended for ceiling mounting of cable support. Material: Steel, HDG.				
	Flange nut M8	8/17/17	1	3606480483806	**CSU794715**
P140155	**Distance nut**				
	Distance nut M8 to be used as an extension and a coupler of Threaded rod W76. Intended for ceiling mounting of cable support. Material: Steel, HDG.				
	Distance nut M8	30/15/15	4	3606480483790	**CSU794699**

Accessory holders

P140982	**Accessory holder B5 Mini**				
	Accessory holder with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, HDG.				
	B5 Mini	140/24/170	21	7332227012379	**1149237**
	Accessory holder B5				
	Accessory holder without holes or with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Steel, HDG.				
P140983	B5 with holes	107/24/240	43	7332227012584	**1149258**
P140984	B5 without holes	107/24/240	46	7332227012683	**1149268**

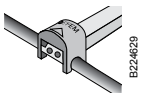
Steel mesh trays
Hot-dip galvanized
Corrosion class C2-C4

Accessories

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Combi-fittings B21				
Combi-fitting to be mounted onto cable ladders. Material: Steel, HDG.				
B21	250/50/20	48	7332227012591	**1149259**
B21 90 degrees	120/50/135	46	7332227012911	**1149291**
Support B33				
Support to be used for mounting of all mesh trays on the floor, for example under a raised floor. The height of B33 Support is adjustable from 215 to 370 mm. The upper or lower part can be adjusted in a 90º angle. Material: Steel, HDG.				
B33	215/100/220	174	7332227012355	**1149235**
Conveyor bracket B17				
Universal fitting to be used when mounting mesh trays along conveyor systems. Material: Steel, HDG.				
B17	35/450/35	56	7332227012928	**1149292**
Earth connection clamp B18				
Earth connection clamp to be used to mount earth cable onto a chosen wire of the mesh tray. Material: Brass, electrolytically nickel coated.				
B18	15/30/15	2	7321677887163	**1149180**
End plugs 28E				
End plug to be mounted on Pendant 2F/2FB and on Pendant/fixing rail 24/48 respectively, see below. Intended to provide protection against personal injuries and to make the the ends of the profiles more conspicuous. Material: PP/TPE, orange.				
28E for Vertical piece 2F/2FB and Pendant/fixing rail 24/48	24/30/52	0.5	7321677090211	**709021**
Safety cap B32				
Safety cap of halogen-free and flame-proof plastic material. To be mounted onto wires sticking out. Bag with 100 pcs. Material: PE.				
B32/3	5/8/5	5	7332227013895	**1149389**
B32/4	8/10/8	5	7332227013888	**1149388**
B32/5	8/10/8	4	7332227013666	**1149366**
B32/6	8/10/9	3	7332227013673	**1149367**
Mounting spacer B22				
Plastic spacer that fits all mini mesh-tray dimensions. Mounted by snapping the spacer onto the bottom wires. For 3 mm wire diameter. Bag with 10 pcs. Material: PE.				
B22	6/18/18	1.4	7332227015233	**1149523**
AS-I clip B14				
Plastic clip, oil and UV-resistant, intended for the fixing of AS-I cable. For mesh tray wire diameter 4 and 5 mm respectively. The grey clip is also used for mounting onto Fixing plate B15. Package of 100 pcs. Material: POM.				
B14, blue For 4 mm wire	10/15/14	10	7332227015202	**1149520**
B14, grey For 5 mm wire	10/15/14	10	7332227015219	**1149521**
Fixing plate B15				
Plastic plate, oil and UV-resistant, intended for mounting of cable or hose onto machines for example. The cable is mounted onto the fixing plate with Cable clips B14 or B16. Package of 100 pcs. Material: POM.				
B15, grey	5/15/15	7	7332227015226	**1149522**

P140021 P140022 P140998 P140999 P141000 P140069 P141001 P141002 P141008 P141009 P141010

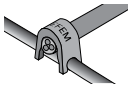
B224730


B224629

Steel mesh trays

Hot-dip galvanized
Corrosion class C2-C4

Accessories

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
	Cable clip B16				
	Plastic clip, oil and UV-resistant, intended for mounting of cable or hose, Ø 6, 8 or 10 mm respectively, onto a 5 mm mesh tray wire. Can also be used to mount cable or hose onto Fixing plate B15. Package of 100 pcs. Material: POM.				 B225156
P141011	B16, grey, Ø 6 mm	10/16/15	11	7332227015257	**1149525**
P141012	B16, black, Ø 8 mm	10/16/15	10	7332227015264	**1149526**
P141013	B16, white, Ø 10 mm	10/16/15	9	7332227015271	**1149527**
	Velcro B51				
	Velcro tape intended to attach bundles of cables onto a mesh tray. Length 22.8 m, colour black.				
P149448	B51/10	10/22.8	16	7332227186506	**1518650**
	B51/20	20/22.8	32	7332227186513	**1518651**
	Marking clip B44				
	Plastic marking clip, flame-resistant, to be snapped onto the two side wires of the mesh tray. The Equipotential Bonding clip is available in Swedish, English and German. Package of 10 pcs. Material: ABS.				
P133791	B44	40/10/90	1	7332227014274	**1149427**
P141014	B44/Potentialutjämning, SE	40/10/90	1	7321677888566	**1149428**
P133792	B44/Equipotential Bonding, GB	40/10/90	1	7321677888573	**1149429**
P141015	B44/Potentialausgleich, DE	40/10/90	1	7321677888580	**1149430**
	Identification tag B40				
	Identification tag to be snapped onto mesh tray wires of Ø 5 mm.Package of 10 pcs. Material: ABS.				
P141016	B40/Opto	35/8/43	1	7332227014205	**1149420**
P141017	B40/Coax	35/8/43	1	7332227014212	**1149421**
P141018	B40/Pair	35/8/43	1	7332227014229	**1149422**
P141019	B40/Neutral	35/8/43	1	7332227014236	**1149423**
P141020	B40/Pow	35/8/43	1	7332227014243	**1149424**

Tools

	Cable roller B25				
	Cable roller intended to facilitate the pulling of cables into the mesh trays. Mounted on the mesh tray by pulling the black knob outwards. When the cable pulled by the cable roller has reached the desired distance, it is moved to the tray by pushing the small metal button to open the cable roller and removing it. Material: Stainless steel AISI316L, plastic.				
B224692	B25	210/130/40	35	7332227019552	**1653955**
	Bolt cutter B28				
	Bolt cutter with angled clipper cut head for narrow and clean cuts of mesh tray wires.				
B224843	B28	140/40/630	272	7332227239981	**1623998**
	Spanner B45				
	10 mm combination spanner, open end/flex head end. Material: Chrome vanadium steel.				
B224769	B45	15/15/180	7	7332227222006	**1622200**

Steel mesh trays

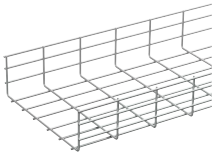
Stainless steel AISI 304L
Corrosion class C5-I

Mesh trays, stainless

P140859

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ø 4 and 5 mm wire, see dimension table below. Material: Stainless steel AISI304L.				
53/45	45/53/2500	176	3606480523472	**1149613**
75x4/55	55/75/2500	190	3606480518539	**1149600**
75x5/55	55/75/2500	297	3606480523465	**1149610**
120/60	60/120/2500	318	3606480518546	**1149601**
220/60	60/220/2500	437	3606480518560	**1149602**
320/60	60/320/2500	555	3606480518577	**1149603**
422/60	60/422/2500	772	3606480523489	**1149614**
522/60	60/522/2500	922	3606480523496	**1149615**
622/60	60/622/2500	1075	7315881149612	**WBE1149616**

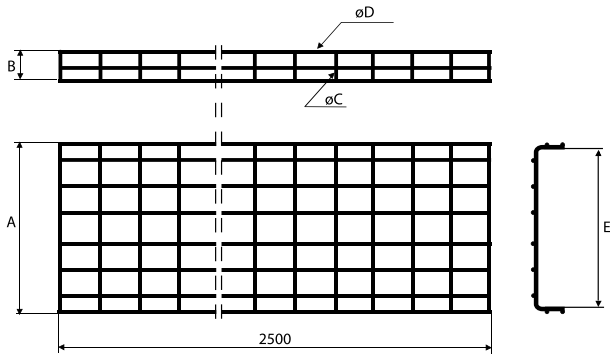
P140865



Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Stainless steel AISI304L.				
120/110	110/120/2500	443	3606480518584	**1149604**
220/110	110/220/2500	562	3606485444475	**1149605**
320/110	110/320/2500	683	3606485444482	**1149606**
422/110	110/422/2500	922	3606485444499	**1149607**
522/110	110/522/2500	1075	3606485444512	**WBE1149608**
622/110	110/622/2500	1116	3606485444505	**1149609**

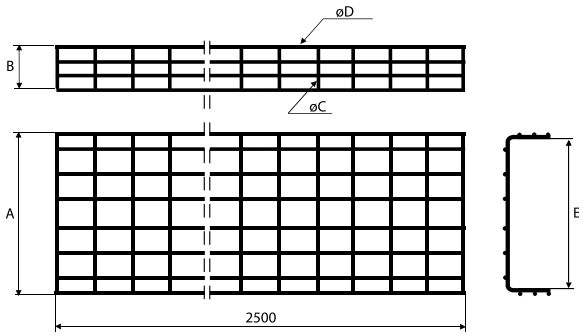
Dimension table

B225239



B225240

Type	A mm	B mm	C mm	D mm	E mm	Ref. No.
Mesh tray 53/45	53	45	4	4	37	**1149613**
Mesh tray 75x4/55	75	55	4	4	59	**1149600**
Mesh tray 75x5/55	75	55	5	5	55	**1149610**
Mesh tray 120/60	120	60	5	5	100	**1149601**
Mesh tray 220/60	220	60	5	5	200	**1149602**
Mesh tray 320/60	320	60	5	5	300	**1149603**
Mesh tray 422/60	422	60	5	6	400	**1149614**
Mesh tray 522/60	522	60	5	6	500	**1149615**
Mesh tray 622/60	622	60	5	6	600	**WBE1149616**



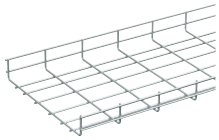
Mesh tray 120/110	120	110	5	5	100	**1149604**
Mesh tray 220/110	220	110	5	5	200	**1149605**
Mesh tray 320/110	320	110	5	5	300	**1149606**
Mesh tray 422/110	422	110	5	6	400	**1149607**
Mesh tray 522/110	522	110	5	6	500	**WBE1149608**
Mesh tray 622/110	622	110	5	6	600	**1149609**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

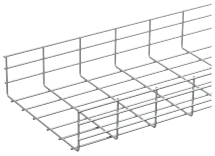
Mesh trays, stainless

P140859



Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ø 4 and 5 mm wire, see dimension table below. Material: Stainless steel AISI316L.				
53/45	45/53/2500	176	7332227013130	**1149313**
75x4/55	55/75/2500	190	7332227013000	**1149300**
75x5/55	55/75/2500	297	7332227013109	**1149310**
120/60	60/120/2500	318	7332227013017	**WBE1149301**
220/60	60/220/2500	437	7332227013024	**1149302**
320/60	60/320/2500	555	7332227013031	**1149303**
422/60	60/422/2500	772	7332227013147	**1149314**
522/60	60/522/2500	922	7321677887972	**1149315**
622/60	60/622/2500	1075	7321677887989	**1149316**

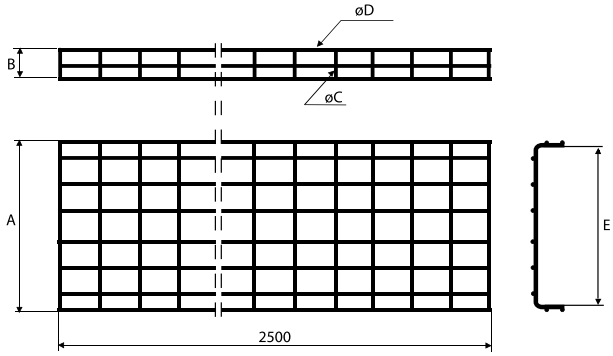
P140865



Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Stainless steel AISI316L.				
120/110	110/120/2500	443	7332227013048	**1149304**
220/110	110/220/2500	562	7332227013055	**1149305**
320/110	110/320/2500	683	7332227013062	**1149306**
422/110	110/422/2500	922	7332227013079	**1149307**
522/110	110/522/2500	1075	7321677887927	**1149308**
622/110	110/622/2500	1116	7321677887934	**1149309**

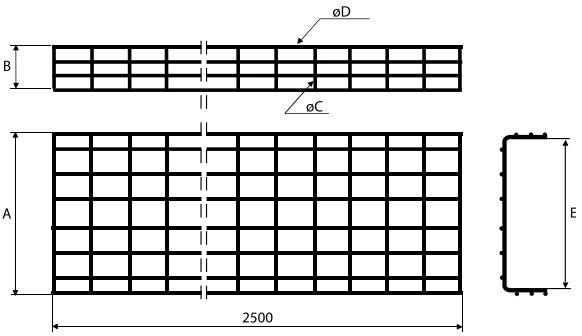
Dimension table

B225239



B225240

Type	A mm	B mm	C mm	D mm	E mm	Ref. No.
Mesh tray 53/45	53	45	4	4	37	**1149313**
Mesh tray 75x4/55	75	55	4	4	59	**1149300**
Mesh tray 75x5/55	75	55	5	5	55	**1149310**
Mesh tray 120/60	120	60	5	5	100	**WBE1149301**
Mesh tray 220/60	220	60	5	5	200	**1149302**
Mesh tray 320/60	320	60	5	5	300	**1149303**
Mesh tray 422/60	422	60	5	6	400	**1149314**
Mesh tray 522/60	522	60	5	6	500	**1149315**
Mesh tray 622/60	622	60	5	6	600	**1149316**



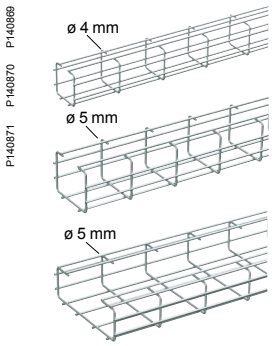
Mesh tray 120/110	120	110	5	5	100	**1149304**
Mesh tray 220/110	220	110	5	5	200	**1149305**
Mesh tray 320/110	320	110	5	5	300	**1149306**
Mesh tray 422/110	422	110	5	6	400	**1149307**
Mesh tray 522/110	522	110	5	6	500	**1149308**
Mesh tray 622/110	622	110	5	6	600	**1149309**

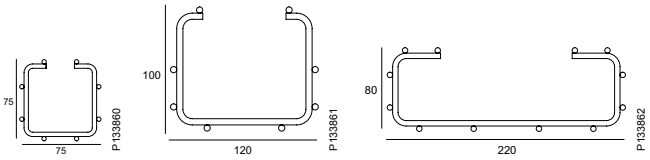
Steel mesh trays

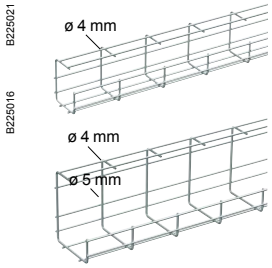
Stainless steel AISI 316L
Corrosion class C5-I/C5-M

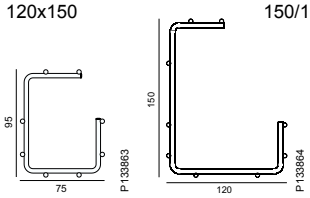
C, G and Z-Mesh trays

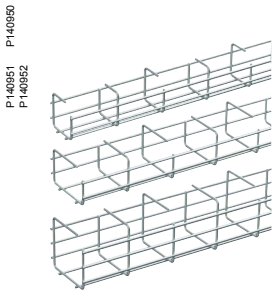
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
C-mesh trays				
C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed. Material: Stainless steel AISI316L.				
75x75	75/75/2500	253	7332227013321	**1149332**
120x100	100/120/2500	429	7332227013338	**1149333**
220x80	80/220/2500	623	7332227013345	**1149334**
G-mesh trays				
G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders. Material: Stainless steel AISI316L.				
75x95	95/75/2500	260	7332227013383	**1149338**
120x150	150/120/2500	350	7332227013390	**1149339**
Z-mesh trays				
Z-shaped mesh cable tray, length 2.5 m, for environments where regular and thorough cleaning is required. Wire ø 5 mm. Material: Stainless steel AISI316L.				
75x75	75/75/2500	201	7332227013406	**1149340**
120x75	80/120/2500	351	7332227013413	**1149341**
120x130	130/120/2500	469	7332227013420	**1149342**

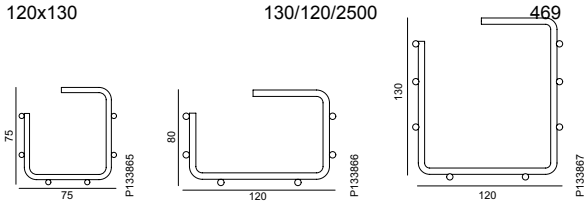










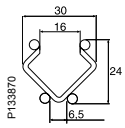


Mini mesh trays

Mini mesh trays B30-D

Mini mesh tray for the routing of cables. Diamond-shaped for good guiding and protection. Mesh tray length 2 m, wire ø 3 mm.
Material: Stainless steel AISI316L.

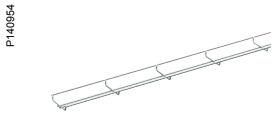
B30-D	24/30/2000	52	7332227013123	**1149312**

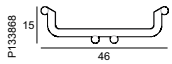


Mini mesh trays B30-U

Mini mesh tray in a space-saving U-shape for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Stainless steel AISI316L.

B30-U	15/46/2000	52	7332227013253	**1149325**

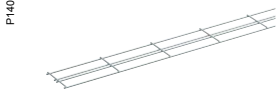


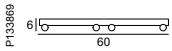


Mini mesh trays B30-I

Mini mesh tray in a space-saving plane design for the routing of cables. Mesh tray length 2 m, wire ø 3 mm.
Material: Stainless steel AISI316L.

B30-I	6/60/2000	52	7332227013116	**1149311**





Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Fittings and joining set

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140956	**Fitting B1**				
	Fitting to be used as a wall bracket. It can also be mounted over the centre wires as a carrier of lighting fittings. Can also be used in 90 degree angles or as a joining fitting. Delivered without bolt and nut. Material: Stainless steel AISI316L.				
	B1	40/5/80	4.8	7332227013543	**1149354**
P140957	**Fitting B2**				
	Fitting to be used to join mesh trays. Can also be used in 90 degree angles. Delivered without bolt and nut. Material: Stainless steel AISI316L.				
	B2	35/7/25	2	7332227013550	**1149355**
P140958	**Fitting B3**				
	Fitting to be used when jointing wires in horizontal and vertical bends, in four-way and tee-junctions, etc. Delivered with bolt and nut. Material: Stainless steel AISI316L.				
	B3	20/29/23	4	7332227013567	**1149356**
P140959	**Angled fitting B27**				
	Angled fitting for creating T-junctions or for connections to wall, ceiling and floor. Also for bends with adjustable angle. Material: Stainless steel AISI316L.				
	B27	85/40/85	13	7332227013697	**1149369**
P140963	**Mounting coupler B20**				
	Mounting coupler to be used for joining and mounting of mini mesh-wire trays. Material: Stainless steel AISI316L.				
	B20	9/19/85	2	7332227013314	**1149331**
P140960	**Joining set B52**				
	Pre-assembled joining fitting including Fittings B1 and B2, Bolt and Nut B13. Used to join the side sections of all mesh trays. Material: Stainless steel AISI316L.				
	B52	41/25/80	8	7332227013536	**1149353**
P141021	**Bolt and nut B13**				
	Bolt and nut M6x25. Tensi-lock and flange nut M6. Material: Stainless steel AISI316L.				
	B13, 50+50 pcs	30/18/18	0.59/bag	7332227013840	**1149384**
	B13, 250+250 pcs	30/18/18	2.90/bag	7332227013857	**1149385**

Brackets

P140961 P140962	**Bracket B4/B4 Mini**				
	Bracket to be used for the mounting of mesh trays 53-622 onto wall and floor. Material: Stainless steel AISI316L.				
	B4	85/30/95	15	7332227013574	**1149357**
	B4 Mini	53/23/55	5	7332227013987	**1149398**
P133930	**Bracket B4 100/2**				
	Bracket to be used for the mounting of mesh trays 422-622 mm. To be installed in pairs in two lines for heavy mesh trays. Intended for extended vertical installation in hygienic areas where a distance is needed for cleaning purposes. Distance to the supporting surface 100 mm. Material: Stainless steel AISI316L.				
	B4 100/2	85/95/100	16	3606480531316	**CSU794989**
P133931	**Bracket B4 100/4 / B4 Mini 100**				
	Bracket to be used for the mounting of mesh trays. Intended for extended vertical installation in hygienic areas where a distance is needed for cleaning purposes. Distance to the supporting surface 100 mm. Material: Stainless steel AISI316L.				
	B4 100/4, for mesh trays 220-320 mm	85/95/100	26	3606480531323	**CSU794990**
P133932	B4 Mini 100, for mesh trays 53-120 mm	53/55/100	16	3606480531330	**CSU794991**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Brackets

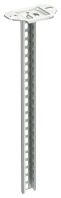
P140016

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Cantilever arm 50				
Cantilever arm for mounting on walls, pendant/fixing rails or vertical pieces. Material: Stainless steel AISI316L.				
50-100	85/150/40	24	7321677256181	**725618**
50-150	85/200/40	28	7321677256198	**725619**
50-200	85/250/40	34	7321677256204	**725620**
50-250	105/300/40	52	7321677256211	**725621**
50-300	105/350/40	60	7321677256228	**725622**
50-400	120/450/50	228	7321677256235	**725623**
50-500	140/550/50	172	7321677256242	**725624**
50-600	150/650/50	215	7321677256259	**725625**
T-bolt 26F				
T-bolt to be used for the mounting of cantilever arm 50 on Pendant/fixingrail 24/48 and vertical piece 2F/2FB. Material: Stainless steel AISI316.				
26F M8	M8x30	4.5	7321677349869	**734986**

P140072

Vertical pieces

P139937



Vertical piece 2				
Vertical piece to be used for installation of support bracket 3, symmetrical loading. Not suitable for cable ladders KHZV and KHZPV. Can be joined to Pendant/fixing rail 24/34 with Pendant joint 2J. Material: Stainless steel AISI316L.				
2-300	279/80/135	52	7321677255573	**725557**
2-400	392/80/135	62	7321677255580	**725558**
2-500	504/80/135	72	7321677255597	**725559**
2-700	729/80/135	93	7321677255603	**725560**
2-1000	1022/80/135	120	7321677255610	**725561**

P139938

Vertical piece 2F				
Vertical piece to be used for installation of central suspension bracket D35 and Cantilever arm 50. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Stainless steel AISI316L.				
2F-280	280/80/135	80	7321677255627	**725562**
2F-505	505/80/135	130	7321677255641	**725564**
2F-1000	1000/80/135	220	7321677255665	**725566**

P122499

Vertical piece 2FB				
Reinforced vertical piece to be used for installation of central suspension bracket D35 and Cantilever arm 50. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Material: Stainless steel AISI316L.				
2FB-280	280/155/150	113	3606480911514	**CSU795338**
2FB-505	505/155/150	163	3606480911521	**CSU795339**
2FB-1000	1000/155/150	253	3606480911538	**CSU795340**

Ceiling and joining fittings, support

P139961

Ceiling bracket 5				
Ceiling bracket to be used for installations with Pendant/Fixing rail 24/48. Screw set 22S included. Material: Stainless steel AISI316L.				
5	100/135/40	35	7321677255733	**725573**

P139946

Pendant/Fixing rail 24/48				
Pendant/Fixing rail for mounting of support brackets, cantilever arms, etc. Material: Stainless steel AISI316L.				
24/48	1000/26/48	175	3606481317872	**CSU795566**
24/48	2970/26/48	520	7321677285952	**728595**

P139960

Pendant joint 2FJ				
Pendant joint to be used for joining pendant/fixing rails and vertical pieces. Screws M8x16 and nuts included. Material: Stainless steel AISI316L.				
2FJ	200/55/18	46	7321677264858	**726485**

P140023

Pendant bar 1				
Pendant bar to be installed in order to reduce the deflection of heavily loaded vertical pieces. Installed with T-bolt and Expansion bolt. Material: Stainless steel AISI316L.				
1-500	515/166/40	53	3606480911415	**CSU795328**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Screw set

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140151	**Screw set 22S**				
	Screw set to be used for installation of central suspension bracket D35 on Vertical piece 2F/2FB, central suspension bracket D35 and Ceiling bracket 5 on Pendant/fixing rails 24/48, and Pendant/fixing rails back to back. Set including screw MVBF 8x16 and nut M6MF8. Material: Stainless steel AISI316L.				
	22S	—	1.9	7321677255825	**725582**

Ceiling fittings

P140974	**Ceiling fitting, universal B46**				
	Universal ceiling fitting intended for mounting of Threaded rod B41 onto ceiling. Material: Stainless steel AISI316L.				
	B46	75/30/60	9	7332227015745	**1149574**
P140975	**Ceiling fitting, flexible B47**				
	Flexible ceiling fitting that adjusts to the inclination of the ceiling. Delivered complete with Tensi-lock flange nut. Material: Stainless steel AISI316L.				
	B47/M8	65/65/65	13	7332227015752	**1149575**
	B47/M10	65/65/65	13	7332227015769	**1149576**
P140976	**Ceiling clamp B48**				
	Ceiling clamp for hole Ø 22 mm. Delivered complete with Tensi-lock nut and washers. Material: Stainless steel AISI316L.				
	B48/M8	20/20/75	6	7332227015721	**1149572**
	B48/M10	20/20/75	7	7332227015738	**1149573**

