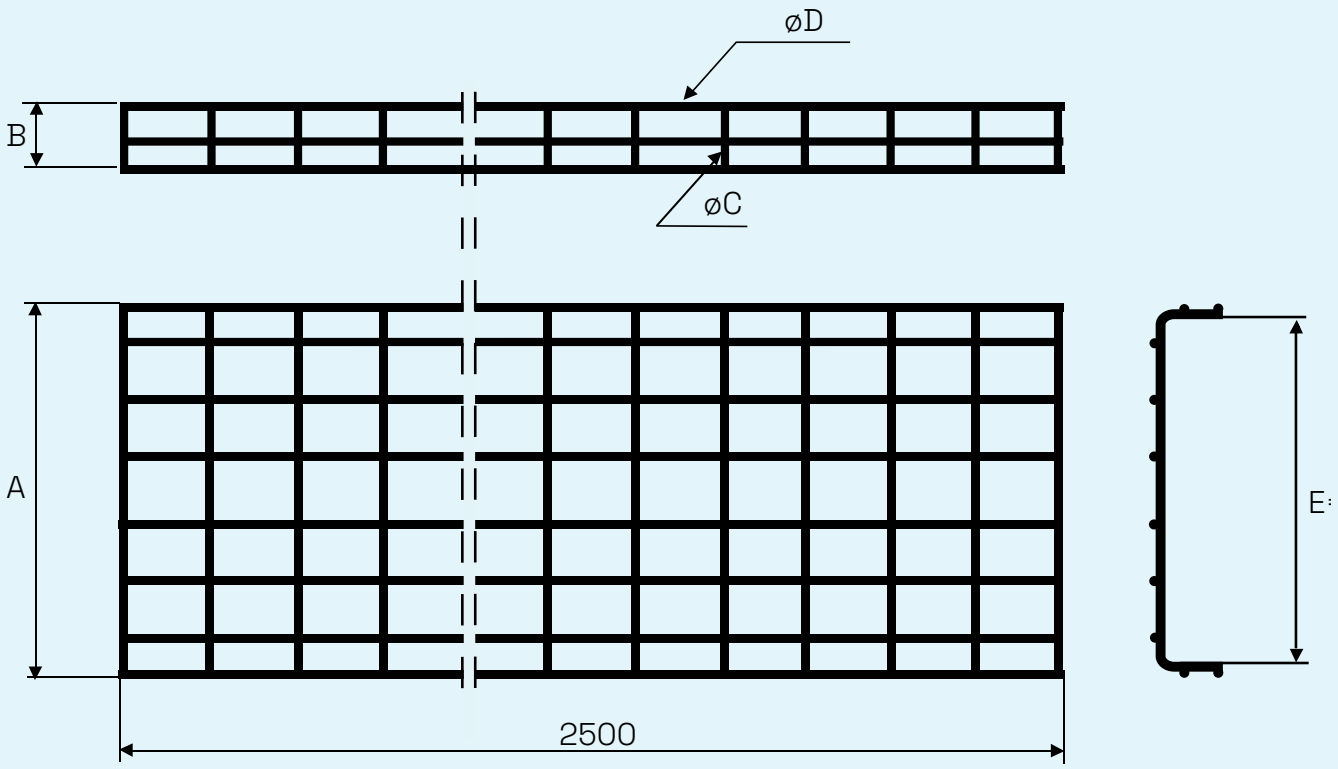
wibe group

DEFEM MESH TRAYS CATALOGUE 2025

The spine of an exceptional infrastructure



defem
powered by wibe group

Creating clever, uplifting solutions, together with our clients for almost 100 years. Reimagined in June 2021 – for the coming century.

Looking ahead to the next century, we are reinventing ourselves – as Wibe Group – bringing together four of the world's leading cable management brands as a new independent company to offer a complete, innovative range of cable ladders, cable trays and mesh trays – for applications ranging from commercial buildings to extreme demanding industrial environments.

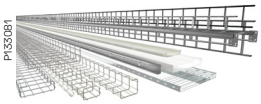
wibe® group

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

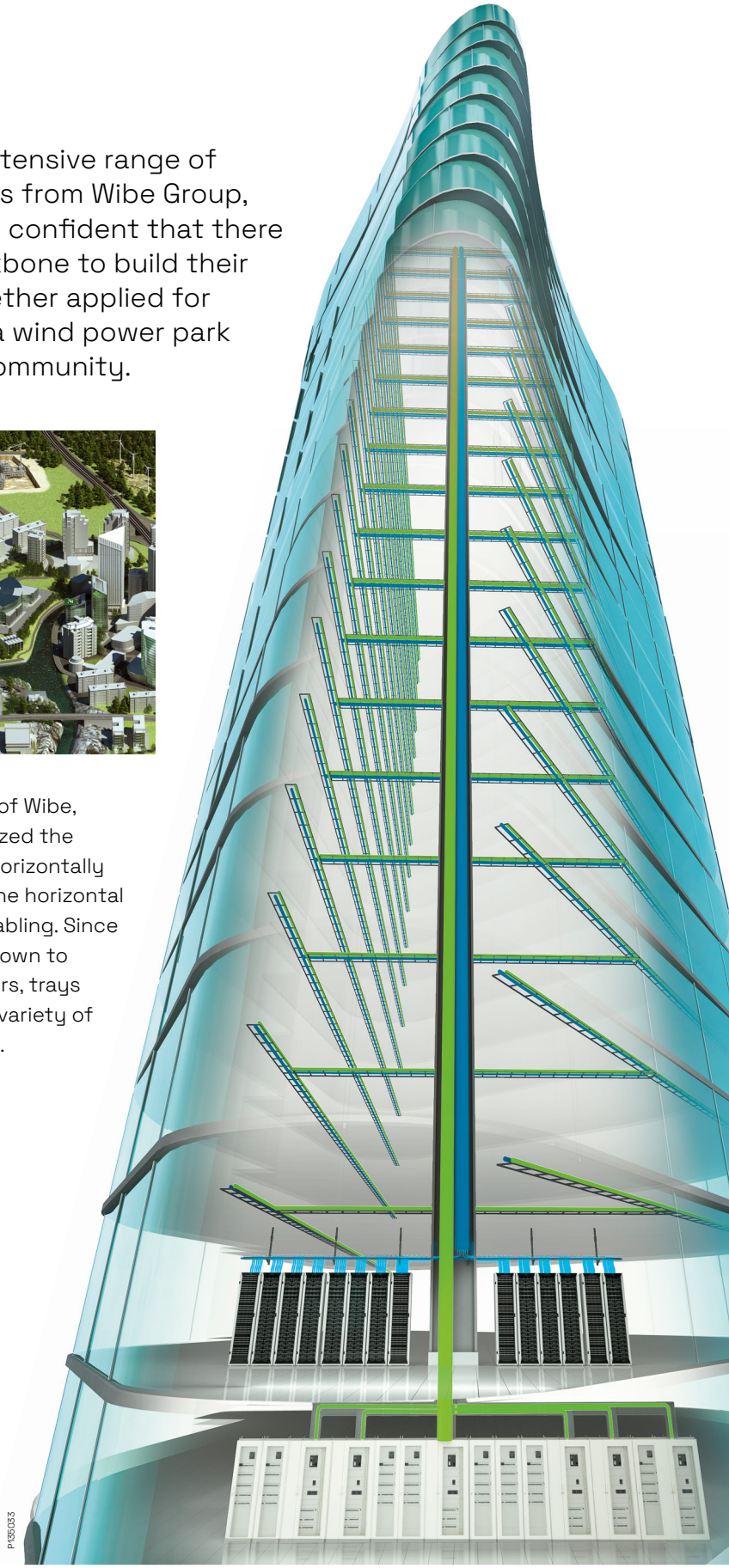
With a powerful and extensive range of Cable Support products from Wibe Group, our customers can feel confident that there is always a strong backbone to build their solutions around – whether applied for a huge data centre or a wind power park supporting an entire community.

Cable Support is an essential ingredient in the total Wibe Group 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.



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.



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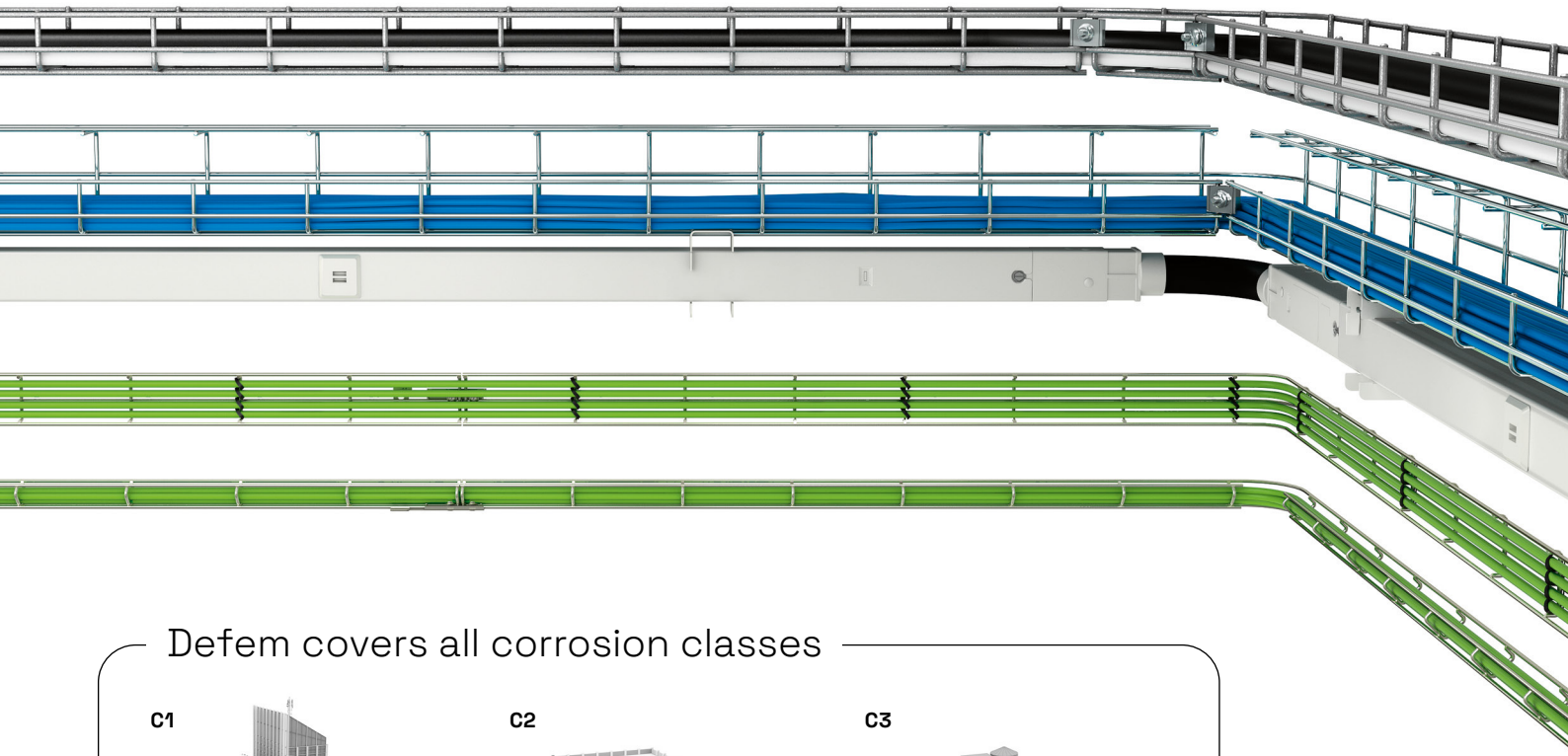
Defem Mesh Trays
Every construction needs a strong backbone

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.

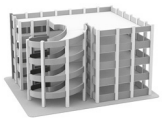


Defem covers all corrosion classes

C1

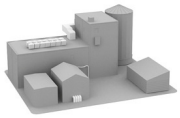
Electro-galvanized
For heated facilities with low ex-posure to corrosion, such as hotels and offices.

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.

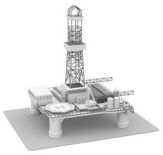
C4

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

C5

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.

CX



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.

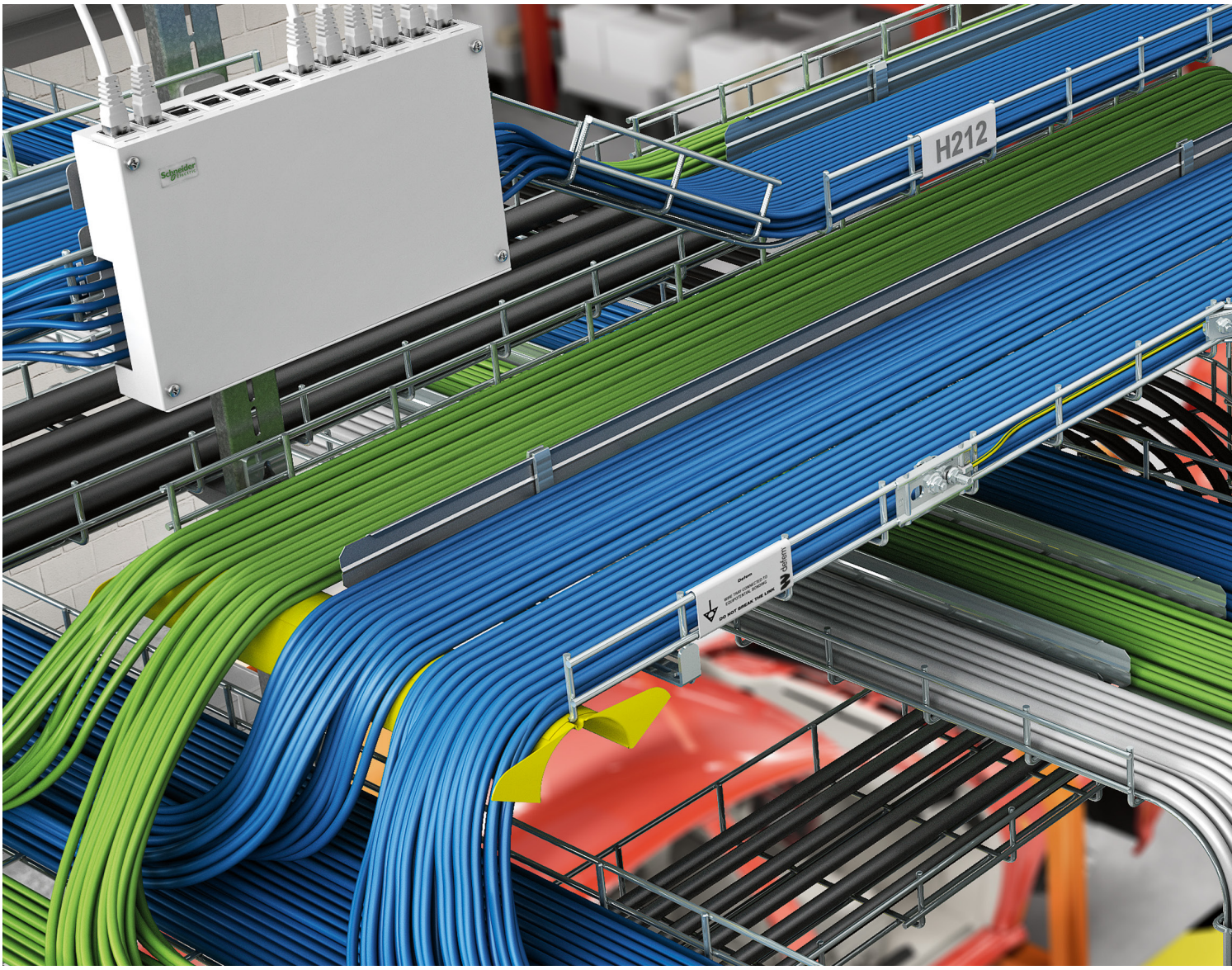
Defem special purpose Mesh Trays 15

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

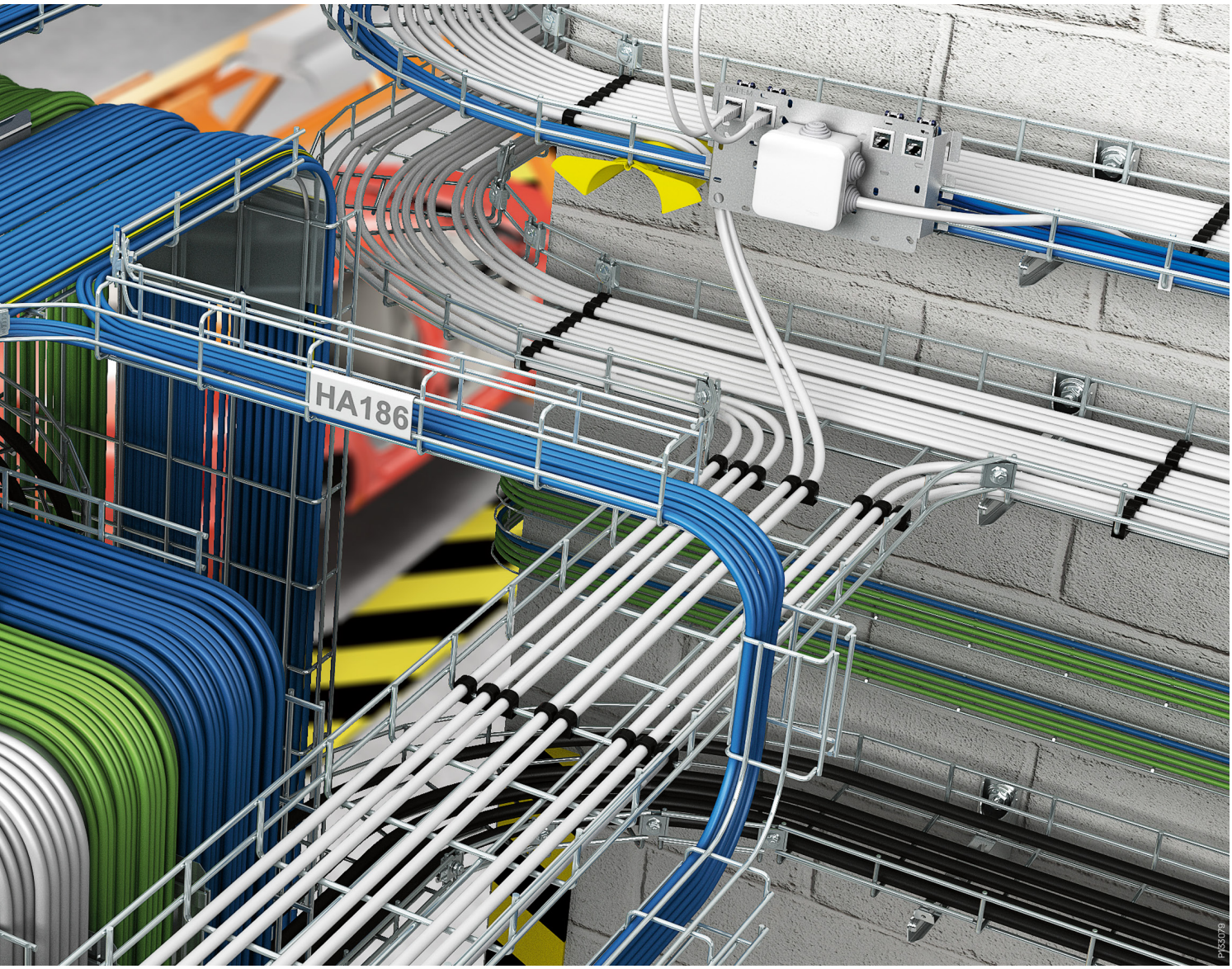


Step up to impressive capacity and endless opportunities

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

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.

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.

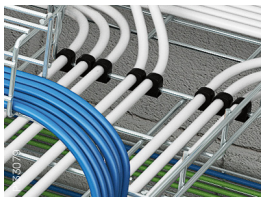


Clear marking
Just snap the clip onto the two side-wires of the mesh tray.

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.

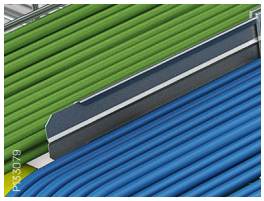
No need to order accessories like bends, reducers and raisers. Form them easily on site from length material.

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.

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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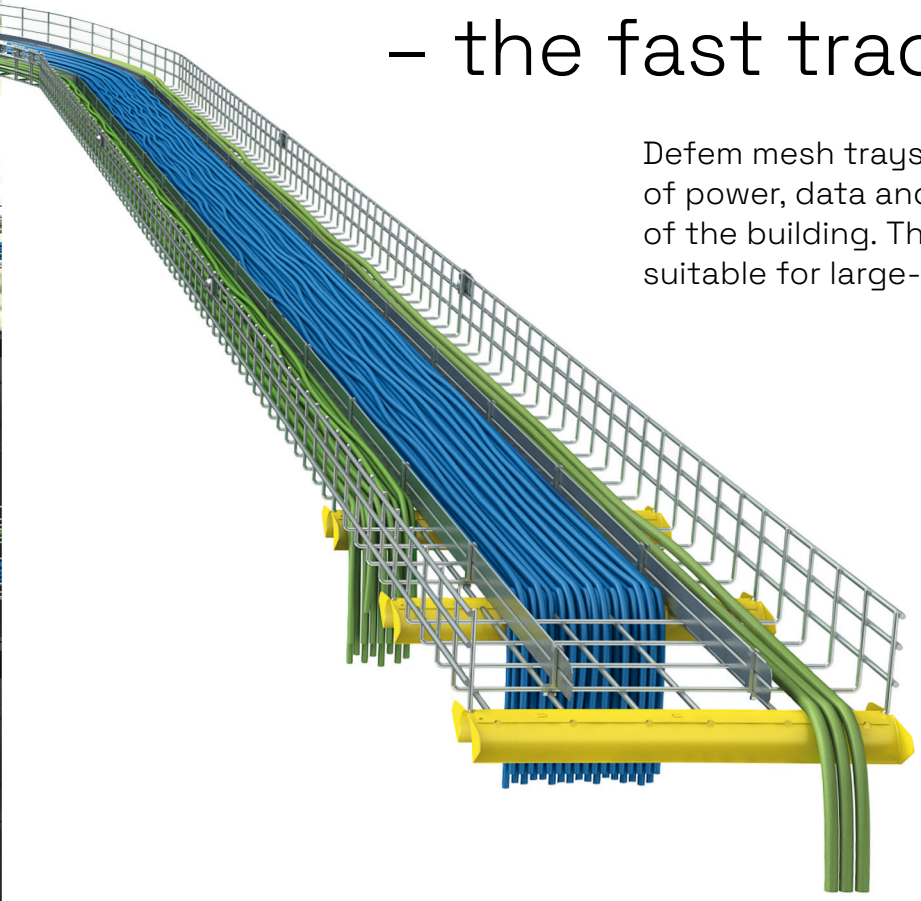
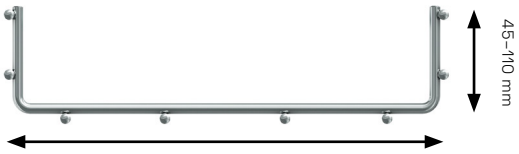
Defem standard Mesh Trays – the fast track to reliability



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

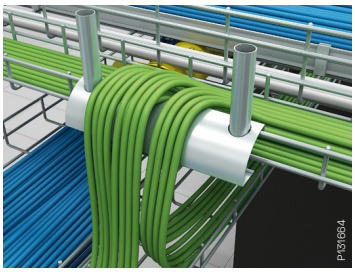


Product features

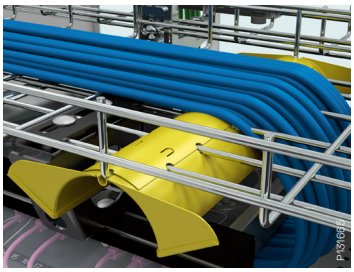
Well-rounded edges, along with smooth and strong welding points protect hands and cables from being damaged by sharp edges.

The open structure allows airflow and prevents cables from overheating.

Zone cabling
Fittings for zone cabling are part of the Wibe Group 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.

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.

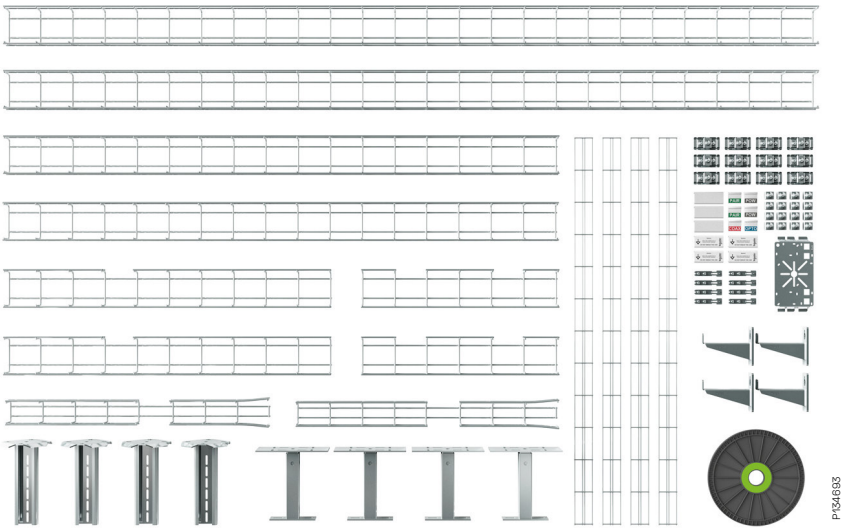
In quite a few projects there is a repeated need for mesh trays of a special design. We can deliver the mesh trays specially adapted to these needs, as pre-cut parts, or as complete, custom-made kit solutions.

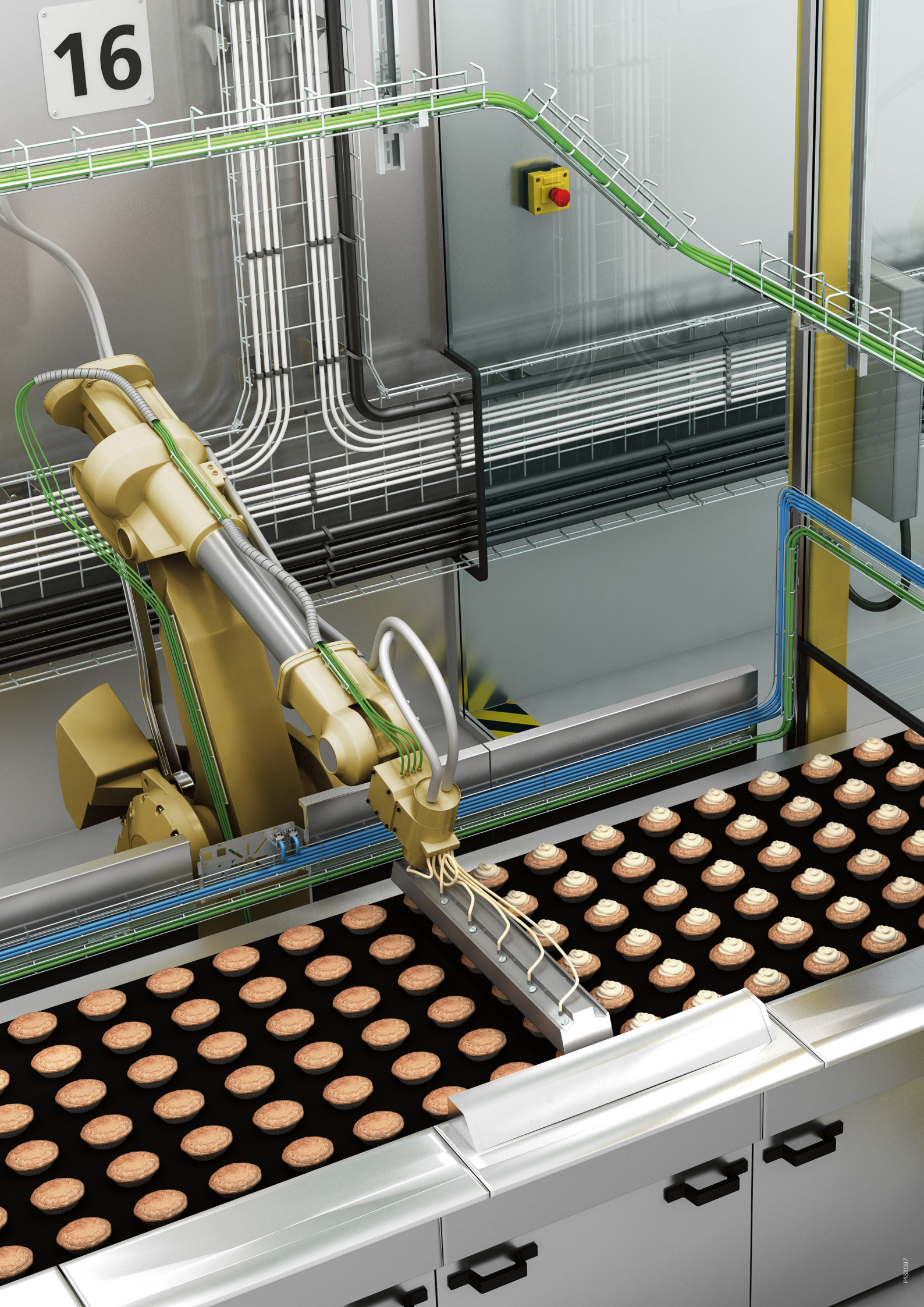
Custom-making is not only about having the mesh tray cut in a certain manner. It is also about optimizing both performance and cost-efficiency to the special conditions that may occur, understanding the customer's need.