Support hooks

P140977	**Support hook D35/120-220**				
	Support hook intended for 120-220 mm mesh trays. Material: Stainless steel AISI316L.				
	D35/120-220	160/49/94	19	3606480911637	**CSU795350**
P140978	**Support hook D35/320-422**				
	Reinforced support hook intended for 320-422 mm mesh trays. Material: Stainless steel AISI316L.				
	D35/320-422	161/49/290	31	7332227013208	**1149320**
P122501	**Support hook D35/422-622**				
	Reinforced support hook intended for 422-622 mm mesh trays. Material: Stainless steel AISI316L.				
	D35/522-622	176/48/490	91	3606480911651	**CSU795352**
P140980	**Support hook B39**				
	Support hook for mounting onto a Threaded rod. For tray widths 120-220 and 320-422 respectively. Material: Stainless steel AISI316L.				
	B39/120-220	25/49/95	8	7332227013178	**1149317**
P140981	B39/320-422	25/49/290	30	7332227013185	**1149318**

Threaded rods

	Threaded rod B41				
	Threaded rod according to metric standard 6G. Material: Stainless steel AISI316L.				
P140075	B41/M8	8/8/1000 8/8/2000	32 63	7332227015516 7332227015523	**1149551** **1149552**
P140076	B41/M10	10/10/1000 10/10/2000	50 99	7332227015615 7332227015622	**1149561** **1149562**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Nuts

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
P140154	**Flange nut B43**				
	Flange nut to be mounted onto Threaded rod B41 in order to lock it to the Support hook and the Ceiling fittings. Material: Stainless steel AISI316L.				
	B43/M8, 50 pcs	8/17/17	34	7332227015547	**1149554**
	B43/M10, 50 pcs	15/20/20	56	7332227015646	**1149564**
P140155	**Distance nut B42**				
	Distance nut to be used when joining Threaded rods. Material: Stainless steel AISI316L.				
	B42/M8	30/15/15	1	7332227015554	**1149555**
	B42/M10	40/20/20	2	7332227015653	**1149565**

Accessory holders

P140982	**Accessory holder B5 Mini**				
	Accessory holder with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Stainless steel AISI316L.				
	B5 Mini	140/24/170	20	7332227013376	**1149337**
	Accessory holder B5				
	Accessory holder without holes or with a universal hole pattern for the mounting of a variety of boxes and outlets. The holder is easy to mount in different directions and angles on a mesh tray. The holder is tightened to the mesh tray by closing the grip around the wires. Material: Stainless steel AISI316L.				
P132530	B5 with holes	120/28/240	43	7332227013581	**1149358**
B224799	B5 without holes	120/28/240	46	7332227013680	**1149368**

Accessories

P150425	**Plate cover B7**				
	Mesh tray plate cover, for tray widths acc. to the type designation. Cover length 1250 mm. Material: Stainless steel AISI316L.				
	B7/75	16/80/1250	72	3606485412320	**CSU795269**
	B7/120	16/125/1250	130	3606485412337	**CSU795270**
	B7/220	16/226/1250	170	3606485412344	**CSU795271**
	B7/320	16/326/1250	240	3606485412351	**CSU795272**
	B7/422	16/426/1250	327	3606485412368	**CSU795273**
P140995	**Separating plate B26**				
	L-shaped separating plate, fixed to the mesh tray by bending the flaps around the transversal wires. Material: Stainless steel AISI316L.				
	B26	40/30/2500	113	7332227013789	**1149378**
P140997	**Tele-channel B6**				
	Tele-channel to be fixed to the mesh tray by bending the flaps around the transversal wires. Material: Stainless steel AISI316L.				
	B6	40/50/2500	201	7332227013475	**1149347**
P140021 P140022	**Combi-fittings B21**				
	Combi-fitting to be mounted onto cable ladders. Material: Stainless steel AISI316L.				
	B21	250/50/20	45	7332227013598	**1149359**
	B21 90 degrees	120/50/135	45	7332227013918	**1149391**
P140998	**Support B33**				
	Support to be used for mounting of all mesh trays on the floor, for example under a raised floor. The height of B33 Support is adjustable from 215 to 370 mm. The upper or lower part can be adjusted in a 90° angle. Material: Stainless steel AISI316L.				
	B33	215/100/220	157	7332227013352	**1149335**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Accessories

P140999

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Conveyor bracket B17				
Universal fitting to be used when mounting wire trays along conveyor systems. Material: Stainless steel AISI316L.				
B17	35/450/35	55	7332227013925	**1149392**

P141000

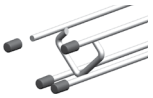
Earth connection clamp B18				
Earth connection clamp to be used to mount earth cable onto a chosen wire of the mesh tray. Material: Brass, electrolytically nickel coated.				
B18	15/30/15	2	321677887163	**1149180**

P140069

End plugs 28E				
End plug to be mounted on Pendant 2F/2FB and on Pendant/fixing rail 24/48 respectively, see below. Intended to provide protection against personal injuries and to make the the ends of the profiles more conspicuous. Material: PP/TPE, orange.				
28E for Vertical piece 2F/2FB and Pendant/fixing rail 24/48	24/30/52	0.5	7321677090211	**709021**

P141001

Safety cap B32				
Safety cap of halogen-free and flame-proof plastic material. To be mounted onto wires sticking out. Bag with 100 pcs. Material: PE.				
B32/3	5/8/5	5	7332227013895	**1149389**
B32/4	8/10/8	5	7332227013888	**1149388**
B32/5	8/10/8	4	7332227013666	**1149366**
B32/6	8/10/9	3	7332227013673	**1149367**



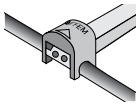
P141002

Mounting spacer B22				
Plastic spacer that fits all mini mesh-tray dimensions. Mounted by snapping the spacer onto the bottom wires. For 3 mm wire diameter. Bag with 10 pcs. Material: PE.				
B22	6/18/18	1.4	7332227015233	**1149523**

B224734_1

Radius limiter B34				
Radius limiter that limits the bend radius for sensitive cables. The radius limiter is mounted from below by using the locking stick. Material: Stainless steel AISI316L.				
B34/75	40/80/75	9	7332227015370	**1149537**
B34/120	40/80/115	11	7332227015318	**1149531**
B34/220	40/80/215	22	7332227015325	**1149532**
B34/320	40/80/315	33	7332227015332	**1149533**
B34/422	40/80/415	45	7332227015349	**1149534**
B34/522	40/80/515	58	7332227015356	**1149535**
B34/622	40/80/615	68	7332227015363	**1149536**

AS-I clip B14				
Plastic clip, oil and UV-resistant, intended for the fixing of AS-I cable. For mesh tray wire diameter 4 and 5 mm respectively. The grey clip is also used for mounting onto Fixing plate B15. Package of 100 pcs. Material: POM.				



P141008

B14, blue For 4 mm wire	10/15/14	10	7332227015202	**1149520**

P141009

B14, grey For 5 mm wire	10/15/14	10	7332227015219	**1149521**

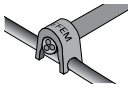
P141010

Fixing plate B15				
Plastic plate, oil and UV-resistant, intended for mounting of cable or hose onto machines for example. The cable is mounted onto the fixing plate with Cable clips B14 or B16. Package of 100 pcs. Material: POM.				
B15, grey	5/15/15	7	7332227015226	**1149522**

Steel mesh trays

Stainless steel AISI 316L
Corrosion class C5-I/C5-M

Accessories

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
	Cable clip B16				
	Plastic clip, oil and UV-resistant, intended for mounting of cable or hose, Ø 6, 8 or 10 mm respectively, onto a 5 mm mesh tray wire. Can also be used to mount cable or hose onto Fixing plate B15. Package of 100 pcs. Material: POM.				 B225156
P141011	B16, grey, Ø 6 mm	10/16/15	11	7332227015257	**1149525**
P141012	B16, black, Ø 8 mm	10/16/15	10	7332227015264	**1149526**
P141013	B16, white, Ø 10 mm	10/16/15	9	7332227015271	**1149527**
	Velcro B51				
P149448	Velcro tape intended to attach bundles of cables onto a mesh tray. Length 22.8 m, colour black.				
	B51/10	10/22.8	16	7332227186506	**1518650**
	B51/20	20/22.8	32	7332227186513	**1518651**
	Marking clip B44				
	Plastic marking clip, flame-resistant, to be snapped onto the two side wires of the mesh tray. The Equipotential Bonding clip is available in Swedish, English and German. Package of 10 pcs. Material: ABS.				
P133791	B44	40/10/90	1	7332227014274	**1149427**
P141014	B44/Potentialutjämning, SE	40/10/90	1	7321677888566	**1149428**
P133792	B44/Equipotential Bonding, GB	40/10/90	1	7321677888573	**1149429**
P141015	B44/Potentialausgleich, DE	40/10/90	1	7321677888580	**1149430**
	Identification tag B40				
	Identification tag to be snapped onto mesh tray wires of Ø 5 mm.Package of 10 pcs. Material: ABS.				
P141016	B40/Opto	35/8/43	1	7332227014205	**1149420**
P141017	B40/Coax	35/8/43	1	7332227014212	**1149421**
P141018	B40/Pair	35/43/8	1	7332227014229	**1149422**
P141019	B40/Neutral	35/8/43	1	7332227014236	**1149423**
P141020	B40/Pow	35/8/43	1	7332227014243	**1149424**

Tools

	Cable roller B25				
	Cable roller intended to facilitate the pulling of cables into the mesh trays. Mounted on the mesh tray by pulling the black knob outwards. When the cable pulled by the cable roller has reached the desired distance, it is moved to the tray by pushing the small metal button to open the cable roller and removing it. Material: Stainless steel AISI316L, plastic.				
B224692	B25	210/130/40	35	7332227019552	**1653955**
	Bolt cutter B28				
	Bolt cutter with angled clipper cut head for narrow and clean cuts of mesh tray wires.				
B224843	B28	140/40/630	272	7332227239981	**1623998**
	Spanner B45				
	10 mm combination spanner, open end/flex head end. Material: Chrome vanadium steel.				
B224769	B45	15/15/180	7	7332227222006	**1622200**

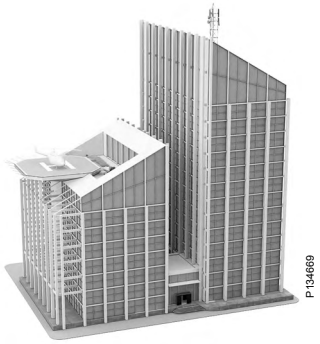
The right surface treatment – crucial for a successful outcome

A cable support installation is considered to be a long-lasting solution and the life expectancy is dependent on the environment in which it is placed. A thorough investigation of the setting in terms of corrosion, pollution, humidity, salt, sanitary regulations etc will help you make the best choice. Our range of mesh trays and accessories covers all types of surface treatments, enabling a reliable, cost-efficient and long-lasting cable support solution.

C1 Electro-galvanized

Indoor environments: Schools, shops, hotels, offices, sports halls etc.

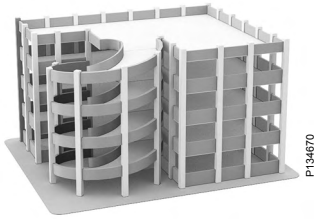
– Very low environmental corrosion.
– Heated areas.
– Arid atmosphere.
– Insignificant quantities of pollutant.
– DIN 50961/ISO 2081.



C2 Pre-galvanized

Partly outdoor environments: Industries, sports halls,
warehouses, shops, rural outdoor areas etc.

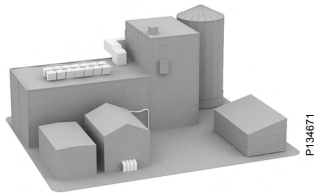
– Low environmental corrosion.
– Non-heated areas with fluctuating levels of temperature and humidity.
– Few instances of condensation and low levels of airborn pollution.
- SS-EN 10327:2004.



C3 Hot-dip galvanized

Indoor- and outdoor environments: Urban and light industrial areas, breweries, dairies, laundries etc.

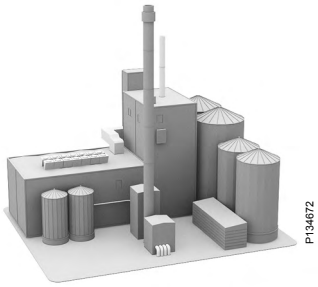
– Average environmental corrosion.
– Areas with average levels of humidity and some airborn pollution caused by production processes.
– Atmospheres containing some salt or average levels of airborne pollution.
– EN-ISO1461:2009



C4 Hot-dip galvanized

Indoor- and outdoor environments: Chemical plants, industrial and coastal areas, swimming pools, farms, dockyards etc.

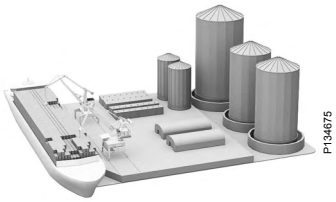
– High environmental corrosion.
– Areas with high levels of humidity and considerable air-born pollution.
– Atmospheres with average salt content or discernible levels of airborne pollution.
– EN-ISO1461:2009.



C5-I Stainless steel AISI 304L

Indoor- and outdoor environments: Chemical and heavy industries, tunnels, swimming pools, dockyards etc.

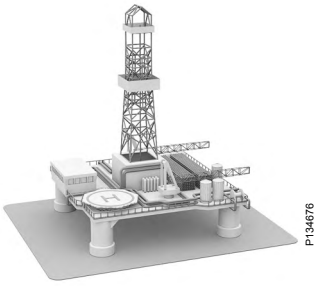
– Very high (industrial) environmental corrosion.
– Areas with almost permanent condensation, large quantities of airborn pollution, high levels of humidity and aggressive atmospheres.
– SS2333 RF/AISI 304L



C5-M Stainless steel, AISI 316L

Indoor- and outdoor environments: Heavy industries, coastal and offshore areas, purifying plants etc.

– Very high (marine) environmental corrosion.
– Areas with almost permanent condensation and large quantities of airborn pollution. Atmospheres with high salt content.
– SS2348 SF/AISI 316L



Corrosion classes

The life expectancy of a cable support system is dependent on the environment in which it is placed. Therefore, it is important to establish the corrosive properties of an environment to ensure that the right treatment and the right material are chosen. Do not use components finish above of the corrosion class targeted. The table below shows various corrosion classes. As a guide, we have included the surface treatment recommended by Schneider Electric for the different classes.

On the next page, we briefly outline the various surface treatments and materials.
As regards environmental corrosion, a steel design component can usually be assigned to one of the corrosion classes (C1 to C5-M) as shown in table A. Reference values for the average level of corrosion in steel and zinc are given in table B.
The corrosion classes comply with those stipulated in SS-EN ISO 12944-2.

Table A
Corrosion classes as stipulated by SS-EN ISO 12944-2 with atmospheric corrosion levels and examples of the environment in which they are most suitable for use.

Corrosion class	Environmental corrosion	Examples of typical environments in temperate climates (informative)		Schneider Electric designation
		Outdoors	Indoors	
C1	Very low	–	Heated areas with arid atmosphere and insignificant quantities of pollutant, e.g. offices, shops, schools and hotels.	**Electro-galvanized** DIN 50961/ISO 2081
C2	Low	Atmospheres with low levels of airborne pollution. Rural areas.	Non-heated areas with fluctuating levels of temperature and humidity. Few instances of condensation and low levels of airborne pollution, e.g. sports halls and warehouses.	**Pre-galvanized** Z 275 in accordance with SS-EN 10327:2004
C3	Average	Atmospheres containing some salt or average levels of airborne pollution. Urban and light industrial areas. Areas affected by coastal conditions.	Areas with average levels of humidity and some airborne pollution resulting from production processes, e.g. breweries, dairies, laundries.	**Hot-dip galvanized** after manufacture in accordance with EN-ISO 1461:2009
C4	High	Atmospheres with average salt content or discernible levels of airborne pollution. Industrial and coastal areas.	Areas of high humidity and considerable airborne pollution as the result of production processes, e.g. chemical plants, swimming pools and dockyards.	
C5-I	Very high (industrial)	Industrial areas with high levels of humidity and aggressive atmospheres.	Areas with almost permanent condensation and large quantities of airborne pollution.	**Zinkpox®** HDG+powder coating* **Stainless steel** SS2333 AISI 304L
C5-M	Very high (marine)	Coastal and offshore areas with high salt content.	Areas with almost permanent condensation and large quantities of airborne pollution.	**Stainless steel** SS2348 AISI 316L

* Only for Cable Ladders and Cable Trays
** Only for Cable Ladders

Table B
Mass losses for steel and zinc in various corrosion classes

Corrosion class	Mass loss per surface unit and thickness reduction (1 year of exposure)[1]			
	Steel		Zinc	
	Mass loss (g/m²)	Thickness reduction (µm)	Mass loss (g/m²)	Thickness reduction (µm)
C1	≤ 10	≤ 1.3	≤ 0.7	≤ 0.1
C2	> 10 to 200	> 1.3 to 25	> 0.7 to 5	> 0.1 to 0.7
C3	> 200 to 400	> 25 to 50	> 5 to 15	> 0.7 to 2.1
C4	> 400 to 650	> 50 to 80	> 15 to 30	> 2.1 to 4.2
C5-I	> 650 to 1500	> 80 to 200	> 30 to 60	> 4.2 to 8.4
C5-M	> 650 to 1500	> 80 to 200	> 30 to 60	> 4.2 to 8.4

[1] Corrosion speed is generally higher when the material is first exposed

Surface treatments

Defem Mesh Trays - Technical and material data

Steel wire

Specification:	C9D acc. to EN 10016-2 AISI 316L acc. to EN 10088-3
Density:	7.7-7.85 kg/m³
Surface treatment:	• Electro-galvanized (>8 µm): EN ISO2081 • Hot-dip galvanised (>70 µm): EN ISO 1461 • Passivated (AISI 316L)

Steel sheet

Specification:	S235 acc. to EN 10025-2 AISI 316L acc. to EN ISO10088-2
Density:	7.7-7.85 kg/m³
Surface treatment:	• Electro-galvanized (>8 µm): EN ISO 2081 • Hot-dip galvanised (55-70µm): EN ISO 1461 • Passivated (Stainless steel)

Resistance to impact	20 J (IEC 61537)
Temperature range	From –20°C to +90°C

Electro-galvanized
Products are manufactured in accordance with DIN 50961/ISO 2081. Such products are intended for use only in warm, dry areas with negligible pollutant levels.

Pre-galvanized
Products are manufactured from Z 275 pre-galvanized sheet steel in accordance with SS-EN 10327:2004. Under normal conditions, surface sections created during cutting and drilling will repair themselves, providing superb anti-corrosion protection.

Hot-dip galvanized
Schneider-electric has one of the most modern hot-dip galvanization plants in the Nordic countries. The hot-dip process is continuous, guaranteeing a high and even quality. The manufactured products are hot-dip galvanized in accordance with EN-ISO 1461:2009 whilst nuts and bolts are hot-dip galvanized in accordance with SS-EN ISO 10684:2004. This form of galvanization affords very good value-for-money anti-corrosion protection in atmospheres with a pH value of between 6 and 13. However, in acidic environments where pH levels fall below 6 and in alkaline environments where the pH value exceeds 13, the protective zinc layer breaks down relatively quickly. When cuts/perforations or other kind of operation that damage or remove coating in HDG items suitable to be installed in aggressive corrosion class, must be repaired with a zinc rich paint.

Stainless steel
Products manufactured in accordance with SS 2333/AISI 304 or SS 2348/AISI 316L are designed for use in highly aggressive environments, either indoors or outdoors, on industrial sites where there are high levels of potent airborne pollution such as in certain chemical industries, cellulose-related industries, refineries or artificial fertilizer factories, high humidity tunnels, etc. Stainless steel products are also ideal for use in environments where special hygiene requirements are in force, such as dairies, abattoirs, other food industries and pharmaceutical factories.

Stainless steel AISI 304L or AISI 316L
The deciding factor in choosing between stainless steel AISI 304L or AISI 316L is the aggressiveness of the environment in which it is to be used, and for this atmospheric chlorine content plays a significant role. Environments with a high chlorine content - coastal areas being a prime example - are aggressive and usually require the use of AISI 316L materials. When assessing the needs of factories, consideration should be given to the materials previously used to suspend equipment such as pipe tubing, and from this determine whether stainless steel AISI 304L or AISI 316L material is required.

Factors to consider when installing Stainless Steel Mesh trays

1. Transport/handling
Make sure that no iron objects come into contact with the stainless steel products.

2. Storing
Never store stainless steel products close to where iron products are machined, for example close to cutting and grinding operations.

3. Welding
Welding during installation should be avoided where possible. If welding must be performed, make sure that only methods suitable for stainless steel are used.

4. Tools
When cutting or grinding, always use cutting wheels and grinding tools which are free from iron. Do not use tools that have been previously used for cutting or grinding products containing iron. When drilling, use an HSS-drill. To maximize the useful life of the drill, employ a cooling fluid during drilling. When installing, conventional assembly tools can be used. However, when using a nut tightener, ensure that the thread is first lubricated to prevent jamming.
Never mix untreated or galvanized products with stainless steel.

5. Measures
If a blue annealing appears when cutting, grinding or drilling, remove it with pickling paste, making sure that the paste is then carefully washed away with water. If selective corrosion appears it can be removed by:

a) Washing away with water (high-pressure if possible).

b) Polishing with a cleaning cloth or a fine emery paper (wet or dry) and washing with water.

c) Grinding with a fine-grained wheel and washing with water.

d) Pickling with pickling paste, making sure that the pickling paste is then carefully washed away with water.

6. When using pickling paste or similar products, always study the safety code for the product prior to use.

Potential balancing

Electrical continuity and earthing
The standard EN 61537 establishes that for trays with electrical continuity characteristics (metal), this continuity should be guaranteed by means of an equipotential connection and one or several connections to earth in accordance with the use of the tray system.

The impedance must not exceed:
- 50 mΩ through the joint.
- 5 mΩ x metre of tray.(*)

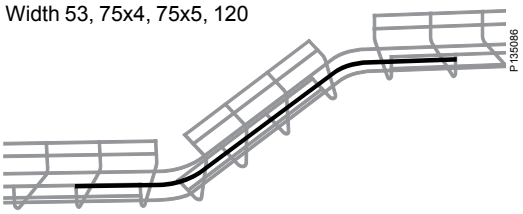
(*) Currently this valour is studied through document IEC/SC23A/WG12, CLC/TC213/WG-5 – 765. It will be changed to 50 mΩ x metre.

The metre length and joining systems for the different sections that Schneider Electric has, as well as the joints of the different accessories supplied, comply with the electrical continuity test established in the aforementioned standard, guaranteeing the impedance established. To guarantee these impedance values tightening torque values of no less than 5 Nm are recommended, always using the joins recommended for each tray type, and taking sizes into account.

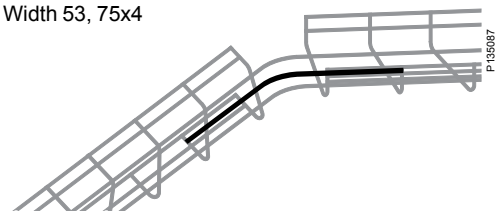
To guarantee a safe installation, Schneider Electric recommends a proper earthing of all the elements that make up the system (sections and accessories), using the accessories designed specifically for this purpose. Ensure that all connections are well fixed and proper values are matching according to local legislation

Electro-galvanized and Hot-dip galvanized
The applications below are approved only in combination with copper cable.

Width 53, 75x4, 75x5, 120



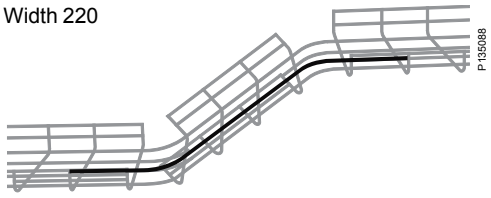
Width 53, 75x4



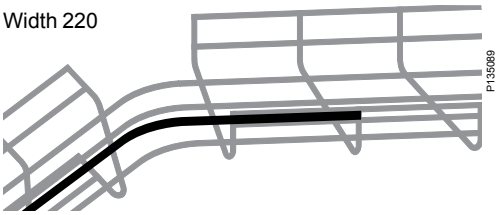
Stainless AISI 316L
Mesh Trays in the dimensions 53, 75x4, 75x5 and 120 shall always be equipped with copper cable.

The applications below are approved only in combination with copper cable.