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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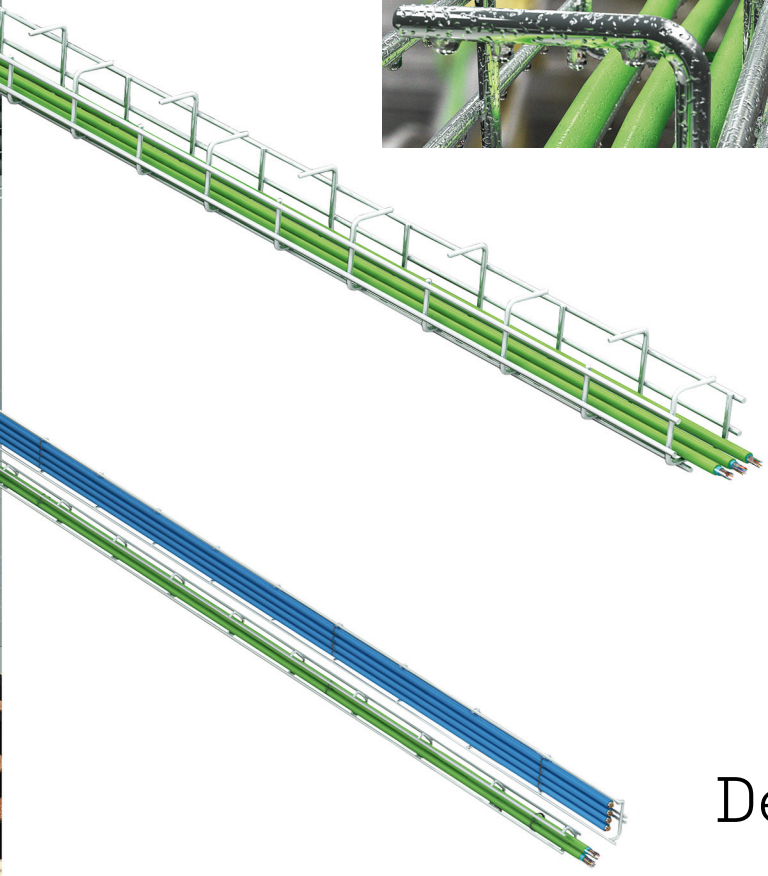
Defem special purpose Mesh Trays – when hygiene is key



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.

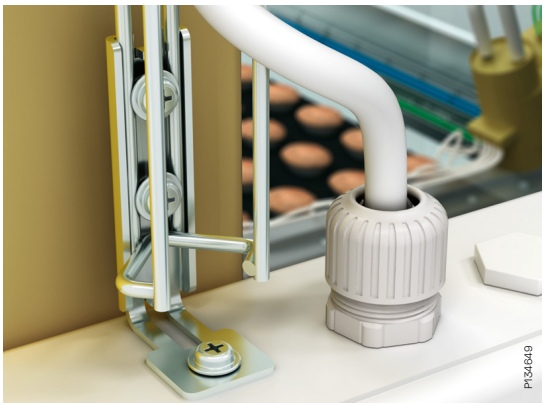
Dimensions

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

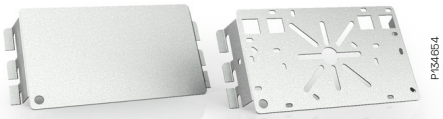
Accessories and benefits

Marking clip, Equipotential Bonding

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

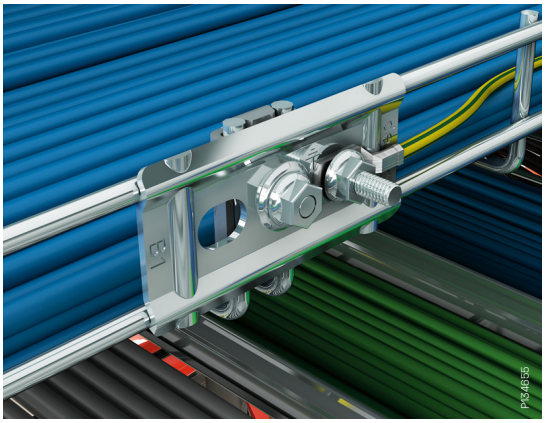
Accessory holder

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.



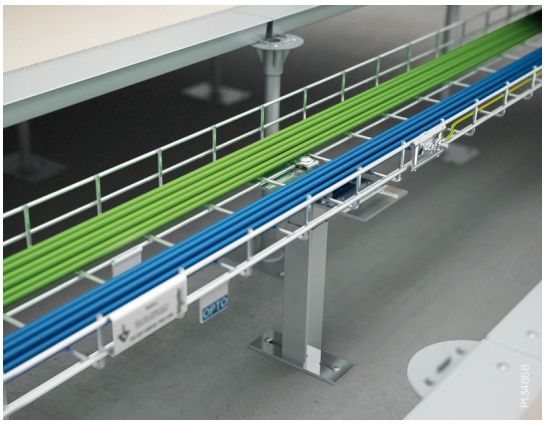
Fitting

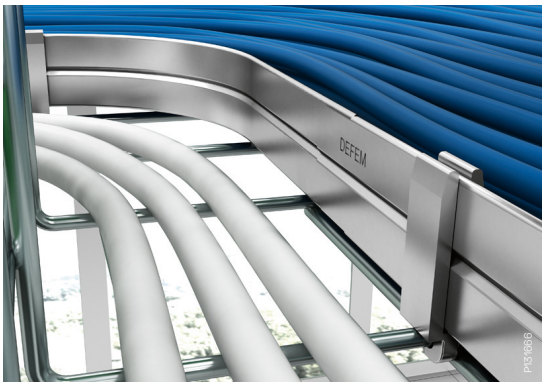
Fittings for joining mesh trays. Can also be used as wall brackets or fastened onto a machine or similar. Mounted over the centre wires, it can also serve as a carrier of lighting fittings.



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.

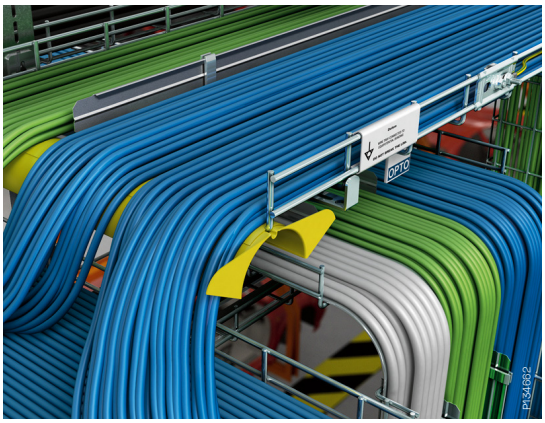




Separating plates

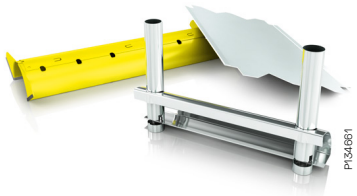
The plane separation plate can be mounted continuously both on length material and in bends with the support of plate holders. No tools are needed. Easy to bend by hand.

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



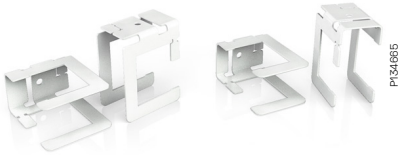
Bend plate, Radius limiter, Side radius limiter

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.



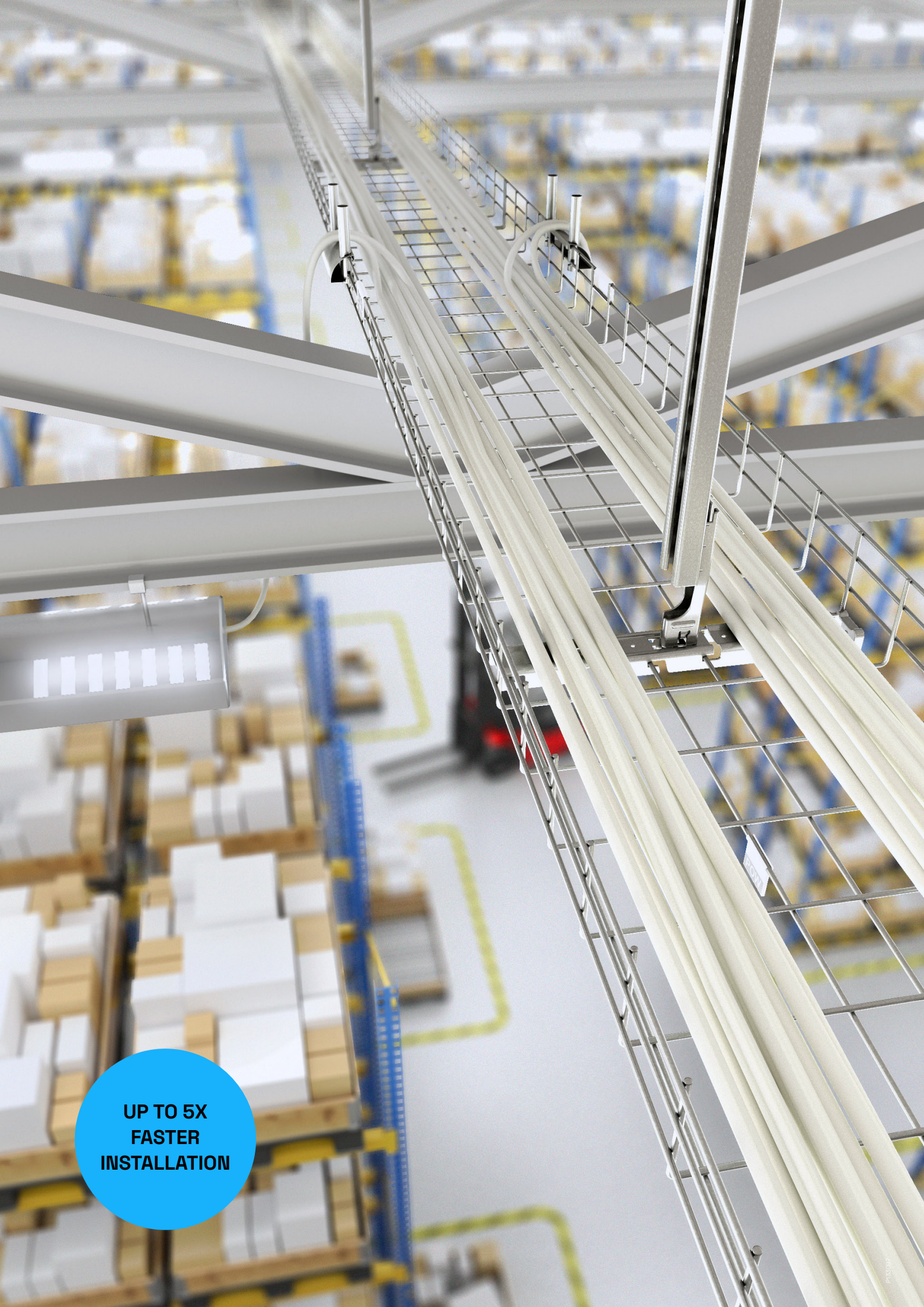
Brackets for Canalis KBA and KBB busbars

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.


UP TO 5X
FASTER
INSTALLATION

Wibe CLX³ Smart. Lean. Simple.

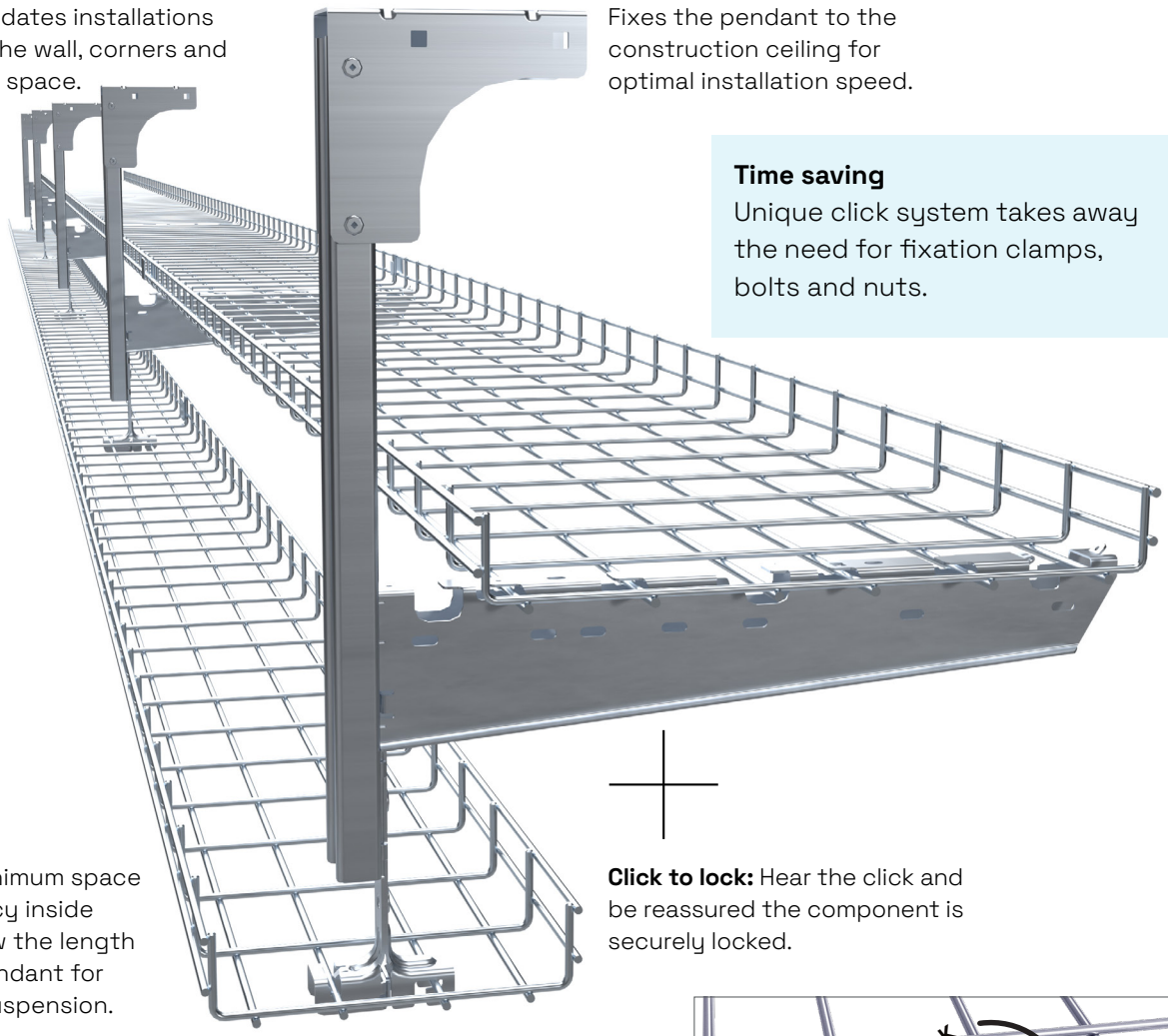
CLX³ is developed to set new standards for the most efficient commercial building installations.

What makes CLX³ such a game changer?

- It's an innovative system optimized for commercial buildings and offices.
- It's built to be highly efficient to save time, costs and resources.
- It's developed be modular and multi-functional.
- It is light and at the same time very robust.

Flexible: The pendant accommodates installations close to the wall, corners and any other space.

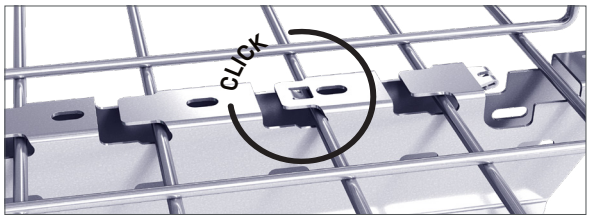
Single bolt ceiling plate: Fixes the pendant to the construction ceiling for optimal installation speed.



Time saving
Unique click system takes away the need for fixation clamps, bolts and nuts.

Sleek: Minimum space occupancy inside and below the length of the pendant for central suspension.

Click to lock: Hear the click and be reassured the component is securely locked.



Secure locking feature prevents unclicking.

Defem mesh trays comply to E30, E60 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 to protect life and property 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 DIN 4102-12 for fire resistance E30, E60 and E90

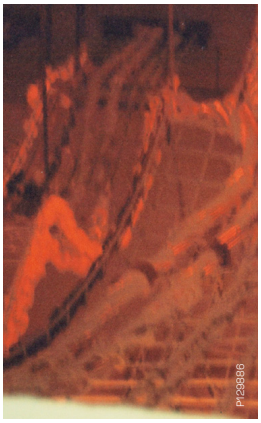
Defem is the only mesh tray approved by Det Norske Veritas (DNV) for offshore and ship-yard use.

About the test

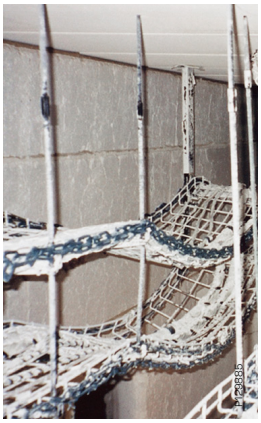
Stands 90 minutes in a temperature of up to 1000°C.

A large amount of the Defem products have excellent fire resistance properties. You can feel confident when installing Defem in environments requiring both, E60 and E90 certification.

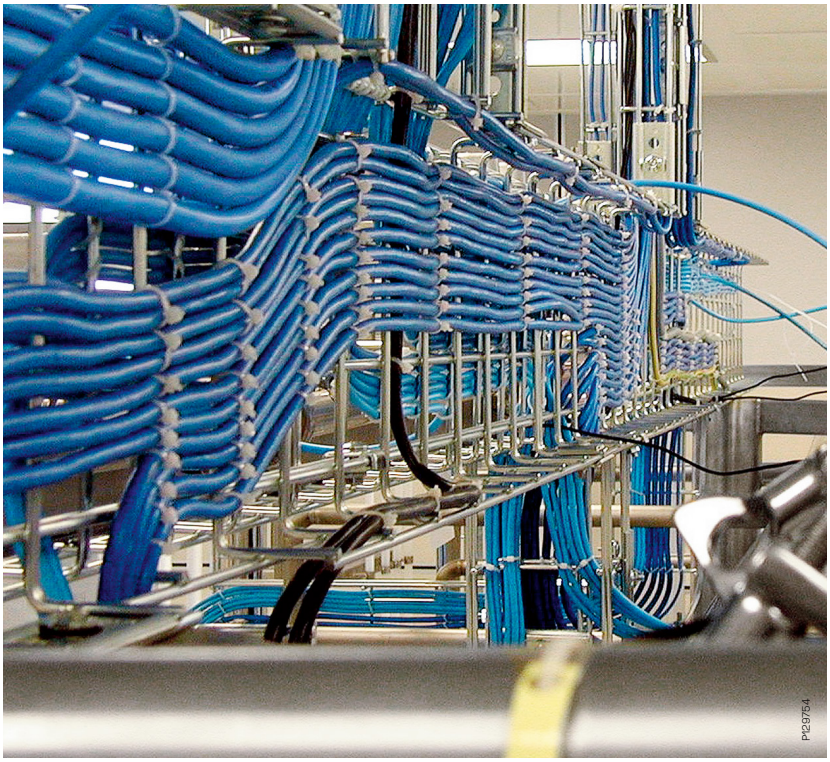
The Defem products exceeded the fire resistance test, qualifying for the highest level of resistance proposed by this standard – the E90. The trays with accessories and Dätwyler Pyrofil KERAM E30, E60 and E90 cables were tested for 90 minutes in a temperature of up to 1000°C without collapsing, with the electrical performance still remaining intact.



During the test
Defem system with Dätwyler Pyrofil KERAM E30, E60 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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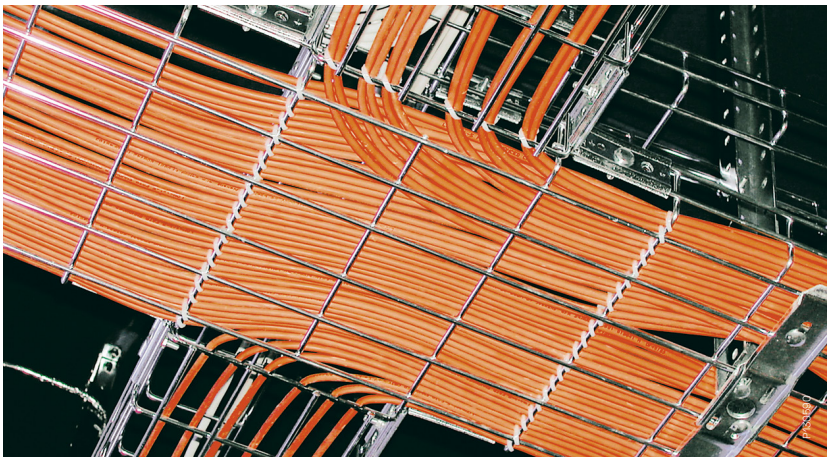
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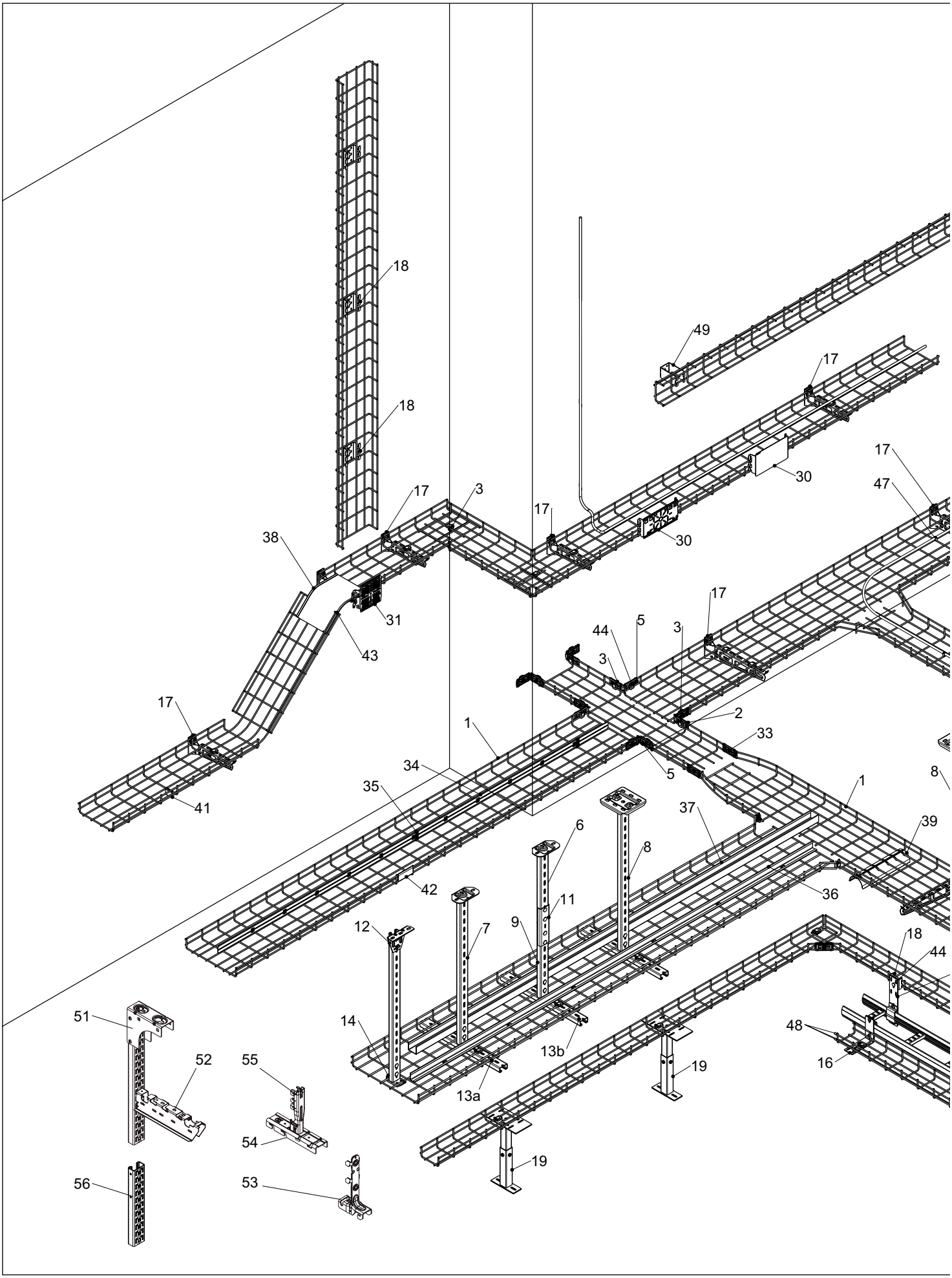
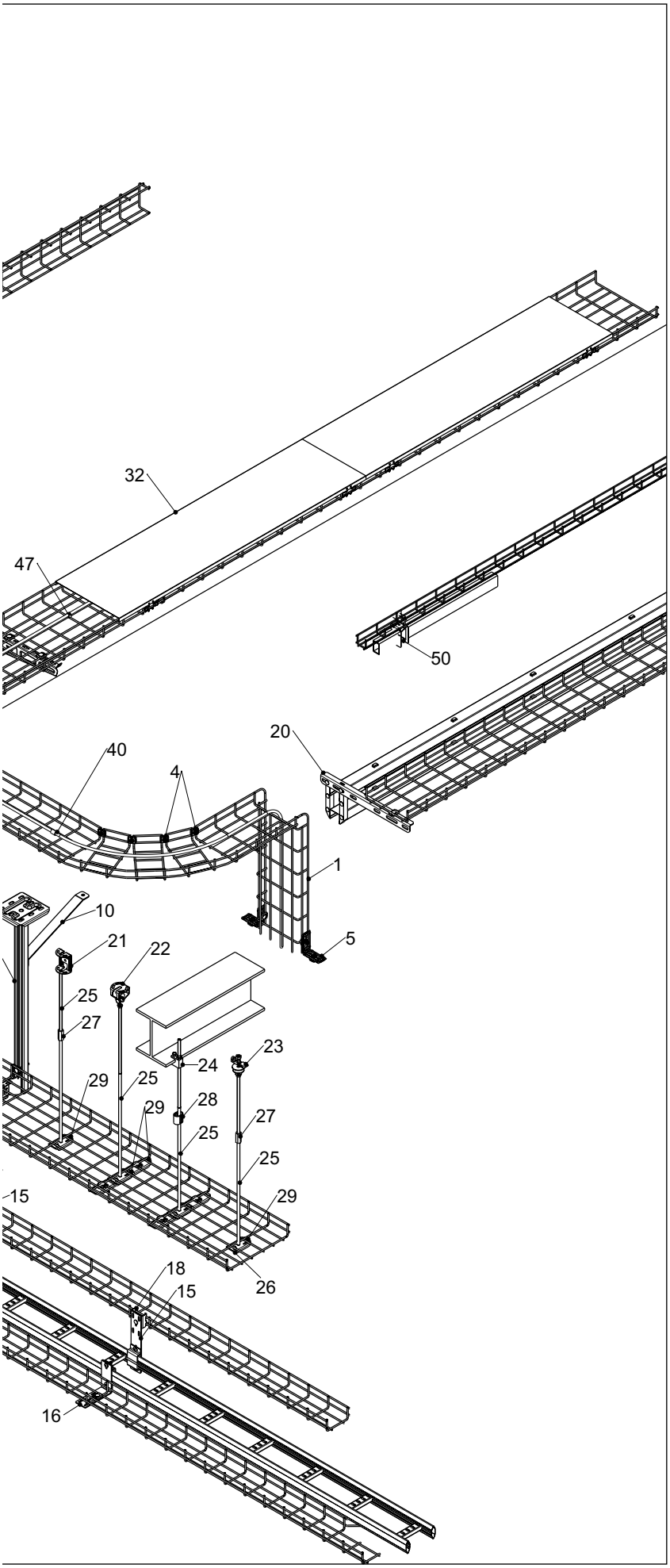
Installation summary





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
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32 Plate Cover B7:2 + Spring clip B8:2
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36 Separating Plate B26
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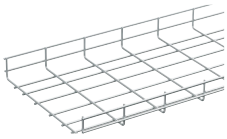
50 Fixing for Canalis KBA and KBB
51 CLX³ Pendant 24/48
52 CLX³ Cantilever arm
53 CLX³ Central suspension bracket, Defem mesh tray 120-220
54 CLX³ Central suspension bracket, Defem mesh tray 320 to 422
55 CLX³ Central suspension adapter
56 CLX³ Rail 24/48
57 CLX³ Wall bracket

Steel mesh trays

Electro-galvanized/Pre-galvanized - Corrosion class C1

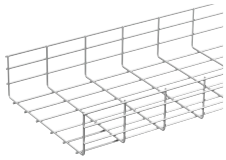
Mesh trays, electro-galvanized

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**

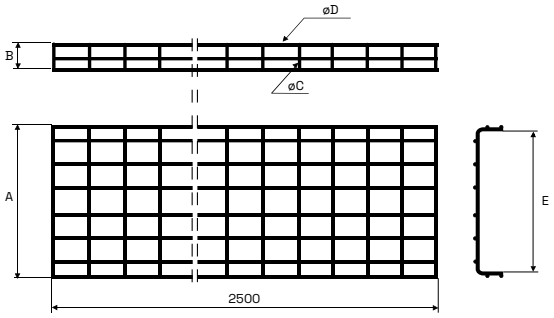
P140865



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**

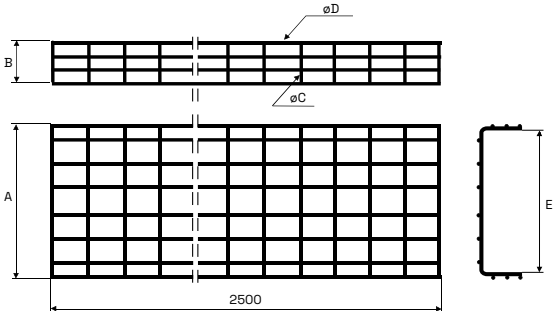
Dimension table

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**



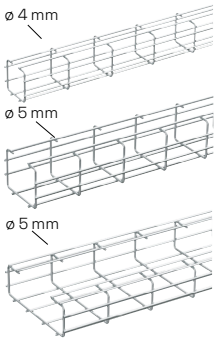
Mesh tray 120/110	120	110	5	5	100	**1149104**
Mesh tray 220/110	220	110	5	5	200	**1149105**
Mesh tray 320/110	320	110	5	5	300	**1149106**
Mesh tray 422/110	422	110	5	6	400	**1149107**
Mesh tray 522/110	522	110	5	6	500	**1149108**
Mesh tray 622/110	622	110	5	6	600	**1149109**

Steel mesh trays

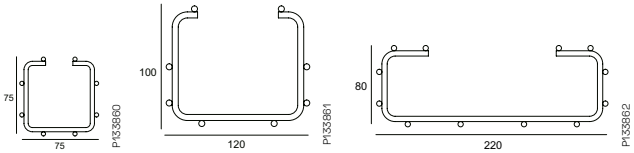
Electro-galvanized/Pre-galvanized - Corrosion class C1

C and G-Mesh trays

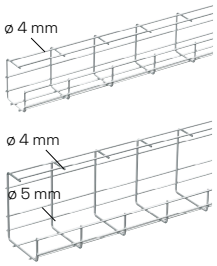
P140869 P140870 P140871



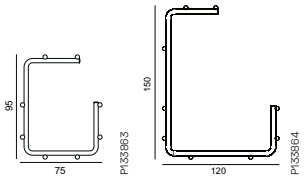
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
C-mesh trays				
C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed. Material: Steel, electro-galvanized.				
75x75	75/75/2500	258	7332227011327	**1149132**
120x100	100/120/2500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

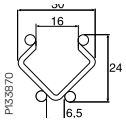


Mini Mesh trays

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**

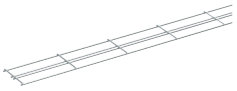
P140954

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.