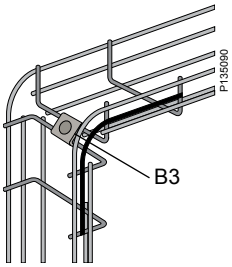
Width 220



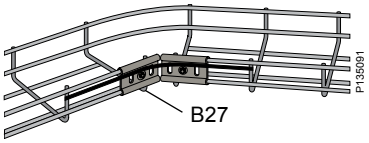
Width 220

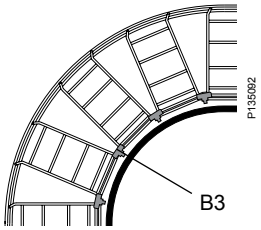


Width 220, 320



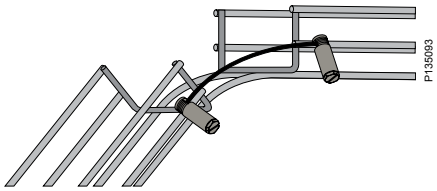
Width 220, 320, 422, 522, 622





Potential balancing

To meet the demands for conductivity in these cases, a copper cable dimensioned according to local regulations has to be installed as shown in the adjoining drawing. End terminals at the cable are recommended in environments where there is a risk of corrosion.



Article/Material	Art. no.
Marking clip B44, Equipotential bonding Flame resistant plastics	11 494 29

Article/Material	Art. no.	Max cable area mm²
Earth Connection Clamp B18 Brass/ Nickel anodized	11 491 80	25

Measured values on real installations

Resistance/Conductivity in mΩ/5 m (including Joining fitting).

Mesh tray	Electro-galvanized mΩ/5 m	Hot-dip galvanized mΩ/5 m	Stainless Steel mΩ/5 m
622/110	1.28	1.89	9.41
622/60	1.50	2.23	10.81
522/110	1.50	2.23	10.81
522/60	2.27	2.51	12.01
422/110	2.27	2.51	12.01
422/60	2.90	3.35	16.67
320/110	2.90	3.35	16.67
320/60	4.20	4.46	22.17
220/110	4.20	4.46	22.17
220/60	5.60	5.52	26.20
120/110	5.60	5.52	26.20
120/60	7.10	6.58	34.79
75x5/55	6.70	9.98	50.98
75x4/55	6.85	10.12	51.10
53/45	7.13	11.05	51.88

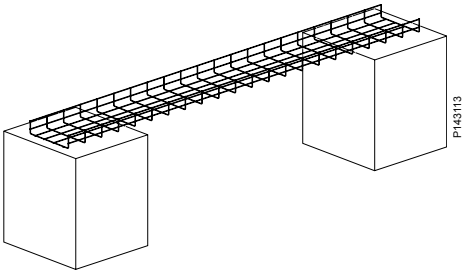
Electro-magnetic compatibility EMC

Electromagnetic Compatibility

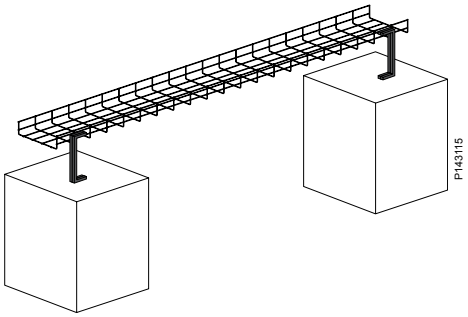
Schneider Electric has performed measurements at EMC Services in Gothenburg regarding EMC requirements, report RE-10273-17181.
The results show that the shielding performance of both incoming and emitted fields is good concerning Defem mesh trays.

When correctly installed Defem mesh tray products work as a protective earth structure.
This means that Schneider Electric products can be used to achieve good engineering practice in accordance with the EMC directive 2014/30/EU.

Recommended installation examples

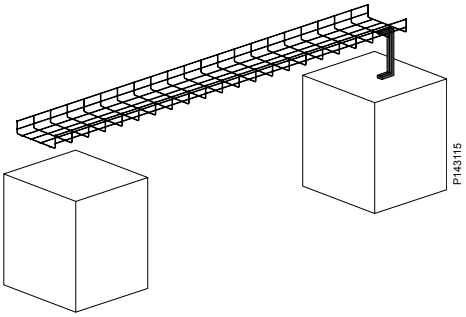


Metal against metal connection
- the ultimate installation

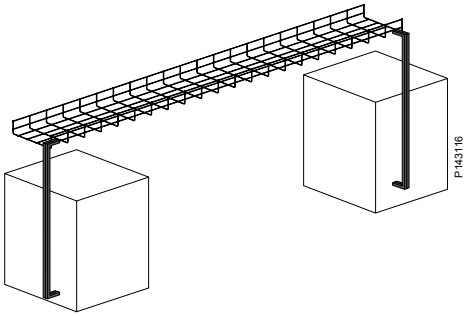


Short double connection
- realistic installation

Not recommended installation examples



Single connection
- poor installation



Long double connection
- in best case EMC neutral

Quality

The Defem mesh trays meet the toughest product standards:
IEC 61537
DIN 4102-12 for fire resistance E90
NEMA VE1

List of reports on test carried out by the Swedish Testing and Research Institute (SP)

Electrical Continuity
SP F205777

Vibration
SP 94 F 20903

Other tests	Test made by
Measurements of resistance value from different combinations of Defem Mesh tray and Defem U-bar. Report no. LNKM 036 99.	Telia, Sweden
Tests with Category 5 and 6 cables, in room temperature and in a climatic room with different loads, up to 43 layers, about 250 mm. Report no. Danak-19J0698/Delta K311126.	Delta Institute, Denmark
EMC characteristics. Report nº TR-10024-16723	EMC Services Elmiljöteknik AB, Sweden
EMC Performance- Shielding test Report nº RE-10273-17181	EMC Services Elmiljöteknik AB, Sweden
Tests with fibre patch cord with 2 mm thickness. In room temperature with different loads corresponding to layers of patch cord up to 300 mm. Report nº MHN06514B	Schenker/Telia Sonera, Sweden
Test Concerning fire resistance DIN 4102-12, E30-E60-E90, ABP P-MPA-E-13-003.	MPA NRW, Germany
Test Concerning fire resistance according to EN 1363-1. Report nº Zp-05-01.02.003	Pavus, Czech Rep.
Defem Mesh tray as conductor of equipotential bonding according to IEC 61537,11:1.	SP, Sweden
Defem Mesh tray is approved for use in USA and Canada according to Underwriters Laboratories - ULE-212854.	UL, USA
Defem Mesh tray is approved by Det Norske Veritas (DNV) for offshore and ship-yard use, TAE00000MR.	DNV, Norway

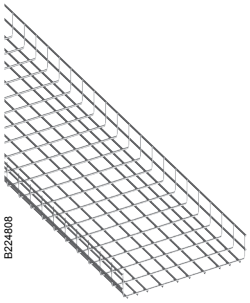
Management system - Quality and Environment
Schneider Electric has a third-party certified management system for quality and environment in accordance with OHSAS 18001:2007, ISO 9001:2008 and ISO 14001:2004.

CE-marking of products
The CE-marking of products is placed on the product or on the packing according to “Declaration of Conformity” (DOC), applicable to Schneider Electric Cable Support System.

EMC directive 2014/30/EU
The Cable Support System is neutral according to the EMC directive 2014/30/EU.

Low voltage directive 2014/35/EU
Schneider Electric fulfills the demands according to the harmonized standard SS-EN 61537 Edition 2:2006.

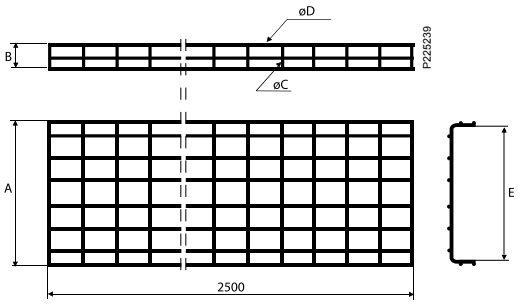
Technical information
Loading capacity



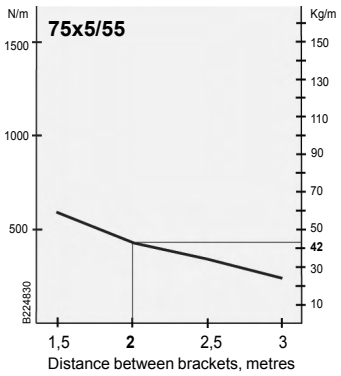
Safe working-load

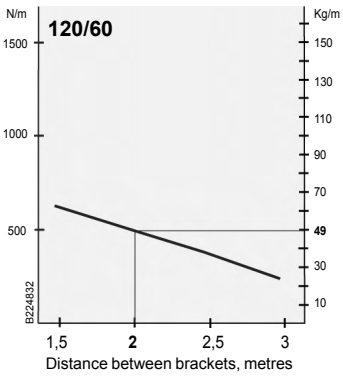
The safe working-load is calculated according to the standard IEC 61537. See diagrams below.

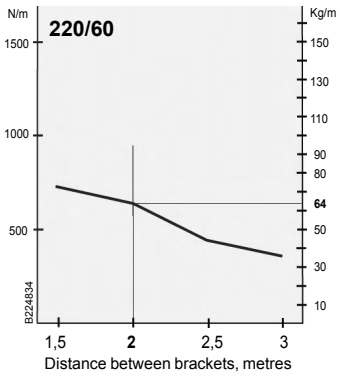
- The load is uniformly distributed along the mesh trays
- Free location of joints between supports
- The safety working-load value is given when: – the longitudinal deflection is ≤1% of the span between brackets – the transversal deflection is ≤5% of the width of the mesh tray.

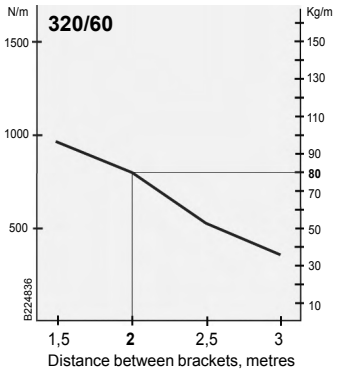


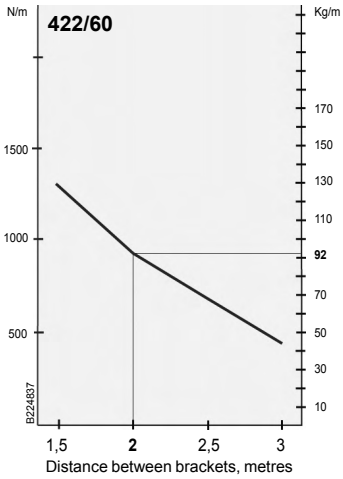
Type	A mm	B mm	C mm	D mm	E mm
Mesh tray 53/45	53	45	4	4	37
Mesh tray 75/55	75	55	4	4	59
Mesh tray 75/55	75	55	5	5	55
Mesh tray 120/60	120	60	5	5	100
Mesh tray 220/60	220	60	5	5	200
Mesh tray 320/60	320	60	5	5	300
Mesh tray 422/60	422	60	5	6	400
Mesh tray 522/60	522	60	5	6	500
Mesh tray 622/60	622	60	5	6	600

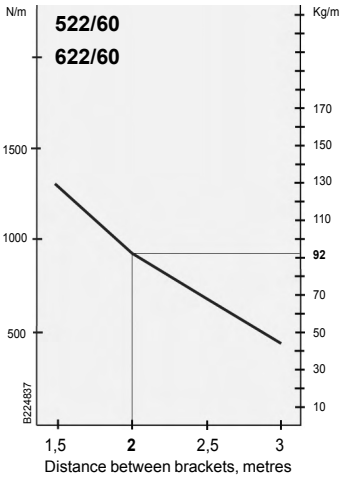




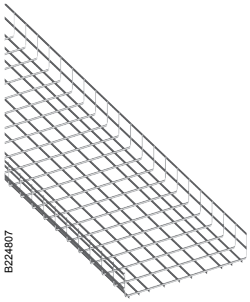








Technical information
Loading capacity



Safe working-load

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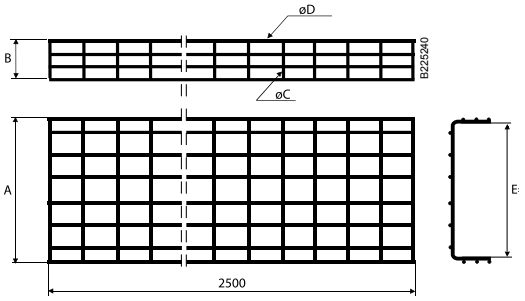
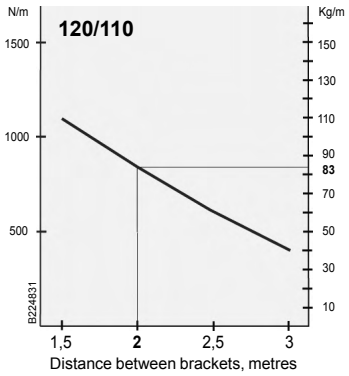
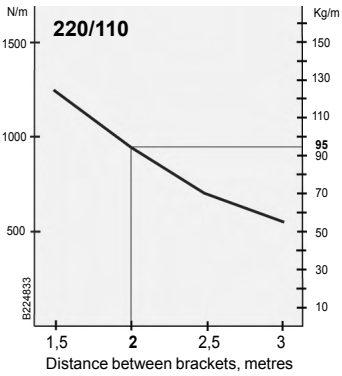
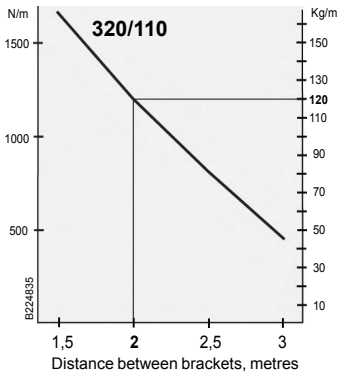
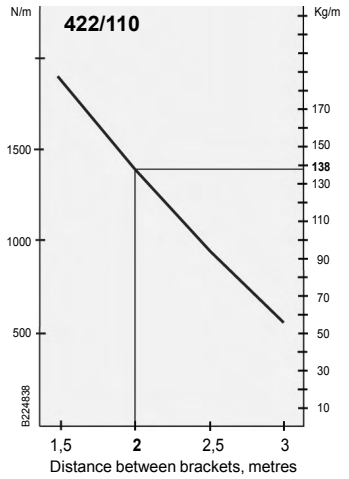


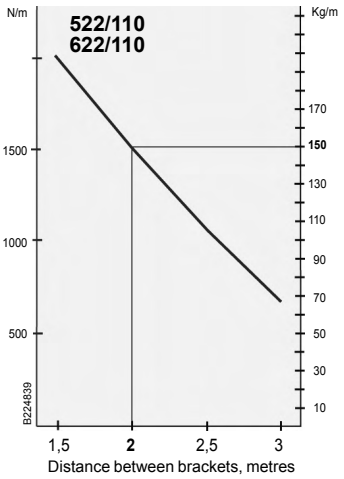
Type	A mm	B mm	C mm	D mm	E mm
Mesh tray 120/110	120	110	5	5	100
Mesh tray 220/110	220	110	5	5	200
Mesh tray 320/110	320	110	5	5	300
Mesh tray 422/110	422	110	5	6	400
Mesh tray 522/110	522	110	5	6	500
Mesh tray 622/110	622	110	5	6	600







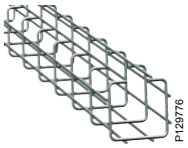


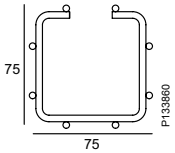


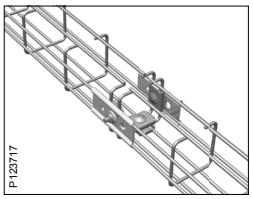
C-Mesh tray

For use where mounting with long support distances (up to 4 metres) are needed.

C-Mesh tray 75x75

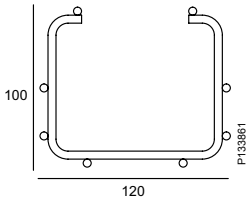


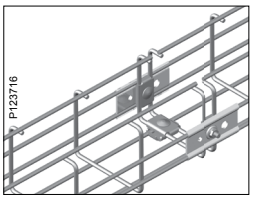




Joining of two C-Mesh trays 75x75.

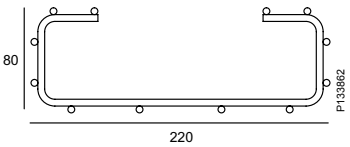
C-Mesh tray 120x100

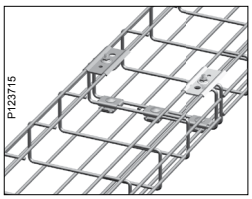




Joining of two C-Mesh trays 120x100.

C-Mesh tray 220x80



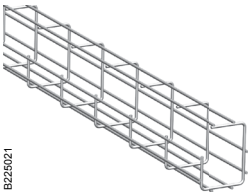


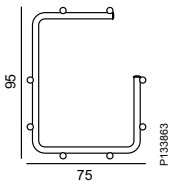
Joining of two C-Mesh trays 220x80.

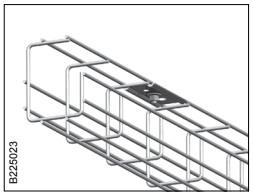
G-Mesh tray

For installation in ceilings, onto walls, under desks and mounting on cable ladders.

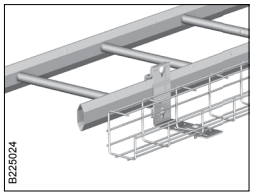
G-Mesh tray 75x95





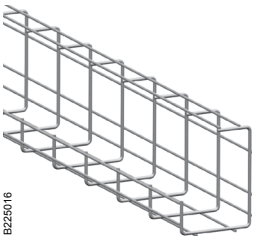


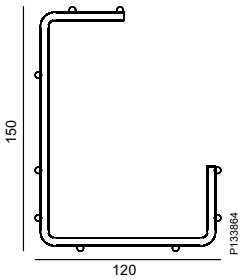
For mounting in ceilings, under desks etc. Fitting B1 is used.

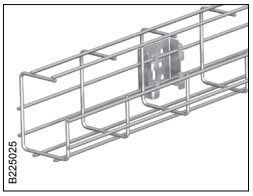


G-Mesh tray mounted on cable ladder, Combi fitting B21 90° is used.

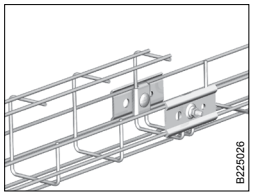
G-Mesh tray 120x150







Bracket B4 can also be used for mounting onto floor, wall or ceiling.

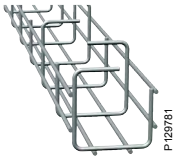


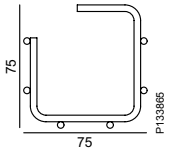
Fittings B1 and B2 are used for joining the mesh trays.
Example of jointing G-mesh tray with standard mesh tray

Z-Mesh tray

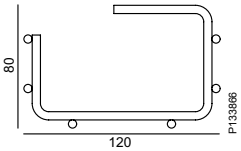
For environments where regular and thorough cleaning is required.

Z-Mesh tray 75x75

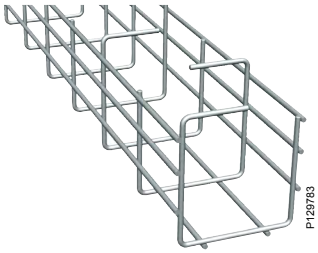


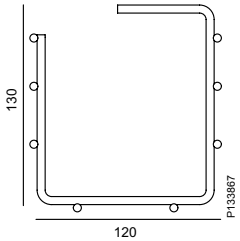


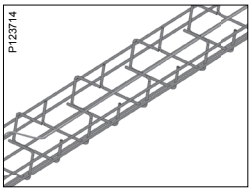
Z-Mesh tray 120x80



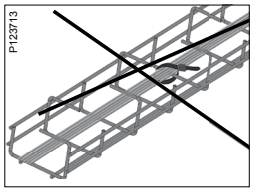
Z-Mesh tray 120x130



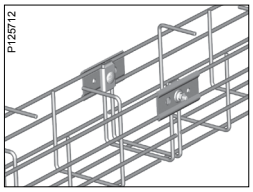




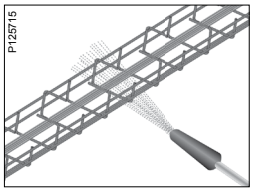
The cable is routed in a zigzag pattern inside the Z-Mesh tray.



No cable ties are needed, not even in vertically mounted trays.

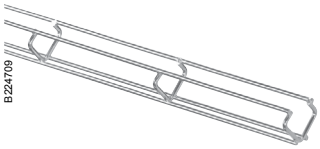


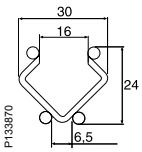
Fittings B1 and B2 are used for joining of Z-Mesh trays.

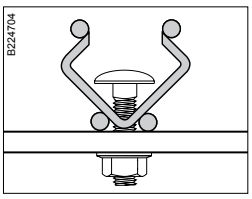


The non-bundled cables will stay in place during cleaning.

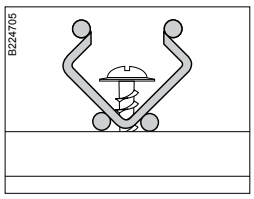
Mini Mesh B30-D



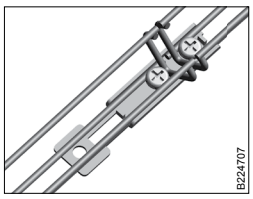




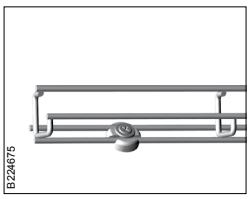
Can be mounted with Bolt and Nut B13.



Can be mounted with suitable screw for wood, concrete etc.

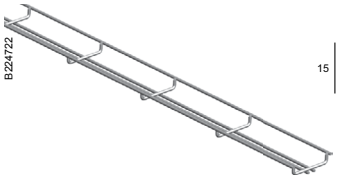


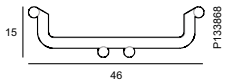
Two Mini Mesh B30-D joined with Mounting coupler B20.

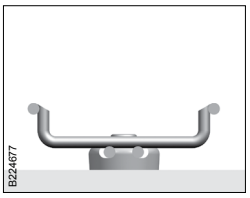


B30-D mounted onto Mounting spacer B22.

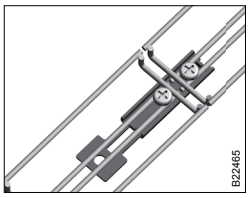
Mini Mesh B30-U





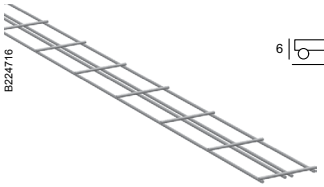


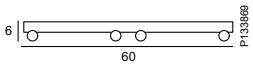
B30-U mounted onto Mounting spacer B22.

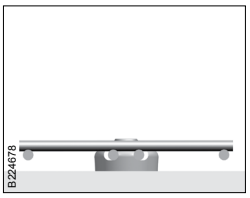


Two Mini Mesh B30-U joined with Mounting coupler B20.

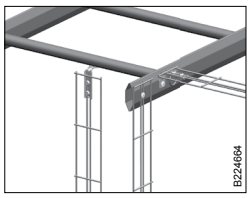
Mini Mesh B30-I







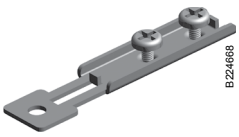
B30-I mounted onto Mounting spacer B22.

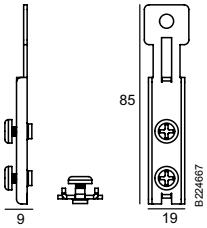


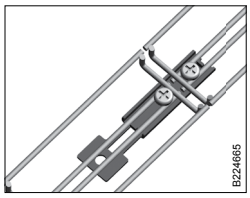
B30-I mounted onto cable ladder.

Mounting coupler B20

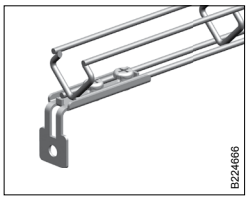
Used for joining and mounting of Mini Mesh Mesh trays.



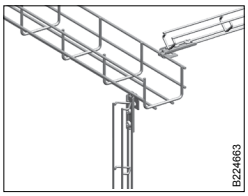


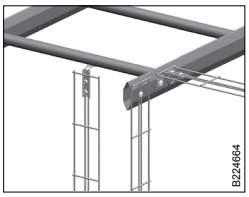


Used for joining of Mini Mesh Trays.



Can be used for mounting of Mini Mesh trays to ceiling, floor and onto wall.

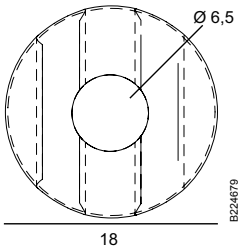


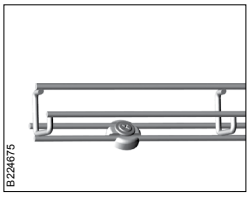


The mounting coupler can be used for vertical and horizontal mounting of Mini Mesh trays onto mesh trays and cable ladders.

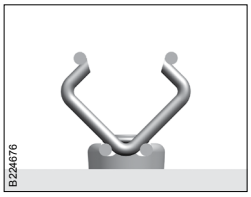
Mounting spacer B22

Plastic Spacer that fits all Mini Mesh dimensions.
Easy to mount, just snap the spacer onto the bottom wires.

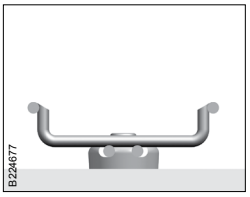




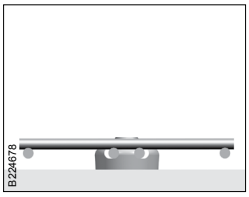
Front view of Mounting Spacer B22 attached to Mini Mesh.