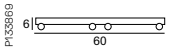
B30-U	15/46/2000	50	7332227011259	**1149125**

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	30/18/18	1,1	7332227011846	**1149184**

Brackets

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

Cantilever arms

P339932	**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**
T-bolt single	**T-bolt 26U 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 26U M8x30	50/44/18	6.8	3606489579777	**CSU795595**

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

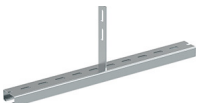
Steel mesh trays

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.
	Ceiling fitting, universal B46				
P140974	Universal ceiling fitting intended for mounting of Threaded rod B41 onto ceiling. Material: Steel, electro-galvanized.				
	B46	75/30/60	9	7332227014748	**1149474**
	Ceiling fitting, flexible B47				
P140975	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**
	Ceiling clamp B48				
P140976	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**
	Screw set 22S				
P140151	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

	Support hook D35/120-220				
P140977	Support hook intended for 120-220 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/120-220	145/48/94	19	3606480911576	**CSU795344**
	Support hook D35/320-422				
P140978	Reinforced support hook intended for 320-422 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/320-422	161/48/310	37	7332227011204	**1149120**
	Support hook D35/422-622				
P122501 	Reinforced support hook intended for 422-622 mm mesh trays. Material: Steel, electro-galvanized.				
	D35/522-622	161/48/490	91	3606480911590	**CSU795346**
	Support hook B39				
	Support hook for mounting onto a Threaded rod. For tray widths 120-220 and 320-422 respectively. Material: Steel, electro-galvanized.				
P140980	B39/120-220	25/50/95	8	7332227011174	**1149117**
P140981	B39/320-422	25/50/290	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.
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**
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**
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**
Beam clamp B49				
Beam clamp intended for mounting onto a beam. Material: Steel, electro-galvanized.				
B49	60/43/20	14	7332227014717	**1149471**

P140154

P140155

P140094

P133793

Accessory holders

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, pre-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.				
B5 with holes	107/24/240	43	7332227011587	**1149158**
B5 without holes	107/24/240	46	7332227011686	**1149168**

P140982

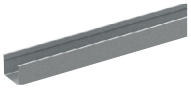
P140983

P140984

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.
PTCLC-344	**Plate cover B7:2**				
	Mesh tray plate cover, for tray widths acc. to the type designation. Note! Requires B8:2 spring cover clip to fix the cover on the mesh tray. It must be ordered separately. Cover length 1250 mm. Material: Steel, Zinc+.				
	B7:2/75	16/80/1250	70	7321677960385	**CSU796038**
	B7:2/120	16/125/1250	110	7321677960392	**CSU796039**
	B7:2/220	16/226/1250	175	7321677960408	**CSU796040**
	B7:2/320	16/326/1250	240	7321677960415	**CSU796041**
	B7:2/422	16/426/1250	310	7321677960422	**CSU796042**
PTCLC-348	**Spring cover clip B8:2**				
	Spring wire clip for fixing of B7:2 covers to the DEFEM mesh trays. Allows easy clicking and unclicking. Minimum 4 clips per cover is recommended for indoor use, min 6 clips per cover for outdoor use. Packed in bag of 20 pcs. Material: Stainless 316L				
	B8:2	27/25/23	0,3	7321677959884	**CSU795988**
P140992	**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**
P140993	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**
P140994	**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**
P140996 	**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**
P140021	**Combi-fittings B21**				
	Combi-fitting to be mounted onto cable ladders.Material: Steel, electro-galvanized.				
	B21	250/50/20	44	7332227011594	**1149159**
P140022	B21 90 degrees	120/50/135	44	7332227011914	**1149191**
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: Steel, electro-galvanized.				
	B33	215/100/220	169	7332227011358	**1149135**
P140999	**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**
P137609 P137608	**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**
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**

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

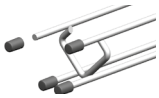
End plug to be mounted on Pendant 2F/2FB and on Pendant/fixing rail 24/48 respectively, see below. Intended to provide protection against personal injuries and to make the the ends of the profiles more conspicuous.
Material: PP/TPE, orange.

P140069

28E for Vertical piece 2F, pendant fixing rail 24/48 and CLX³ 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.



P141001

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.

P141002

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.

P141003

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.

P141004

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.

B224734_1

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**

Steel mesh trays

Electro-galvanized/Pre-galvanized - Corrosion class C1

Accessories

P41006
P41005

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Radius limiter B67				
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. Material: Steel, pre-galvanized.				
B67/75	40/150/75	13	7332227014427	**1149442**
B67/120	40/150/115	18	7332227014434	**1149443**
B67/220	40/150/215	30	7332227014441	**1149444**
B67/320	40/150/315	42	7332227014458	**1149445**
B67/422	40/150/415	53	7332227014465	**1149446**
B67/522	40/150/515	65	7332227014472	**1149447**
B67/622	40/150/615	77	7332227014489	**1149448**

P49448

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**

P133791
P41014
P133792
P41015

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.				
B44	40/10/90	1	7332227014274	**1149427**
B44/Potentialutjämning, SE	40/10/90	1	7321677888566	**1149428**
B44/Equipotential Bonding, GB	40/10/90	1	7321677888573	**1149429**
B44/Potentialausgleich, DE	40/10/90	1	7321677888580	**1149430**

P41016
P41017
P41018
P41019
P41020

Identification tag B40				
Identification tag to be snapped onto mesh tray wires of Ø 5 mm.Package of 10 pcs. Material: ABS.				
B40/Opto	35/8/43	1	7332227014205	**1149420**
B40/Coax	35/8/43	1	7332227014212	**1149421**
B40/Pair	35/8/43	1	7332227014229	**1149422**
B40/Neutral	35/8/43	1	7332227014236	**1149423**
B40/Pow	35/8/43	1	7332227014243	**1149424**

Steel mesh trays

Electro-galvanized/Pre-galvanized - Corrosion class C1

Tools

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
B224692	**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.				
	B25	210/130/40	35	7332227019552	**1653955**
B224843	**Bolt cutter B28**				
	Bolt cutter with angled clipper cut head for narrow and clean cuts of mesh tray wires.				
	B28	140/40/630	272	7332227239981	**1623998**
B224769	**Spanner B45**				
	10 mm combination spanner, open end/flex head end. Material: Chrome vanadium steel.				
	B45	15/15/180	7	7332227222006	**1622200**

Steel mesh trays

CLX³ Click suspension - Corrosion class C2

Vertical piece/Fixing rail

PTCSU-181

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
CLX³ pendant 24/48				
Vertical piece/pendant to be used for ceiling suspended mounting. Perforated pattern to be used with CLX³ cantilever arm or CLX³ central suspension adapter. Open side can be used with T-bolt. Material: Steel, pre-galvanized.				
CLX³ pendant-300	295/145/53	90.6	3606489904937	**CSU795632**
CLX³ pendant-400	395/145/53	107.5	3606489904944	**CSU795633**
CLX³ pendant-500	495/145/53	124.4	3606489904951	**CSU795634**
CLX³ pendant-700	695/145/53	158.1	3606489904968	**CSU795635**
CLX³ pendant-1000	995/145/53	208.7	3606489904975	**CSU795636**
CLX³ pendant-1500	1495/145/53	294.2	3606481828323	**CSU795638**

PTCSU-186

CLX³ pendant rail 24/48				
Pendant rail to be used for direct wall mounting or for vertical piece/pendants extentions. To be connected to the vertical piece/pendant together with the pendant joint CSU795325. Perforated pattern to be used with CLX³ cantilever arm. Open side can be used with T-bolt. Material: Steel, pre-galvanized.				
CLX³ rail 24/48 300	280/48/26	47.2	3606481828330	**CSU795640**
CLX³ rail 24/48 1000	980/48/26	165.1	3606481828347	**CSU795641**
CLX³ rail 24/48 3000	2980/48/26	502	3606489904982	**CSU795637**

CLX³ Double-sided pendant				
Vertical piece/pendant, double sided to be used for ceiling suspended mounting. Perforated pattern on both sides to be used with CLX³ cantilever arm. Use for double sided mounting, or for heavy asymmetric loads. Material: Steel, pre-galvanized.				
CLX³ pendant DS-300	295/240/59	180	7321677959372	**CSU795937**
CLX³ pendant DS-500	495/240/59	241	7321677959389	**CSU795938**
CLX³ pendant DS-700	695/240/59	300	7321677959396	**CSU795939**
CLX³ pendant DS-1000	995/240/59	390	7321677959402	**CSU795940**
CLX³ pendant DS-1500	1495/240/59	542	7321677959419	**CSU795941**

CLX³ Double-sided pendant joint				
Pendant joint to be used for joining CLX double pendant with CLX double rail. Two joining brackets with screw M8x80 and nuts included. Material: Steel, pre-galvanized.				
Joint double-sided CLX rail	270/60/85	135	7321677959433	**CSU795943**

CLX³ Double-sided pendant rail				
Pendant rail to be used for CLX double pendant extension. To be connected to the vertical piece/pendant together with the pendant joint CSU795943. Perforated pattern on both sides to be used with CLX³ cantilever arm. Use for double sided mounting, or for heavy asymmetric loads. Material: Steel, pre-galvanized.				
CLX³ rail DS-1500	1480/65/50	448	7321677959426	**CSU795942**

CLX³ End cap for double-sided rail				
End plug to be mounted on CLX double side pendant ends to provide protection against personal injury and to make the ends of the profile more clearly visible. Non flame propagating and Halogen free material. Material: PP/TPE, orange.				
CLX³ pendant DS end cap	71/55/25	2	7321677959440	**CSU795944**

Adjustable ceiling plate

PTCSU-187

CLX³ adjustable ceiling plate				
Adjustable ceiling plate. To be used for angular adjustment of pendant vs ceiling. Adjustment between 0-25°. Adjustable ceiling plate is to be mounted to the CLX³ pendant. To be assembled with 4 screw set 22S (713694), need to be ordered separately. Tightening force of the screw set minimum torque 20 N.m. Material: Steel, pre-galvanized.				
CLX³ adjustable ceiling plate	150/100/59	49.8	3606489904999	**CSU795639**

Cantilever arms

PTCSU-191

CLX³ Cantilever arm				
Cantilever arm to be used for mounting on vertical pieces or pendant/fixing rails. The cantilever arm is designed for fast click fixation of ladder type KHZSP, Defem mesh tray height 60/110 and Stago tray KG281/KB184/KB284 height 60. Stago trays need to be fastened with the fast fixing clamp (CSU08490100). Material: Steel, pre-galvanized.				
CLX³ cantilever arm 150	62/220/49	36.1	3606489905002	**CSU795872**
CLX³ cantilever arm 200	62/280/49	42.8	3606489905026	**CSU795873**
CLX³ cantilever arm 300	62/380/49	60.5	3606489905033	**CSU795874**
CLX³ cantilever arm 400	92/480/49	90.9	3606489905040	**CSU795649**
CLX³ cantilever arm 500	92/580/49	106.6	3606489905057	**CSU795650**
CLX³ cantilever arm 600	92/680/49	119.7	3606489905064	**CSU795651**

Central suspension

PTCSU-207

PTCSU-208

PTCSU-211

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
CLX³ central suspension bracket, mesh tray Defem				
Central suspension bracket be used for mounting Defem mesh trays on vertical pieces. Material: Steel, pre-galvanized.				
120-220	163/31/84	19.5	3606489905200	**CSU795665**
320 *	25/206/50	31.3	3606489905217	**CSU795666**
422 *	25/397/50	62.7	3606489905231	**CSU795668**
522-622 *	25/497/50	78.2	3606489905224	**CSU795667**
(*) the central suspension bracket shall first be assembled together with the CLX³ central suspension adapter (CSU795700) to be able to click in the perforation pattern on the vertical piece.				
CLX³ central suspension adapter				
Central suspension adapter to be first clicked to a CLX³ central suspension bracket of choice. The adaptor fits to all types of CLX³ central suspension brackets; ladder, tray and mesh. In a second step the adaptor with the central suspension bracket mounted is clicked in the perforation pattern in the rail or the pendant. Material: Steel, pre-galvanized.				
CLX³ CSB adapter	166/31/39	17.7	3606489905248	**CSU795700**

Wall bracket

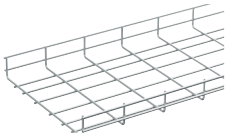
Wall bracket for CLX³ cantilevers.				
To be used for direct fixation to wall. Single bolt fixation in keyhole, alternatively multi-bolt fixation in lateral holes for softer walls. Bolts are not included. Material: Steel, pre-galvanized.				
Wall bracket for CLX³ cantilevers	163/101/26	34	7321677958047	**CSU795804**
CLX³ Wall support 550 for sandwich walls				
Used for mounting of CLX³ cantilever arm on porous walls or sandwich wall blocks. Material: Steel, pre-galvanized.				
CLX³ Wall support 550	550/99/17	93.3		**CSU796053**

Steel mesh trays

Hot-dip galvanized - Corrosion class C2-C4

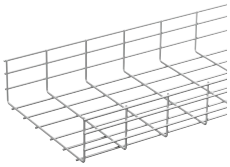
Mesh trays, HDG

P140869



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

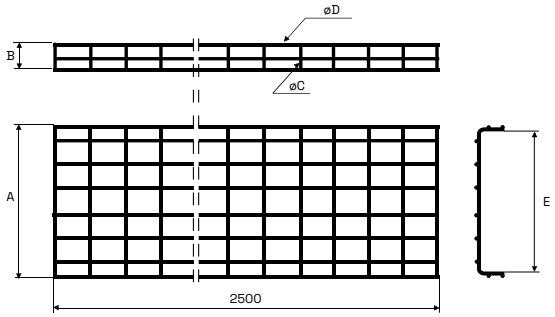


Mesh trays, 110 mm high				
Mesh cable tray, length 2.5 m. Material: Steel, HDG.				
120/110	110/120/2500	453	7332227012041	**1149204**
220/110	110/220/2500	584	7332227012058	**1149205**
320/110	110/320/2500	709	7332227012065	**1149206**
422/110	110/422/2500	949	7332227012072	**1149207**
522/110	110/522/2500	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**

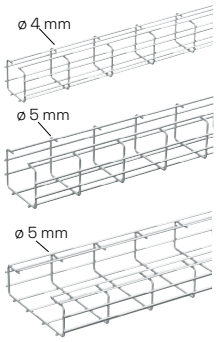
Steel mesh trays

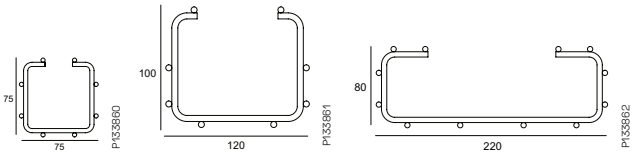
Hot-dip galvanized - Corrosion class C2-C4

C and G-Mesh trays

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**

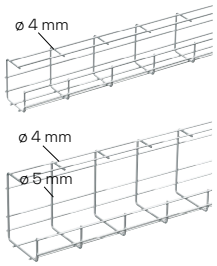
P140869 P140870 P140871

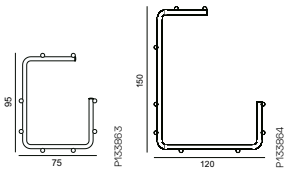




G-mesh trays				
G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders. Material: Steel, HDG.				
75x95	95/75/2500	278	7332227012386	**1149238**
120x150	150/120/2500	472	7332227012393	**1149239**

P149848 P149849

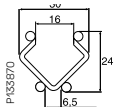




Mini Mesh trays

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: Steel, HDG.				
B30-D	24/30/2000	55	7332227012126	**1149212**

P140953

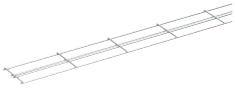


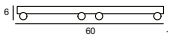
Mini mesh trays B30-U				
Mini mesh tray in a space-saving U-shape for the routing of cables. Mesh tray length 2 m, wire ø 3 mm. Material: Steel, HDG.				
B30-U	15/46/2000	55	7332227012256	**1149225**

P140954

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**

P140955





Accessories

Plate cover B7:2				
Mesh tray plate cover, for tray widths acc. to the type designation. Cover length 1250 mm. Material: Zink+				
B7:2/75	16/80/1250	70	7321677960385	**CSU796038**
B7:2/120	16/125/1250	110	7321677960392	**CSU796039**
B7:2/220	16/226/1250	175	7321677960408	**CSU796040**
B7:2/320	16/326/1250	240	7321677960415	**CSU796041**
B7:2/422	16/426/1250	310	7321677960422	**CSU796042**

PTCLC-344

Spring cover clip B8:2				
Spring wire clip for fixing of B7:2 covers to the DEFEM mesh trays. Allows easy clicking and unclicking. Minimum 4 clips per cover is recommended for indoor use, min 6 clips per cover for outdoor use. Packed in bag of 20 pcs. Material: Stainless 316L				
B8:2	24/25/23	0,3	7321677959884	**CSU795988**

PTCLC-346

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	30/18/18	1,1	7332227012843	**1149284**

Brackets

P140961 P140962	**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**
	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**
T-bolt single	**T-bolt 26U 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 26U M8x30	50/44/18	6.8	3606489579777	**CSU795595**

Steel mesh trays

Hot-dip galvanized - Corrosion class C2-C4

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: Steel, hot-dip galvanized.

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
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**

P139938

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**

P122499

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**

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: Steel, hot-dip galvanized.

5	100/135/40	35	7321677186402	**718640**

P139946

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**

P139960

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**

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: Steel, hot-dip galvanized.

1-500	568/–/40	53	7321677176410	**717641**

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**

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.
	Support hook D35/120-220				
P140977	Support hook intended for 120-220 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/120-220	148/48/94	19	3606480911606	**CSU795347**
	Support hook D35/320-422				
P140978	Reinforced support hook intended for 320-422 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/320-422	161/48/310	37	7332227012201	**1149220**
	Support hook D35/422-622				
P122501	Reinforced support hook intended for 422-622 mm mesh trays. Material: Steel, hot-dip galvanized.				
	D35/422-622	161/48/490	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	25/50/95	8	7332227012171	**1149217**
P140981	B39/320-422	25/50/290	32	7332227012188	**1149218**

Threaded rods

	Threaded rod W76				
P140075	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

	Flange nut				
P140154	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**
	Distance nut				
P140155	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

	Accessory holder B5 Mini				
P140982	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 90° 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**
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**

P140021

P140022

P140998

P140999

P141000

P140069

P141001

P141002

P149448

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.
	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

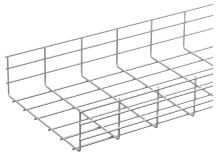
Stainless steel AISI 304L - Corrosion class C5

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**

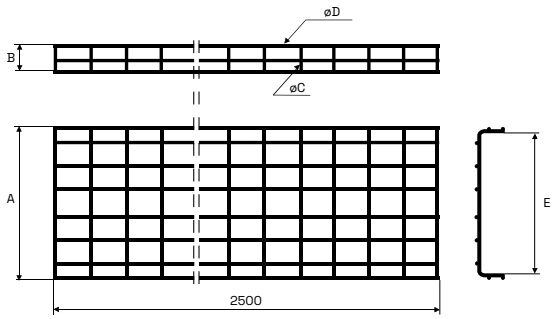
P140865



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**

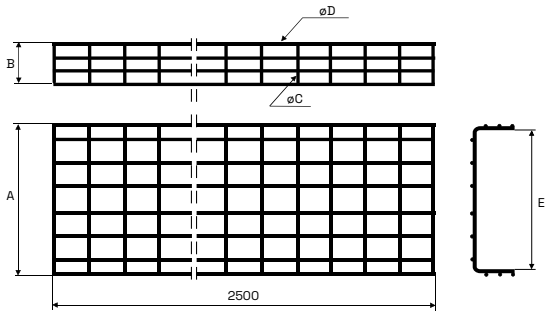
Dimension table

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**



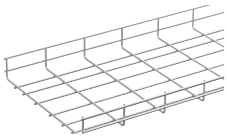
Mesh tray 120/110	120	110	5	5	100	**1149604**
Mesh tray 220/110	220	110	5	5	200	**1149605**
Mesh tray 320/110	320	110	5	5	300	**1149606**
Mesh tray 422/110	422	110	5	6	400	**1149607**
Mesh tray 522/110	522	110	5	6	500	**WBE1149608**
Mesh tray 622/110	622	110	5	6	600	**1149609**

Steel mesh trays

Stainless steel AISI 316L - Corrosion class CX

Mesh trays, stainless

P140859



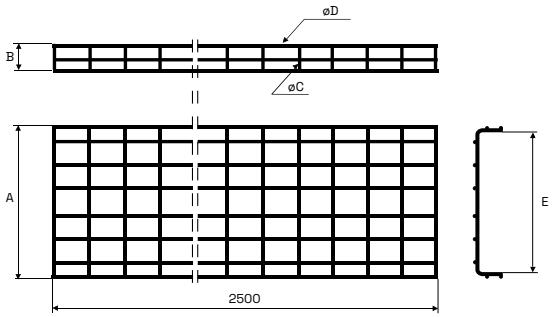
Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
Mesh trays, 45, 55 and 60 mm high				
Mesh cable tray, length 2.5 m. Size 75/55 available both made of ø 4 and 5 mm wire, see dimension table below. Material: Stainless steel AISI316L.				
53/45	45/53/2500	176	7332227013130	**1149313**
75x4/55	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**

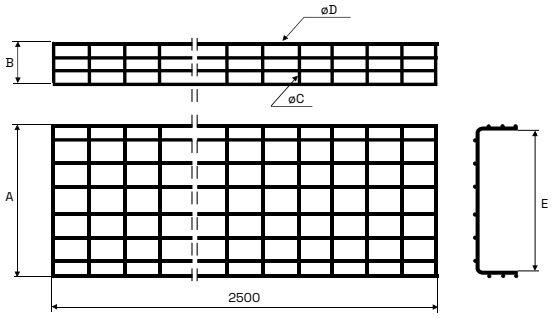
Dimension table

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

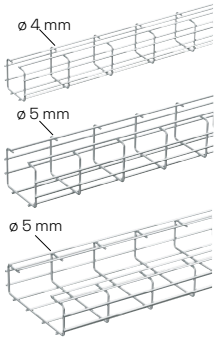
Stainless steel AISI 316L - Corrosion class CX

C, G and Z-Mesh trays

Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.

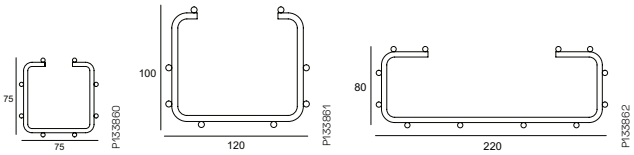
C-mesh trays

P140869 P140870 P140871



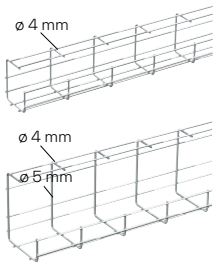
C-shaped mesh cable tray, length 2.5 m, for use where mounting with long support distances (up to 4 metres) are needed.
Material: Stainless steel AISI316L.

75x75	75/75/2500	253	7332227013321	**1149332**
120x100	100/120/2500	429	7332227013338	**1149333**
220x80	80/220/2500	623	7332227013345	**1149334**



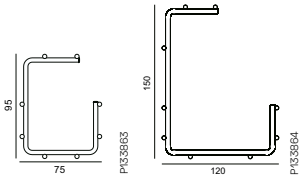
G-mesh trays

B225021 B225016



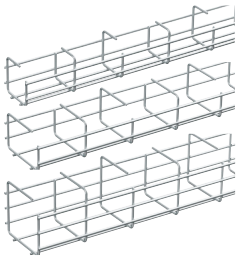
G-shaped mesh cable tray, length 2.5 m, for installation in ceilings, onto walls, under desks and for mounting on cable ladders.
Material: Stainless steel AISI316L.

75x95	95/75/2500	260	7332227013383	**1149338**
120x150	150/120/2500	350	7332227013390	**1149339**



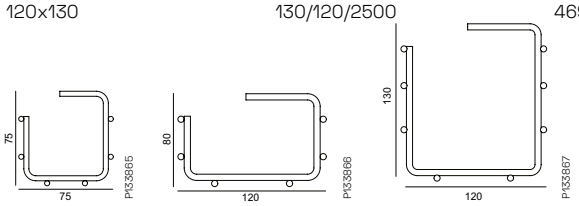
Z-mesh trays

P140950 P140951 P140952



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**

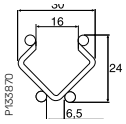


Mini mesh trays

Mini mesh trays B30-D

P140953

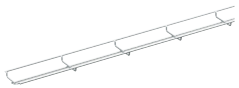
Mini mesh tray for the routing of cables. Diamond-shaped for good guiding and protection. Mesh tray length 2 m, wire ø 3 mm.
Material: Stainless steel AISI316L.



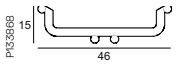
B30-D	24/30/2000	52	7332227013123	**1149312**

Mini mesh trays B30-U

P140954



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

P140955

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.