Side view of Mounting Spacer. B22 attached to Mini Mesh-D.



Side view of Mounting Spacer. B22 attached to Mini Mesh-U.



Side view of Mounting Spacer. B22 attached to Mini Mesh-I.

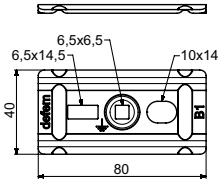
Recommended couplers

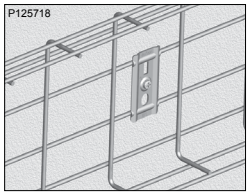
For joining Mesh trays

Mesh tray size	Side joining	Central joining
53 - 220	2xB1 + 2xB2 + 2xB13 or 2xB52	Not required
320	2xB1 + 2xB2 + 2xB13 or 2xB52	2xB2 + 1xB13
422	2xB1 + 2xB2 + 2xB13 or 2xB52	4xB2 + 2xB13
522 - 622	2xB1 + 2xB2 + 2xB13 or 2xB52	6xB2 + 3xB13

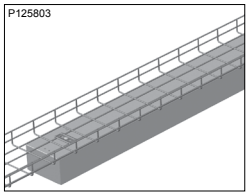
Fitting B1

Delivered without bolt and nut.

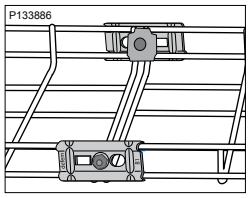




Fitting B1 can be used as a wall bracket.



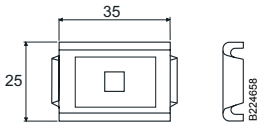
Fitting B1 can be mounted over the centre wires as carrier of lighting fittings.

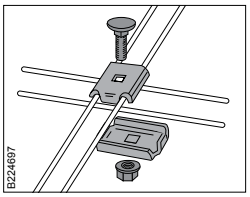


Mesh tray 53 to 220 is joined with:
2 pcs of Fitting B1
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13

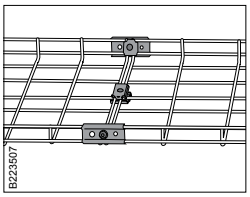
Fitting B2

Delivered without bolt and nut.

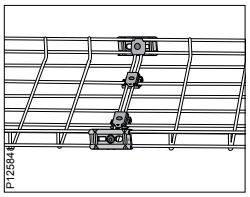




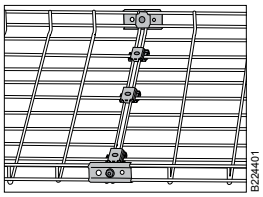
For joining in bottom of tray:
2 pcs of Fitting B2
1 pc of Bolt and Nut B13.



Mesh tray 320 is joined with
2 pcs of Fitting B1
4 pcs of Fitting B2
3 pcs of Bolt and Nut B13.

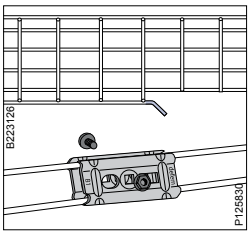


Mesh tray 422 is joined with
2 pcs of Fitting B1
6 pcs of Fitting B2
4 pcs of Bolt and Nut B13

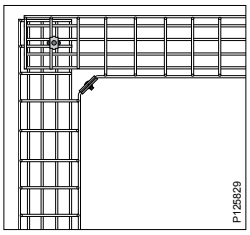


Mesh tray 522 and 622 is joined with
2 pcs of Fitting B1
8 pcs of Fitting B2
5 pcs of Bolt and Nut B13.

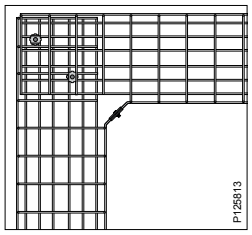
90° angling with Fitting B1 och B2



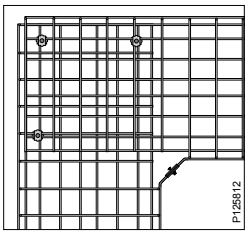
To obtain a softer inner angle, 2 Fittings B1 can be mounted with Bolt and Nut B13.



Mesh tray 53 to 220 are joined with:
2 pcs of Fitting B1
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13



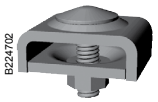
Mesh tray 320 and 422 are joined with:
2 pcs of Fitting B1
4 pcs of Fitting B2
3 pcs of Bolt and Nut B13

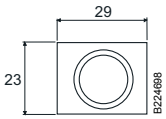


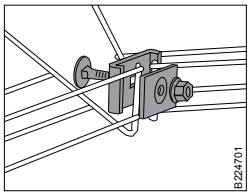
Mesh tray 522 and 622 are joined with:
2 pcs of Fitting B1
6 pcs of Fitting B2
4 pcs of Bolt and Nut B13

Fitting B3

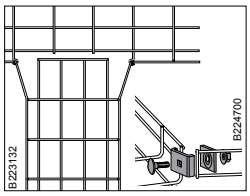
Delivered with bolt and nut.



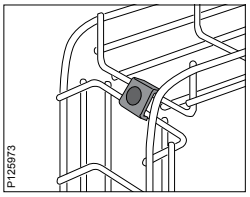




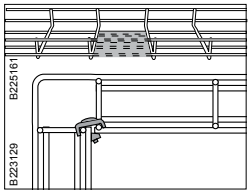
Horizontal bends are joined with Fitting B3.



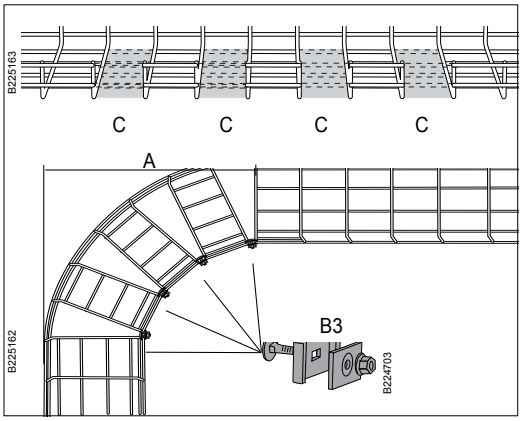
Four way and tees are joined with Fitting B3.



Vertical bends are joined with one or more Fitting B3, depending on mesh tray width.

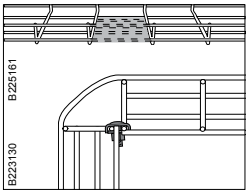


Mesh tray 53 is shaped to straight 90º angle by cutting out marked wires and joined with Fitting B3.



Mesh tray 120-622 is shaped to straight 90 º angle by cutting out every other marked mesh tray section and joined with Fitting B3 according to table below.

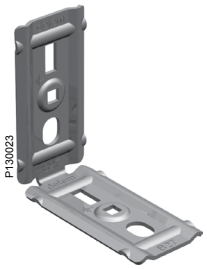
Mesh tray	A mm	C No. of cut-out sections	Fitting B3 No.
120	300	2	2
220	550	4	4
320	820	6	6
422	1080	8	8
522	1320	10	10
622	1590	12	12

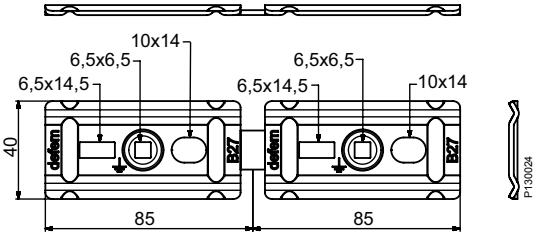


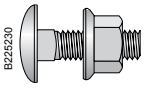
Mesh tray 53 is shaped to straight 90º angle by cutting out marked wires and joined with Fitting B3.

Angled fitting B27

For tees and mountings to wall, ceiling and floor etc.

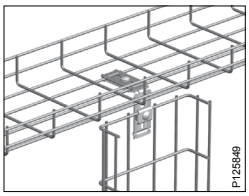




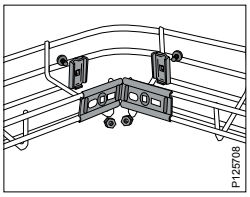


Bolt and nut B13

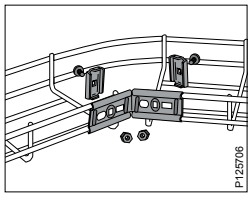
M6x25. Tensi-Lock and Flange Nut M6.



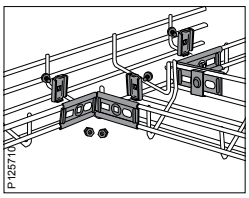
For vertical branching under mesh trays, all widths:
1 pce of Angled fitting B27
1 pce of Fitting B1
1 pce of Fitting B2
2 pcs of Bolt and Nut B13



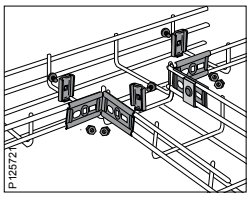
To join the bend:
1 pce of Angled fitting B27
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13.



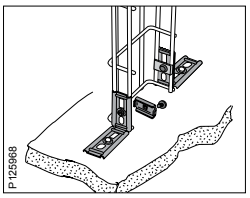
The bend can be adjusted by shaping the Angled fitting B27 to the required angle.



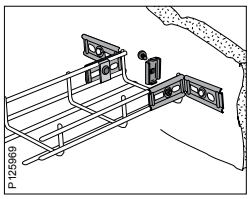
Tee with required angle is created with:
2 pcs of Angled fitting B27
4 pcs of Fitting B2
4 pcs of Bolt and Nut B13.



90° tee is created with:
2 pcs of Angled fitting B27
4 pcs of Fitting B2
4 pcs of Bolt and Nut B13.



Mounting to floor/ceiling is created with:
2 pcs of Angled fitting B27
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13.

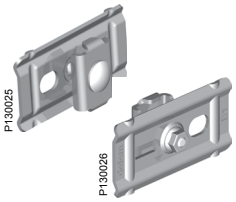


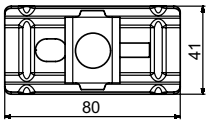
Mounting to wall is created with:
2 pcs of Angled fitting B27
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13.

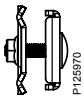
Joining set B52

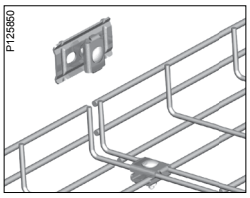
Pre-assembled joining fitting (Fittings B1, B2, Bolt and Nut B13).
Used for joining of the side sections.

Note! For joining of 320 mm trays and wider, extra Fittings B2 need to be mounted with Bolt and Nut B13 in the bottom of the trays.

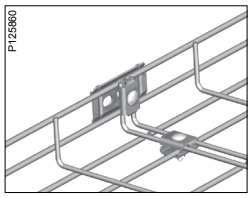








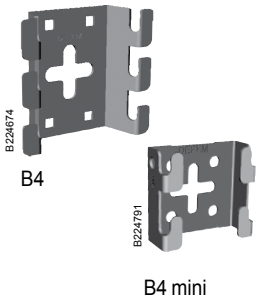
Mount Joining set B52 on the side section.

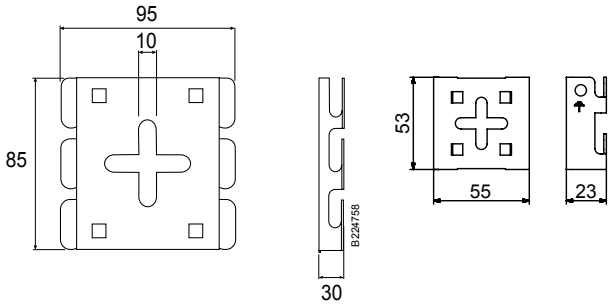


Tighten the bolt and the joining is finished.

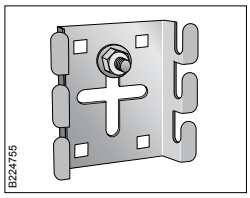
Bracket B4/B4 mini

For mounting of Mesh trays 53-622 onto wall and floor.

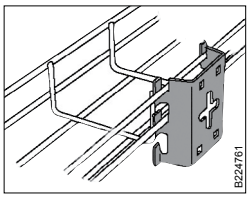




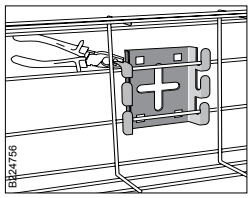
B4



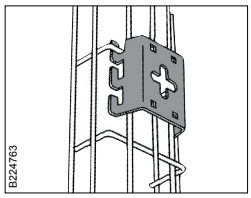
Mounted to wall/ceiling/ floor with Expansion bolt in middle hole or screws in corner holes.



The side wires of the tray are easily hooked onto the grips of the bracket.

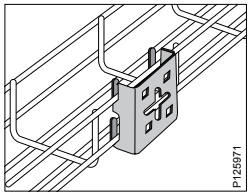


For increased stability, the B4 grips can be closed around the wires.

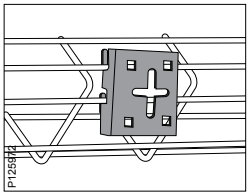


The mesh tray can also be mounted vertically.

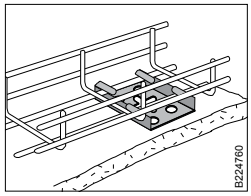
B4 Mini



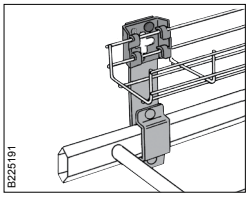
For horizontal mounting with bottom or side of tray onto the bracket grips.



The mesh tray can also be mounted with 45º angle.



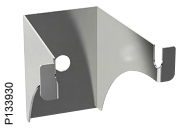
The Mesh tray can also be mounted to floor.



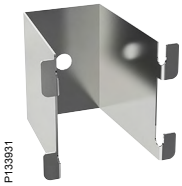
Mesh trays are mounted onto Combi Fitting B21 with Bracket B4 or B4 Mini.

Bracket B4 100/2, B4 100/4, B4 Mini 100

Brackets to be used for stable and secure mounting of mesh trays on walls and pendants. Intended for extended vertical or horizontal installation in hygienic areas where a distance is needed for cleaning purposes. Distance to the supporting surface 100 mm. Material: Stainless steel AISI316L.



B4 100/2 is used for Mesh tray 422-622 mm



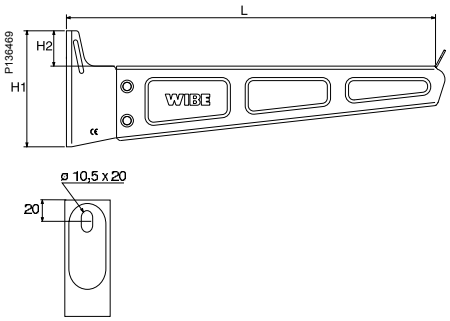
B4 100/4 is used for Mesh tray 220-320 mm

B4 Mini 100 is used for Mesh tray 53-120 mm

Bracket B4 100/2, used for the mounting of mesh tray widths 422-622 mm, are to be installed in pairs in two lines for heavy mesh tray loadings.

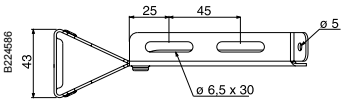
Cantilever arm 50i

Cantilever arm to be used for lighter mountings on walls, vertical piecwes or pendant/ fixing rails.

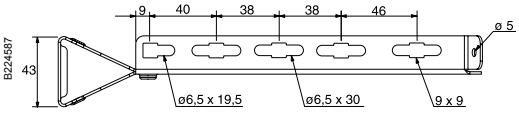


	Size		
Cantilever arm type	L mm	H1 mm	H2 mm
50i-200	250	85	28.5
50i-300	350	110	33.5
50i-400	450	115	31.0
50i-500	550	150	31.0
50i-600	650	150	31.0

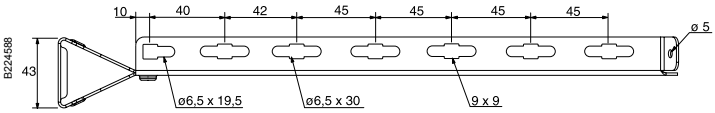
Widths = 100



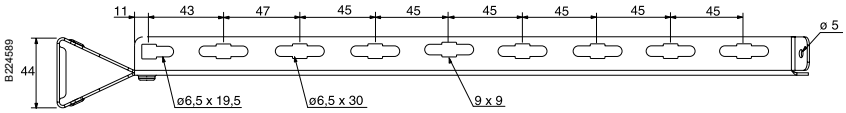
Widths = 200



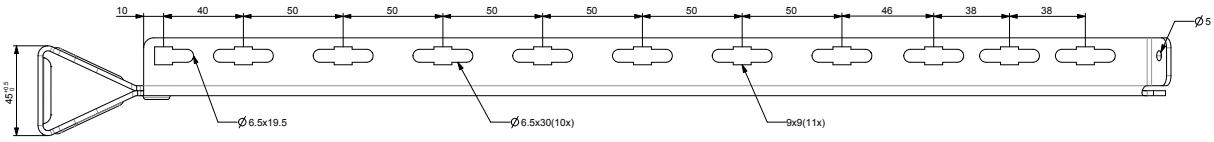
Widths = 300



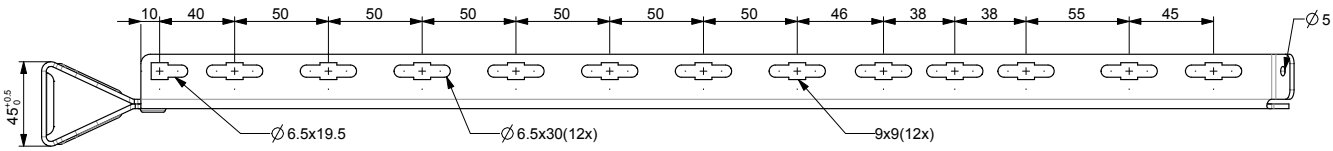
Widths = 400

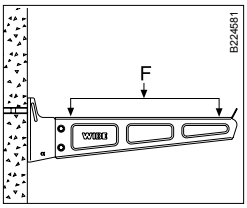


Widths = 500

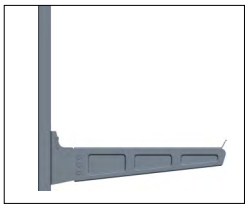


Widths = 600

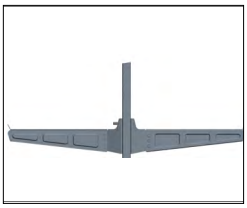




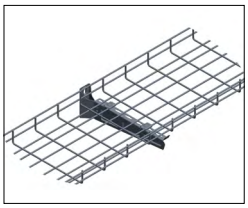
Installation of cantilever arm mounted to wall using Expansion bolt M8. Breaking load - See table below.



Mounting Cantilever arm 50i on pendant 2F/2FB with t-bolt.



Double cantilever arm 50i on pendant 2F/2FB with Screw set 20S



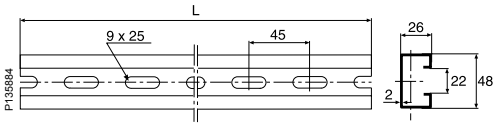
Mesh Tray mounted on Ca50i with 2 pcs of fitting B2 and 2 pcs of Nut B13 on longitudinal wire.

Breaking load F - Mounted on wall		
Type of cantilever arm	kN	kg
50i-100	2.30	230
50i-200	2.15	215
50i-300	2.20	220
50i-400	2.35	235
50i-500	3.00	300
50i-600	3.00	300

Safe working load according to IEC 61537 is breaking load divided by 1,7.

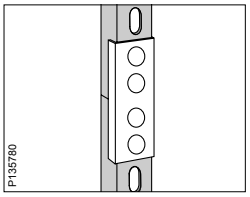
Pendant/Fixing rail 24/48

Pendant/Fixing rail for mounting of support brackets, cantilever arms, etc.

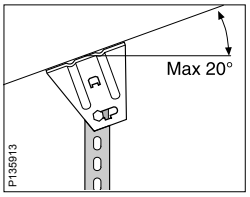


Type	L mm
Pendant/Fix. rail 24/48	2970

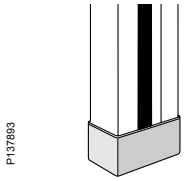
End plug
28E



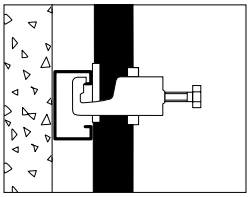
Vertical piece 2F may be joined using Pendant/ Fixing rail 24/48 and Pendant joint 2FJ to achieve the required length.



Ceiling bracket 5 and 1 Screw set 22S together provide a vertical piece that can be mounted with up to 20° slope. Only for mounting support brackets.



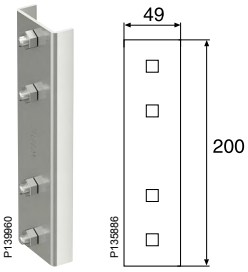
High visibility end plug for enhanced safety and provide protection against personal injury .



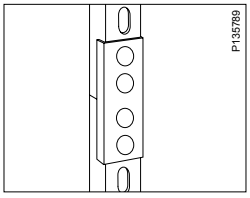
Cables are mounted on a Pendant/Fixing rail 24/48 using cable clamps of type A.

Pendant joint 2FJ

Pendant joint to be used for joining pendant/fixing rails and vertical pieces.



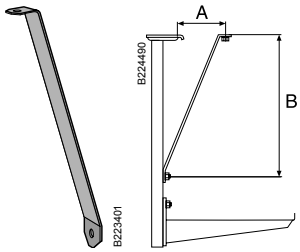
Pendant joint 2FJ



Pendant joint 2FJ, used for joining of Vertical piece 2F and Pendant/ Fixing rail 24/48.

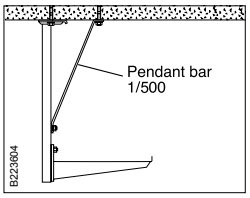
Pendant bar 1

Pendant bar to be installed in order to reduce the deflection of heavily loaded vertical pieces. Installed with T-bolt and Expansion bolt.

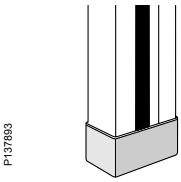


Pendant bar 1/500 Hdg

Type	A mm[1]	A mm	B mm
1/500	40	130	500



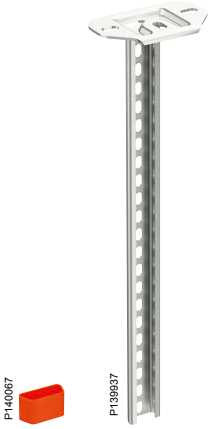
To reduce deflection of Vertical piece 2F at heavy loads on Cantilever arm 50 the Pendant bar 1 can be used. Install with T-bolt and Expansion bolt.



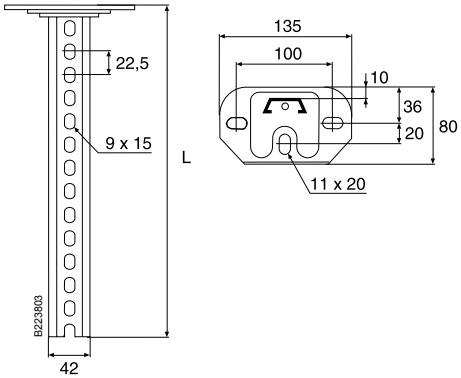
High visibility end plug for enhanced safety and provide protection against personal injury .

Vertical piece 2

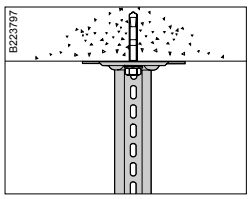
Vertical piece to be used for installation of Support bracket 3, symmetrical loading. Not suitable for cable ladders KHZV and KHZPV. Can be joined to Pendant/fixing rail 24/34 with Pendant joint 2J.



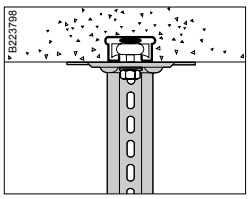
End plug 28C



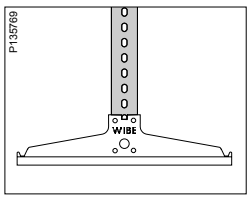
Type	L mm
Vertical piece 2/300	279
Vertical piece 2/400	392
Vertical piece 2/500	504
Vertical piece 2/700	729
Vertical piece 2/1000	1022



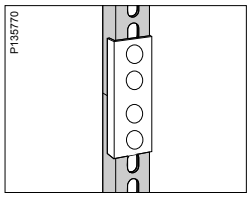
Mount Vertical piece 2 using an Expansion bolt or a concrete screw.



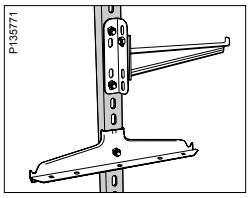
Mount Vertical piece 2 on a Fixing rail 24/26x53 for casting-in using T-bolt 26F.



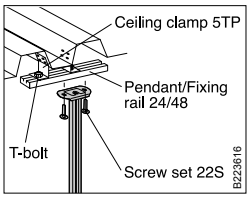
On Vertical piece 2, mount Support bracket 3 using Screw set 22S.



Vertical piece 2 can be joined to achieve the required length using Pendant/Fixing rail 24/34 and Pendant joint 2J.

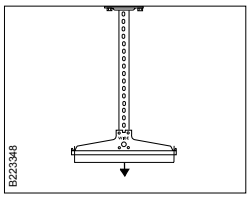


Cantilever arm 50 can, using End bracket HT-11, be mounted at 90° to the pendant/fixing rail. Only for lightweight mounting, such as data cables.

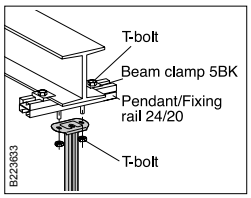


In ceilings with trapezoidal profile sheeting, mount Vertical piece 2 as shown above.

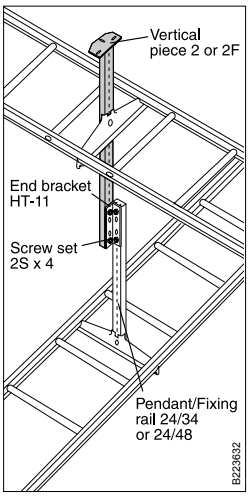
Breaking load



Breaking load for Vertical piece 2 with a symmetrical loading = 1400 kg (14 kN). See also breaking load for support bracket 3.



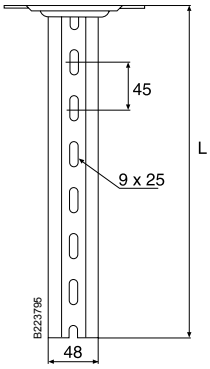
On beams in ceilings. When the beam flange thickness does not exceed 13 mm, use Beam clamp 5BK-10 and T-bolt 26F/40. For flange thick- nesses not exceeding 30 mm use Beam clamp 5BK-30 and T-bolt 26F/50.

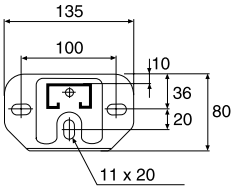


End bracket HT-11 permits the mounting of crossing cable ladders at different levels on the same pendant/fixing rail.

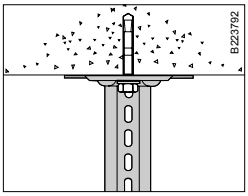
Vertical piece 2F

Vertical piece to be used for installation of Support bracket 3 or Cantilever arm 50 /50i. Can be joined to Pendant/fixing rail 24/48 with Pendant joint 2FJ. Can be mounted from the ceiling or on the floor . Can also be installed as a cantilever arm on a wall.

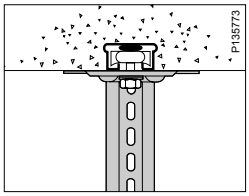




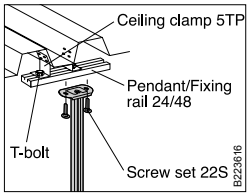
Type	L mm
Vertical piece 2F/280	280
Vertical piece 2F/505	505
Vertical piece 2F/1000	1000



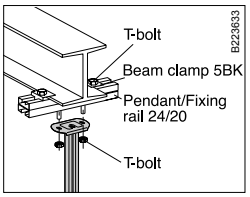
Mount Vertical piece 2F using Expansion bolt alt. Concrete screw.



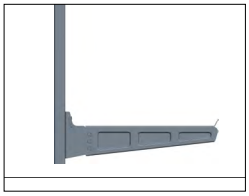
On Fixing rail forcasting-in, mount Vertical piece 2F using T-bolt.



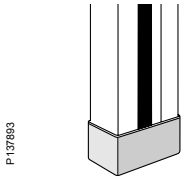
In ceilings with trapezoidal sheeting, mount Vertical piece 2F as shown above.



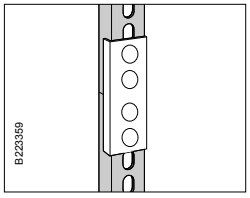
On beams in ceilings, mount Vertical piece 2F as shown in the figure above. When the beam flange thickness does not exceed 13 mm, use Beam clamp 5BK-10 and T-bolt 26F/40. For flange thicknesses not exceeding 30 mm use Beam clamp 5BK-30 and T-bolt 26F/50.



Mounting Cantilever arm 50i on pendant 2F/2FB with t-bolt.

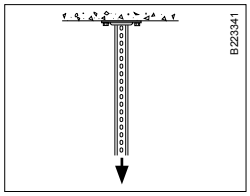


High visibility end plug for enhanced safety and provide protection against personal injury .



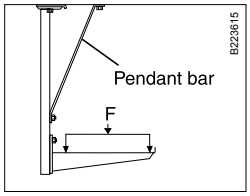
Vertical piece 2F can be joined to achieve the required length using Pendant/Fixing rail 24/48 and Pendant joint 2FJ.

Breaking load symmetrical loading*



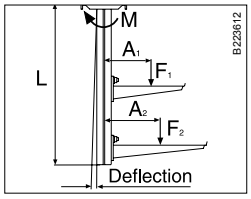
Breaking load for Vertical piece 2F (VP) = 2300 kg (23 kN) at symmetrical loading.

VP + Pendant bar for reduction of deflection

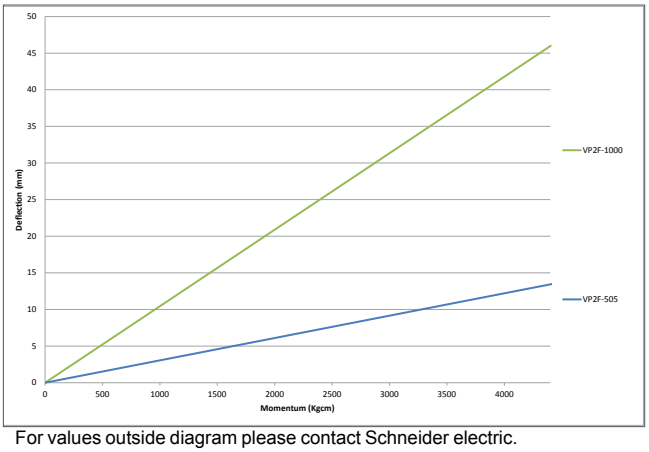


Deflection of Vertical piece 2F is reduced by installing Pendant bar 1. Loadings in accordance with chart below.

Breaking load asymmetrical loading



M = Σ F x A
See also max loading for Cantilever 50i.



For values outside diagram please contact Schneider electric.

Example
Conditions:
- 2 m support distance.
- 10 kg/m cantilever arm 50i
- Two cantilever arm 50i, 200 and 300 mm
- One-side loading
- VP 2F//505
- Bending?

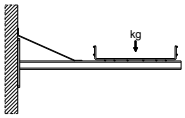
M = ∑ F x A (kgcm)

$$M = \underset{(F_1)}{10 \times 2} \times \underset{(A_1)}{\left(\frac{25}{2} + 2.6\right)} + \underset{(F_2)}{10 \times 2} \times \underset{(A_2)}{\left(\frac{35}{2} + 2.6\right)}$$

M = 704 kgcm - bending as per diagram, about 2 mm.

Bending torque M is total sum of F x A (kgcm).
F = Cantilever arm 50i loading (kg)
F = Loading (kg/m) x support distance (m).
A = Distance between loading and VP external side (cm)
A = $\frac{\text{Ca 50i width}}{2}$ + 2.6 cm
L = VP length
Break load torque 6 000 (kgcm)

Loading table for Vertical piece 2F installed as a cantilever arm



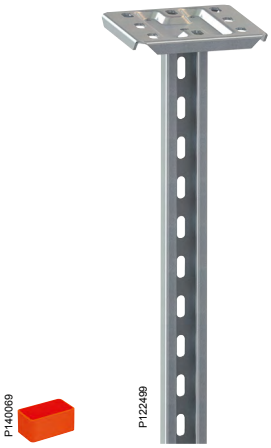
Vertical piece 2F with Pendant bar 1/500

Pendant type	2F/1000
Mesh tray width	Breaking load
120	75
220	80
320	90
420	100
620	120

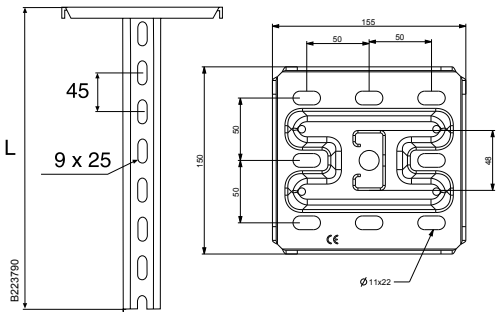
*Safe working load according to IEC 61537 is breaking load divided by 1,7.

Vertical piece 2FB

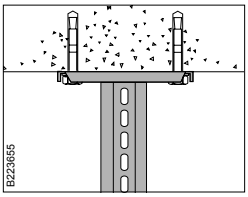
Vertical piece, to be used for vertical installation together with Cantilever arm 50/50i, from a ceiling or on a floor. Can also be installed as a cantilever arm on a wall.



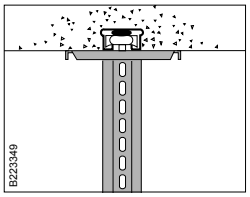
End plug
28E



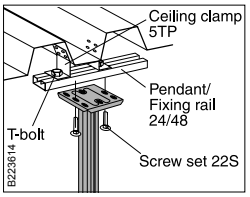
Type	L mm
Vertical piece 2FB/280	280
Vertical piece 2FB/505	505
Vertical piece 2FB/1000	1000



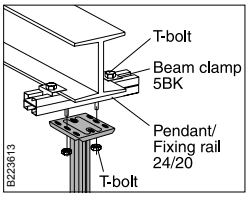
Mount Vertical piece 2FB using Expansion bolt.



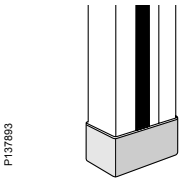
On fixing rail for casting-in,mount Vertical piece 2FB using T-bolts.



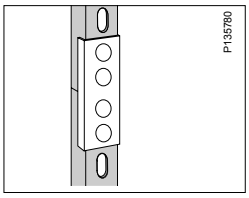
In ceilings with trapezoidal profile sheeting, mount Vertical piece 2FB as shown above



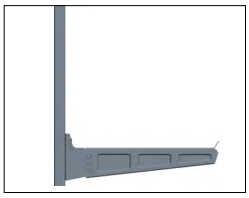
On beams in ceilings, mount Vertical piece 2FB as shown in the figure above. When the beam flange thickness does not exceed 13 mm, use Beam clamp 5BK-10 and T-bolt 26F/40. For flange thicknesses not exceeding 30 mm use Beam clamp 5BK-30 and T-bolt 26F/50.



High visibility end plug for enhanced safety and provide protection against personal injury .

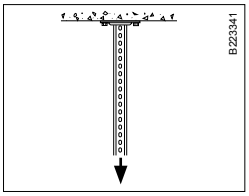


Vertical piece 2FB can be joined to achieve the required length using Pendant/Fixing rail 24/48 and Pendant joint 2FJ.



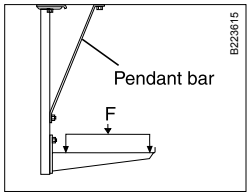
Mounting Cantilever arm 50i on pendant 2F/2FB with t-bolt.

Breaking load symmetrical loading*



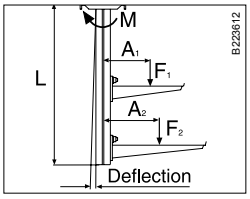
Breaking Load for Vertical piece 2FB = 3000 Kg (30kN) at symmetrical loading.

VP + Pendant bar for reduction of deflection

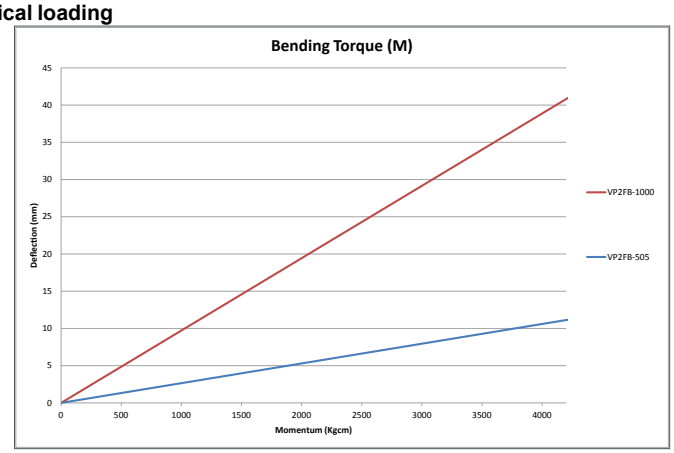


Deflection of Vertical piece 2FB is reduced by installing Pendant bar 1. Loadings in accordance with chart below.

Breaking load asymmetrical loading



M = Σ F x A
See also max loading for Cantilever 50i.



For values outside diagram please contact Schneider electric.

Example
Conditions:
- 2 m support distance.
- 10 kg/m cantilever arm 50i
- Two cantilever arm 50i, 200 and 300 mm
- One-side loading
- VP 2F/505
- Bending?

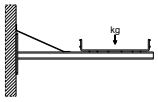
M = ∑ F x A (kgcm)

$$M = \underset{(F_1)}{10 \times 2} \times \underset{(A_1)}{\left(\frac{25}{2} + 2.6\right)} + \underset{(F_2)}{10 \times 2} \times \underset{(A_2)}{\left(\frac{35}{2} + 2.6\right)}$$

M = 704 kgcm - bending as per diagram, about 2 mm.

Bending torque M is total sum of F x A (kgcm).
F = Cantilever arm 50i loading (kg)
F = Loading (kg/m) x support distance (m).
A = Distance between loading and VP external side (cm)
A = $\frac{\text{Ca 50i}}{2}$ + 2.6 cm
L = VP length
Break load torque 7 000 (kgcm)

Loading table for Vertical piece 2F installed as a cantilever arm



Vertical piece 2F with Pendant bar 1/500

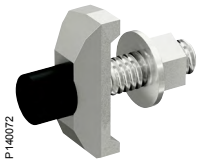
Pendant type	2F/1000
Mesh tray width	Breaking load
120	75
220	80
320	90
420	100
620	120

*Safe working load according to IEC 61537 is breaking load divided by 1,7.

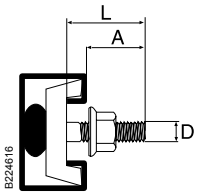
Bolt and nut B13

M6x25. Tensi-Lock and Flange Nut M6. Used for mesh tray assembly with support hook B39 and various types of fitting for joining, fixing etc.

T-bolt 26F

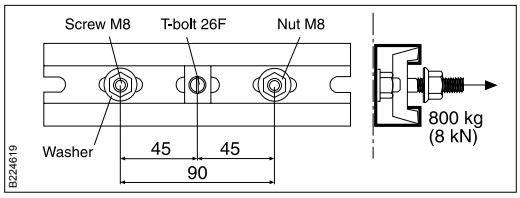


To be used for the mounting of Cantilever arm 50 on Pendant/Fixing rail 24/48 and all vertical pieces except Vertical piece 2.

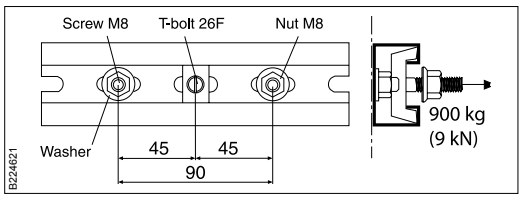


Type	L mm	A mm
M8	30	24
M10	30	24
M10	40	34
M8	50	44
M10	50	44

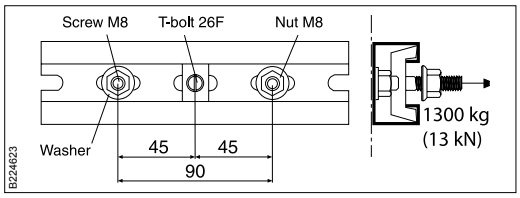
Max permitted extraction force



T-bolt 26F M8/M10 + P/F-rail 24/48 + Washer 8,4x19x1,5



T-bolt 26F M8 + P/F-rail 24/48 + Washer 9x35x2



T-bolt 26F M10 + P/F-rail 24/48 + Washer 9x35x2

Screw set 2S

Screw set to be used for fastening of Support bracket 3 on Pendant/fixing rail 24/20F and Angle bracket 5L to the opening on Pendant rail 24/34 and 24/48. Set including screw MVBF 8x40 and nut M6MF8.

Screw set 20S

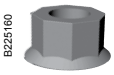
Screw set to be used for installation of Support bracket 3 on Pendant/fixing rail 24/20 and Vertical piece 20, Angle bracket 5L to the opening on Pendant rail 24/48 and 24/20. Set including screw MVBF 8x60 and nut M6MF8.

Screw set 22S

Screw set to be used for installation of Support bracket 3 on Vertical piece 2 and 2F, Support bracket 3 and Ceiling bracket 5 on Pendant/fixing rails 24/34 and 24/48, Angle bracket 5L against the back of Pendant/fixing rails, Pendant/fixing rails back to back. Set including screw MVBF 8x16 and nut M6MF8.

Spring nut M8/M10

Spring nut to be used for fastening of accessories (control panels, etc.) on Pendant/ fixing rail 24/48.



Flange nut B43

Flange nut to be mounted onto Threaded rod B41 in order to lock it to the Support hook and the Ceiling fittings.
Material: Steel, electro-galvanized.

Distance nut B42

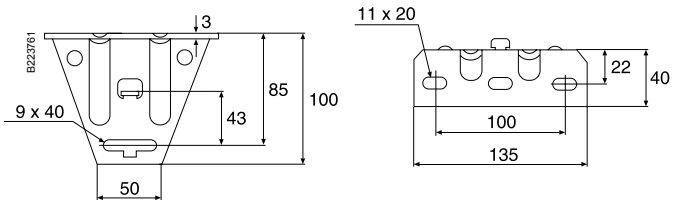
Distance nut to be used when joining Threaded rods. Screw the nut to the top rod to the middle depth of the nut. Then screw the bottom rod into the nut from below, tighten.

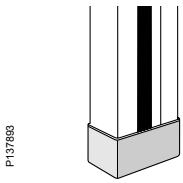
Thread lock B50

Thread lock to be used when joining Threaded rods. Pull the thread lock up high on the top threaded rod.

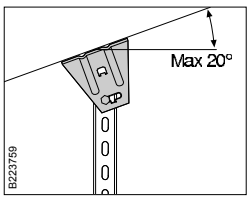
Ceiling bracket 5

Ceiling bracket to be used for installations with Pendant/Fixing rails 24/34 and 24/48.

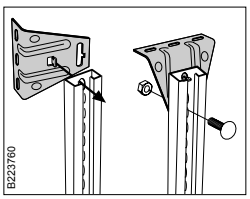




High visibility end plug for enhanced safety and provide protection against personal injury .



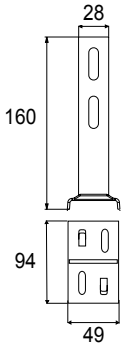
Using Pendant/Fixing rail 24/34 or 24/48, 1 Ceiling bracket 5 and 1 Screw set 22S it is possible to make a vertical piece that can be installed at an angle of up to 20º. Breaking load for rail 34 = 1000 kg (10 kN). Breaking load for rail 48 = 1200 kg (12 kN).

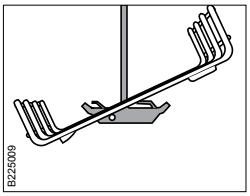


Mount Ceiling bracket 5 to the back of the pendant/ fixing rail by turning the ceiling bracket 90º and inserting the tab into the hole in the rail. Then turn the ceiling bracket back and lock it in the required position using 1 Screw set 22S. When mounting it at a horizontal ceiling, lock the screw in the slot recess for better lateral stability. Ceiling bracket 5 can be tilted max. 20°.

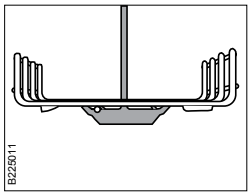
Support Hook D35/120-220

Support hook for 120-220 mm Mesh tray.

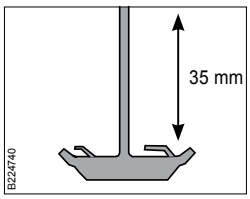




Mounted from below with angled movement.



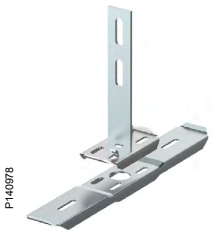
Mesh tray is mounted by closing the D35 grips.

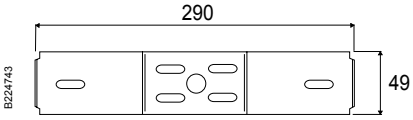


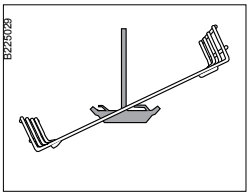
Adjustable 35 mm with Pendant 2, 2F, 2FB and Fixing rail 24/34 and 24/48.

Support Hook D35/320-422

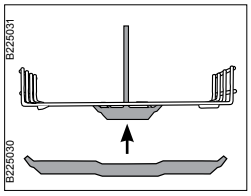
Support hook for 320-422 mm Mesh tray.



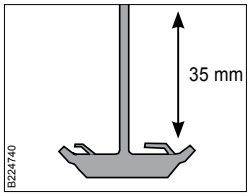




Mounted from below with angled movement and with closing of the D35 grips around the wires.



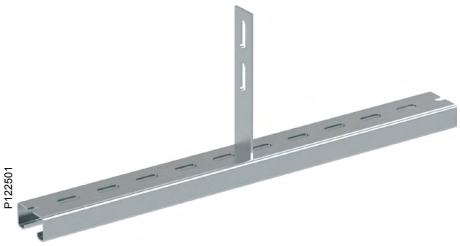
Mount the lower part of the support hook with 2 Bolt and Nut B13

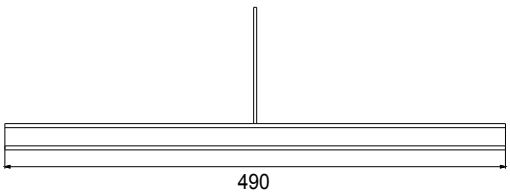


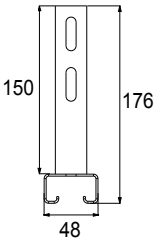
Adjustable 35 mm with Pendant 2, 2F, 2FB and Fixing rail 24/34 and 24/48.

Support Hook D35/422-622

Reinforced support hook for 422-622 mm Mesh tray.

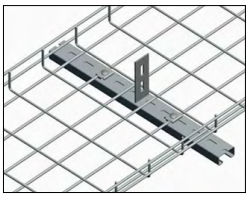






Breaking load

Type of D35	kN	kg
D35/120-220	1.7	170
D35/320-422	2.5	170
D35/422-622	3.4	340

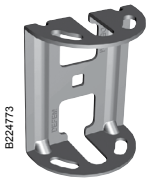


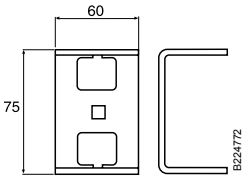
Mount the lower part of the Support Hook with 2 Fitting B2 and 2 Bolt and Nut B13. Screw set 22S is used for installation of Support hook D35 on Vertical piece 2, 2F/2FB and Pendant/fixing rail 24/34 and 24/48.

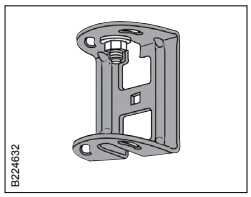
**Safe working load according to IEC 61537 is breaking load divided by 1,7.*

Ceiling Fitting Universal B46

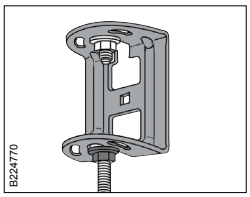
For mounting of Threaded Rod B41 onto ceiling.







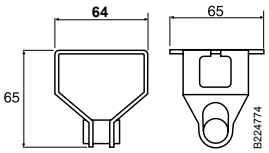
Mount the Ceiling Fitting B46 with Expansion bolt or bolt onto horizontal ceiling.

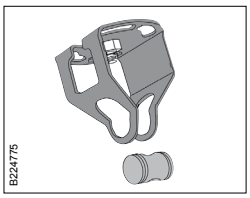


Threaded Rod B41 M8 or M10 is mounted as pendant with 2 Flange Nut B43.

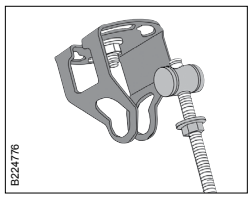
Ceiling Fitting Flexible B47

Adjusts to inclination of ceiling. Delivered complete with Tensi-lock Flange Nut.

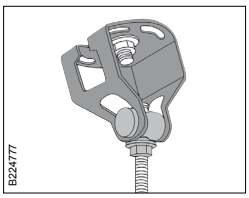




Mount the Ceiling Fitting B47 with Expansion bolt or bolt onto level or sloping ceiling.



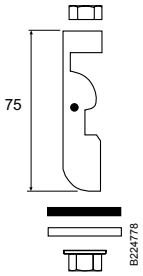
Screw in the yoke and the Tensi-lock nut onto the Threaded Rod B41.