P133869

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

Steel mesh trays

Stainless steel AISI 316L - Corrosion class CX

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	30/18/18	1,1	7332227013840	**1149384**

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 P133932	**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**
	B4 Mini 100, for mesh trays 53-120 mm	53/55/100	16	3606480531330	**CSU794991**

Steel mesh trays

Stainless steel AISI 316L - Corrosion class CX

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 26U				
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.				
26U M8	50/44/18	6.8	3606489579784	**CSU795596**

T-bolt single

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**
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**
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**

P139938

P122499

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**
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**

P139946

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**
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**

P139960

P140023

Steel mesh trays

Stainless steel AISI 316L - Corrosion class CX

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	148/48/94	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	161/48/310	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	161/48/490	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	25/50/95	8	7332227013178	**1149317**
P140981	B39/320-422	25/50/290	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 CX

Nuts

	Type	Dimensions A/B/C mm	Weight kg/100 pcs	EAN code	Ref. No.
	Flange nut B43				
P140154	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**
	Distance nut B42				
P140155	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

	Accessory holder B5 Mini				
P140982	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

	Plate cover B7:2				
PTGLC-344	Mesh tray plate cover, for tray widths acc. to the type designation. Cover length 1250 mm. Material: Stainless steel AISI316L.				
	B7:2/75	16/80/1250	70	7321677960484	**CSU796048**
	B7:2/120	16/125/1250	110	7321677960491	**CSU796049**
	B7:2/220	16/226/1250	175	7321677960507	**CSU796050**
	B7:2/320	16/326/1250	240	7321677960514	**CSU796051**
	B7:2/422	16/426/1250	310	7321677960521	**CSU796052**
	Spring cover clip B8:2				
PTGLC-346	Spring wire clip for fixing of B7:2 covers to the DEFEM mesh trays. Allows easy clicking and unclicking. Minimum 4 clips per cover is recommended for indoor use, min 6 clips per cover for outdoor use. Packed in bag of 20 pcs. Material: Stainless 316L				
	B8:2	24/25/23	0,3	7321677959884	**CSU795988**
	Separating plate B26				
P140995	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**
	Tele-channel B6				
P140987	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**
	Combi-fittings B21				
P140021 P140022	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**
	Support B33				
P140998	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 CX

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

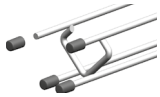
Earth connection clamp B18				
Earth connection clamp to be used to mount earth cable onto a chosen wire of the mesh tray. Material: Brass, electrolytically nickel coated.				
B18	15/30/15	2	321677887163	**1149180**

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**



B224730

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**

P149448

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**

Steel mesh trays

Stainless steel AISI 316L - Corrosion class CX

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	35/43/8	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				
1653955	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**

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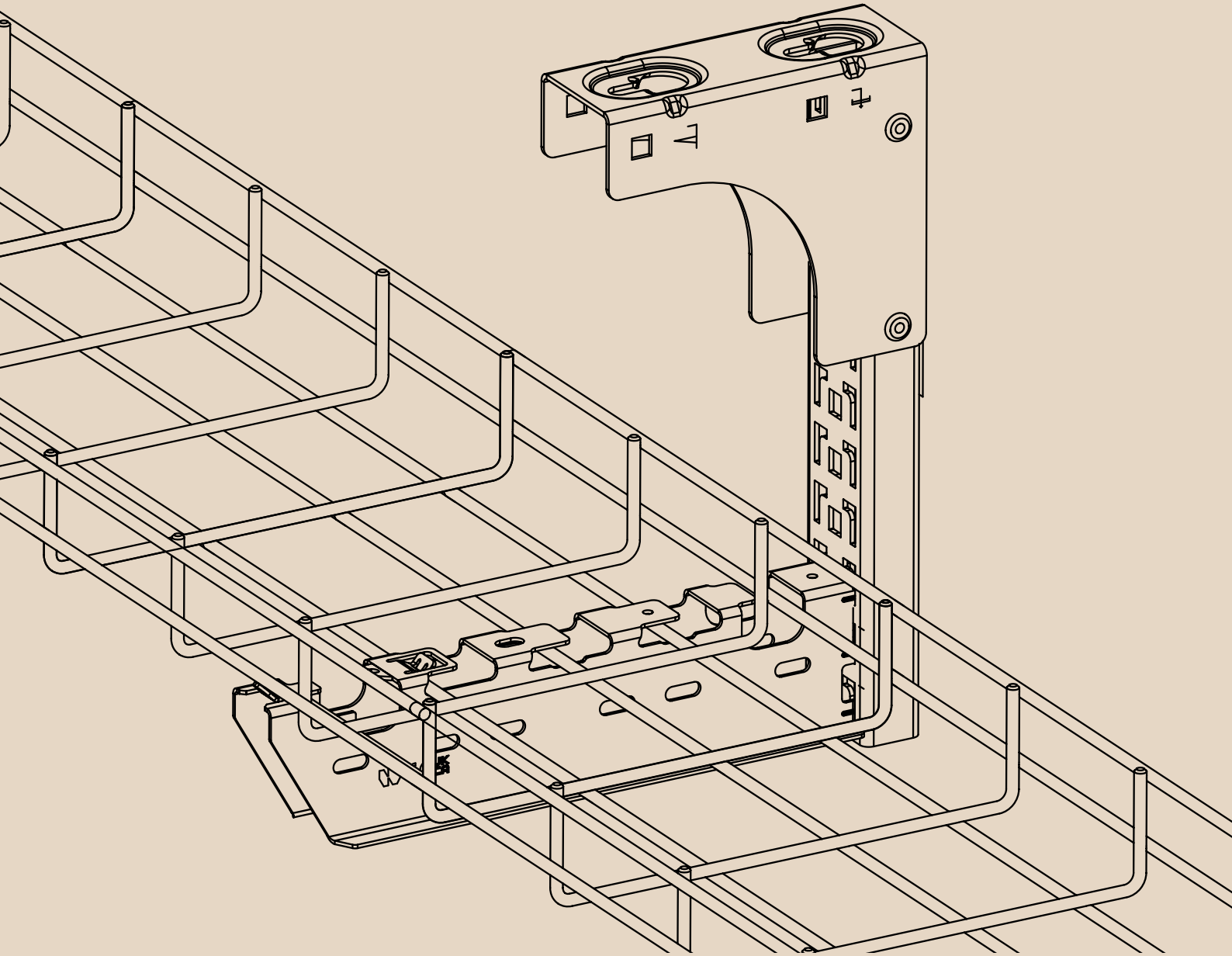
DEFEM MESH TRAYS

Technical information



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powered by wibe group

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.
- ISO 2081.

C2 Pre-galvanized

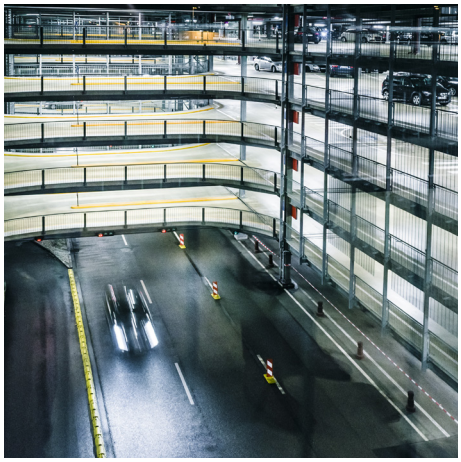
Partly outdoor environments: Industries, sports halls, warehouses, shops, rural outdoor areas etc.

- Low environmental corrosion.
- Non-heated areas with fluctuating levels of temperature and humidity.
- Few instances of condensation and low levels of airborn pollution.
- EN 10346

C3 Hot-dip galvanized

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

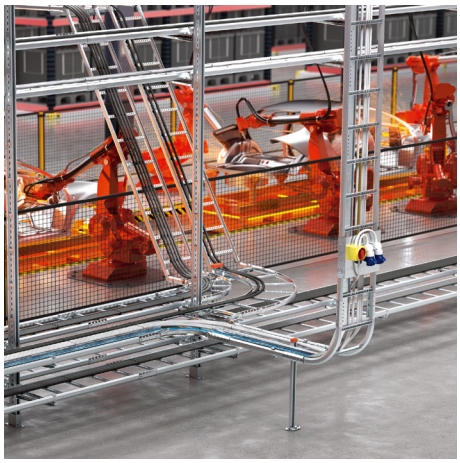
- Average environmental corrosion.
- Areas with average levels of humidity and some airborn pollution caused by production processes.
- Atmospheres containing some salt or average levels of airborne pollution.
- EN-ISO1461/EN 10346 (Z+)



C4 Hot-dip galvanized

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

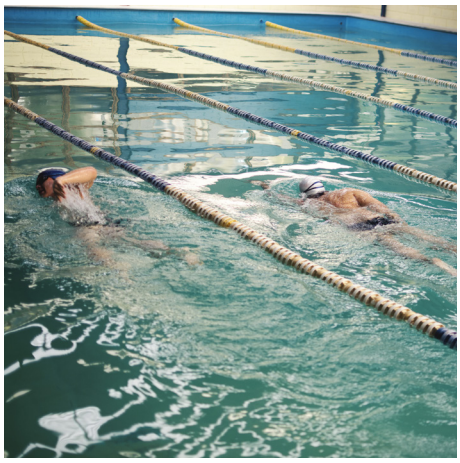
- High environmental corrosion.
- Areas with high levels of humidity and considerable airborn pollution.
- Atmospheres with average salt content or discernible levels of airborne pollution.
- EN-ISO1461



C5 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.
- EN 1.4301 acc. to EN 10088/AISI 304L



CX 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.
- EN 1.4404 acc. to EN 10088/AISI 316L

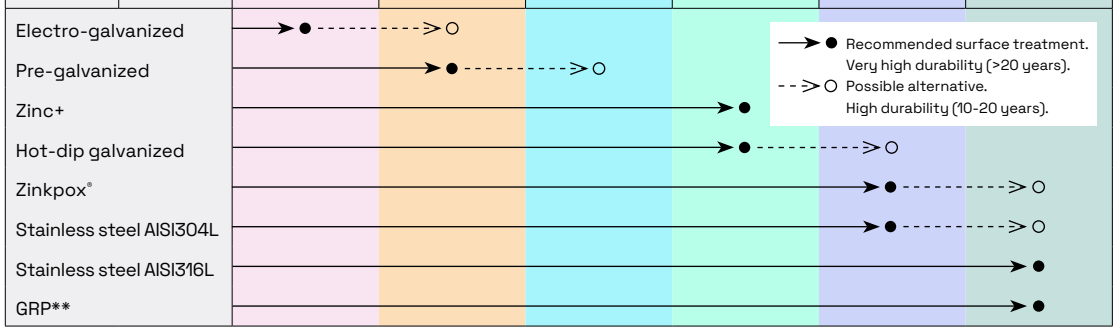
Technical information
Corrosion classes

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 Wibe Group 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 CX) 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		C1	C2	C3	C4	C5	CX
Environmental corrosion		Very low	Low	Average	High	Very high	Extremely high
Examples of typical environments in temperate climates (informative)	Outdoors	–	Atmospheres with low levels of airborne pollution. Rural areas.	Atmospheres containing some salt or average levels of air-borne pollution. Urban and light industrial areas. Areas affected by coastal conditions.	Atmospheres with average salt content or discernible levels of airborne pollution. Industrial and coastal areas.	Industrial areas with high humidity and aggressive atmosphere, and coastal areas with high salinity.	Offshore areas with high salinity, industrial areas with extreme humidity, and aggressive atmospheres, sub-tropical or tropical atmospheres.
	Indoors	Heated areas with arid atmosphere and insignificant quantities of pollutant, e.g. offices, shops, schools and hotels.	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.	Areas with average levels of humidity and some airborne pollution resulting from production processes, e.g. breweries, dairies, laundries.	Areas of high humidity and considerable airborne pollution as the result of production processes, e.g. chemical plants, swimming pools and dockyards.	Buildings with almost permanent condensation and with high pollution.	Industrial buildings with extreme humidity and aggressive atmosphere.



* Can be modified due to local environment and product life expectancy.
** See catalogue Mita Flex for GRP offer

Table B
Mass losses for zinc in various corrosion classes

Corrosion class	Mass loss per surface unit and thickness reduction (1 year of exposure)[1]	
	Mass loss (g/m²)	Thickness reduction (µm)
C1	≤ 0.7	≤ 0.1
C2	> 0.7 to 5	> 0.1 to 0.7
C3	> 5 to 15	> 0.7 to 2.1
C4	> 15 to 30	> 2.1 to 4.2
C5	> 30 to 60	> 4.2 to 8.4
CX	> 60 to 180	> 8.4 to 25

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

Technical information
Surface treatments

Defem Mesh Trays - Technical and material data

Steel wire	
Specification:	C9D acc. to EN 10016-2 AISI 316L acc. to ASTM/EN 1.4404 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 • Pickling (AISI 316L)
Steel sheet	
Specification:	S235 acc. to EN 10025-2 AISI 316L acc. to ASTM/EN 1.4404 acc. to EN ISO 1008-2
Density:	7.7-7.85 kg/m³
Surface treatment:	• Electro-galvanized (>8 µm): EN ISO 2081 • Hot-dip galvanised (55-70µm): EN ISO 1461 • Pickling (Stainless steel)

Resistance to impact	20 J (IEC 61537)
Temperature range	From –40°C to +120°C

Electro-galvanized
Products are manufactured in accordance with 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 10346. Under normal conditions, surface sections created during cutting and drilling will repair themselves, providing superb anti-corrosion protection.

Hot-dip galvanized
Wibe Group 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 whilst nuts and bolts are hot-dip galvanized in accordance with SS-EN ISO 10684. 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 AISI 304 acc. to ASTM/1.4301 acc.to EN 10088-3 or AISI 316L acc. to ASTM/1.4404 acc. to EN 10088-3 are designed for use in highly aggressive environments, either indoors or out- doors, 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, conven- tional assembly tools can be used. However, when using a nut tightener, ensure that the thread is first lubricated to prevent jamming.

It is not recommended to mix untreated or galvanized products with stainless steel, in case of doubt contact Wibe Group.

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.

Technical information
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.

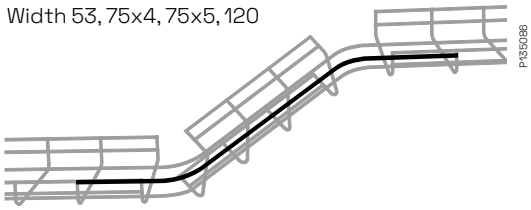
The impedance must not exceed:
- 50 mΩ through the joint.
- 5 mΩ x metre of tray.

The metre length and joining systems for the different sections that Wibe Group 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.

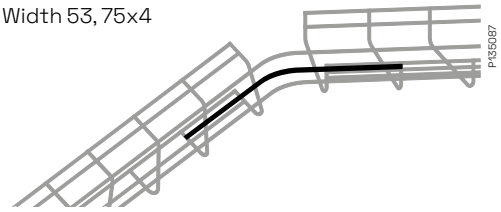
To guarantee a safe installation, Wibe Group recommends a proper earthing of all the elements that make up the system (sections and accessories), using the accessories designed specifically for this purpose. Ensure that all connections are well fixed and proper values are matching according to local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

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

Width 53, 75x4, 75x5, 120



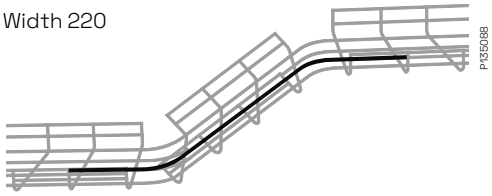
Width 53, 75x4



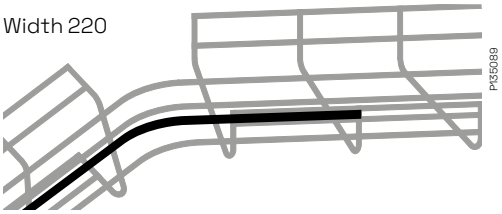
Stainless AISI 316L
Mesh Trays in the dimensions 53, 75x4, 75x5 and 120 shall always be equipped with copper cable.

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

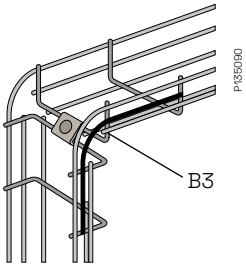
Width 220



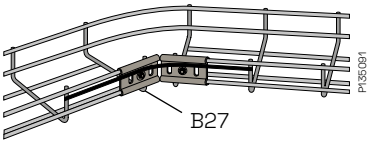
Width 220

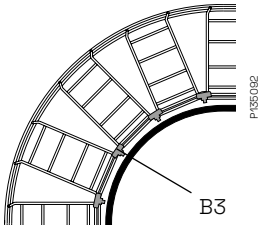


Width 220, 320



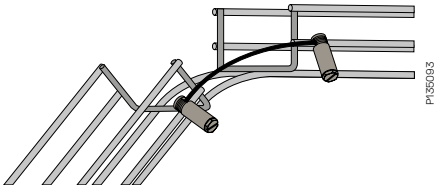
Width 220, 320, 422, 522, 622





Technical information
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).

A Mesh Tray	B Joints	Electro galv.		Hot Dip galvanized	
		A Tray	B Joints	A Tray	B Joints
		(mΩ/m)	(mΩ)/set of joint	(mΩ/m)	(mΩ)/set of joint
		5 mΩ/m**	50 mΩ/pcs**	5 mΩ/m**	50 mΩ/pcs**
622/110	2xB52 + 3 set B2	0.71*	0.2*	0.9*	0.2*
622/60	2xB52 + 3 set B2				
522/110	2xB52 + 3 set B2				
522/60	2xB52 + 3 set B2				
422/110	2xB52 + 2 set B2				
422/60	2xB52 + 2 set B2	0.71	0.2	0.9	0.2
320/110	2xB52 + 2 set B2	0.88*	0.24*	1.44*	0.56*
320/60	2xB52 + 2 set B2	0.88	0.24		
220/110	2xB52	1.14*	0.36		
220/60	2xB52	1.14	0.29	1.44	
120/110	2xB52	2.27*	0.72*	0.4*	
120/60	2xB52	2.27		0.4	0.56
75x5/55	2xB52	2.55		2.53*	0.56*
75x4/55	2xB52	2.67	0.72	2.53	0.56
53/45	2xB52	2.65	0.49	2.6	0.52

*Size not tested, assuming same value than previous narrower tray.
Obtained Impedance values from test report: SP_F205777.
For products outside of table, please contact Technical Department.
**Limit value according to standard.

Technical information

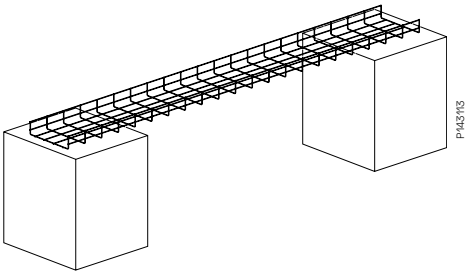
Electro-magnetic compatibility EMC

Electromagnetic Compatibility

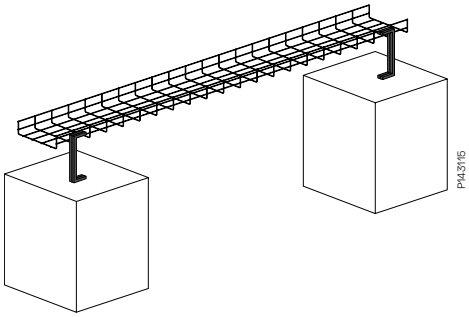
Wibe Group has performed measurements at EMC Services in Gothenburg regarding EMC requirements, report RE-10273-17181 /TR-10024-16723.
The results show that the shielding performance of both incoming and emitted fields is good concerning Defem mesh trays.

When correctly installed Defem mesh tray products the equipotential bounding is guaranteed.

Recommended installation examples

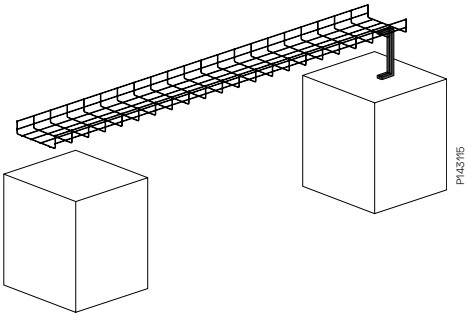


Metal against metal connection
- the ultimate installation

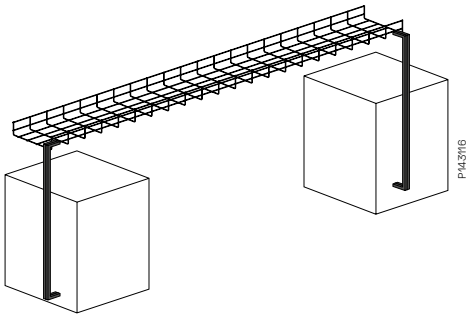


Short double connection
- realistic installation

Not recommended installation examples



Single connection
- poor installation



Long double connection
- in best case EMC neutral

Technical information
Quality

The Defem mesh trays meet the toughest product standards:
IEC 61537
DIN 4102-12 for fire resistance E30-E90
NEMA VE 1/CSA 22.2

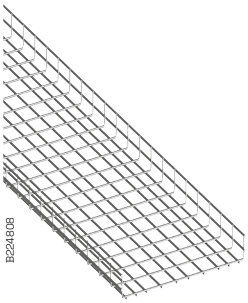
Tests and certificates	Test made by
Measurements of resistance value from different combinations of Defem Mesh tray and Defem U-bar. Report no. LNKM 036 99.	Telia, Sweden
Tests with Category 5 and 6 cables, in room temperature and in a climatic room with different loads, up to 43 layers, about 250 mm. 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. Electrical Continuity: SP F205777 Vibration: SP 94 F, 20903	SP, Sweden
Defem Mesh tray is tested according to Underwriters Laboratories - UL E212854.	UL, USA, Canada
Defem Mesh tray is approved by Det Norske Veritas (DNV) for offshore and ship-yard use, TAE00000MR.	DNV, Norway

Management system - Quality and Environment
Wibe Group has a third-party certified management system for quality and environment in accordance with OHSAS ISO 50001:2011, ISO 45001:2018, ISO 9001:2015 and ISO 14001:2015.

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 Wibe Group Cable Support System.

Low voltage directive 2014/35/EU
Wibe Group fulfills the demands according to the harmonized standard EN 61537.

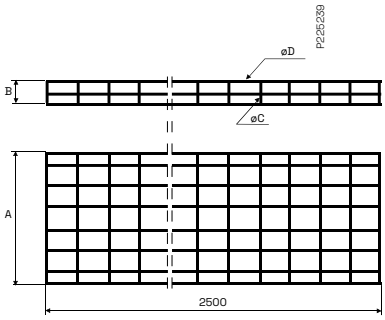
Technical information
Loading capacity



Safe working-load

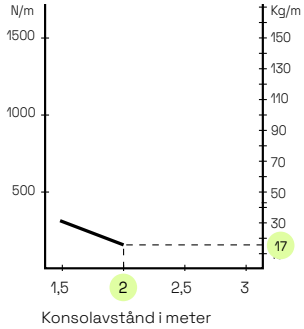
The safe working-load is determined according to the standard IEC 61537 by using the test type 2. See diagrams below.

- 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.

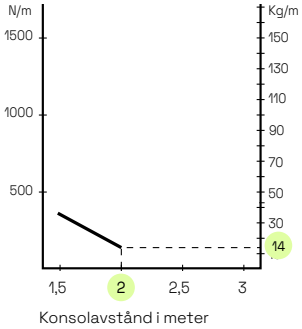


Type	A mm	B mm	C mm	D mm	E mm
Mesh tray 53/45	53	45	4	4	37
Mesh tray 75/55	75	55	4	4	59
Mesh tray 75/55	75	55	5	5	55
Mesh tray 120/60	120	60	5	5	100
Mesh tray 220/60	220	60	5	5	200
Mesh tray 320/60	320	60	5	5	300
Mesh tray 422/60	422	60	5	6	400
Mesh tray 522/60	522	60	5	6	500
Mesh tray 622/60	622	60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

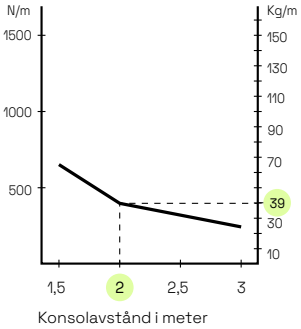
53/45



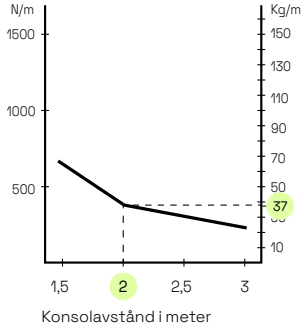
75x4/55



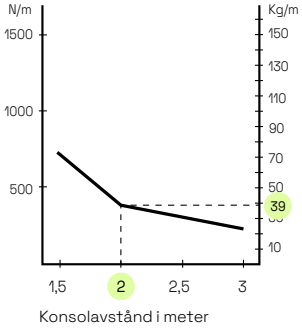
75x5/55



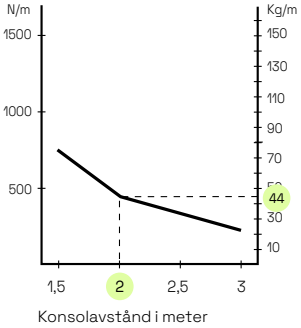
120/60



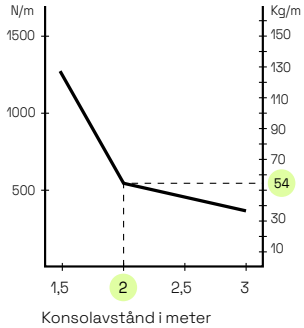
220/60



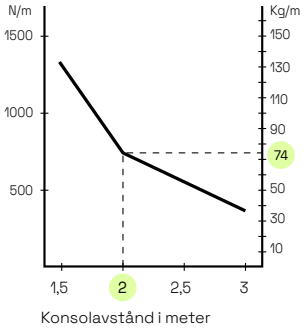
320/60



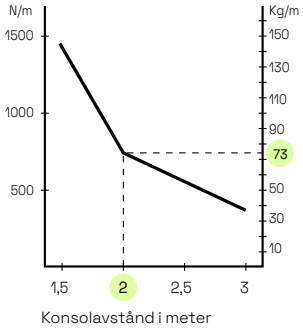
422/60



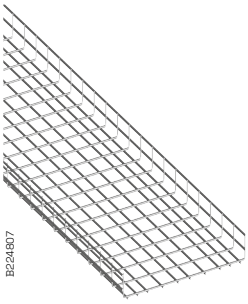
522/60



622/60



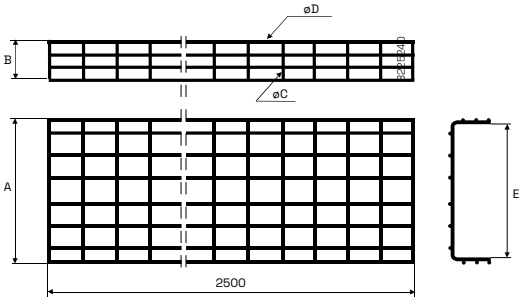
Technical information
Loading capacity



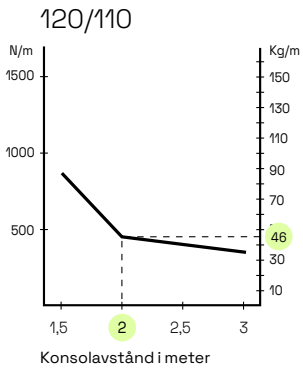
Safe working-load

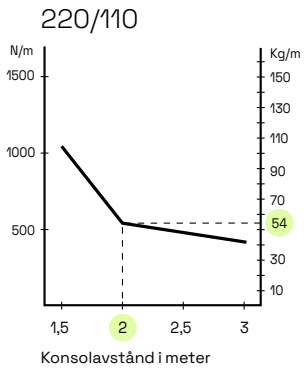
The safe working-load is determined according to the standard IEC 61537 by using the test type 2. See diagrams below.

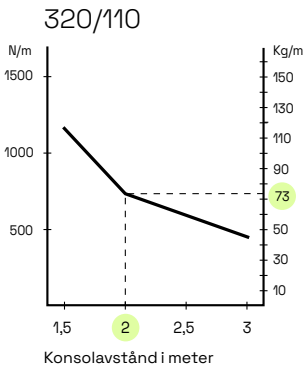
- The load is uniformly distributed along the mesh trays
- Free location of joints between supports
- The safety working-load value is given when: – the longitudinal deflection is ≤1% of the span between brackets – the transversal deflection is ≤5% of the width of the mesh tray.

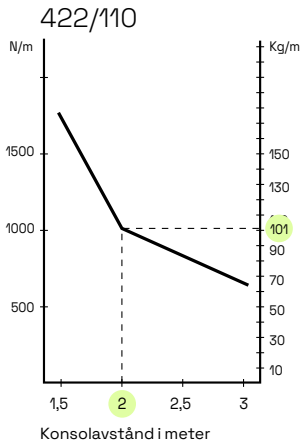


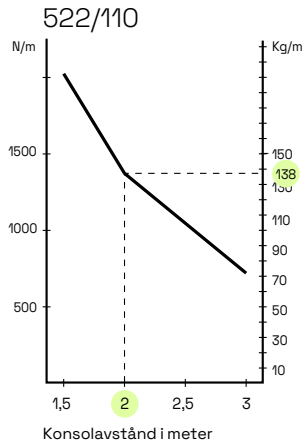
Type	A mm	B mm	C mm	D mm	E mm
Mesh tray 120/110	120	110	5	5	100
Mesh tray 220/110	220	110	5	5	200
Mesh tray 320/110	320	110	5	5	300
Mesh tray 422/110	422	110	5	6	400
Mesh tray 522/110	522	110	5	6	500
Mesh tray 622/110	622	110	5	6	600

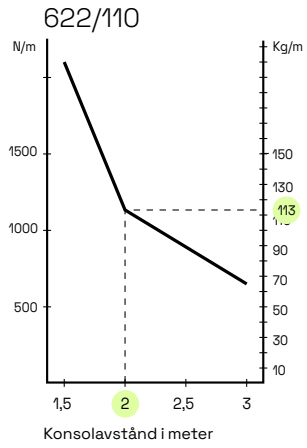










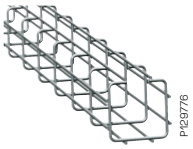


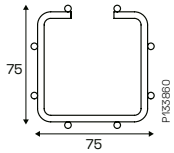
Technical information
Use and installation

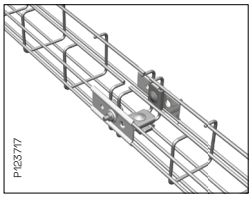
C-Mesh tray

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

C-Mesh tray 75x75

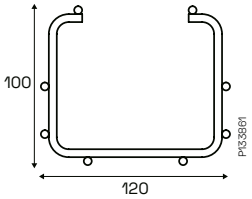


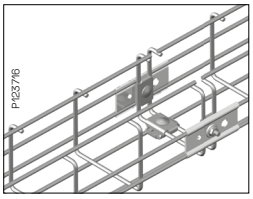




Joining of two C-Mesh trays 75x75.