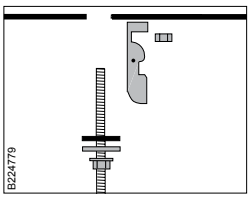


Hook the Threaded Rod onto the B47 and tighten the Nut.

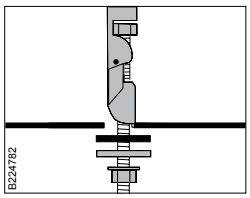
Ceiling Clamp B48

For hole Ø 22 mm. Delivered complete with Tensi-lock Nut and washers.

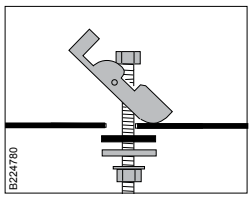




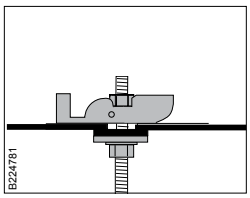
Drill a Ø 22 mm hole in the ceiling metal.



Assemble and mount the Ceiling clamp.



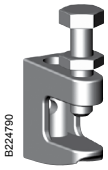
Pull down.

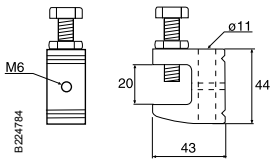


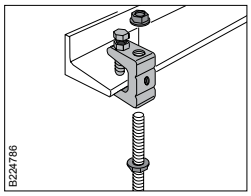
Close with the rod nut.

Beam Clamp B49

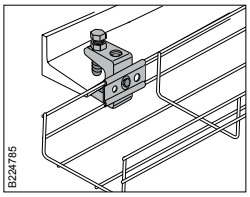
For mounting onto beam.



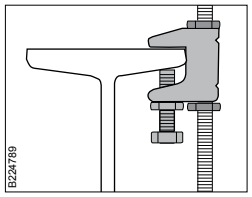


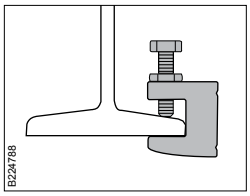


For mounting of Threaded Rod B41 with Flange Nut B43/ M8 – M10.



Mesh tray 53 –120 mm can be mounted directly onto Beam Clamp B48 with Fitting B1 and M6 bolt.



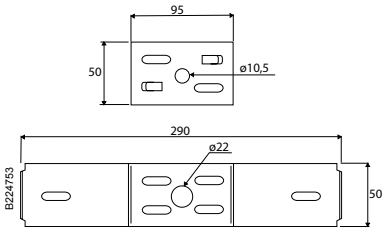


Mount the Beam Clamp with the locking bolt against the sloping side of the beam.

Support Hook B39 120-220 and 320-422

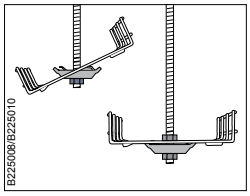
Support Hook for mounting onto Threaded Rod.

Support Hook
B39/120-220

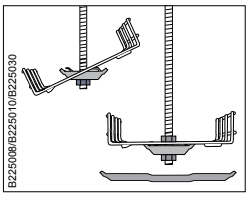


Support Hook
B39/320-422

Support Hook B39 is used together with Threaded Rod B41 as pendant. Mounted with 2 Flange Nut B43.



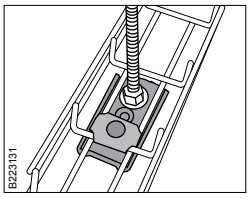
Support Hook B39/120-220. Mesh tray is moun/ted from below angled movement and by closing the grips of the B39 around the wires.



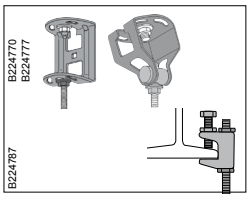
Mount the lower part of B39/320-422, after mounting the Mesh tray, with 2 Bolt and Nut B13.

Threaded Rod B41 and Thread Lock B50

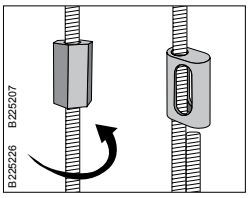
Threaded Rod B41 is mounted onto Support Hook B39 with 2 pcs Flange Nut B43.



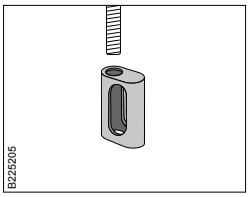
For Mesh tray 53 and 75, the Fitting B1 can be used as support hook Mounting with 1 Fitting B1, 1 Fitting B2, 1 Bolt and Nut B13 and two Flange Nut B43.



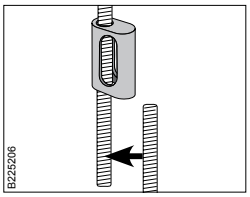
For ceiling mounting, use Ceiling Fittings B46, B47, B48 or B49.



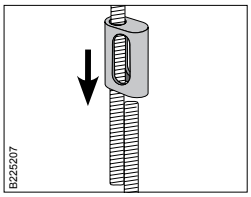
The Threaded Rod is extended by using Distance Nut B42 or Thread Lock B50 as joining fitting.



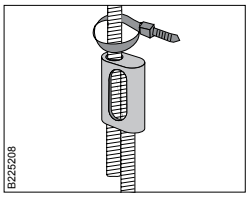
Put the Thread Lock B50 in the desired position onto the upper Rod.



Put the lower Rod in contact with the upper Rod.

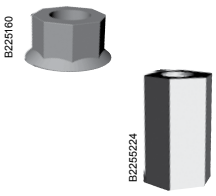


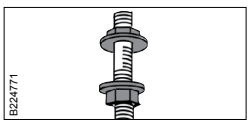
Lower the Thread Lock B50 onto both rods, now in locked position.



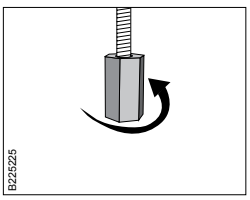
Put a cable stripe above the upper Thread Lock as safety lock.

Flange Nut B43, M8/M10 and Distance Nut B42

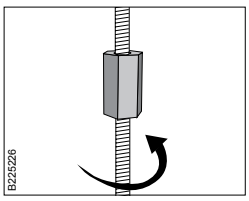




Flange Nut B43 is mounted onto Threaded Rod B41 in order to lock it to the Support Hook and the Ceiling Fittings.



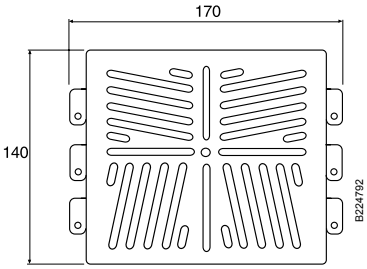
Screw in the Distance Nut on the upper Threaded Rod to the middle.

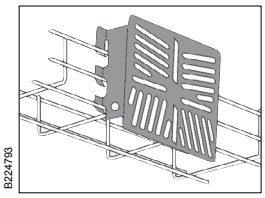


Screw in the lower Threaded Rod into the Distance Nut and tighten.

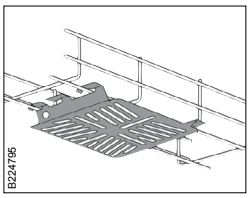
Accessories Holder B5 Mini

Fits to all Mesh trays.

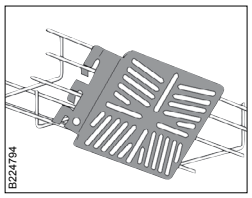




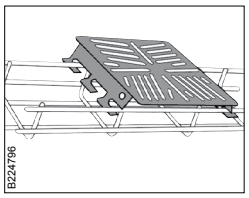
Accessories Holder B5 Mini is easily mounted directly on the side of the mesh tray.



Accessories Holder B5 Mini is mounted equally easy to the bottom of the mesh tray.



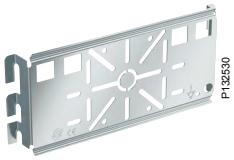
Accessories Holder B5 Mini is also mounted in 45º angle onto the mesh tray.

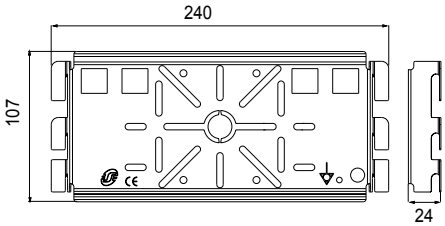


Accessories Holder B5 Mini can also be mounted on top of the 53 and 73 mesh trays.

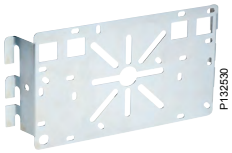
Accessories Holder B5

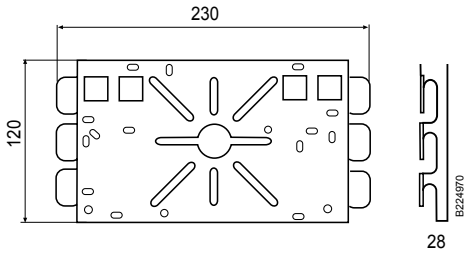
For Electro-galvanized and Hot dip galvanized

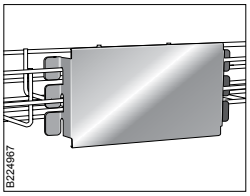




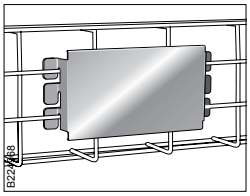
For AISI 316L



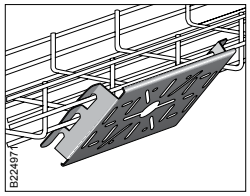




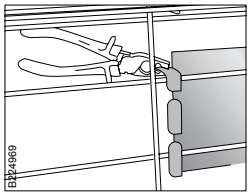
Accessories Holder B5 is easily mounted directly on the side of the mesh tray.



Accessories Holder B5 is mounted equally easy to the bottom of the mesh tray.

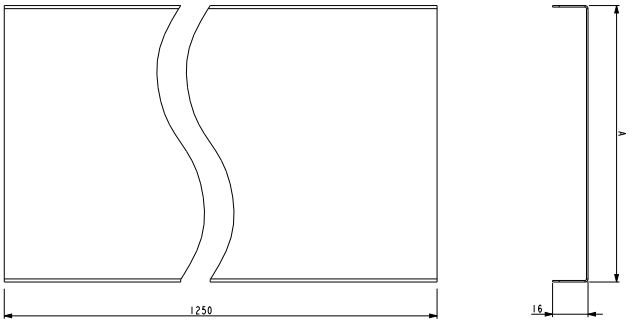


Accessories Holder B5 is also mounted in 45º angle onto the mesh tray.



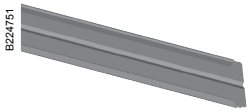
Accessories Holder B5 is tightened to the mesh tray by closing the grips around the wires.

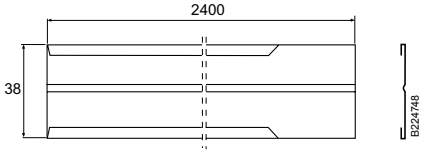
Plate Cover B7

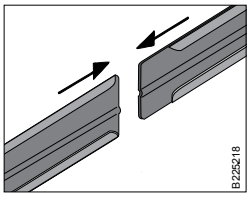


	For tray width mm	A mm
Plate Cover B7/75	75	80
Plate Cover B7/120	120	125
Plate Cover B7/220	220	225
Plate Cover B7/320	320	325
Plate Cover B7/422	422	425

Separating Plate B36







Simple joining by gliding Plates into each other.

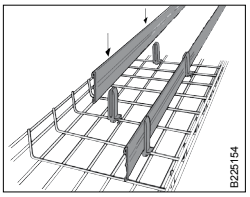
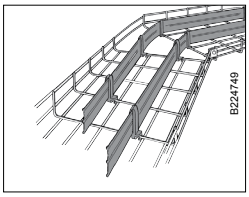


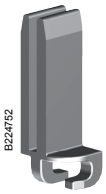
Plate Holder B38 is used for mounting of Separating Plate B36 onto Mesh tray.

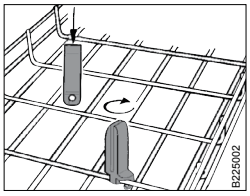


The Separating Plate B36 can be shaped to follow the horizontal bends of the mesh tray.

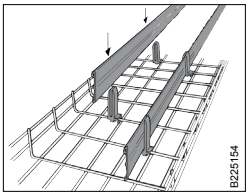
Plate Holder B38

Used for mounting of Separating Plate B36, 5 pcs/Separating Plate.



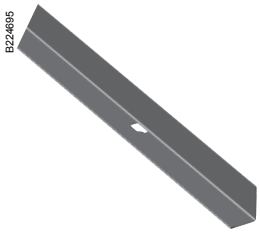


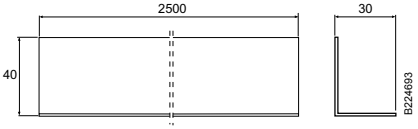
The Plate Holder is easily turned into fixed position on the mesh tray.

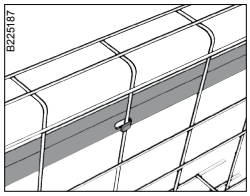


Separating Plate B36 is snapped into the Plate Holder.

Separating Plate B26

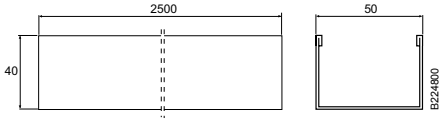


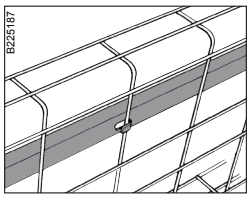




Use the grips of the Separating Plate B26 to attach to the cross wires of the Mesh tray.

Tele-Channel B6

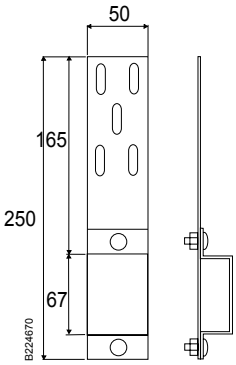


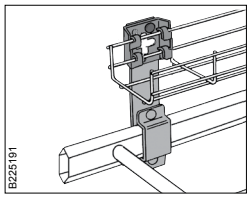


Use the grips of the B6 Tele-channel to attach to the cross wires of the Mesh tray.

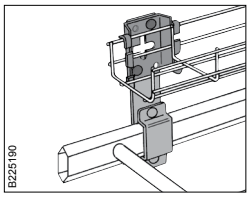
Combi Fitting B21

For mounting onto Wibe Cable Ladders.





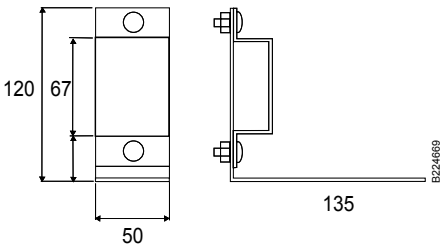
Mesh tray 53 and 75 is mounted onto Combi Fitting B21 with Bracket B4 mini
Bolt and Nut B13.

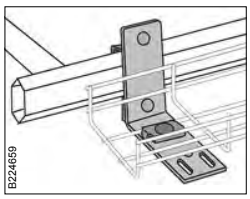


Mesh tray 120 is mounted onto Combi Fitting B21 with Bracket B4
Bolt and Nut B13.

Combi Fitting B21 90 degree

For mounting onto Wibe Cable Ladders.

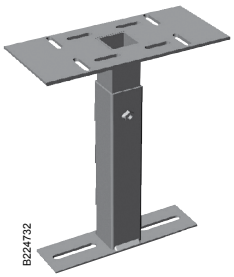


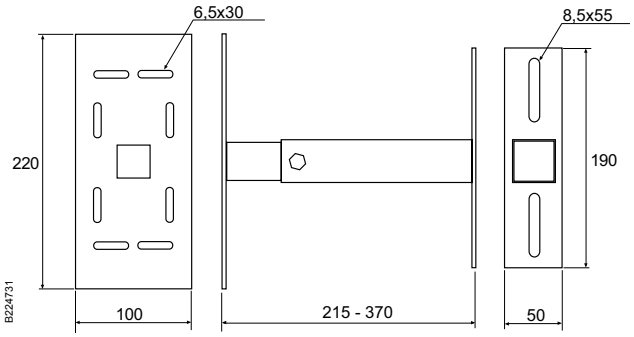


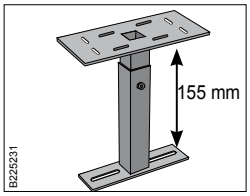
Mesh tray 53, 75 and 120 is mounted onto Combi Fitting B21 90º with
1 Fitting B2,1 Bolt and Nut B13.

Support B33

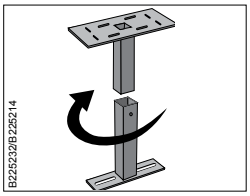
For mounting of all Mesh trays on floor, for example under raised floor.



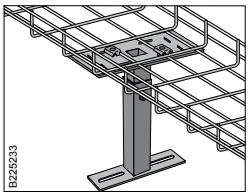




B33 Support is adjustable in height from 215 to 370 mm.



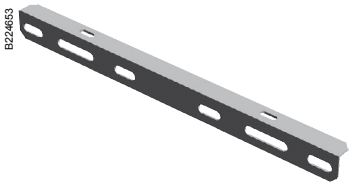
Upper or lower part can be adjusted in 90º angle.

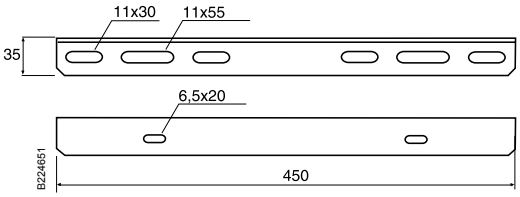


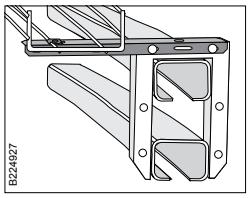
Mesh tray is mounted with suitable number of Fitting B2, Bolt and Nut B13.

Conveyor Bracket B17

Universal fitting for mounting of mesh trays along conveyor system.



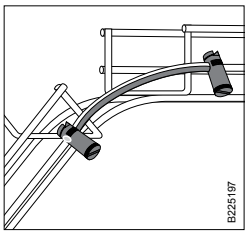




The Mesh tray is mounted onto the Conveyor Bracket with
1 Fitting B2.
1 Bolt and Nut B13.

Earth Connection Clamp B18

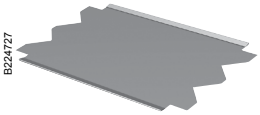
For mounting of earth cable onto chosen wire in the Mesh tray.

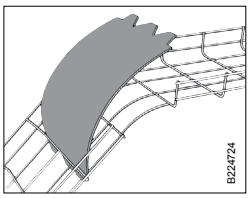


Earth connection clamp B18 is mounted to connect earth cable to mesh tray.

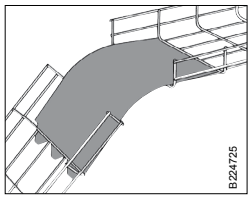
Bend Plate B31

For smooth cable bend at change of level.





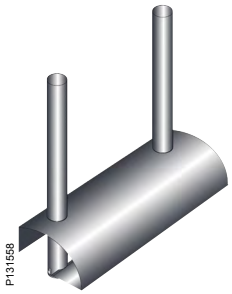
Attach the Bend Plate ends into the lower part of the Mesh tray.

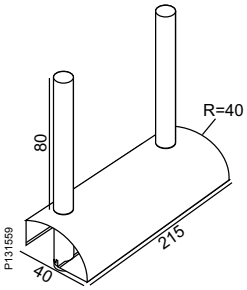


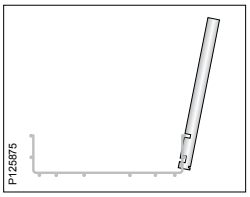
Attach the Bend Plate into the upper part of the Mesh tray.

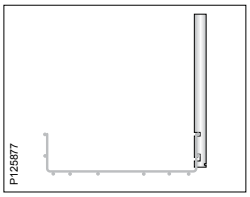
Side Radius Limiter B11

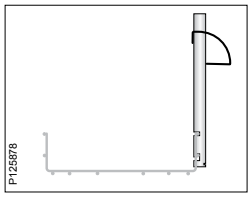
Used for limiting side bend radius of any cable type.

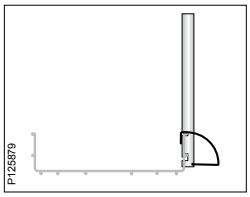






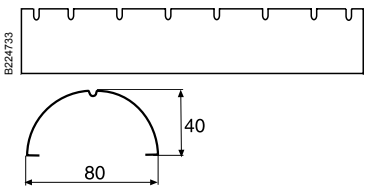


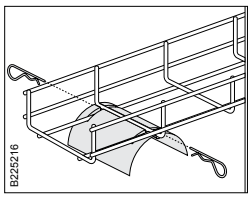




Radius Limiter B34

Limits the bend radius for sensitive cables.

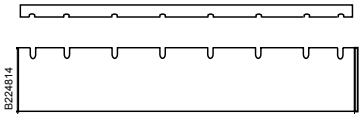


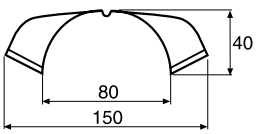


The radius limiter is mounted from below with the locking stick.

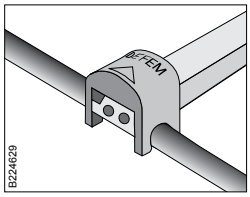
Radius Limiter B67 and Cover B68

Limits the bend radius and gives protection at side position.
Cover B68 is used for protection of cables < 2 mm.

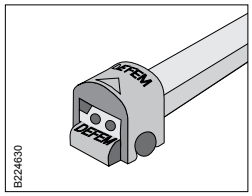




AS-I Clips B14

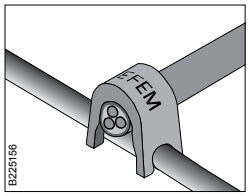


For fixing of AS-I cable. Blue for 4 mm wire, grey for 5 mm wire.

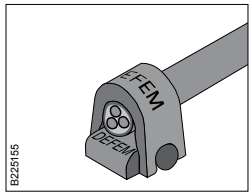


Grey clips are also used for mounting onto Fixing Plate B15.

Cable Clips B16

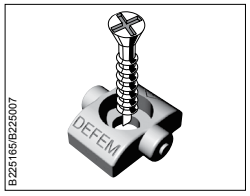


For mounting of cable or hose, Ø 6, 8 or 10 mm, onto 5 mm tray wire.

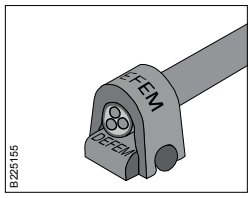


Also used for mounting of cable or hose onto Fixing Plate B15.

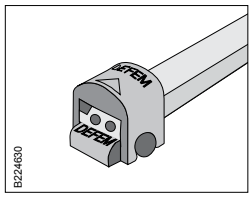
Fixing Plate B15



For mounting of cable or hose onto, for example, machines. Mounted with suitable screw.

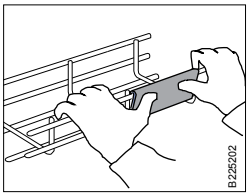


The cable is mounted with Cable Clips B16 onto Fixing Plate B15.



The AS-I cable is mounted with B14 AS-I Clip onto Fixing Plate B15.

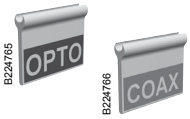
Marking Clip B44

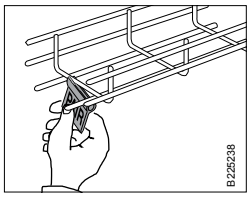


The Marking Clip is snapped onto the two side wires.

Identification Tag B40

Fits to wire Ø 5mm.

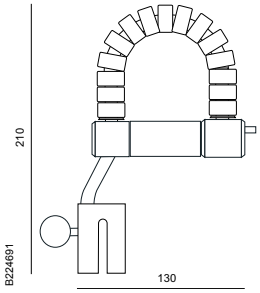


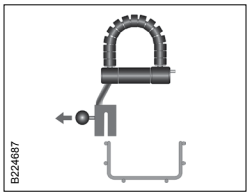


The Identification Tag is snapped onto the mesh tray.

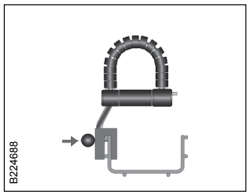
Cable Roller B25

Facilitates the pulling of cables into the mesh trays.

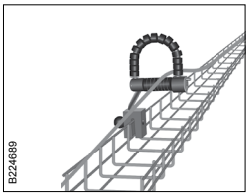




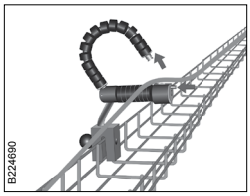
Pull the black knob outwards, place the cable roller onto the mesh tray.



Release the black knob and the cable roller is securely mounted on the mesh tray.



Simply pull the cable through the cable roller to the desired distance.

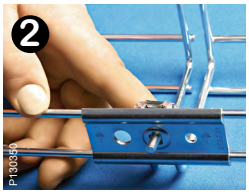


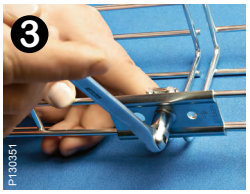
Push the small metal button to open the cable roller and place the cable in the tray.

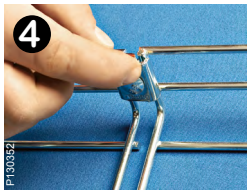
Appropriate tightening torque

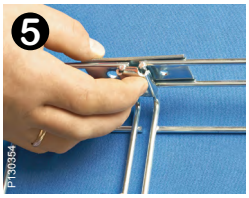
Part	Application	Tightening torque (Nm)
Fitting B52	Side joint	M6: 6
Fitting B2+B13	Couplers	M6: 6
Fitting B3	Bends	M6: 6
Fitting B2+B13+Ca50i	Fitting to Ca50i	M6: 6
Fitting B27+B13	Bends/fittings	M6: 6
B46&B47+B41&B43		M8: 15/M10: 25
B41+Nut B43	Threaded rod	M8: 15/M10: 25
B41+Nut B42	Threaded rod	M8: 15/M10: 25
B48	Fitting to ceiling	M8: 15/M10: 25
B49	Fitting to beam	M8: 15/M10: 25
MCT 75+B52	Central suspension	M6: 6
T-Bolt 26+2F+Ca50i	Support system	M8: 15/M10: 25
Screw set 2S+Pendant bar1+2F	Support system, front side of 2F	M8: 15/M10: 25
Screw set 2S+Pendant bar1+2F	Support system, back side of 2F	M8: 15/M10: 25
Screw set 20S+2F+(2)Ca50i	Balance application	M8: 15/M10: 25
Screw set 22S+2F+Ca50i	Support system, back side of 2F	M8: 15/M10: 25
2FJ+24/48	Extension application	M8: 15/M10: 25

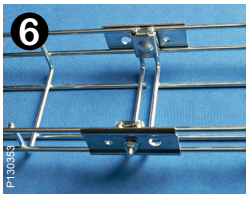
Connection of two trays / B1, B2, B13 alt B52



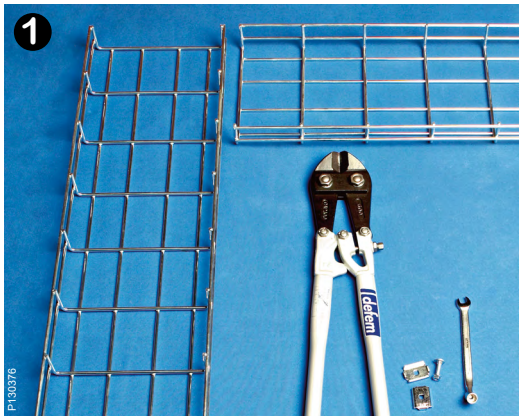


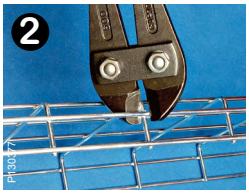


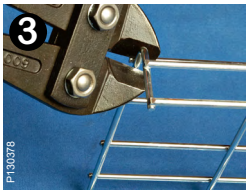


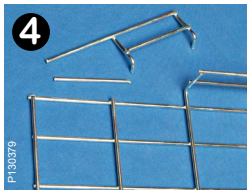


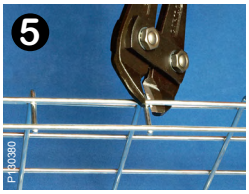
90 degree flat bends / B2

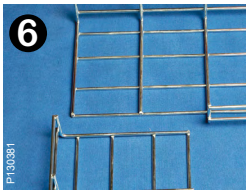


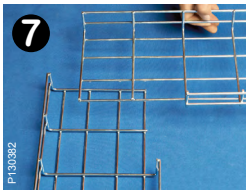


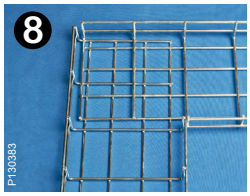


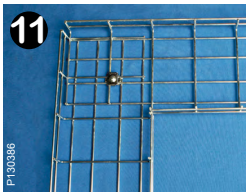


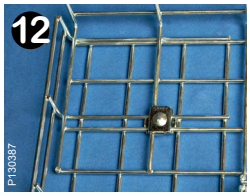




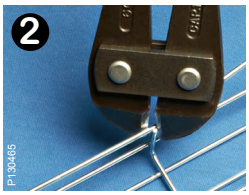


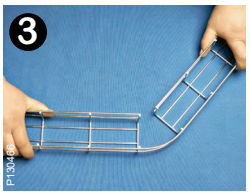


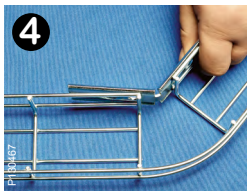


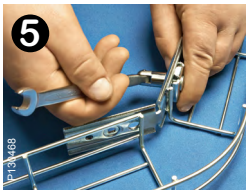


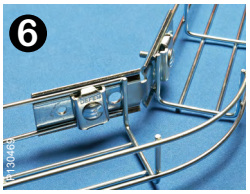
Angled flat bends / B27, B2, B13



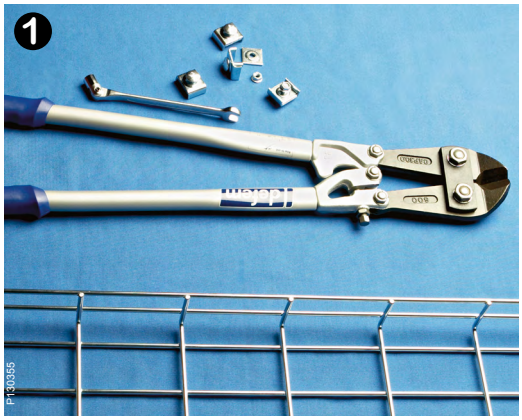


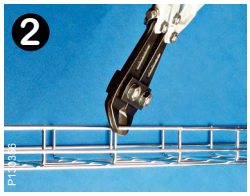


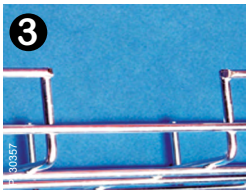


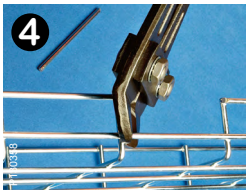


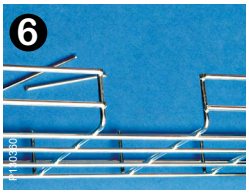
Large radius flat bends / B3

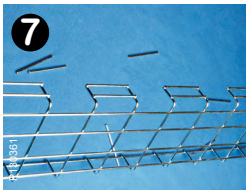


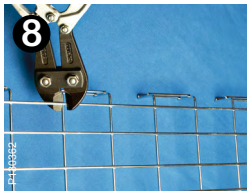


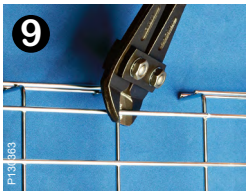


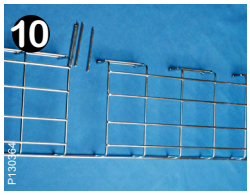


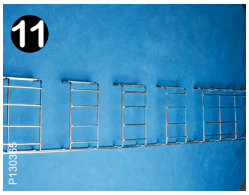


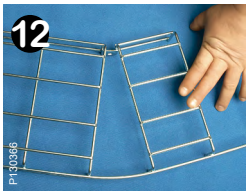


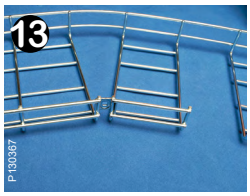


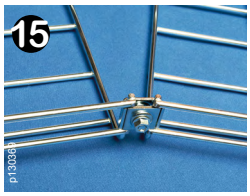


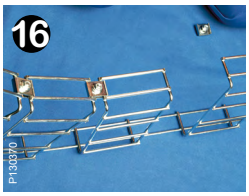


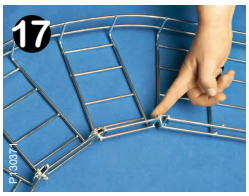


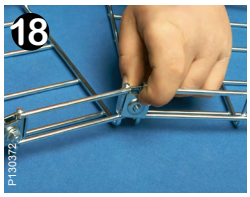


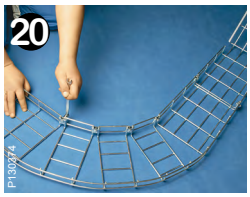


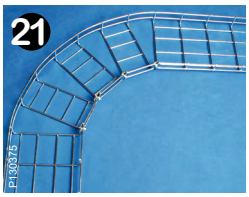




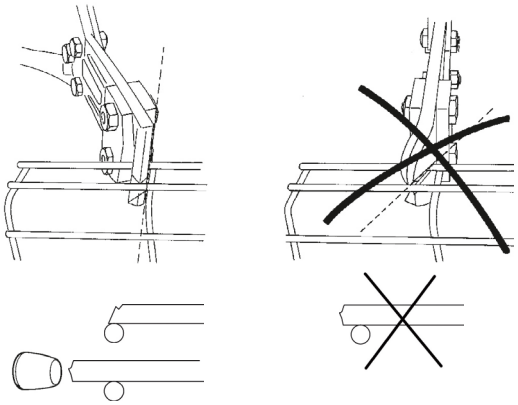


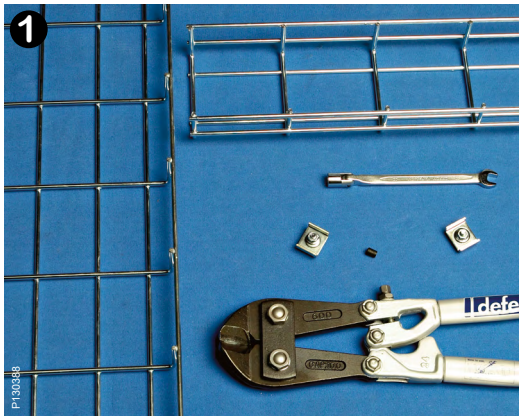


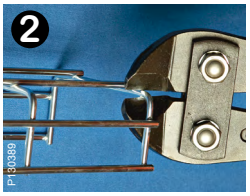


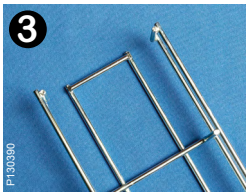


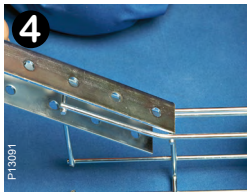
T-junction 90 degree / B3

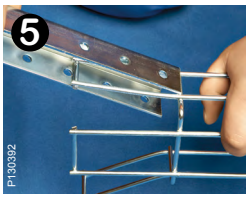


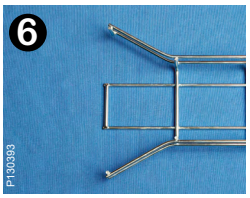


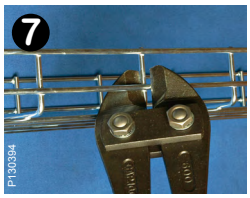


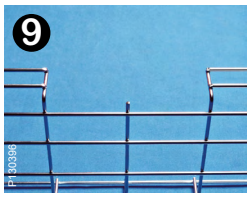


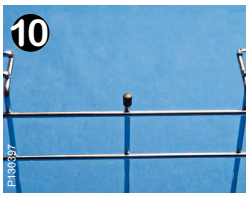


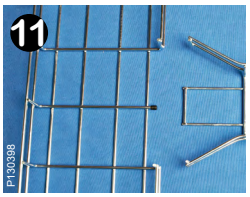


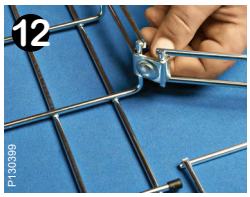


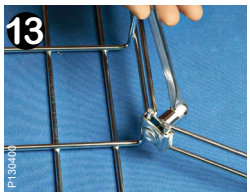


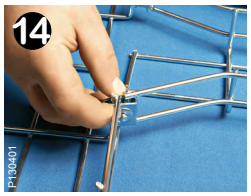


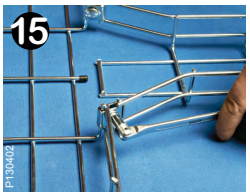


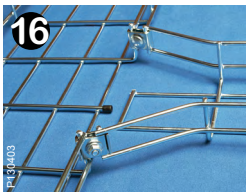


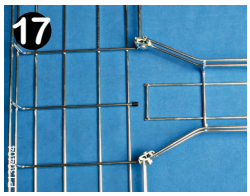




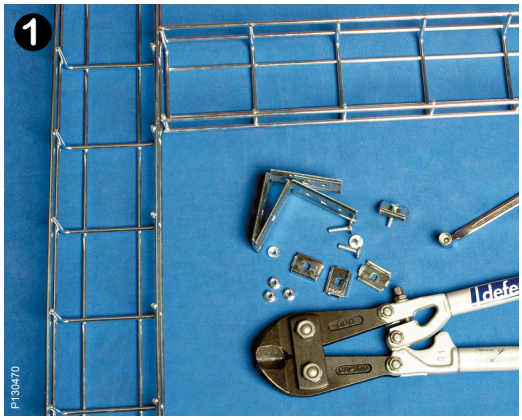


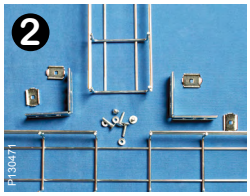


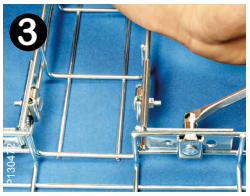




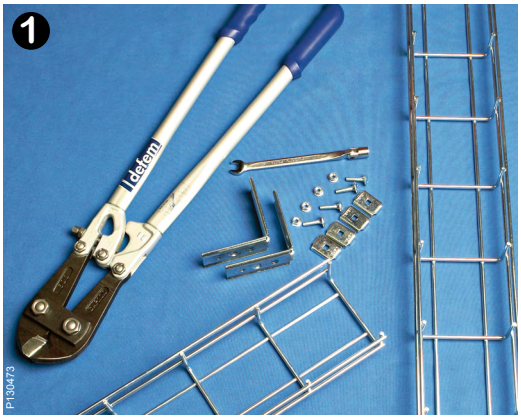
T-junction 90 degree / B27, B2, B13

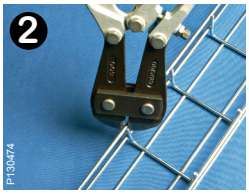


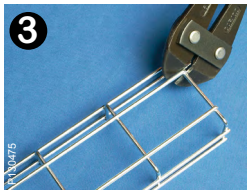


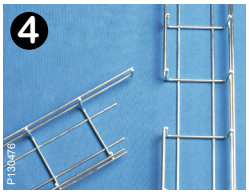


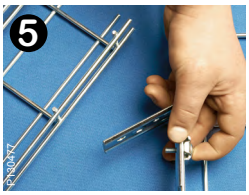
T-junction various angles / B27, B2, B13

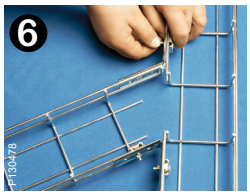


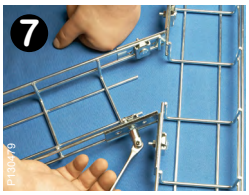


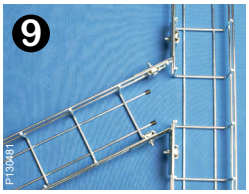


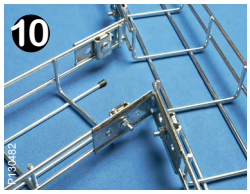




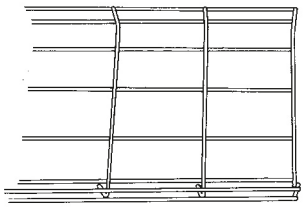


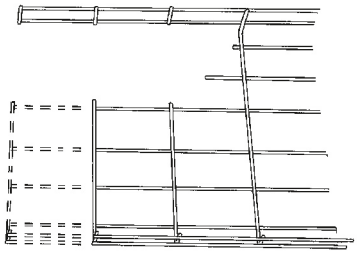


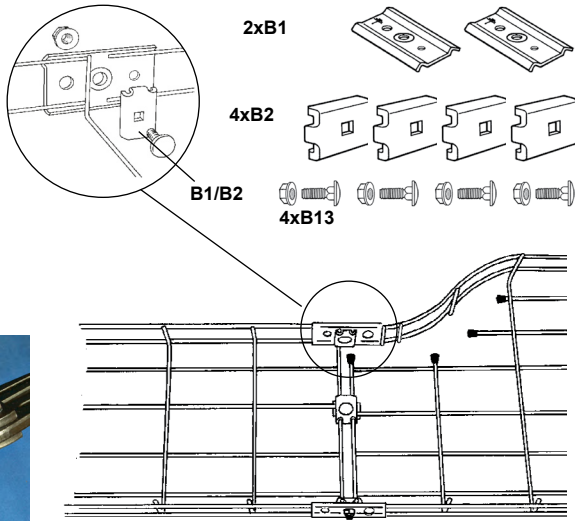


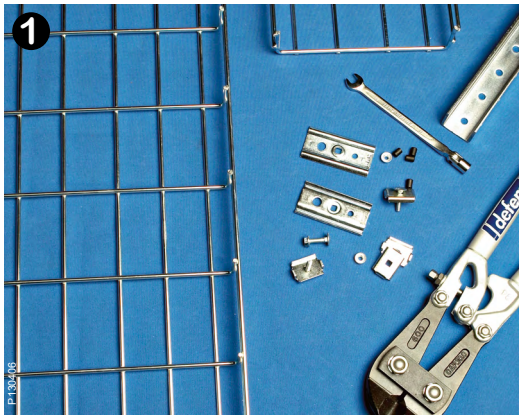


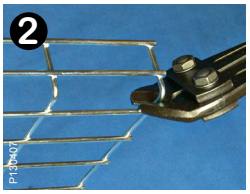
Reducer / B1, B2, B13 alt B52

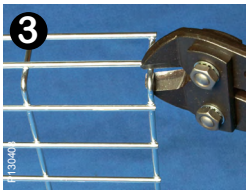


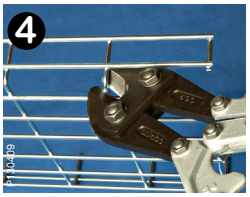


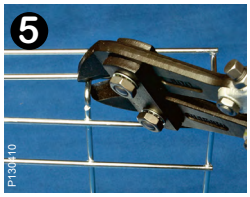


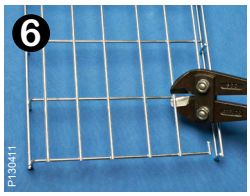


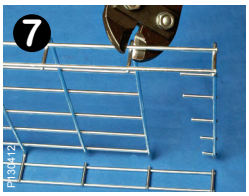


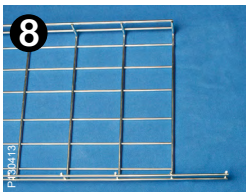


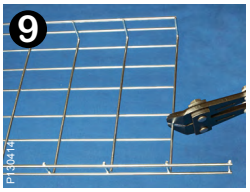


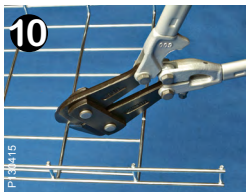


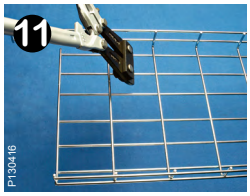


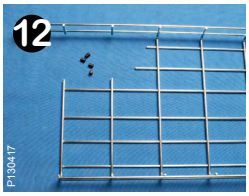


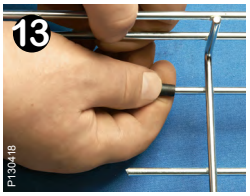


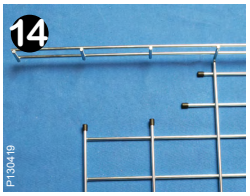


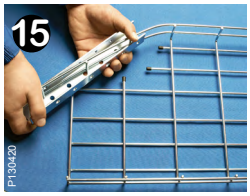


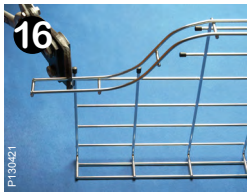


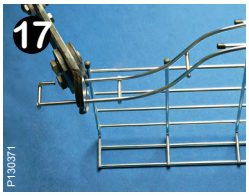


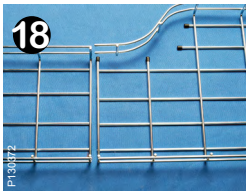


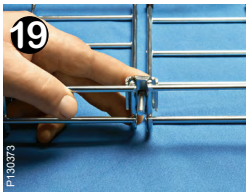


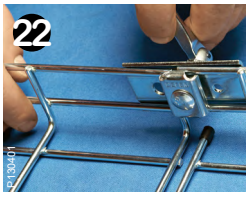


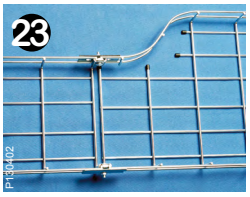




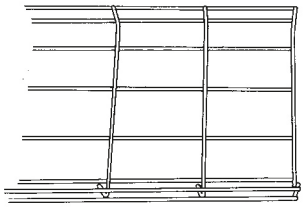


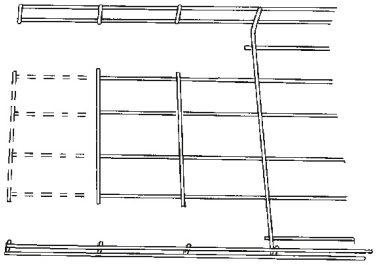


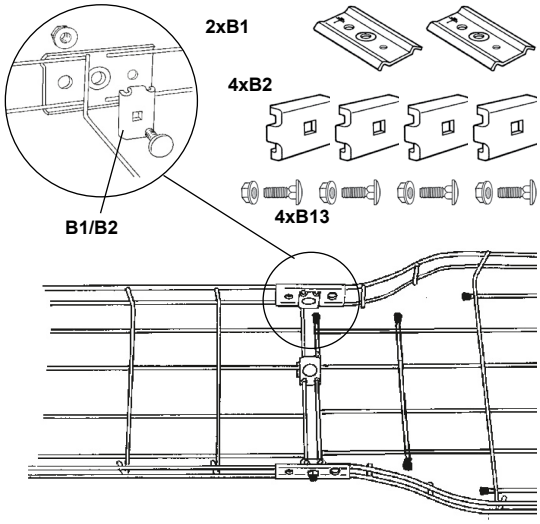


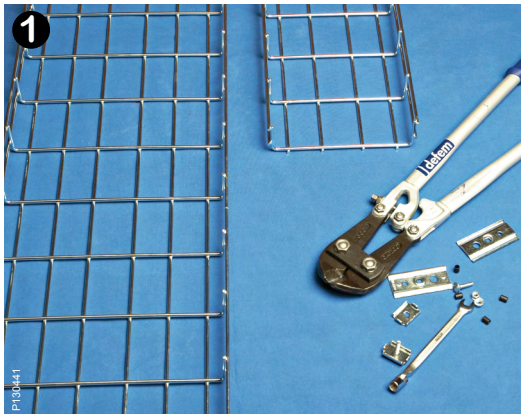


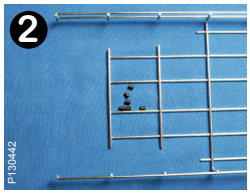
Symmetric reducer / B1, B2, B13

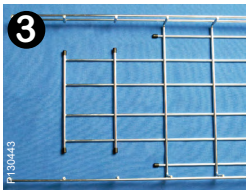


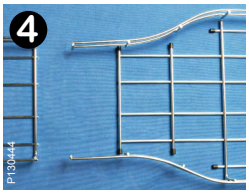


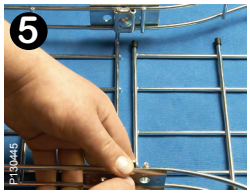


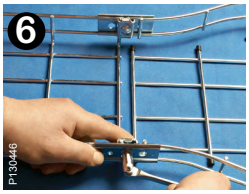


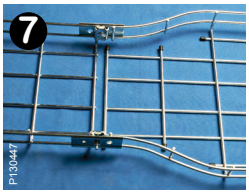




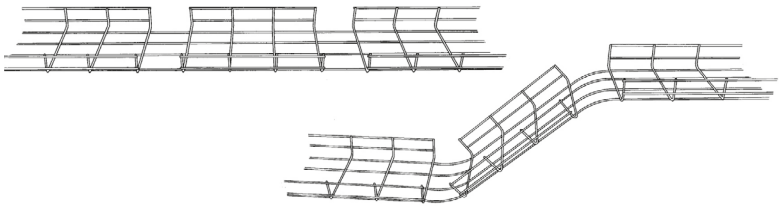


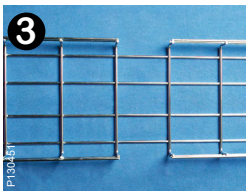


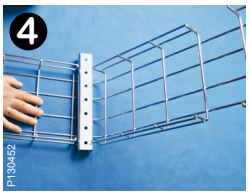


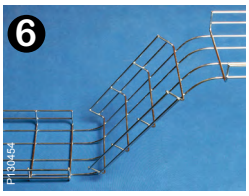


Raisers

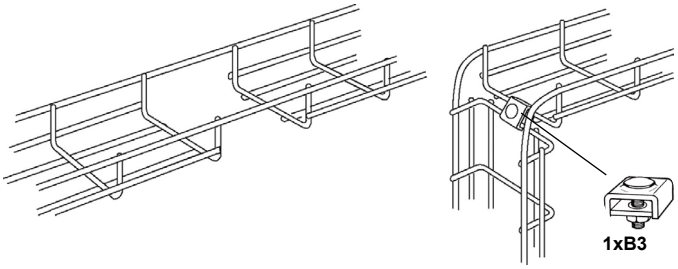


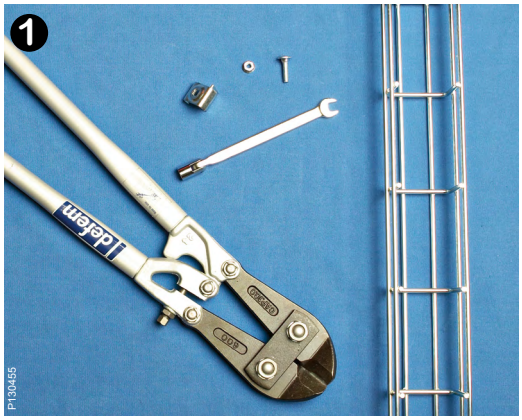


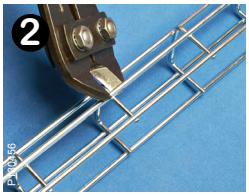


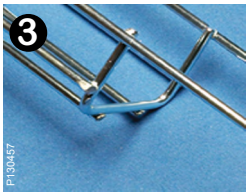


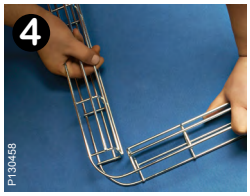
Making an external corner / B3

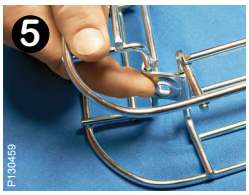


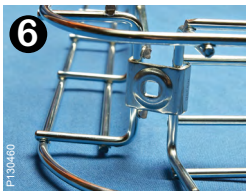


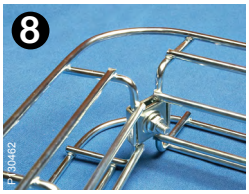


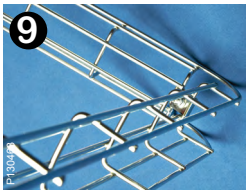












Defem CombiRack™
+ Defem mesh trays

= Complete installation

With Defem mesh trays and accessories for the routing of cables at several levels the installation is complete.