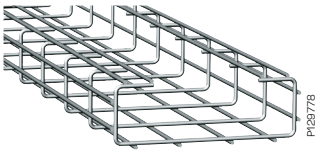
C-Mesh tray 120x100

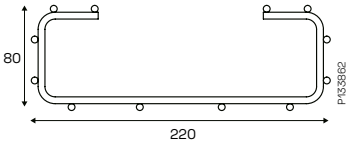


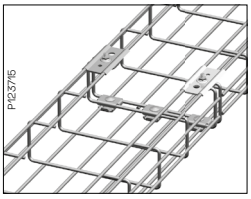


Joining of two C-Mesh trays 120x100.

C-Mesh tray 220x80





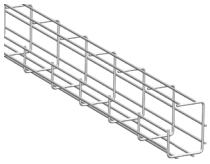


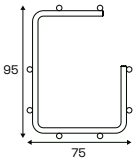
Joining of two C-Mesh trays 220x80.

G-Mesh tray

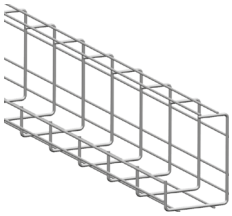
For installation in ceilings, onto walls, under desks and mounting on cable ladders.

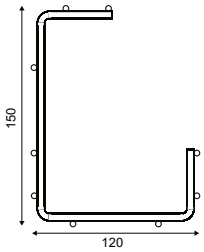
G-Mesh tray 75x95

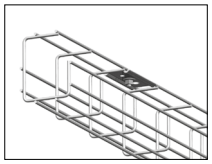




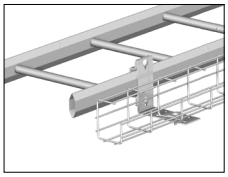
G-Mesh tray 120x150



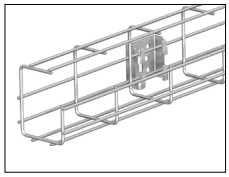




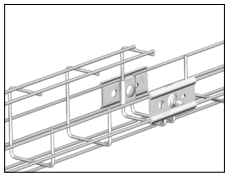
For mounting in ceilings, under desks etc. Fitting B1 is used.



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



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

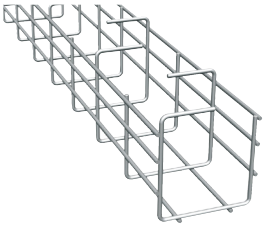


Fittings B1 and B2 are used for joining the mesh trays.
Example of jointing G-mesh tray with standard mesh tray

Technical information
Use and installation

Z-Mesh tray 75x75

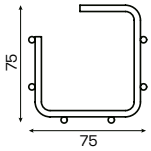
Z-Mesh tray 120x80

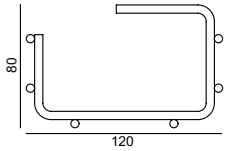


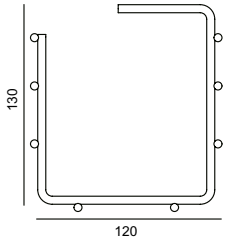
Z-Mesh tray 120x130

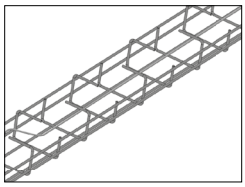
Z-Mesh tray

For environments where regular and thorough cleaning is required.

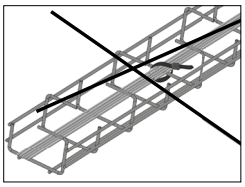




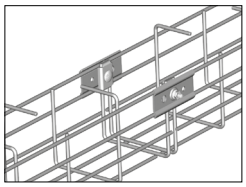




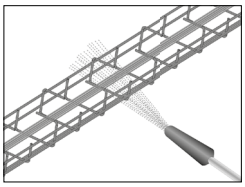
The cable is routed in a zigzag pattern inside the Z-Mesh tray.



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

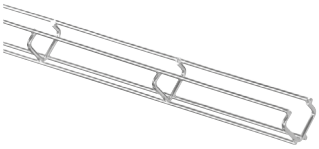


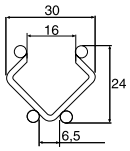
Fittings B1 and B2 are used for joining of Z-Mesh trays.

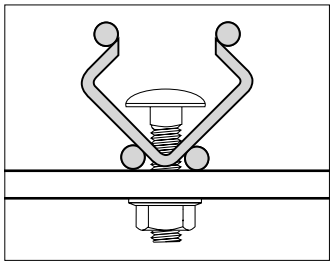


The non-bundled cables will stay in place during cleaning.

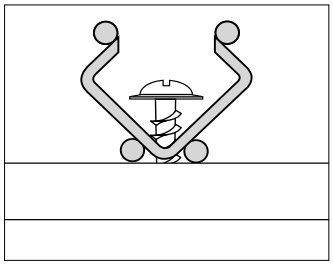
Mini Mesh B30-D



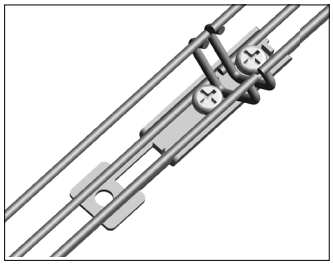




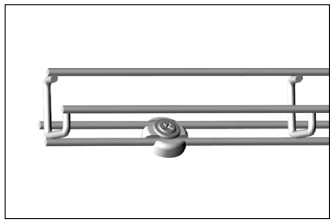
Can be mounted with Bolt and Nut B13.



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



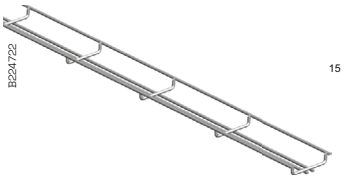
Two Mini Mesh B30-D joined with Mounting coupler B20.

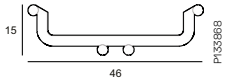


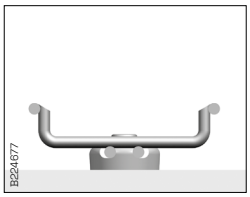
B30-D mounted onto Mounting spacer B22.

Technical information
Use and installation

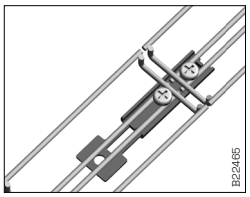
Mini Mesh B30-U





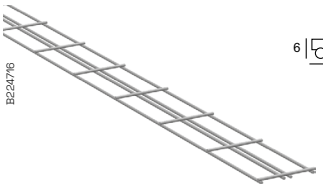


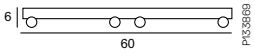
B30-U mounted onto Mounting spacer B22.

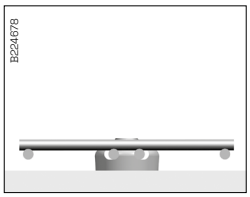


Two Mini Mesh B30-U joined with Mounting coupler B20.

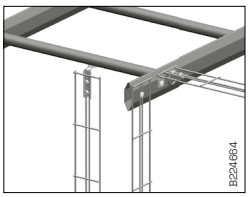
Mini Mesh B30-I







B30-I mounted onto Mounting spacer B22.

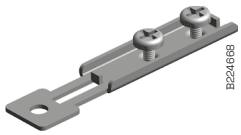


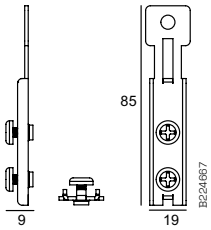
B30-I mounted onto cable ladder.

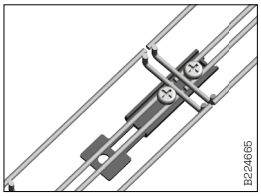
Technical information
Use and installation

Mounting coupler B20

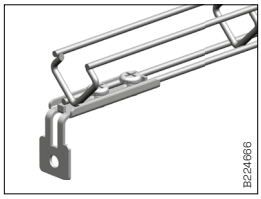
Used for joining and mounting of Mini Mesh Mesh trays.



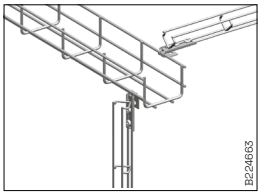


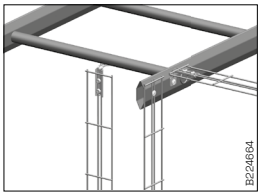


Used for joining of Mini Mesh Trays.



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

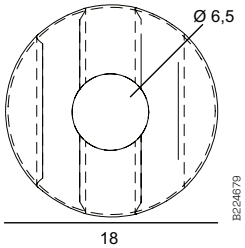


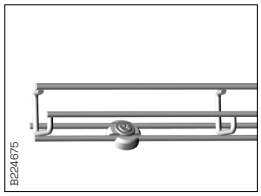


The mounting coupler can be used for vertical and horizontal mounting of Mini Mesh trays onto mesh trays and cable ladders.

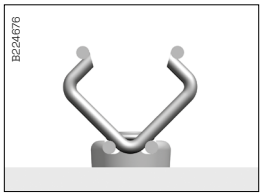
Mounting spacer B22

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

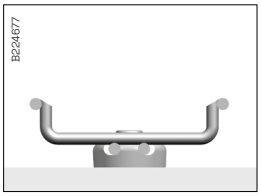




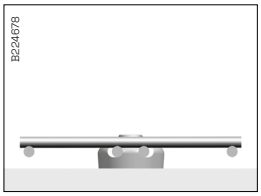
Front view of Mounting Spacer B22 attached to Mini Mesh.



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.

Technical information
Use and installation

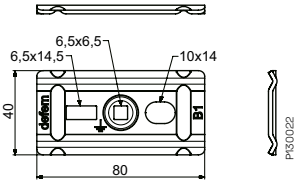
Recommended couplers

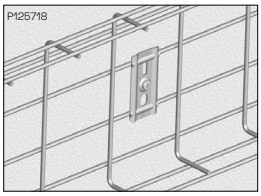
For joining Mesh trays

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

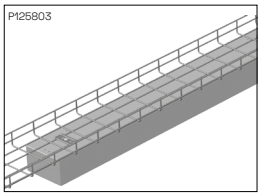
Fitting B1

Delivered without bolt and nut.

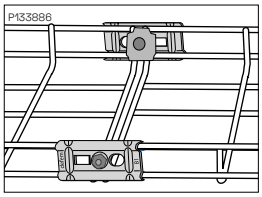




Fitting B1 can be used as a wall bracket.



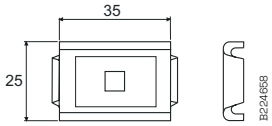
Fitting B1 can be mounted over the centre wires as carrier of lighting fittings.

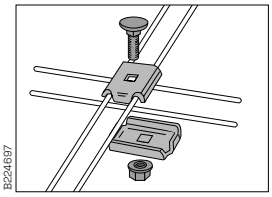


Mesh tray 53 to 220 is joined with:
2 pcs of Fitting B1
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13

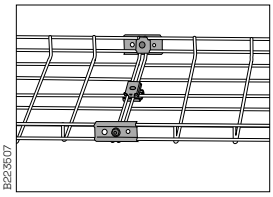
Fitting B2

Delivered without bolt and nut.

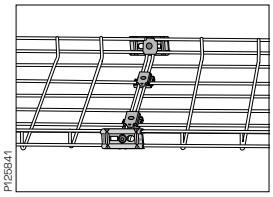




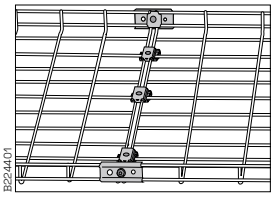
For joining in bottom of tray:
2 pcs of Fitting B2
1 pc of Bolt and Nut B13.



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

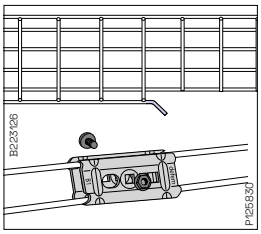


Mesh tray 422 is joined with
2 pcs of Fitting B1
6 pcs of Fitting B2
4 pcs of Bolt and Nut B13

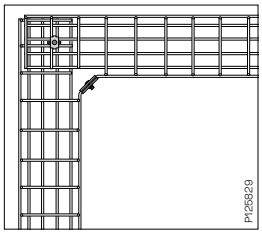


Mesh tray 522 and 622 is joined with
2 pcs of Fitting B1
8 pcs of Fitting B2
5 pcs of Bolt and Nut B13.

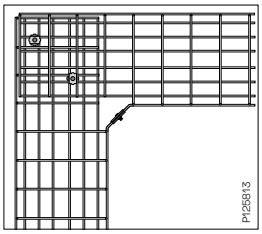
90° angling with Fitting B1 och B2



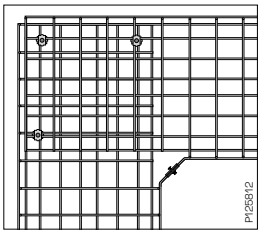
To obtain a softer inner angle, 2 Fittings B1 can be mounted with Bolt and Nut B13.



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

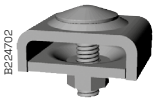


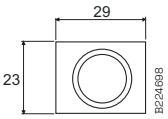
Mesh tray 522 and 622 are joined with:
2 pcs of Fitting B1
6 pcs of Fitting B2
4 pcs of Bolt and Nut B13

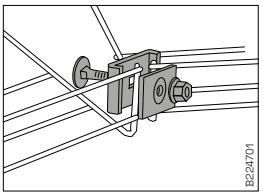
Technical information
Use and installation

Fitting B3

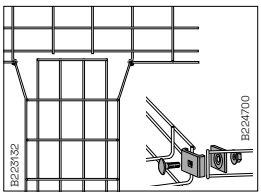
Delivered with bolt and nut.



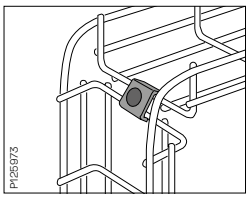




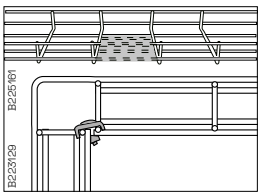
Horizontal bends are joined with Fitting B3.



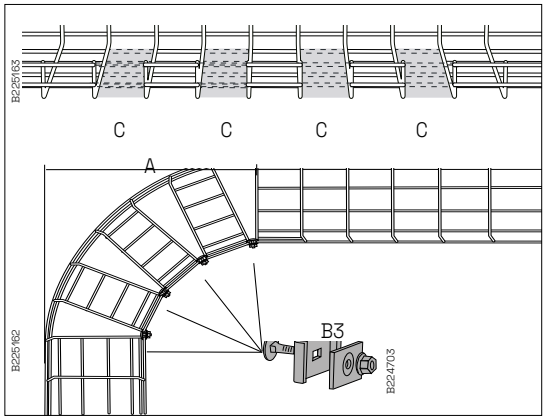
Four way and tees are joined with Fitting B3.



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

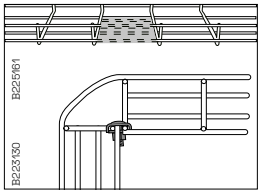


Mesh tray 53 is shaped to straight 90° angle by cutting out marked wires and joined with Fitting B3.



Mesh tray 120-622 is shaped to straight 90 ° 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	210	2	2
220	470	4	4
320	720	6	6
422	960	8	8
522	1210	10	10
622	1475	12	12

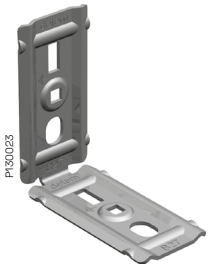


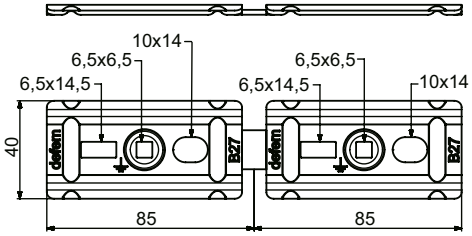
Mesh tray 53 is shaped to straight 90° angle by cutting out marked wires and joined with Fitting B3.

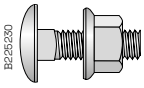
Technical information
Use and installation

Angled fitting B27

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

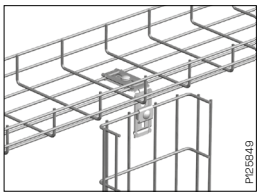




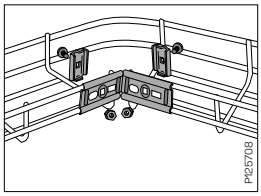


Bolt and nut B13

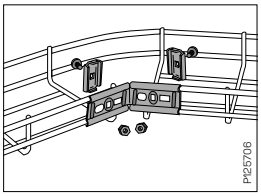
M6x25. Tensi-Lock and Flange Nut M6.



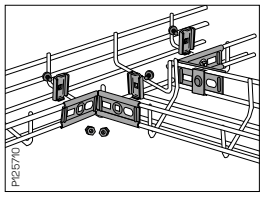
For vertical branching under mesh trays, all widths:
1 pce of Angled fitting B27
1 pce of Fitting B1
1 pce of Fitting B2
2 pcs of Bolt and Nut B13



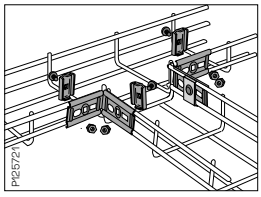
To join the bend:
1 pce of Angled fitting B27
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13.



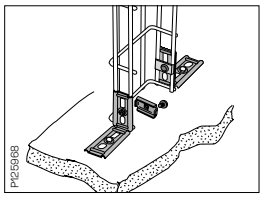
The bend can be adjusted by shaping the Angled fitting B27 to the required angle.



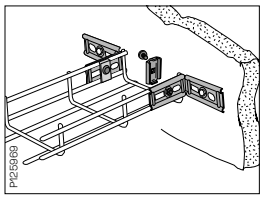
Tee with required angle is created with:
2 pcs of Angled fitting B27
4 pcs of Fitting B2
4 pcs of Bolt and Nut B13.



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.

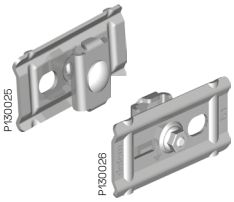


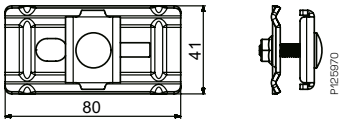
Mounting to wall is created with:
2 pcs of Angled fitting B27
2 pcs of Fitting B2
2 pcs of Bolt and Nut B13.

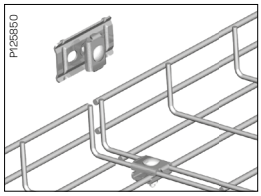
Joining set B52

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

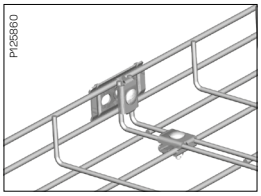
Note! For joining of 320 mm trays and wider, extra Fittings B2 need to be mounted with Bolt and Nut B13 in the bottom of the trays.







Mount Joining set B52 on the side section.

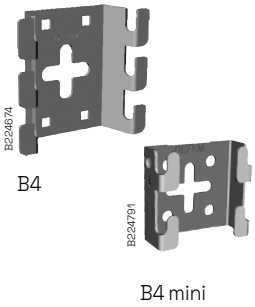


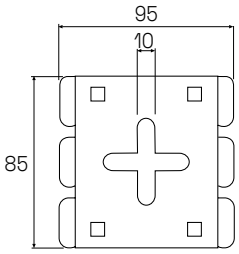
Tighten the bolt and the joining is finished.

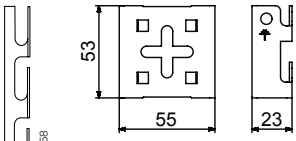
Technical information
Use and installation

Bracket B4/B4 mini

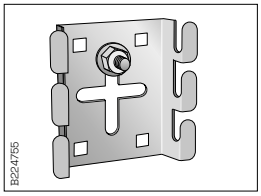
For mounting of Mesh trays 53-622 onto wall and floor.



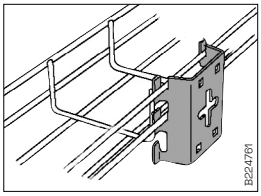




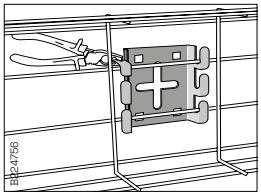
B4



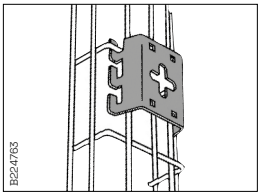
Mounted to wall/ceiling/ floor with Expansion bolt in middle hole or screws in corner holes.



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

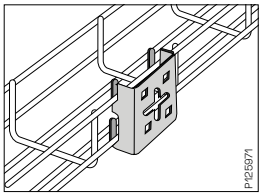


For increased stability, the B4 grips can be closed around the wires.

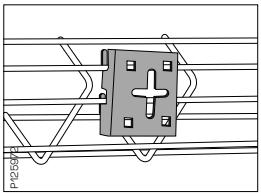


The mesh tray can also be mounted vertically.

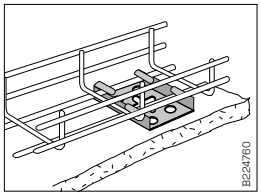
B4 Mini



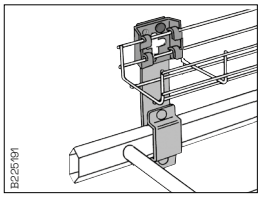
For horizontal mounting with bottom or side of tray onto the bracket grips.



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



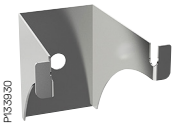
The Mesh tray can also be mounted to floor.



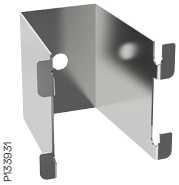
Mesh trays are mounted onto Combi Fitting B21 with Bracket B4 or B4 Mini.

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



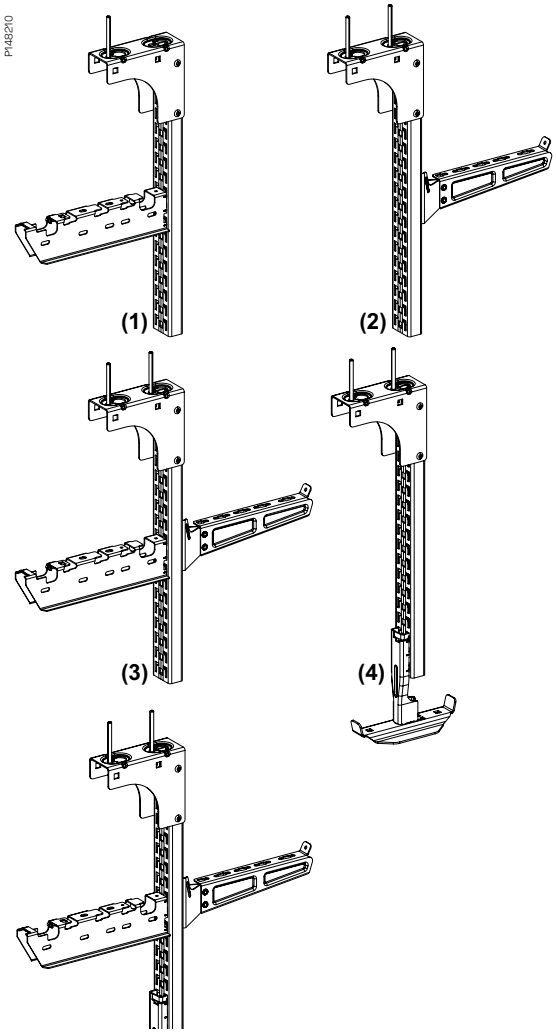
B4 100/4 is used for Mesh tray 220-320 mm

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.

Technical information

Use and installation - CLX³ Click suspension



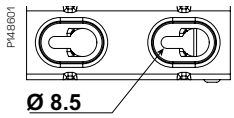
CLX³ General information

Standards
CLX³ installation system is tested and following the classification according to the IEC 61537.

Usage of gloves
According to IEC 61537 it is always recommended to use protective gloves when handling and manipulating cable support systems.

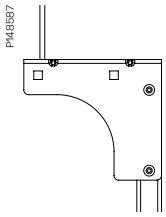
Handling and storage
- Store in dry and covered places.
- Avoid moisture and pollutants.
- Do not remove the packing until installation.
- Take care when storing and handling so that the CLX³ components are well protected from damage.

CLX³ Pendant loading configurations
CLX³ pendant is primarily designed for installation of the CLX³ support system, but can also be used for T-bolt installation.
The system can be installed in different configurations:
- Click direction **(1)**: the cantilever and the ceiling plate are in the same direction
- T-bolt direction **(2)**: a cantilever is fixed with a T-bolt to the rail, in the opposite direction of the ceiling plate
- T installation **(3)**: combination of the first 2 installations
- Central suspension **(4)**: the pendant is completed by a central suspension bracket
- T and central suspension **(5)**.

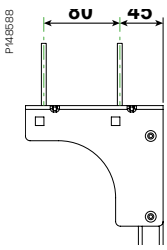


Fixation to the ceiling
Keyhole design
Keyhole design is facilitating easy mounting of the pendant to the ceiling by allowing the bolts to be pre-fixed before finally placing the pendant and tightening the bolts.

For concrete ceiling, use bolts type IMT38051.
For other bolts where bolthead is < 16 mm use washer u 16 mm.



One bolt fixation
For click direction installation of CLX³ Cantilever arm **(1)**, use a single bolt, in the outer hole position on the ceiling plate.



Two bolt fixation
For T-bolt suspension, central suspension, T installation and T and central suspension installation **(2)**, **(3)**, **(4)**, **(5)**, always fix the ceiling plate to the ceiling using 2 bolts.

Use the angle adaptor when the ceiling is not horizontal to level out the suspended pendant.

Technical information

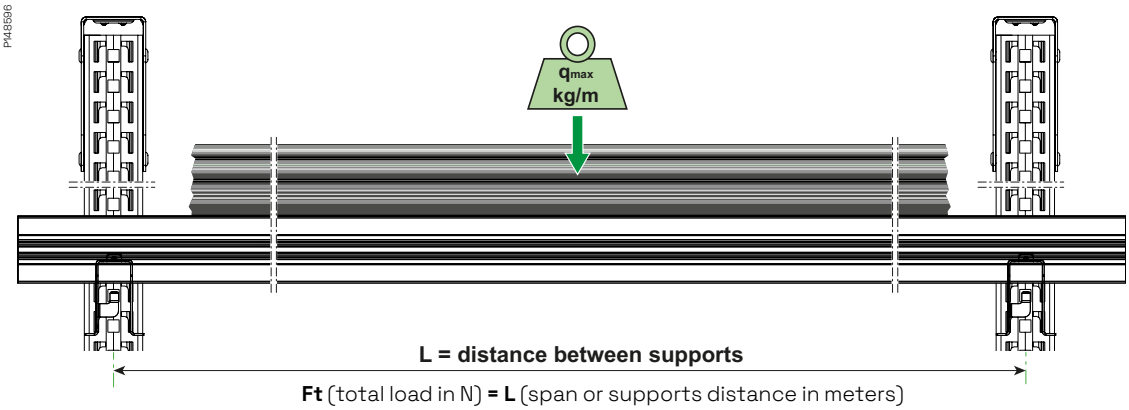
Use and installation - CLX³ Click suspension

CLX³ Pendant load calculation

To verify that the load applied to each pendant is within performance, it is necessary to calculate and consolidate the total **tensile load force** and the total **moment-force** on each pendant and for each cantilever and after that compare the calculated values with the defined loading limitations to ensure a safe installation.

Total tensile force Ft calculation method

This is calculated as the sum of all forces applied to the pendant from the weight of cables on the length material.



Ft (total load in N) **= L** (span or supports distance in meters) x **qmax** (load in kg/m) **x 10**.

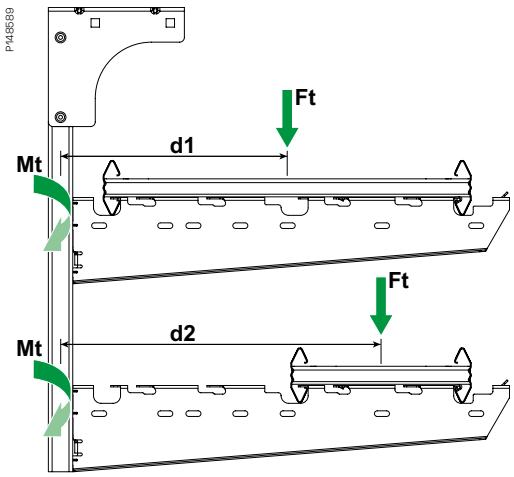
In case of several layers are installed on the pendant then the sum of the Ft tensile load from all layers shall be calculated.