Defem CombiRack - for telecom, data and technical rooms

Defem CombiRack

An open rack solution with Defem CombiRack 19” provides a complete overview, access and easy maintenance of the entire installation - it is easy to build, expand and re-build.
Open racks provide extremely good ventilation as there is nothing to block the air. The Defem CombiRack saves floor space and can easily be adapted exactly to the present needs.

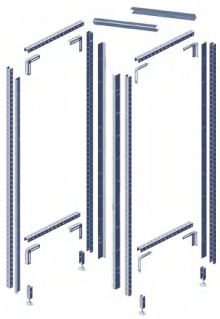
Minimum Material. Maximum Flexibility

The whole installation can be performed by one person. Once the first frame has been installed an extension requires only one new rack side and two U-bar beams for each new rack. This saves both material and labour costs.

Steel mesh trays
U-Bar support system

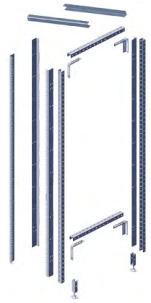
CombiRacks™ 19"

P132997

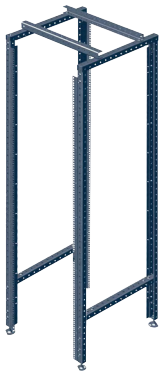
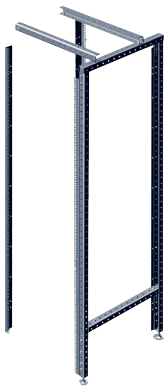


Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Construction kit No. 1				
Construction kit for self-assembly, CombiRack No 1. The first CombiRack is constructed with two rack sides, stabilized by two overhead U-bars. The CombiRack sides are assembled acc. to the description enclosed in the package with a 13 mm spanner B45. To facilitate mounting of the racks mounting frame B2590 should be used. Finally, the mounting profiles are screw-fastened. Material: Steel, electro-galvanized.				
CombiRack 19" 42U	600/195/2000	3840	7321677890682	**5002632**
CombiRack 19" 42U	800/195/2000	4010	7321677890705	**5002634**
CombiRack 19" 46U	600/195/2200	4160	7321677890781	**5002642**
CombiRack 19" 46U	800/195/2200	4330	7321677890804	**5002644**

P132996



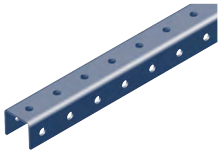
Add-on kit				
Construction kit for self-assembly, Add-on CombiRack. The next section is constructed with Add-on CombiRack, mounted on the first rack by two overhead U-bars. Assembled acc. to the description enclosed in the package with a 13 mm spanner B45. To facilitate mounting of the racks mounting frame B2590 should be used. Finally, the mounting profiles are screw-fastened. Material: Steel, electro-galvanized.				
Add-on CombiRack 19" 42U	600/195/2000	2360	7321677890699	**5002633**
Add-on CombiRack 19" 42U	800/195/2000	2530	7321677890712	**5002635**
Add-on CombiRack 19" 46U	600/195/2200	2530	7321677890798	**5002643**
Add-on CombiRack 19" 46U	800/195/2200	2690	7321677890811	**5002645**

CombiRack No. 1	Add-on CombiRack	
		
A CombiRack kit gives a complete rack.	Use the Add-on rack for the next.	Continue by using further Add-on racks until the line corresponds to your wish!

Steel mesh trays
U-Bar support system

U-Bar

B224803



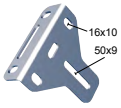
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
U-bar B60				
U-bar to be used for support of Defem Mesh Tray System and assembly of CombiRack frames. Distance between hole centres: 40 mm, hole Ø 8.5 mm. Material: Steel, electro-galvanized.				
B60	35/40/400	90	7321677889921	**5002450**
B60	35/40/480	110	7321677889938	**5002451**
B60	35/40/520	120	3606480518591	**5002454**
B60	35/40/600	140	3606480518607	**5002455**
B60	35/40/720	160	7321677889945	**5002452**
B60	35/40/800	180	3606480518614	**5002456**
B60	35/40/920	200	3606480518621	**5002457**
B60	35/40/1000	220	3606480518638	**5002458**
B60	35/40/1920	420	7321677889952	**5002453**
B60	35/40/2120	480	3606480518645	**5002459**
B60	35/40/2876	620	7321677888429	**1149400**

Fittings

B224804

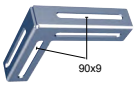
Joining fitting B61				
Fitting to be used for the joining of U-bars. Package of 6 pcs. Material: Steel, electro-galvanized.				
B61	30/36/235	20	7332227014014	**1149401**

B224809



Angled fitting B62				
Angled fitting to be used for the mounting of U-bars. Package of 6 pcs. Material: Steel, electro-galvanized.				
B62	35/101/110	20	7321677888443	**1149402**

B224812



Corner fitting B65				
Corner fitting to be used for the mounting of U-bars and the assembly of CombiRack. Package of 6 pcs. Material: Steel, electro-galvanized.				
B65	30/130/130	20	7321677888498	**1149407**

B224810

Adjustable foot B63				
Adjustable foot for U-bars. With ball joint that compensates for uneven floors. Hole diameter 8.5 mm. M8-thread on the back side. Distance between hole centres 40 mm. Adjustable height 70 mm. Package of 6 pcs. Material: Steel, electro-galvanized.				
B63	44/44/104	30	7321677888481	**1149406**

Cap, Bolt, Nuts

B224811

End cap B64				
Cap to be used for protection of exposed ends of the U-bar. Package of 10 pcs. Material: PE.				
B64	40/20/40	10	7321677888450	**1149403**

B224813

Flange bolt B66				
Tensi-Lock for gas-tight connections. Package of 50 pcs. Material: Steel, electro-galvanized.				
B66 M8x20	17/17/30	70	7321677888467	**1149404**

P14154

Flange nut B43				
Tensi-Lock for gas-tight connections. Package of 50 pcs. Material: Steel, electro-galvanized.				
B43 M8	17/17/8	40	7321677888474	**1149405**

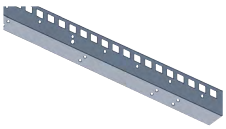
B225159

Cage nut set B2490				
Cage nut set including Torx bolt and nut. Package of 10 pcs. Material: Steel, electro-galvanized.				
B2490	10/10/16	10	7321677890040	**5002490**

Steel mesh trays
U-Bar support system

Accessories

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mounting profiles B2460 and B2461				
Profile to be used when mounting 19" frames. Fittings included. Material: Steel, electro-galvanized.				
B2460 19"	35/53/1876	250	7321677889969	**5002460**
B2461 19"	35/53/2060	270	7321677889976	**5002461**
Cable duct B2468				
Vertical cable duct for the organizing and routing of cables. Fittings included. Material: Steel, electro-galvanized.				
B2468/95	65/95/1400	115	7321677890019	**5002468**
B2468/140	65/140/1400	143	7321677890002	**5002467**
Cable duct B2469				
Horizontal cable duct 19" for the organizing and routing of cables. Fittings included. Material: Steel, electro-galvanized.				
B2469 19"	85/45/495	26	7321677890026	**5002469**
Adaptor B2580				
Telescopic adaptor to be used to compensate for the difference between equipment and rack depth. Adjustable 15-220 mm. Material: Steel, electro-galvanized.				
B2580 19"	44/33/176	30	7332227015806	**5002580**
Mounting frame B2590				
Mounting frame that simplifies the mounting of CombiRack frames. Material: Steel, pre-galvanized.				
B2590	588/35/600	175	7321677890187	**5002590**

B225200


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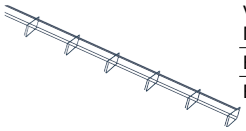

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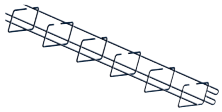


B225219

PTCSU-99

Compatible Actassi products

Telescopic tray 19", 2 U				
Tray with telescopic slides to be mounted to the front uprights of 19" racks. Delivered with the telescopic slides assembled. Heel of 5 mm. One tray per package. Maximum load 5 kg. For increased load, use the below support, maximum load 15 kg. Material: Sheet steel, dark grey RAL 7016.				
Telescopic tray	88/250/484	–	–	**NSYBT2U25PG**
Fixed tray 19", 2 U				
Tray for fixed mounting to the front or rear uprights of 19" racks. Heel of 5 mm. One tray per package. Maximum load 20 kg. For increased load, use the below support. Material: Sheet steel, dark grey RAL 7016.				
Fixed tray	88/250/484 88/400/484	–	–	**NSYBF2U25PG** **NSYBF2U40PG**
Support 19"				
Support 19" to be used for the above trays to increase the loading capacity. Fixed to the front or rear uprights of 19" racks. Two supports per package. Length 140 mm. Material: Steel.				
Support for trays	80/55/140	–	–	**NSYGF140OPB**

B228297

B228296

B227118

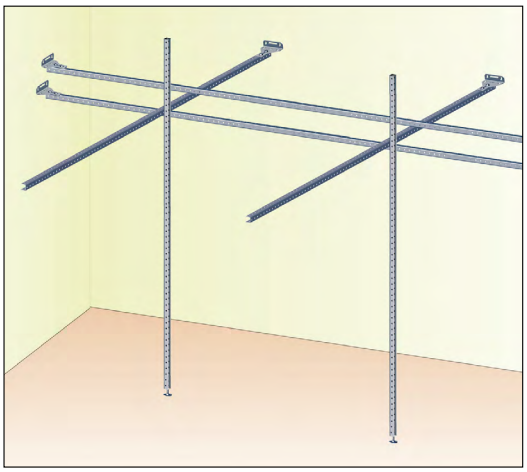
Tools

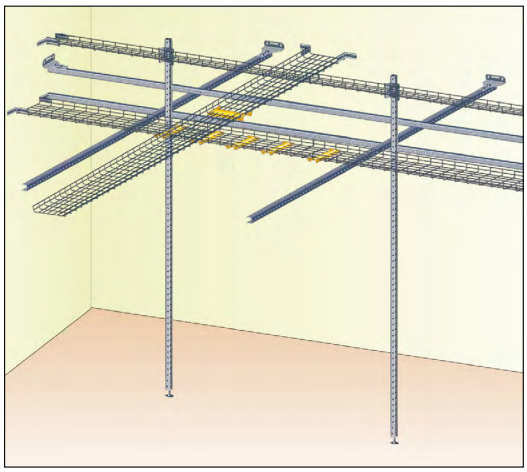
Spanners B45/10 and B45/13				
Combination spanner, open end/flex head end. Suitable for Defem U-Bars and Mesh trays. Material: Steel, electro-galvanized.				
B45/10	15/15/180	7	7332227222006	**1622200**
B45/13	18/18/200	8	3606480518553	**1622221**

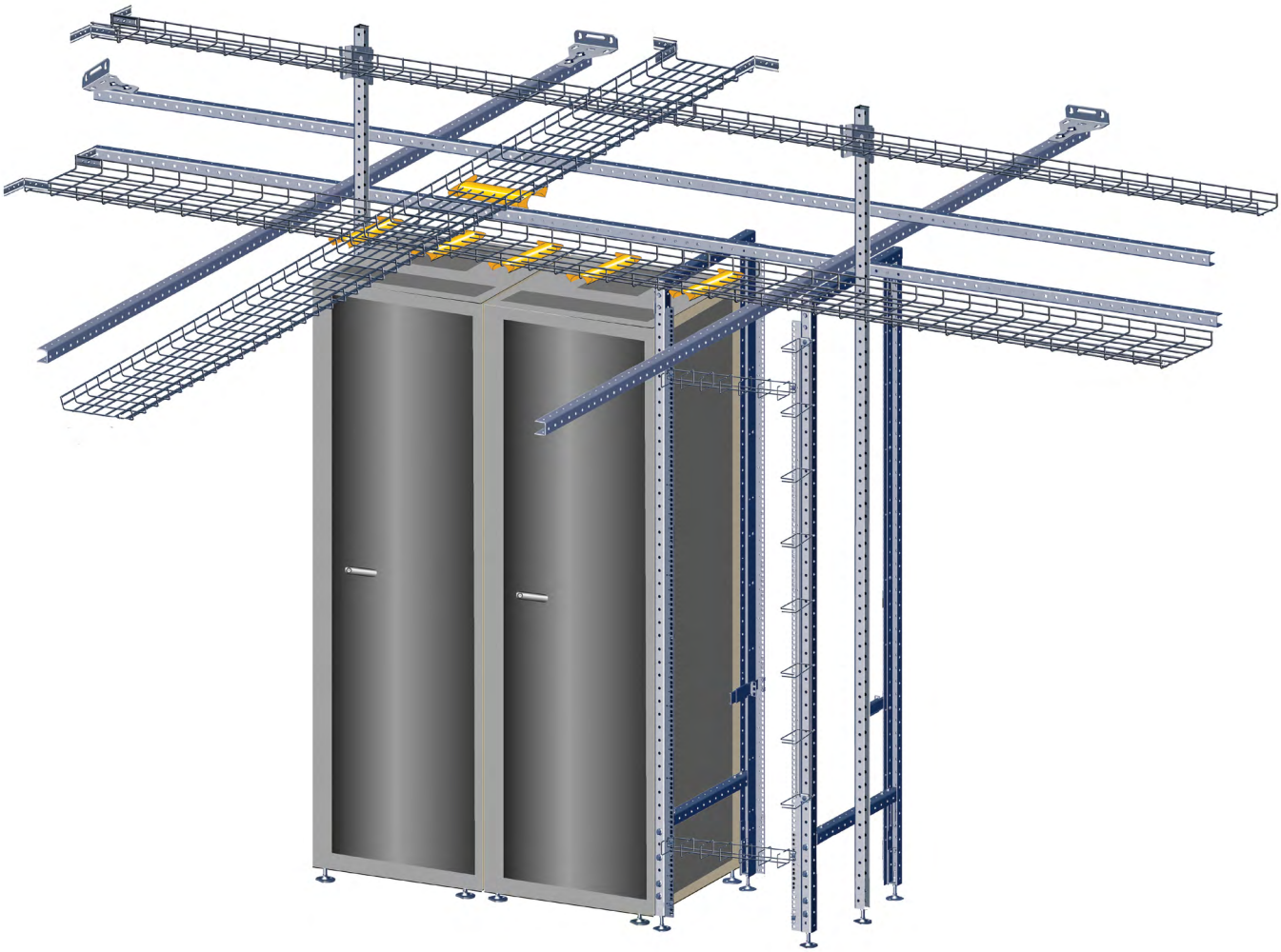
B224769

CombiRacks™ 19”
U-Bar support system

- Simple installation
- Simple maintenance
- Full visibility and access
- Continuous Bonding

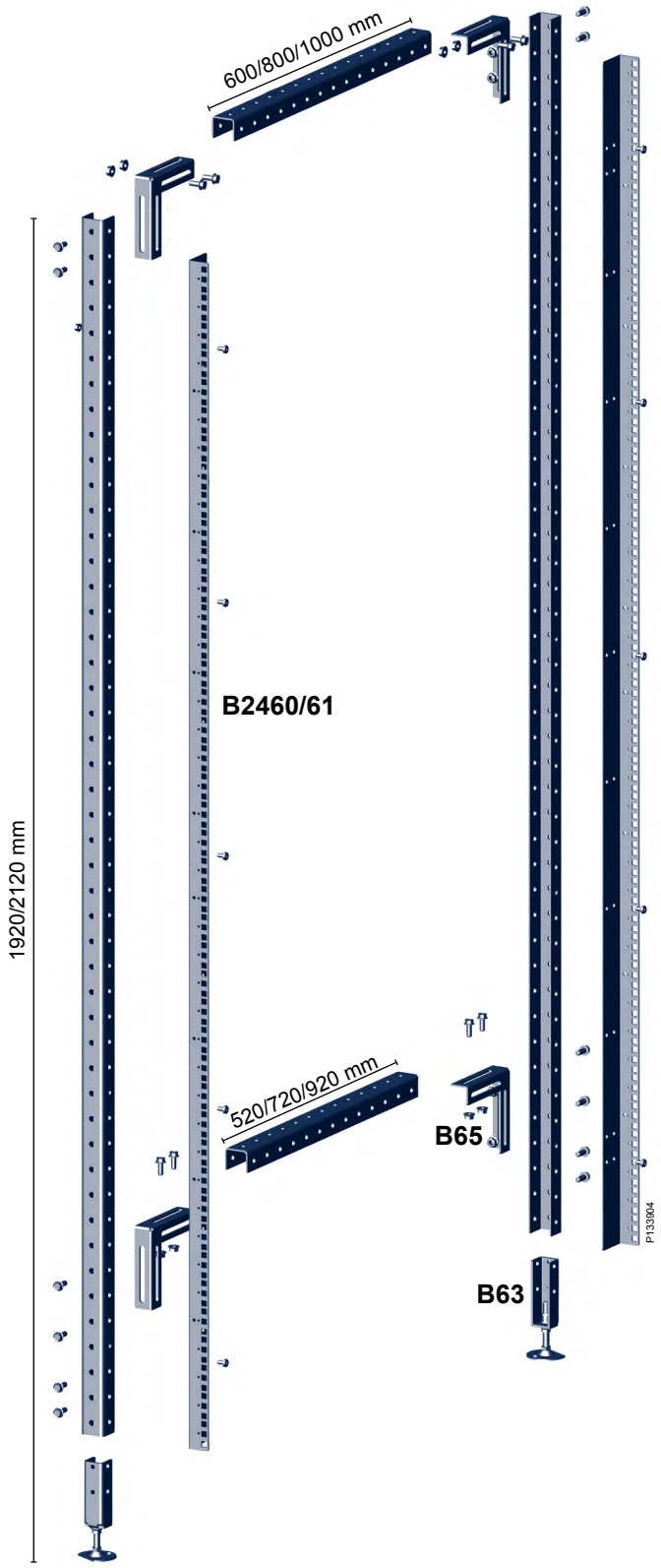


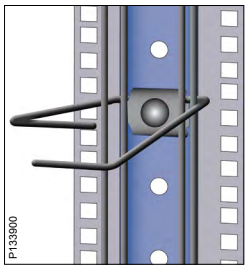




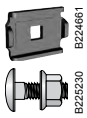
With the Level 1 U-bar at 2120 mm, this allows for multiple choices of cabinets or open CombiRack frames.

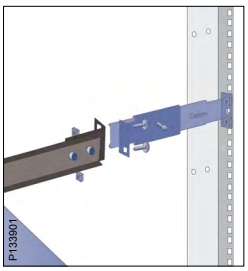
The use of U-profile



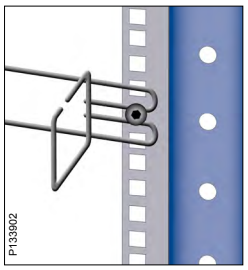


B2468
+ 2xB2
+ 2xB13

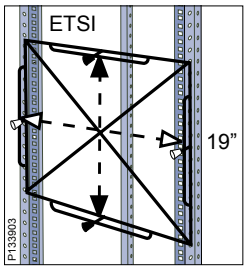




B2580
+ 8xB2490

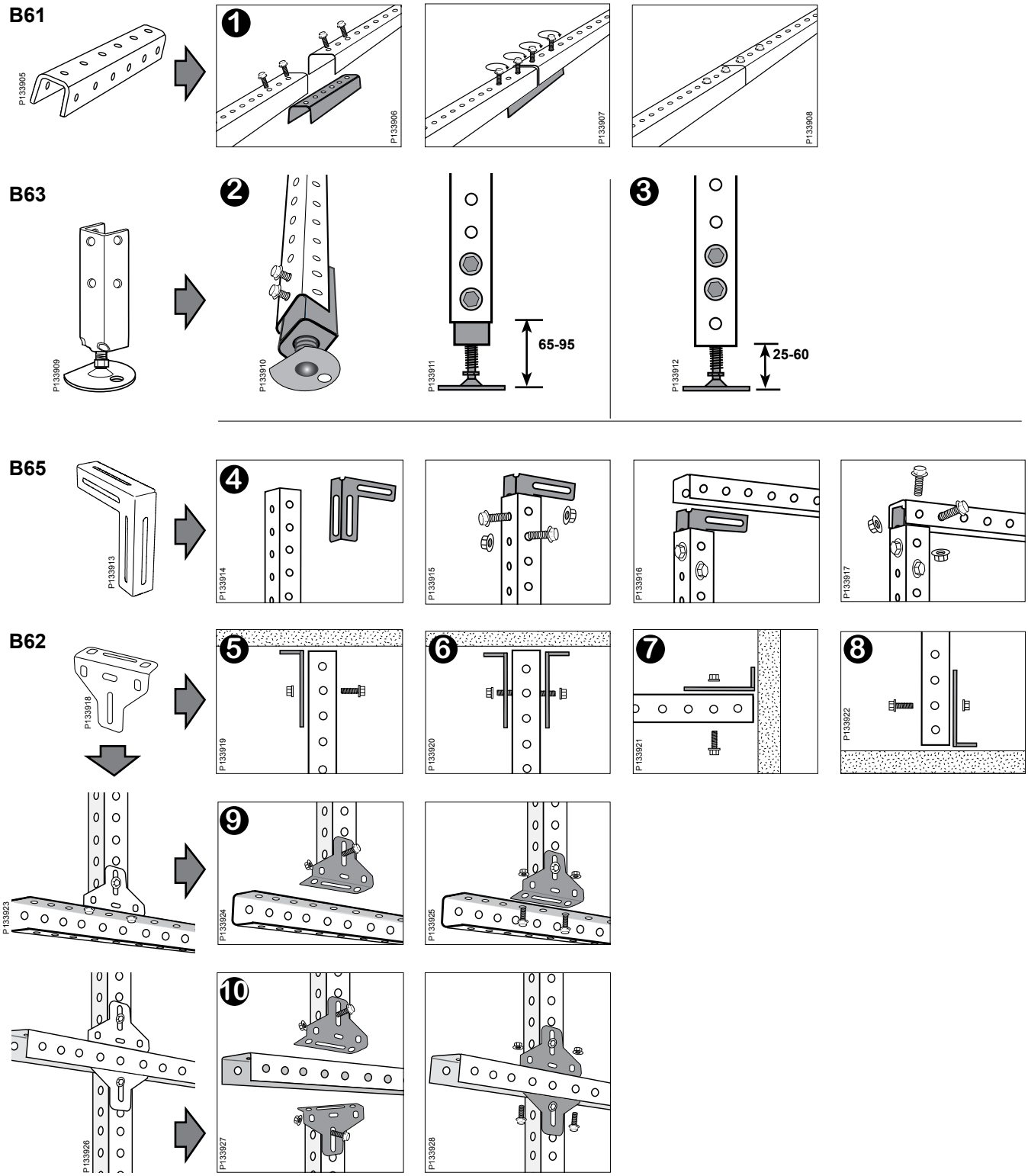


B2469
+ 2xB2490



B2590

The use of U-profile



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