Total momentum force Mt calculation method

This is calculated as the sum of all the torsion forces applied to the pendant from the weight of cables on the length material and the offset distance created by the cantilever arm.

Mt (momentum in N.m) **= Ft** (N) x **d** (distance between axis center and point load in meters)

"**d**" depends of the position of the length material on the cantilever arm.



The distance **d** can be different depending on installation method.
When the length material is installed on the full width of the cantilever, use **d1**.
For length material that are installed at the outer end of the arm, use **d2**.

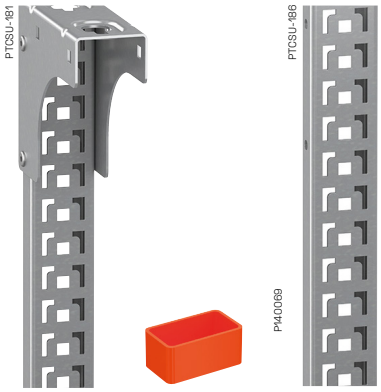
Model	PG	d1 (m)	d2 (m)
CLX³ cantilever arm 150	CSU795872	0.110	NA
CLX³ cantilever arm 200	CSU795873	0.140	
CLX³ cantilever arm 300	CSU795874	0.190	
CLX³ cantilever arm 400	CSU795649	0.240	0.340
CLX³ cantilever arm 500	CSU795650	0.290	0.440
CLX³ cantilever arm 600	CSU795651	0.340	0.490

In case of several layers are installed on the pendant then the sum of the Mt momentum force from all layers shall be calculated.

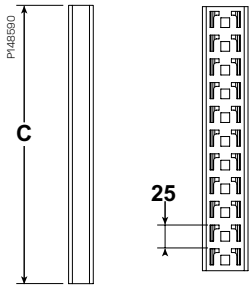
Ensure that the installation is designed so that ⍰Mt and ⍰Ft are under the limits.

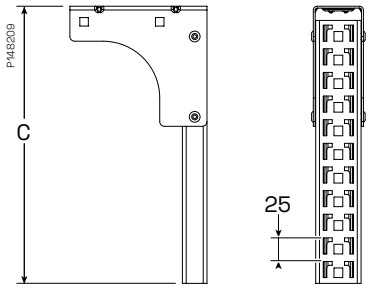
Technical information

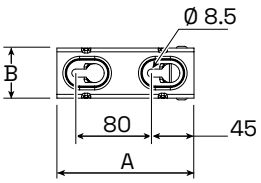
Use and installation - CLX³ Click suspension



End Plug 28E







CLX³ Pendant 24/48

Vertical piece with a perforated pattern to be used for installation of CLX³ cantilever arms or CLX³ central suspension adapter. The open side of the rail can be used for installation of cantilever arms and brackets together with T-bolt. Can be joined to CLX³ Rail 24/48 with pendant joint 2FJ.

Model	PG	High (mm) A	Width (mm) B	Length (mm) C
CLX³ pendant				
CLX³ pendant 24/48 300 mm PG	CSU795632	145	53	295
CLX³ pendant 24/48 400 mm PG	CSU795633			395
CLX³ pendant 24/48 500 mm PG	CSU795634			495
CLX³ pendant 24/48 700 mm PG	CSU795635			695
CLX³ pendant 24/48 1000 mm PG	CSU795636			995
CLX³ pendant 24/48 1500 mm PG	CSU795638			1495
CLX³ rail				
CLX³ rail 24/48 300 mm PG	CSU795640	26	48	280
CLX³ rail 24/48 1000 mm PG	CSU795641			980
CLX³ rail 24/48 3000 mm PG	CSU795637			2980

Pendants Safe Working Load (SWL)

SWL for bending moment of the pendant Mt.

Model	PG	Moment (N.m) Click side	Deflection (mm)
CLX³ pendant 24/48 300 mm PG	CSU795632	235	2
CLX³ pendant 24/48 400 mm PG	CSU795633		4
CLX³ pendant 24/48 500 mm PG	CSU795634		7
CLX³ pendant 24/48 700 mm PG	CSU795635		15
CLX³ pendant 24/48 1000 mm PG	CSU795636		30
CLX³ pendant 24/48 1500 mm PG	CSU795638	200	30

Tested according to IEC 61537 standard.

SWL bending moment for Adjustable ceiling plate Mt.

Model	PG	Moment (N.m) Click side
CLX³ adjustable ceiling plate	CSU795639	235

SWL pendant tensile strength Ft.

Model	PG	Tensile load SWL (N) 1 bolt CLX³	Tensile load SWL (N) 2 bolts CLX³
CLX³ pendant 24/48 300 mm PG	CSU795632	2000	5000
CLX³ pendant 24/48 400 mm PG	CSU795633		
CLX³ pendant 24/48 500 mm PG	CSU795634		
CLX³ pendant 24/48 700 mm PG	CSU795635		
CLX³ pendant 24/48 1000 mm PG	CSU795636		
CLX³ pendant 24/48 1500 mm PG	CSU795638		

Technical information

Use and installation - CLX³ Click suspension

CLX³ Pendant limits, torque and deflection

In the diagram below it is possible to check if **Mt** is below the momentum limitation of the pendant (end of line). It is also possible to see the deflection on the pendant at max **Mt** and all values below.

Calculation example

For a cantilever size 600, full size ladder installation, 3 m span, load of 23 kg/m on a 1000 mm pendant.

1) **F**: 3 m (span) x 23 kg/m (load) x10 = 690 N will be the load for each pendant system.
2) **Mt**: 690 (N) x 0.34 (m) = 234 N.m.

F = 690 N ≤ 2000 N and **Mt** = 234 Nm ≤ 235 N.m.

3) Drawing of the lines on the graph: for 234 N.m, the deflexion on the pendant is **30 mm**.

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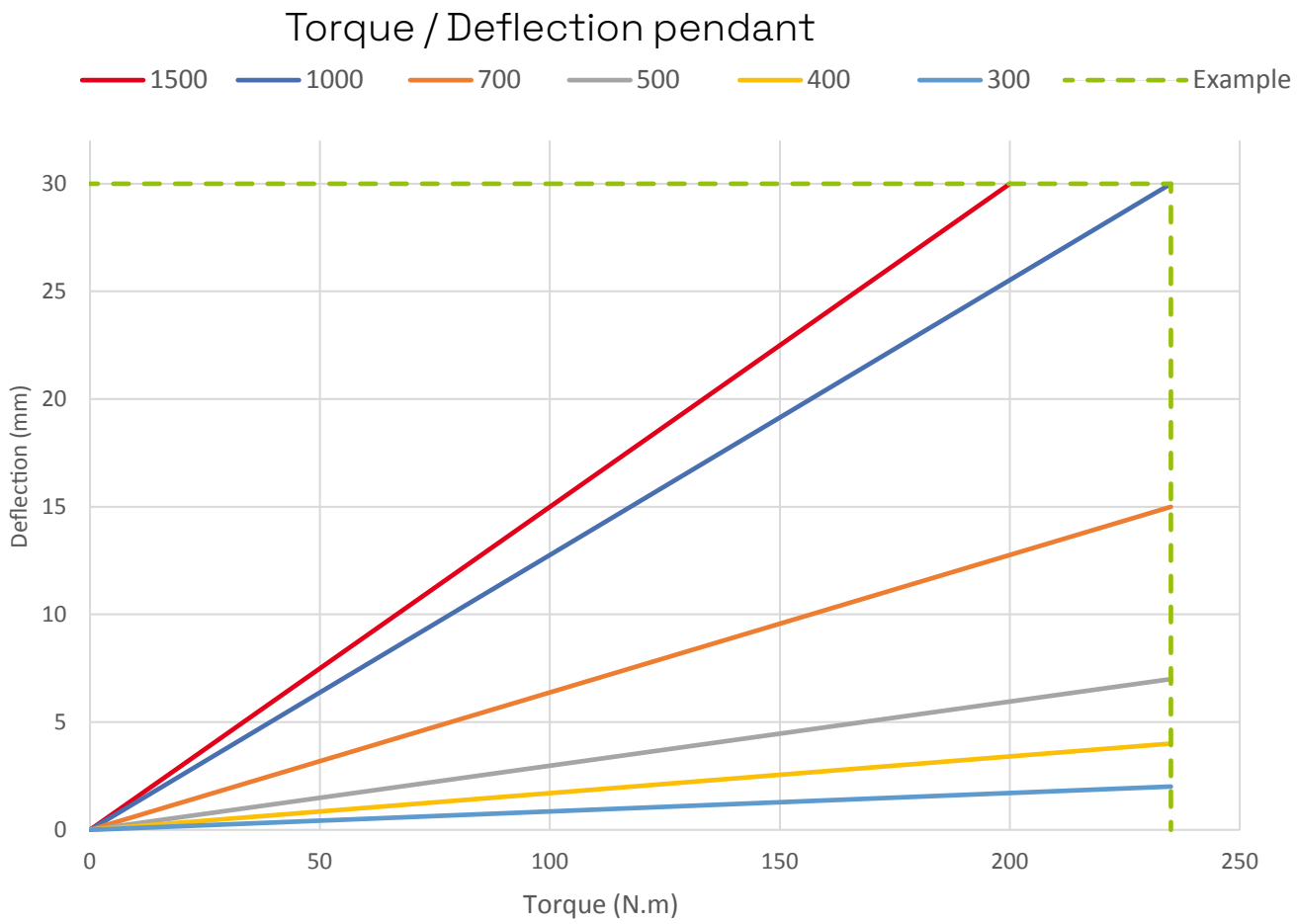
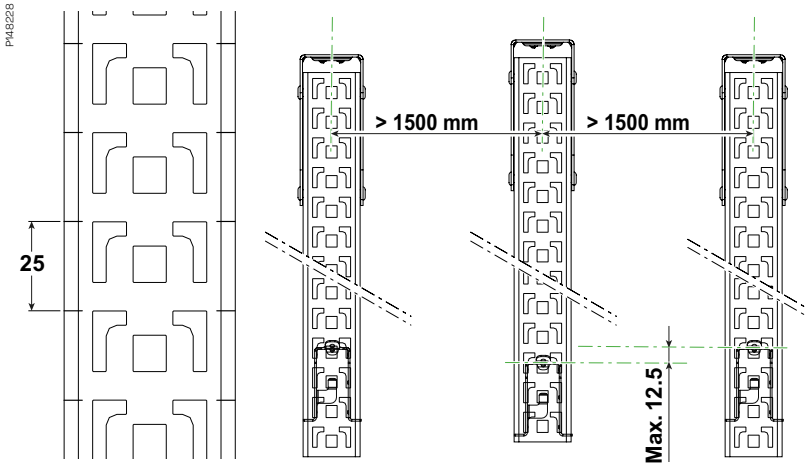


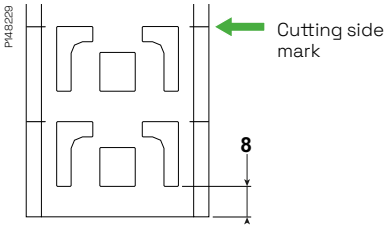
Technical information

Use and installation - CLX³ Click suspension

Distance between rails and offset

CLX³ rail have a pitch between the patterns of 25 mm.
The support distance between the pendants should be at least than 1.5 m. If the length material can't be installed on the exact same level, the length material should be installed on the closest offset- pitch and never at more than 12.5 mm vertically from the previous pattern.



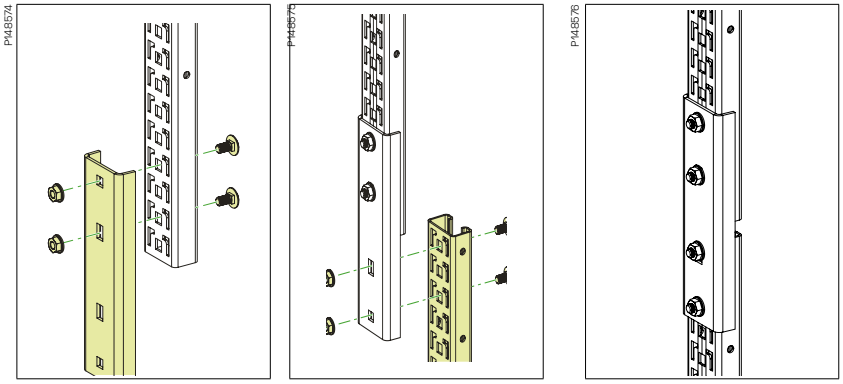


Cutting of the pendant or rail

Cutting of the rail or the pendant should be made at 8 mm under the last pattern needed, as the side marks are showing. This to assure that there is enough material below the bottom pattern to secure proper fixation of the cantilever arm.

Installation of the rail joint

CLX³ rails can be joined together with pendant joint 2FJ.



Place the joint on the rail in place, make sure the 2 top holes are in front of slots to install the included bolts and nuts.

Install the second rail as high as possible and install the other bolts and nuts.

Torque of the nuts **11 N.m.**

Note: extending the pendant with the rail joint will decrease the load capacity of the pendant. For SWL information when extending the pendants, contact Technical support.

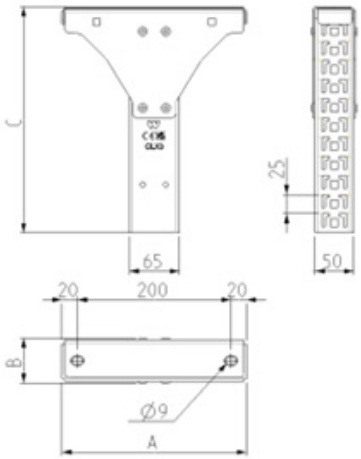
Technical information

Use and installation - CLX³ Click suspension

CLX³ Double-sided pendant

Vertical piece/pendant, double sided to be used for ceiling suspended mounting. Perforated pattern on both sides to be used with CLX³ cantilever arm. Use for double sided mounting, or for heavy asymmetric loads.
Material: Steel, pre-galvanized.

Model	PG	High (mm) A	Width (mm) B	Length (mm) C	Weight /100pc (Kg)
CLX³ double-sided pendant					
300 mm PG	CSU795937	240	59	295	180
500 mm PG	CSU795938			495	241
700 mm PG	CSU795939			695	300
1000 mm PG	CSU795940			995	390
1500 mm PG	CSU795941			1495	542
CLX³ double-sided rail					
1500 mm PG	CSU795942	65	50	1480	448

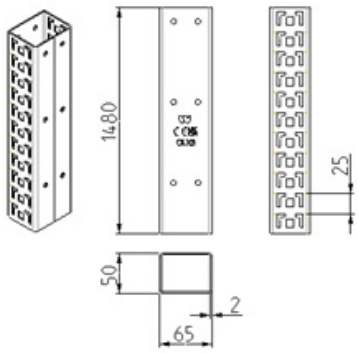


Pendants Safe Working Load (SWL)

SWL for bending moment of the double-sided pendant Mt.

Model	PG	Moment (N.m) Click side	Moment N.m. ECA application
300	CSU795937	1250	**725**
500	CSU795938		
700	CSU795939		
1000	CSU795940		
1500	CSU795941		

Tested according to IEC 61537 standard.
With double side Joint, the bending Moments of pendant are reduced of 50%



SWL pendant tensile strength Ft.

Model	PG	Tensile load SWL (N) 2 bolts
300	CSU795937	10800
500	CSU795938	
700	CSU795939	
1000	CSU795940	
1500	CSU795941	

Technical information

Use and installation - CLX³ Click suspension

Pendant limits, torque and deflection

In the diagram below it is possible to check if ⍰Mt is below the momentum limitation of the pendant (end of line). It is also possible to see the deflection on the pendant at max ⍰Mt and all values below.

Calculation example

For on 2 Cantilevers size 600, full size ladder installation, 3 m span, load of 23 kg/m on a 1000 mm pendant

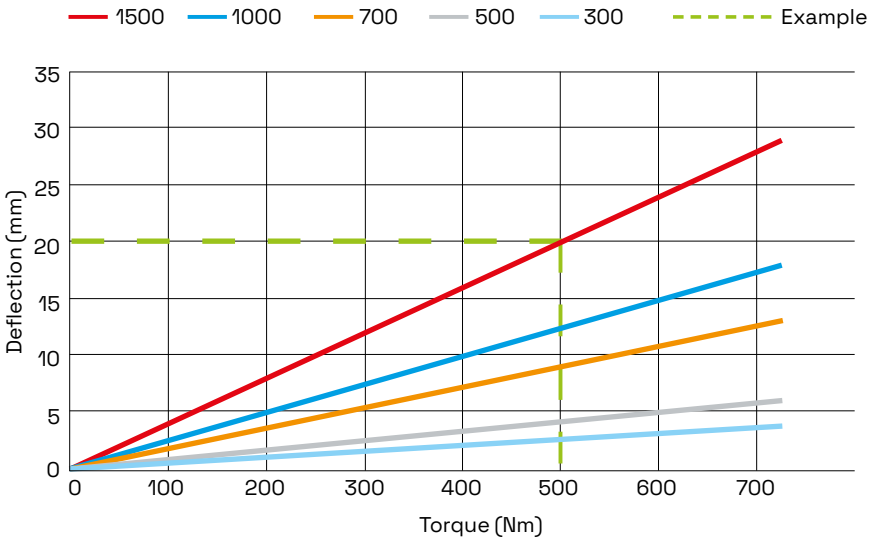
1) ⍰F: 1x 3 m (span) x 23 kg/m (Load) x10 =
= 690 N will be the load for each arm, so 1380 on each pendant system

2) ⍰Mt: 2 x 690 (N) x 0,34 (m) = 469 N.m

⍰F = 1380 N ≤ 10800 N and ⍰Mt =
= 469 Nm ≤ 725 Nm

3)Drawing of the lines on the graph: For 469 Nm, the deflection on the pendant is 19 mm

Torque / Deflection
Double-sided pendant

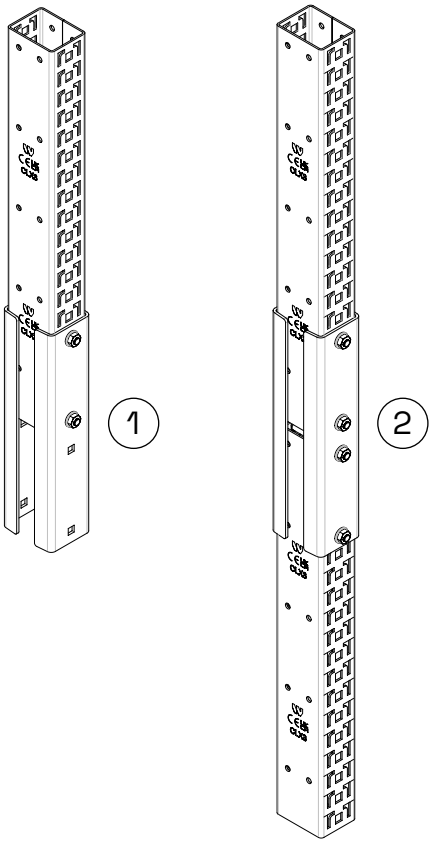


Technical information

Use and installation - CLX³ Click suspension

Joint for CLX³ double-sided rail

Pendant joint to be used for joining CLX double pendant with CLX double rail. Two joining brackets with screw M8x80 and nuts included.
Tightening force of the screw set minimum torque 11 N.m.
Material: Steel, pre-galvanized.



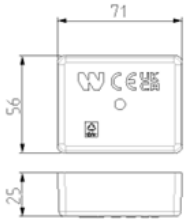
Installation of the Rail joint for double sided pendant

CLX³ double sided rails can be joined together with the Joint double-sided CLX³ rail kit CSU795943

1: Place the brackets inwards on the rail in place, make sure the 2 top holes are in front of square holes to install 2 of the included bolts and nuts, without tightening them.

2: Install the second rail as high as possible and install the other bolts and nuts. Recommended torque of the nuts: 11 Nm

Note: extending the pendant with the rail joint will decrease the load capacity of the pendant 50% less bending moment. For SWL information when extension, contact Technical support.

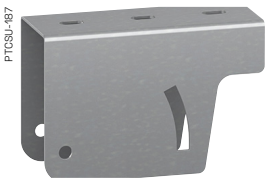


End cap for CLX³ double-sided rail

End plug to be mounted on CLX double side pendant ends to provide protection against personal injury and to make the ends of the profile more clearly visible.
Non flame propagating and Halogen free material.
Material: PP/TPE, orange.

Technical information

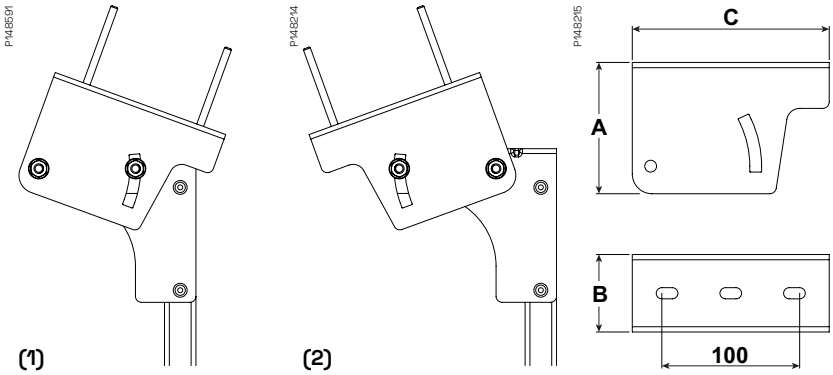
Use and installation - CLX³ Click suspension



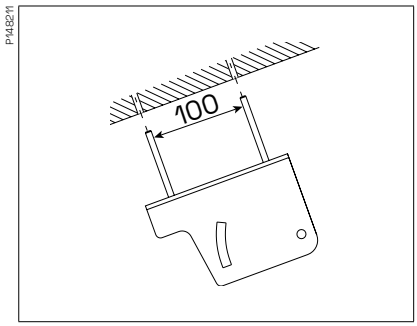
Adjustable ceiling plate

Adjustable ceiling plate is used together with CLX³ pendant to allow for angle correction up to 25°. The adjustable ceiling plate is fixed to the CLX³ pendant with 4 screw set 22S to be ordered separately. The pendant can be fixed to the adjustable ceiling plate in both possible directions (**1**) and (**2**).

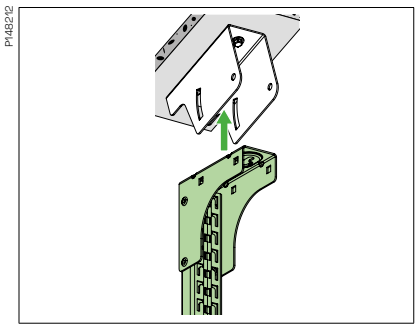
Model	PG	High (mm) A	Width (mm) B	Length (mm) C
CLX³ adjustable ceiling plate PG	CSU795639	100	59	150



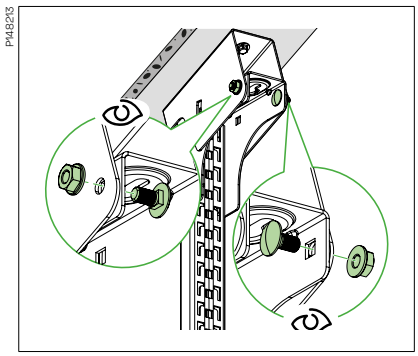
Installation of the adjustable ceiling plate

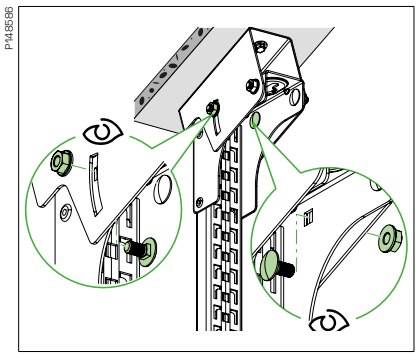


Fix the adjustable ceiling plate to the ceiling with 2 bolts. (c-c: 100 mm).



Insert the pendant into the adjustable ceiling plate.

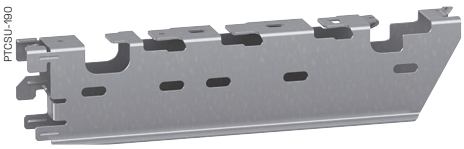


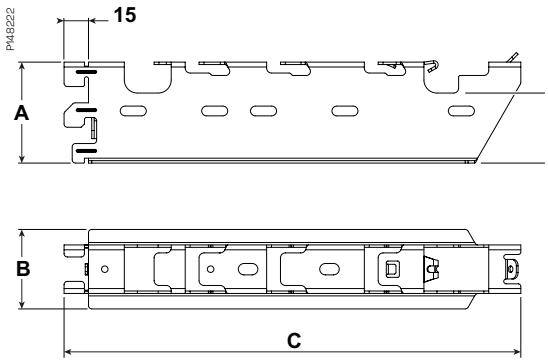


Fix the pendant to the adjustable ceiling plate with 4 bolt sets 22S and align the pendant to the vertical plane before tightening the bolts.
Recommended torque 20 N.m.

Technical information

Use and installation - CLX³ Click suspension

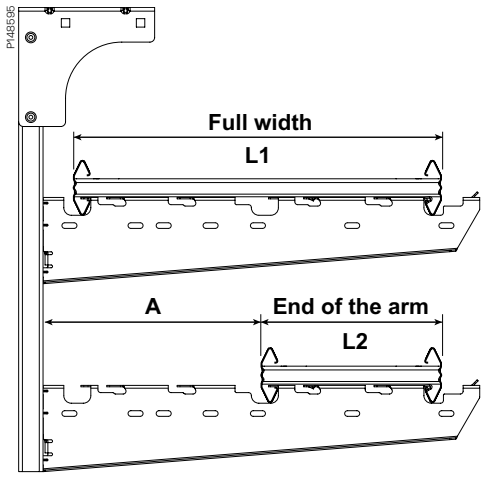




CLX³ Cantilever arm

The CLX³ cantilever arm is a screw-less cantilever that clicks into the pattern in the CLX³ pendant and rail. The cantilever arm is used to fix either the KHZSP ladder, the Defem mesh tray or the Stago height 60 trays. It can also be used for the Performa mesh trays together with fixation bolts.

Model	PG	High (mm) A	Width (mm) B	Length (mm) C	Height below ladder (mm) D
CLX³ cantilever arm 150 PG	CSU795872	62	49	220	NA
CLX³ cantilever arm 200 PG	CSU795873	62	49	280	43
CLX³ cantilever arm 300 PG	CSU795874	62	49	380	43
CLX³ cantilever arm 400 PG	CSU795649	92	49	480	73
CLX³ cantilever arm 500 PG	CSU795650	92	49	580	73
CLX³ cantilever arm 600 PG	CSU795651	92	49	680	73



Cantilever arm size compatibility

The click pattern on the cantilever arm is in some cases fitting more than one ladder width to make it possible to avoid pillars or obstacles on the wall.
See the table and illustration below.

The table also clarifies which cantilever arm to use for each with of Defem mesh tray.

Model	PG	Compatible ladder		Space to the offset ladder (mm)	Defem size compatibility
			(offset)		
		L1	L2	A	
CLX³ cantilever arm 150 PG	CSU795872	NA	NA	NA	120
CLX³ cantilever arm 200 PG	CSU795873	200	NA	NA	220
CLX³ cantilever arm 300 PG	CSU795874	300	NA	NA	320
CLX³ cantilever arm 400 PG	CSU795649	400	200	232	420
CLX³ cantilever arm 500 PG	CSU795650	500	200	332	520
CLX³ cantilever arm 600 PG	CSU795651	600	300	332	620

Cantilever arms Safe Working Load (SWL)

SWL of the cantilever bracket

Model	PG	Safety working load as wall bracket (full width) (N)	Safety working load as wall bracket (end of the arm) (N)
CLX³ cantilever arm 150 PG	CSU795872	1800	NA
CLX³ cantilever arm 200 PG	CSU795873	1800	
CLX³ cantilever arm 300 PG	CSU795874	1250	
CLX³ cantilever arm 400 PG	CSU795649	1250	1000
CLX³ cantilever arm 500 PG	CSU795650	1250	750
CLX³ cantilever arm 600 PG	CSU795651	1000	700

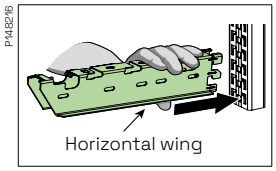
Tested according to IEC 61537 standard.

Technical information

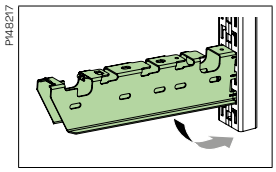
Use and installation - CLX³ Click suspension

Installation of cantilever arms

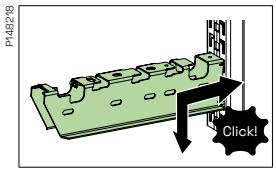
CLX³ cantilever arms are clicked to the CLX³ pendants and rails. Make sure to select a pattern allowing all hooks to grip and the full cantilever back to be supported by the rail. The horizontal wing must touch the rail.



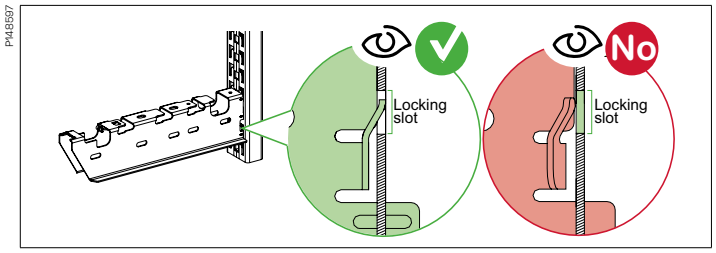
Hold the cantilever close to the hooks and insert the hooks in the rail.



Press the cantilever until the horizontal/top surface touch the rail.



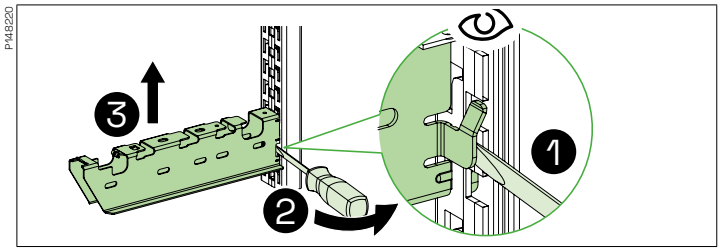
Press against the rail and pull it down until the locking lip go inside the slot in the rail.



Visually check that the cantilever arm is properly positioned and the locking lip is positioned inside of the slot of the CLX³ rail.

Apply caution with unintended upward movements as it can cause the cantilever arm to unlock and therefore be released from the rail.

Uninstallation of CLX³ cantilever arm using screwdriver



❶ Fit the head of the screwdriver between the rail and the locking lip of the cantilever.
Use the screwdriver as a lever to ❷ push the lip out of the rail.
Deform the lip as little as possible and ❸ push the cantilever up to be able to unhook the cantilever arm.

Before reinstalling a cantilever that has been removed after installation, make sure the lip is locking properly. If not, correct the lip to the initial position.

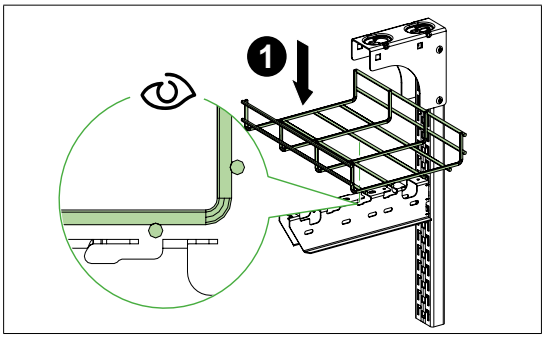
Technical information

Use and installation - CLX³ Click suspension

Installation of Defem mesh trays on cantilever arms

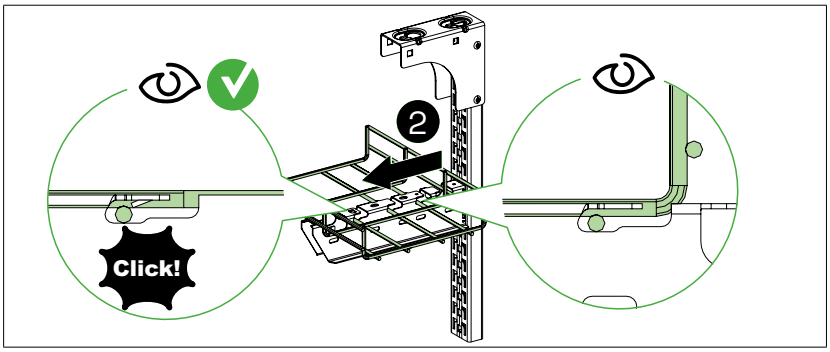
CLX³ cantilever arms are designed to fix Defem mesh trays, height 60 and 110, without need of tools or bolts.

P148582



❶ Insert the longitudinal wires in the slots.

P148583

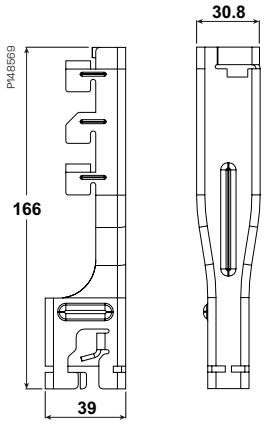


❷ Pull the mesh tray horizontally towards the tip of the cantilever arm until the mesh tray wire passes the locking lip and clicks into position.

Process in the opposite order to dismount the mesh tray.

Technical information

Use and installation - CLX³ Click suspension



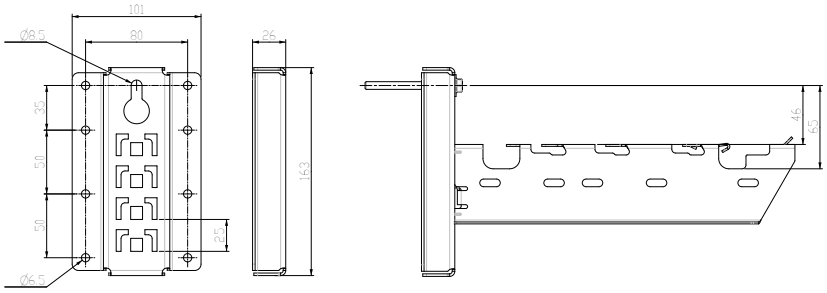
CLX³ Central suspension adapter

The CLX³ central suspension adapter is clicked together with the central suspension brackets to create a central suspension piece that can be clicked to the rail or pendant.

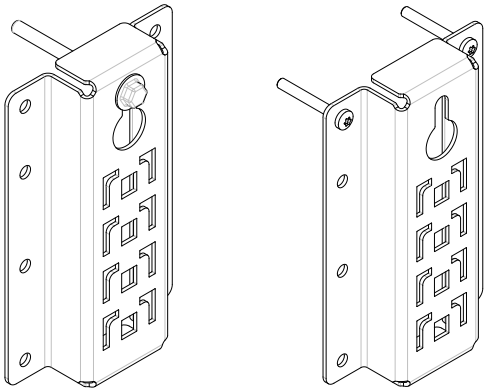
Model	PG	High (mm) A	Width (mm) B	Length (mm) C
CLX³ Central suspension adapter PG	CSU795700	166	31	39

Installation of the Wall bracket

The Wall bracket is made to directly fix a Cantilever arm to a wall, without using a full-size rail. The Wall bracket doesn't reduce the SWL of the cantilever arm and the distance between the back of the cantilever and the wall is the same as with a rail.



The wall bracket can be fixed in two different ways:
With the keyhole (A) or with the lateral holes (B).



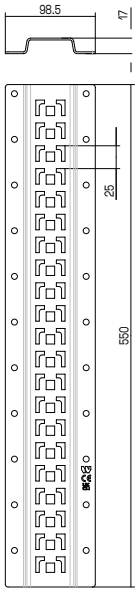
(A) (B)

The keyhole design allows to pre-fix the bolt in the wall, before installing the bracket.
For concrete wall, use bolts IMT38051.
For non-concrete wall, M8 bolts with washer >Ø16 should be used.

For the lateral holes, the bracket should always be fixed with at least the two top Ø6mm holes (same hight as the keyhole). The left and right bolts should be horizontally separated by 80mm (axis to axis).

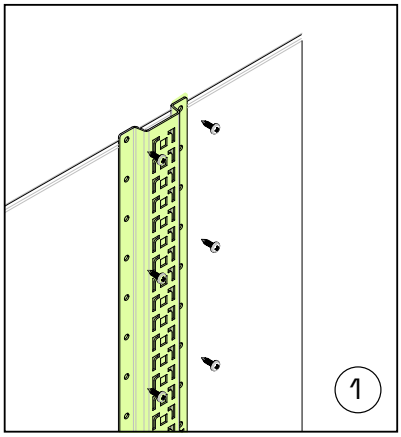
Technical information

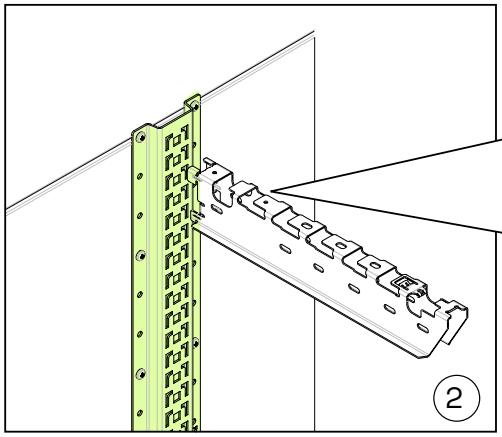
Use and installation - CLX³ Click suspension

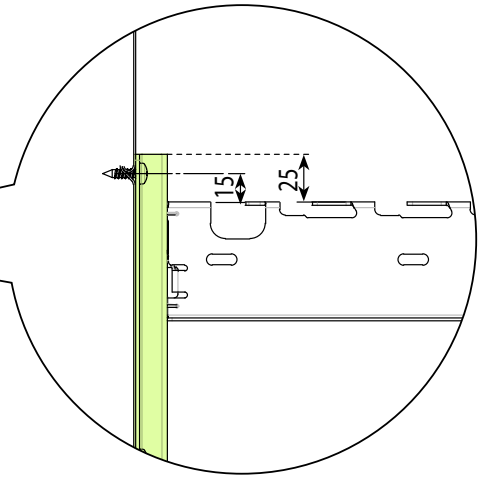


Wall support 550 CLX³

Wall support for mounting of CLX3 cantilever arm on porous walls or sandwich wall blocks, with six keyholes for easy fixation.
Material: Steel, pre-galvanized.

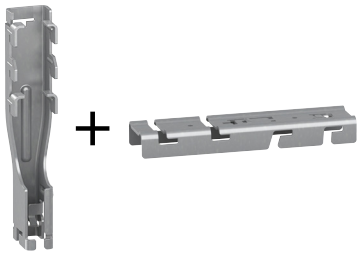






Technical information

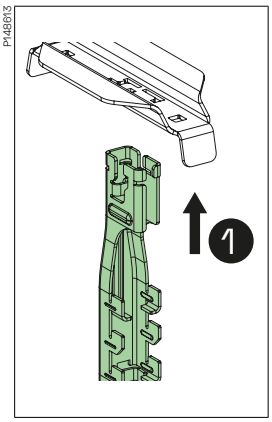
Use and installation - CLX³ Click suspension



Installation of adaptor to central suspension brackets

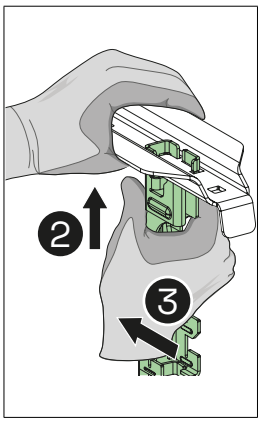
The CLX³ central suspension bracket is installed without tools by clicking it to the central suspension. The method is the same for Central suspension bracket ladder -mesh or -tray. In the illustration below, the CSB for ladder is used.

P148613



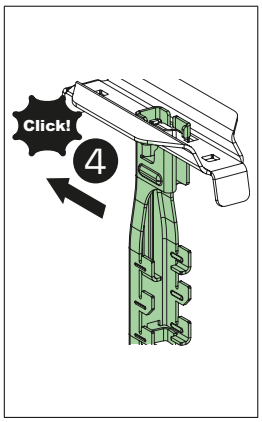
❶ Insert the adaptor in the pattern on the central suspension bracket.

P148614

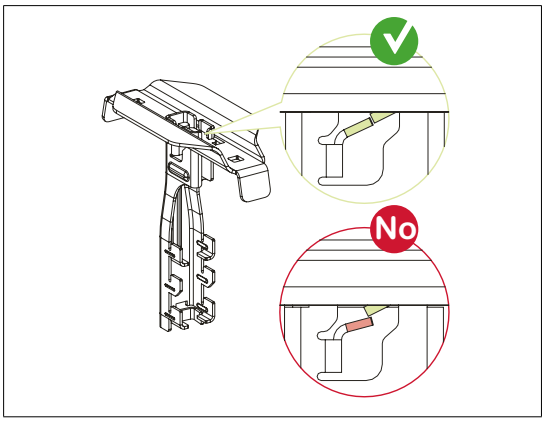


❷ Press the pieces together and ❸ slide the adaptor until the click lip of the adaptor pass over the locking lip of the central suspension bracket with a ❹ click.

P148615



P148616

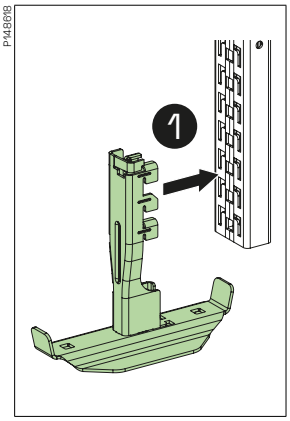


Visually check and secure that the adaptor is properly positioned, and the click lip has overpassed the locking lip.

Installation of central suspension adapters to the CLX³ rail

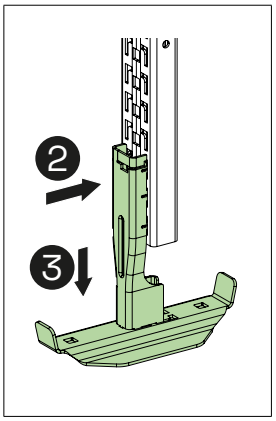
The CLX³ central suspension adaptors is installed to the rail without tools, by clicking. To ensure proper installation a hooks must be inserted in the rail:

P148618



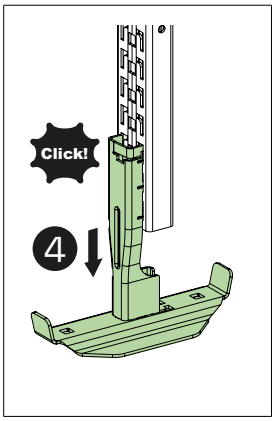
❶ Push the central suspension piece until the hooks are fully inserted in the pattern and the surface touches the rail.

P148619



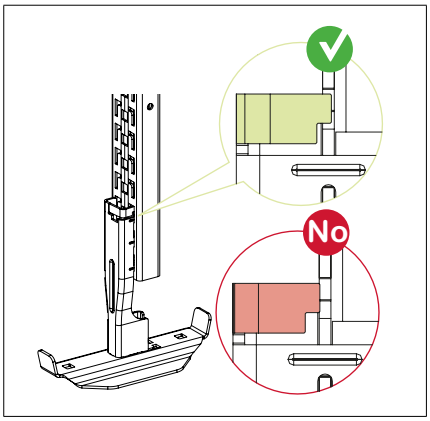
❷ Press towards the rail and ❸ pull down until the click lip.

P148620



❹ Pass inside the slot in the rail.

P148621



Visually check and secure that the adaptor is properly positioned, and the click lip is properly positioned inside of the slot of the CLX³ rail.

Apply caution with unintended upward movements as it can cause the adaptor to unlock and therefore be released from the rail

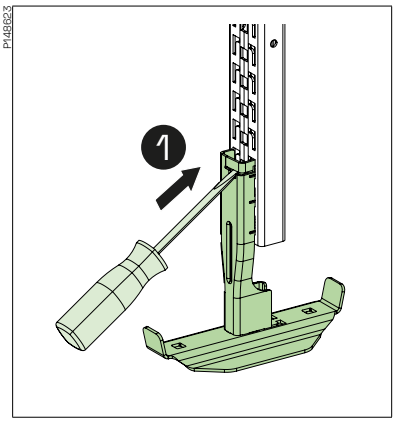
Technical information

Use and installation - CLX³ Click suspension

Uninstallation of adapter from the CLX³ rail

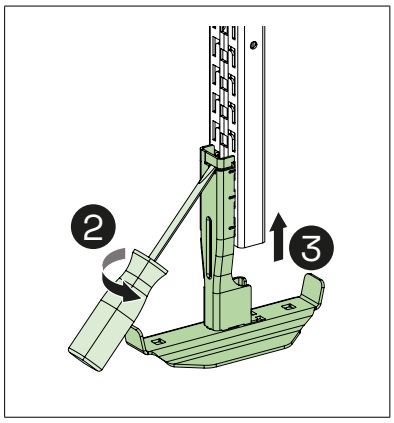
CLX³ central suspension adapters can be removed, by using a flat screwdriver.

P148623



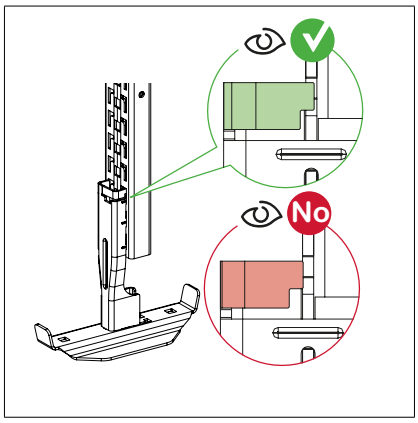
❶ Fit the screwdriver's head in the slot of the adaptor.

P148624



Use the screwdriver as a lever to ❷ gently release the click lip from the rail. Then ❸ push the adaptor up to release the L hooks from the rail.

P148621

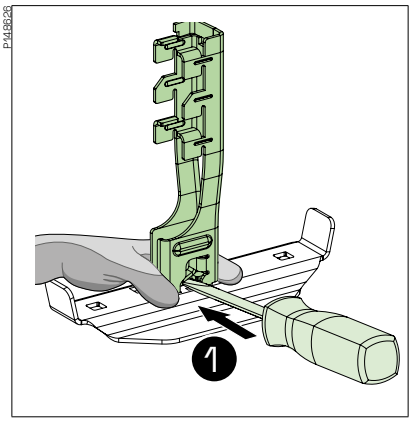


If the adapter needs to be reinstalled, correct the click lip to the initial position and make sure the click lip is locking properly.

Uninstallation of adaptor from central suspension brackets

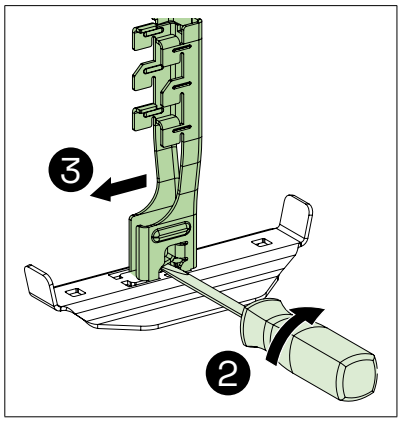
CLX³ central suspension brackets can be removed, by using a flat screwdriver.

P148626



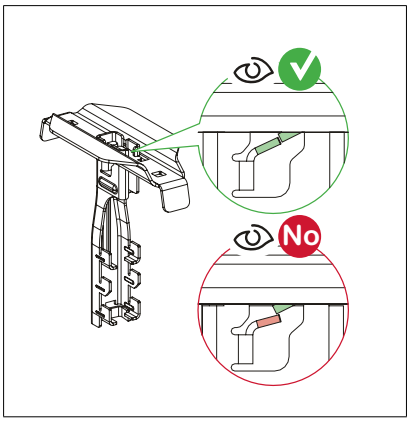
❶ Hold the bracket, fit the screwdriver's head between the adaptor lip and the bracket.

P148627



❷ Twist the screwdriver to use it as a lever on the click lip until it passes over the bracket's locking lip and ❸ pull the adaptor sideways to release it.

P148616



When the bracket needs to be reinstalled, correct the click lip to the initial position and make sure the click lip is locking properly.

Technical information

Use and installation - CLX³ Click suspension

PTCSU-207

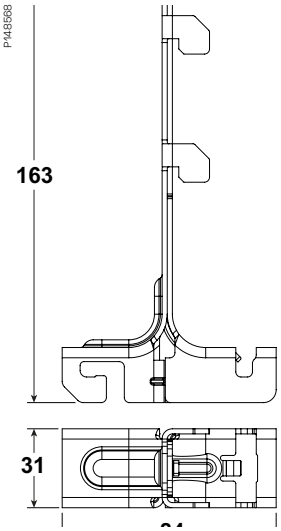
PTCSU-208

CLX³ Defem mesh tray central suspension bracket

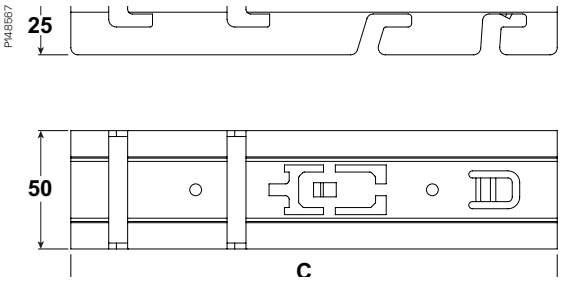
Bracket to be used for central suspension of Defem mesh trays. The bracket shall be used for mounting Defem mesh trays on vertical pieces.

Model	PG	High mm A	Width mm B	Length mm C
CLX³ Defem central suspension bracket 120-220 PG	CSU795665	163	31	84
CLX³ Defem central suspension bracket 320 PG	CSU795666	25	50	206
CLX³ Defem central suspension bracket 422 PG	CSU795668	25	50	397
CLX³ Defem central suspension bracket 522-622 PG	CSU795667	25	50	497

P448568



P448567



Defem Central suspension bracket	Symmetric load (N)
120	1000
220	1000
320	1000
422	900
522-622	700

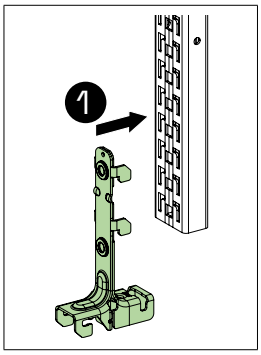
Technical information

Use and installation - CLX³ Click suspension

Installation of central suspension bracket for Defem mesh tray 120/220

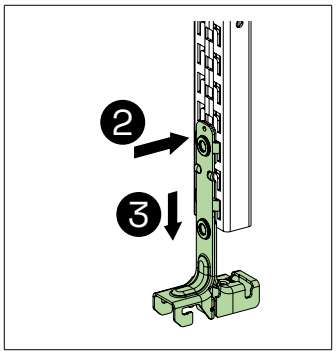
CLX³ central suspension bracket for Defem 120/220 width don't require tools to be installed.

P148637



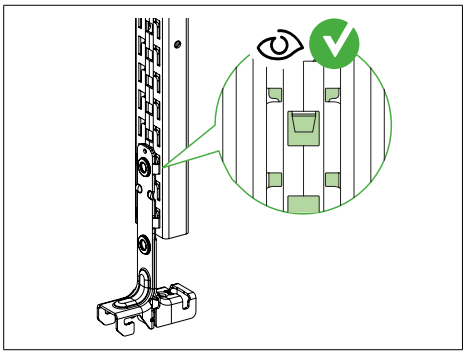
❶ Press the bracket until the hooks are fully inserted in the pattern and the surface touches the rail.

P148638



❷ Press against the top of the bracket towards the rail and ❸ pull it down until the locking lip go inside the slot in the rail.

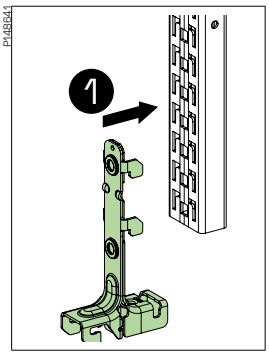
P148639



Visually check and secure that the cantilever arm is properly positioned and the locking lip is positioned inside of the slot in the CLX³ rail.

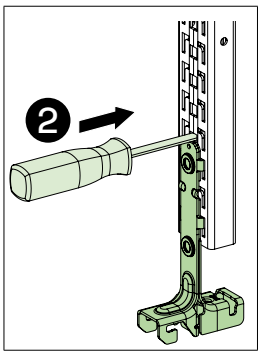
CLX³ central suspension bracket for Defem 120/220 can also be installed by using a screwdriver.

P148641



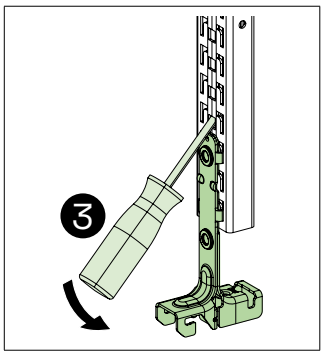
❶ Press the bracket until the hooks are fully inserted in the pattern and the surface touches the rail.

P148642



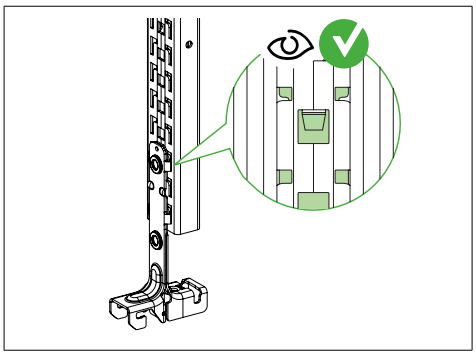
Hold the bracket and ❷ insert the screwdriver in the slot just above the bracket.

P148643



❸ Use the screwdriver as a lever to pull down the bracket until the locking lip go inside the slot in the rail.

P148639

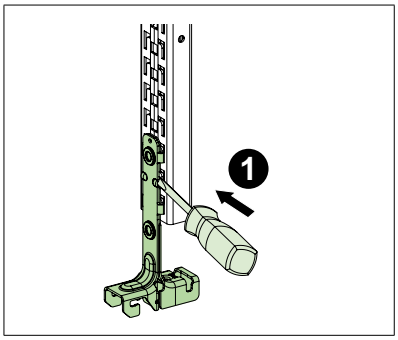


Visually check and secure that the bracket is properly positioned, and the click lip is positioned inside the slot in the CLX³ rail.

Uninstallation of central suspension brackets for Defem 120/220 from the CLX³ rail

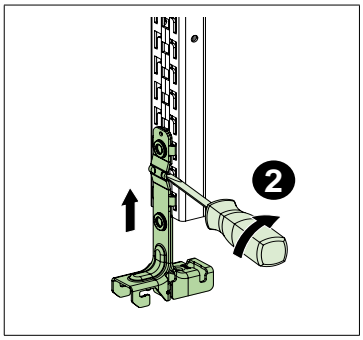
CLX³ central suspension brackets for Defem 120/220 can be removed, by using a flat screwdriver.

P148644



❶ Insert the head of the screwdriver in the bump in the bracket and with the head simultaneously gripping in one of the slots in the rail.

P148645



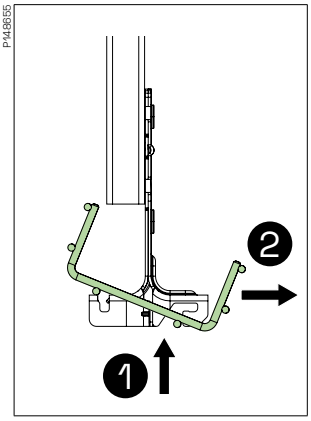
❷ Twist the screwdriver to push the bracket upwards until the bracket is released.

Technical information

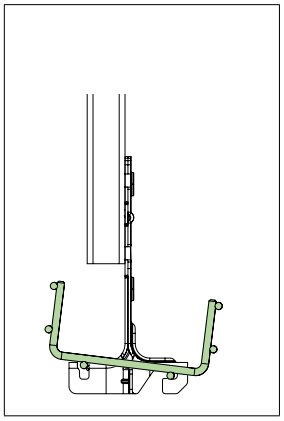
Use and installation - CLX³ Click suspension

Installation of Defem mesh tray on CLX³ Defem brackets 120/220

P148655

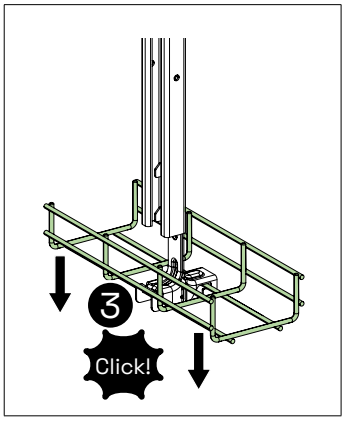


P148656



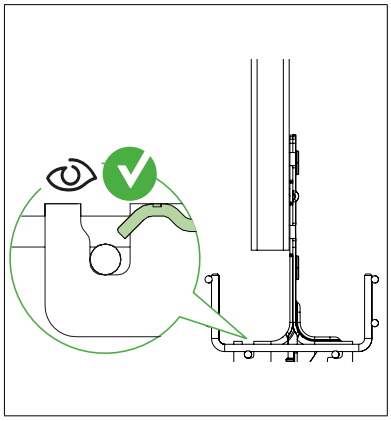
❶ Insert the longitudinal wire in the down slot, ❷ lift and push.

P148657



❸ Push down the other wire until it has overpassed the locking lip.

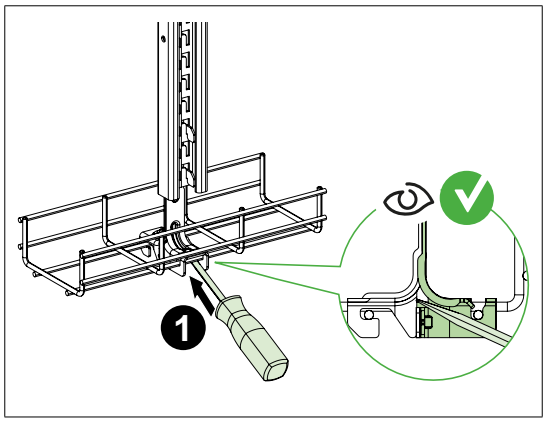
P148658



Visually check that the wire is properly positioned, and the wire has passed the locking lip.

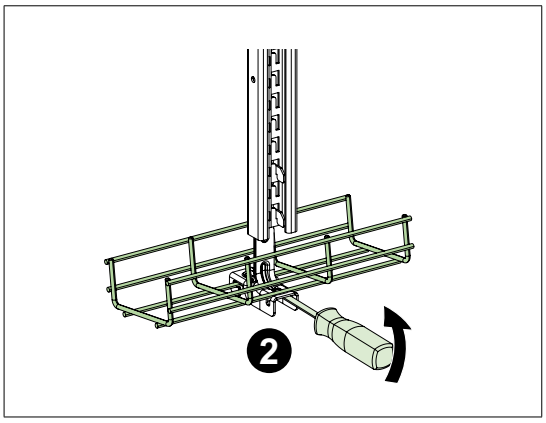
Uninstallation of Defem mesh tray from CLX³ Defem central suspension bracket 120/220

P148659



❶ Insert the head of the screwdriver above the reinforcement of the bracket and under the mesh tray as showed on the picture.

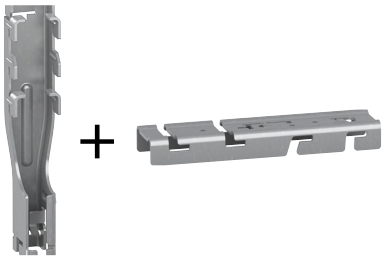
P148661



Hold the bracket and ❷ use the screwdriver as a lever until the mesh tray overpass the locking lip.

Technical information

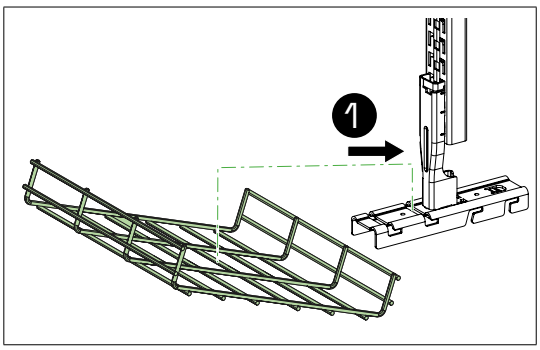
Use and installation - CLX³ Click suspension



Installation of Defem mesh tray on CLX³ central suspension bracket

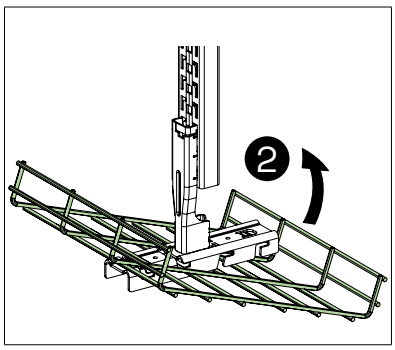
CLX³ brackets are made to fix Defem trays without tool.

P148651



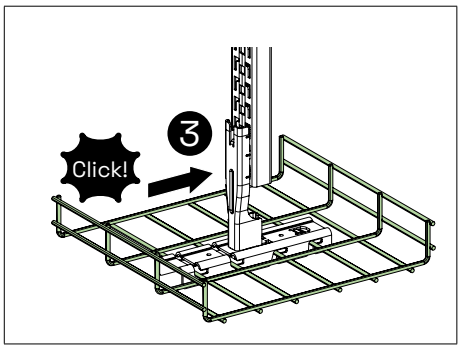
❶ Slide the middle of the mesh tray on the upper slot side of the bracket and insert the longitudinal wire on the most center top slot.

P148652



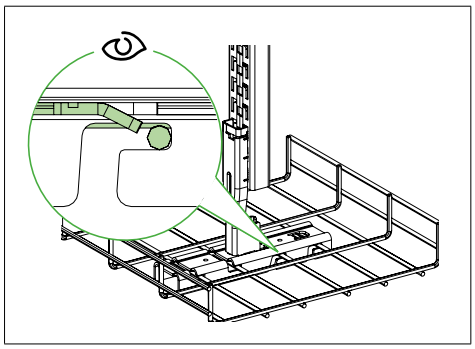
❷ Rotate the tray until all the slots are filled.

P148653



❸ Push the tray to lock it in the bracket.

P148654



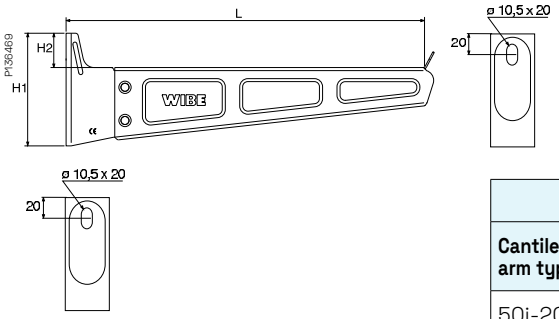
Visually check that the wire is properly positioned and the wire has passed the locking lip.

Technical information

Use and installation

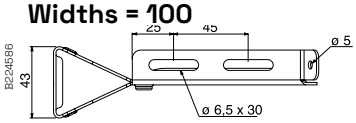
Cantilever arm 50i

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



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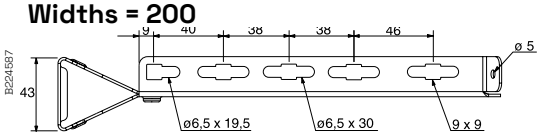

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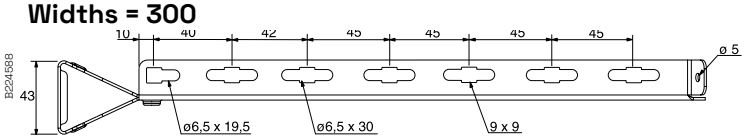

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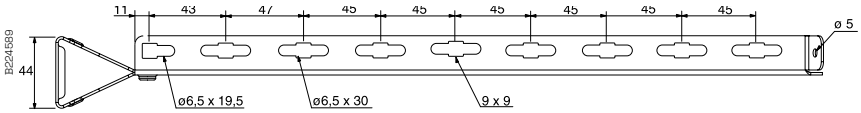
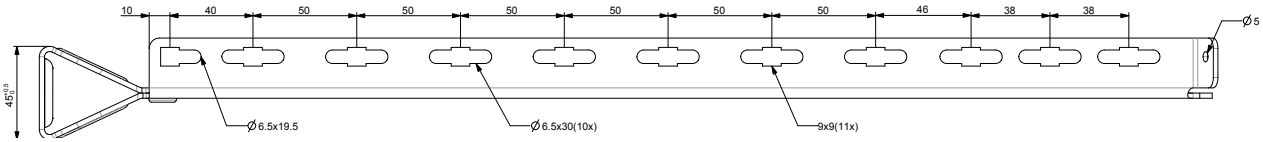


Widths = 500



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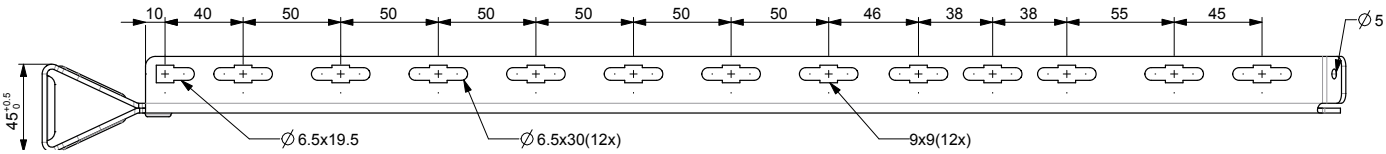
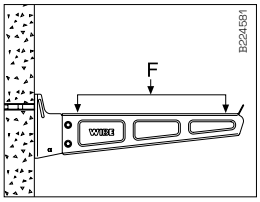
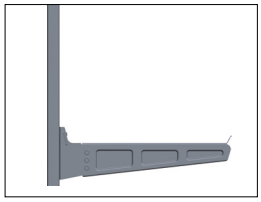


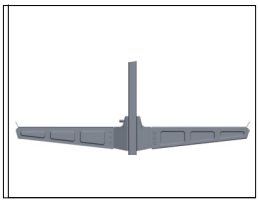
Technical information
Use and installation



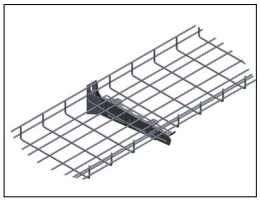
Installation of cantilever arm mounted to wall using Expansion bolt M8. Breaking load - See table below.



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.

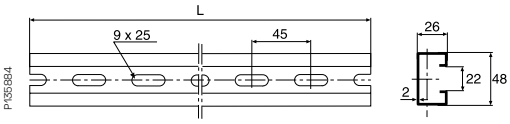
Safe Working Load (SWL) - Mounted on wall	
Type of cantilever arm	**kg**
50i-100	130
50i-200	120
50i-300	120
50i-400	170
50i-500	170
50i-600	170

Technical information
Use and installation

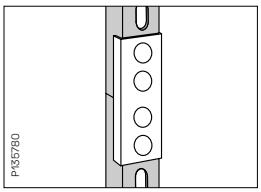
Pendant/Fixing rail 24/48

End plug 28E

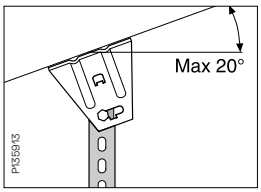
Pendant/Fixing rail for mounting of support brackets, cantilever arms, etc.



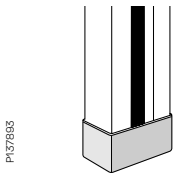
Type	L mm
Pendant/Fix. rail 24/48	2970



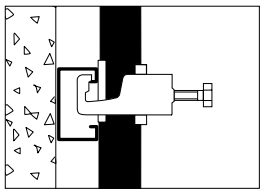
Vertical piece 2F may be joined using Pendant/ Fixing rail 24/48 and Pendant joint 2FJ to achieve the required length.



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 supportbrackets.



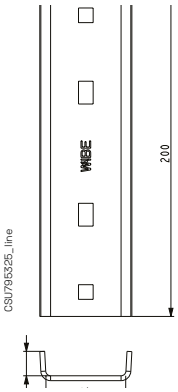
High visibility end plug for enhanced safety and provide protection against personal injury.

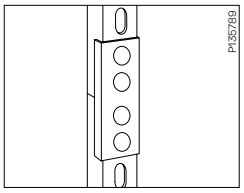


Cables are mounted on a Pendant/Fixing rail 24/48 using cable clamps of type A.

Pendant joint 2FJ

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

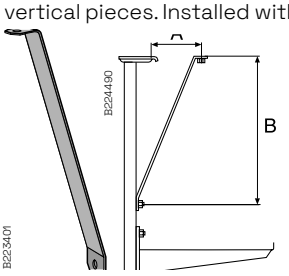




Pendant joint 2FJ, used for joining of vertical piece 2F.

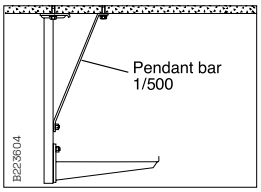
Pendant bar 1

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

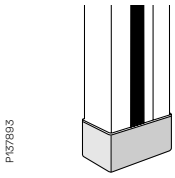


Pendant bar 1/500 Hdg

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



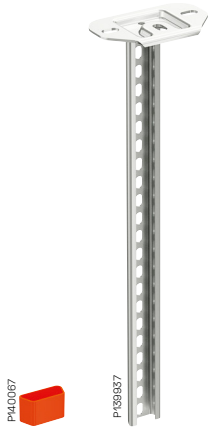
To reduce deflection of Vertical piece 2F at heavy loads on Cantilever arm 50 the Pendant bar 1 can be used. Install with T-bolt and Expansion bolt.



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

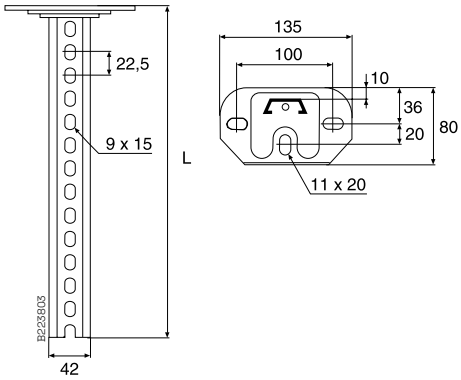
Technical information
Use and installation

Vertical piece 2

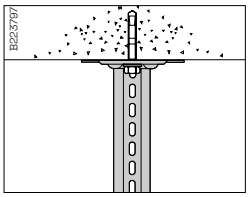


End plug
28C

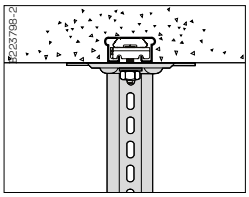
Vertical piece to be used for installation of Support bracket 3, symmetrical loading. Not suitable for cable ladders KHZV and KHZPV. Can be joined to Pendant/fixing rail 24/34 with Pendant joint 2J.



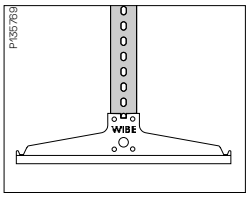
Type	L mm
Vertical piece 2/300	279
Vertical piece 2/400	392
Vertical piece 2/500	504
Vertical piece 2/700	729
Vertical piece 2/1000	1022



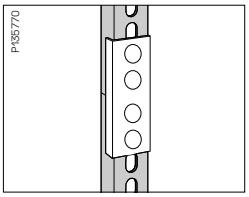
Mount Vertical piece 2 using an Expansion bolt or a concrete screw.



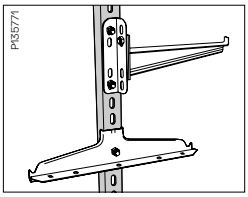
Mount Vertical piece 2 on a Fixing rail 24/26x53 for casting-in using T-bolt 26U.



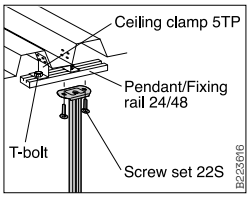
On Vertical piece 2, mount Support bracket 3 using Screw set 22S.



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

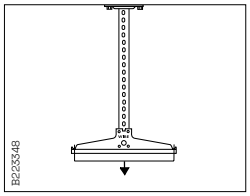


Cantilever arm 50 can, using End bracket HT-11, be mounted at 90° to the pendant/ fixing rail. Only for lightweight mounting, such as data cables.

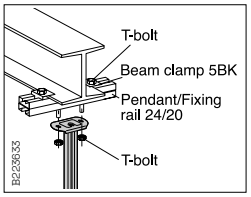


In ceilings with trapezoi- dal profile sheeting, mount Vertical piece 2 as shown above.

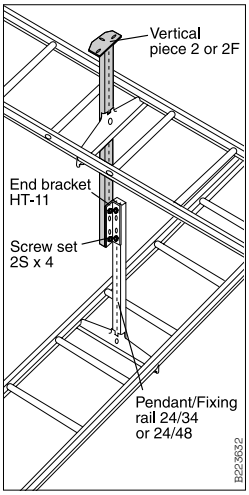
Breaking load



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 26U/40. For flange thick- nesses not excee- ding 30 mm use Beam clamp 5BK-30 and T-bolt 26U/50.



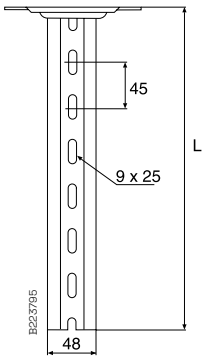
End bracket HT-11 permits the mounting of crossing cable ladders at different levels on the same pendant/fixing rail.

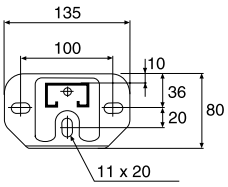
Technical information
Use and installation

Vertical piece 2F

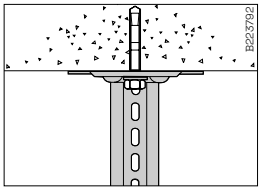
End plug
28E

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.

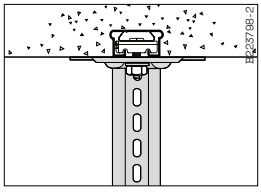




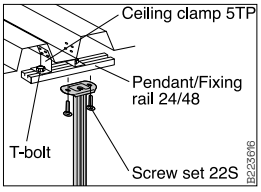
Type	L mm
Vertical piece 2F/280	280
Vertical piece 2F/505	505
Vertical piece 2F/1000	1000



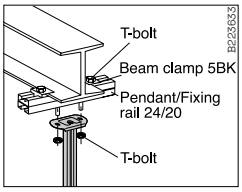
Mount Vertical piece 2F using Expansion bolt alt. Concrete screw.



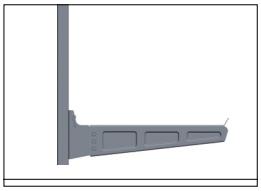
On Fixing rail forcasting-in, mount Vertical piece 2F using T-bolt.



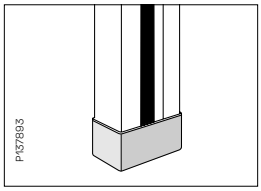
In ceilings with trapezoidal sheeting, mount Vertical piece 2F as shown above.



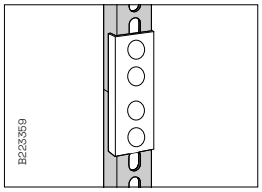
On beams in ceilings, mount Vertical piece 2F as shown in the figure above. When the beam flange thickness does not exceed 13 mm, use Beam clamp 5BK-10 and T-bolt 26U/40.
For flange thicknesses not exceeding 30 mm use Beam clamp 5BK-30 and T-bolt 26U/50.



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

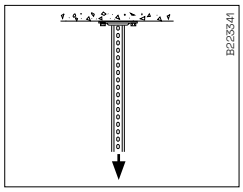


High visibility end plug for enhanced safety and provide protection against personal injury.



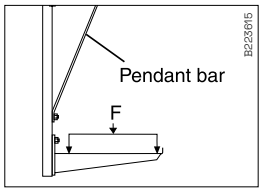
Vertical piece 2F can be joined to achieve the required length using Pendant/Fixing rail 24/48 and Pendant joint 2FJ.

Breaking load symmetrical loading*



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

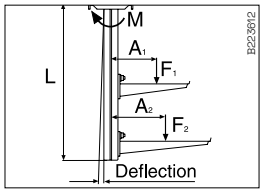
VP + Pendant bar for reduction of deflection



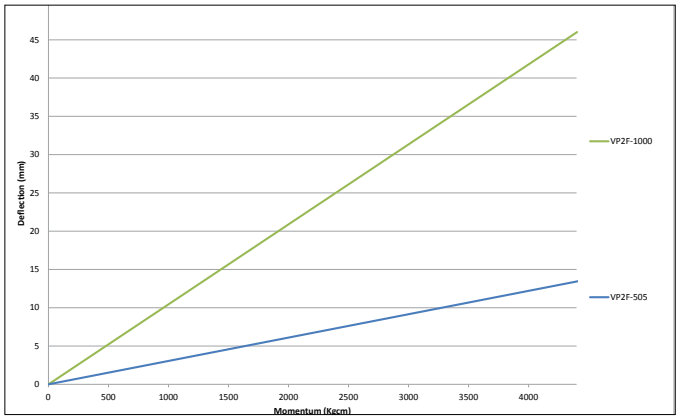
Deflection of Vertical piece 2F is reduced by installing Pendant bar 1. Loadings in accordance with chart below.

Technical information
Use and installation

Breaking load asymmetrical loading



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



For values outside diagram please contact Wibe Group.

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?

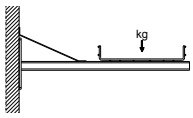
M = ∑ F x A (kgcm)

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

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

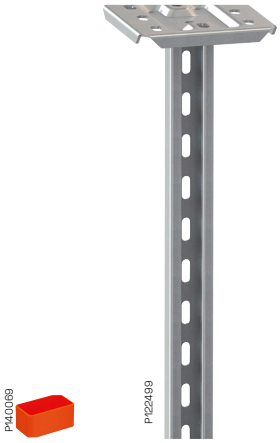
Pendant type	2F/1000
Mesh tray width	Breaking load
120	75
220	80
320	90
420	100
620	120

*Safe working load according to IEC 61537 is breaking load divided by 1.7.

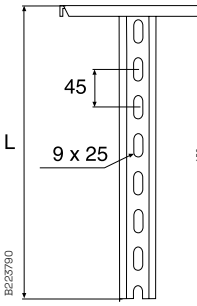
Technical information
Use and installation

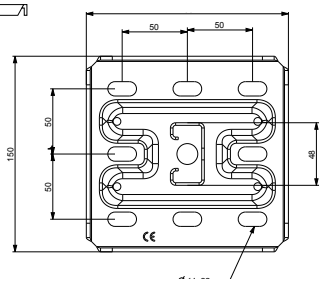
Vertical piece 2FB

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.

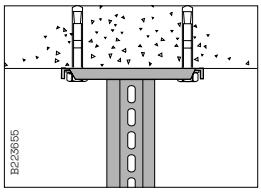


End plug
28E

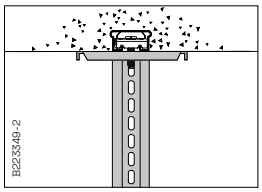




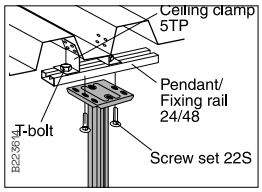
Type	L mm
Vertical piece 2FB/280	280
Vertical piece 2FB/505	505
Vertical piece 2FB/1000	1000



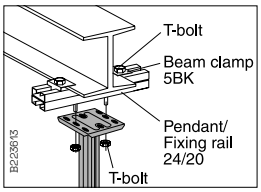
Mount Vertical piece 2FB using Expansion bolt.



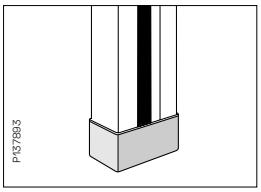
On fixing rail for casting-in,mount Vertical piece 2FB using T-bolts.



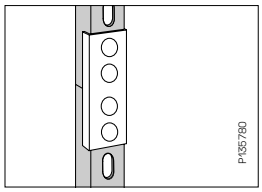
In ceilings with trapezoidal profile sheeting, mount Vertical piece 2FB as shown above



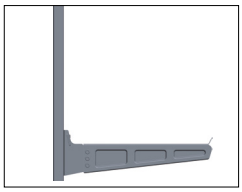
On beams in ceilings, mount Vertical piece 2FB as shown in the figure above. When the beam flange thickness does not exceed 13 mm, use Beam clamp 5BK-10 and T-bolt 26U/40. For flange thicknesses not exceeding 30 mm use Beam clamp 5BK-30 and T-bolt 26U/50.



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

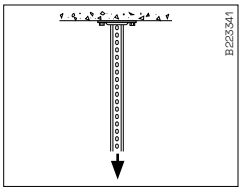


Vertical piece 2FB can be joined to achieve the required length using Pendant/Fixing rail 24/48 and Pendant joint 2FJ.



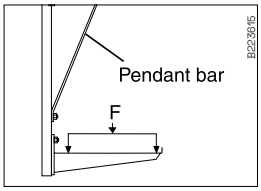
Mounting Cantilever arm 50i on pendant 2F/2FB with t-bolt.

Breaking load symmetrical loading*



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

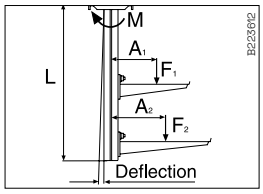
VP + Pendant bar for reduction of deflection



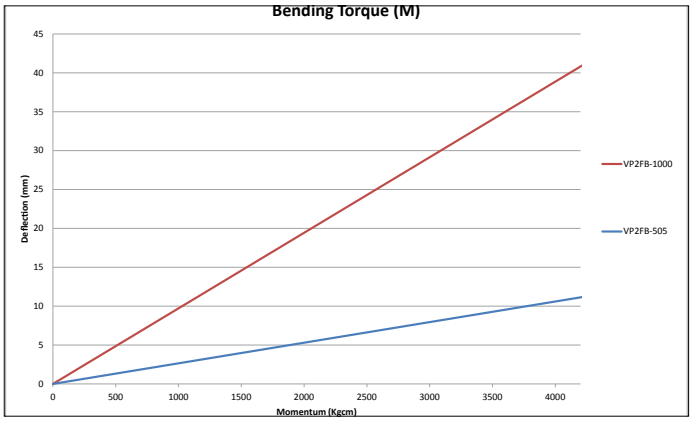
Deflection of Vertical piece 2FB is reduced by installing Pendant bar 1. Loadings in accordance with chart below.

Technical information
Use and installation

Breaking load asymmetrical loading



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



For values outside diagram please contact Wibe Group.

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)

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

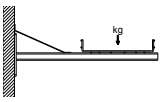
M = 704 kgcm - bending as per diagram, about 2 mm.

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)

$$A = \frac{Ca\ 50i}{2} + 2.6\ cm$$

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.

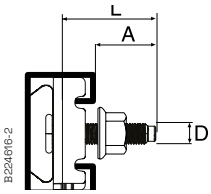
Technical information
Use and installation

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.

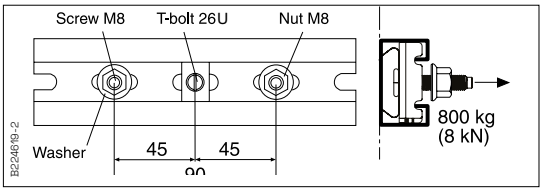
T-bolt 26U

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

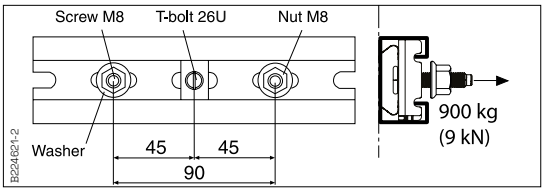


Type	L mm	A mm
M8	34	23
M10	34	23
M10	44	33
M10	54	43

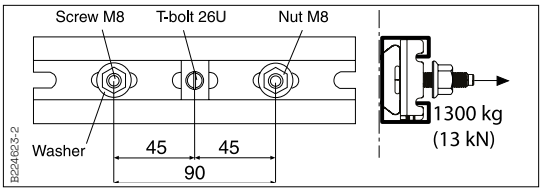
Max permitted extraction force



T-bolt 26U M8/M10 + P/F-rail 24/48 + Washer 8.4x19x1.5



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



T-bolt 26U 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.

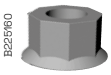
Screw set 20S

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.

Technical information
Use and installation



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

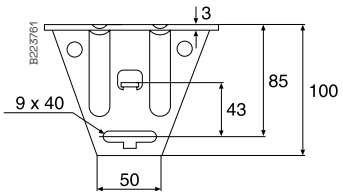
Distance nut to be used when joining Threaded rods. Screw the nut to the top rod to the middle depth of the nut. Then screw the bottom rod into the nut from below, tighten.

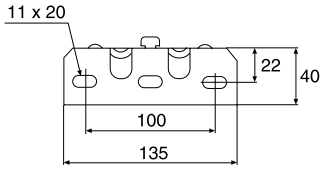
Thread lock B50

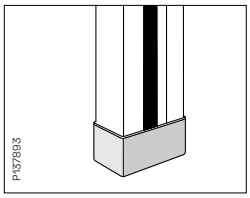
Thread lock to be used when joining Threaded rods. Pull the thread lock up high on the top threaded rod.

Ceiling bracket 5

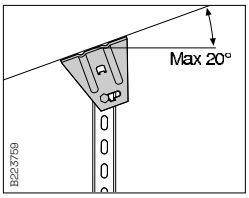
Ceiling bracket to be used for installations with Pendant/Fixing rails 24/34 and 24/48.



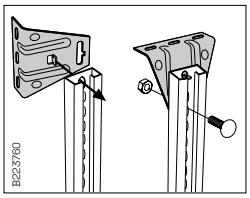




High visibility end plug for enhanced safety and provide protection against personal injury .

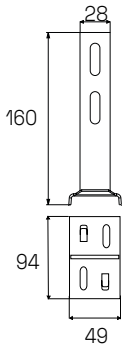


Using Pendant/Fixing rail 24/34 or 24/48, 1 Ceiling bracket 5 and 1 Screw set 22S it is possible to make a vertical piece that can be installed at an angle of up to 20°. Breaking load for rail 34 = 1000 kg (10 kN). Breaking load for rail 48 = 1200 kg (12 kN).



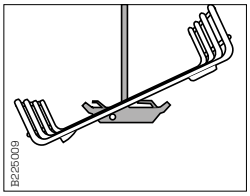
Mount Ceiling bracket 5 to the back of the pendant/fixing rail by turning the ceiling bracket 90° and inserting the tab into the hole in the rail. Then turn the ceiling bracket back and lock it in the required position using 1 Screw set 22S. When mounting it at a horizontal ceiling, lock the screw in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

Technical information
Use and installation

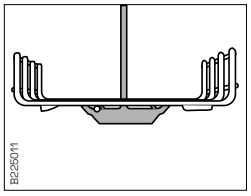


Support Hook D35/120-220

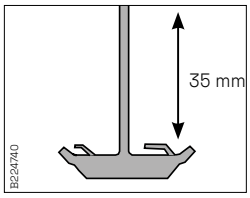
Support hook for 120-220 mm Mesh tray.



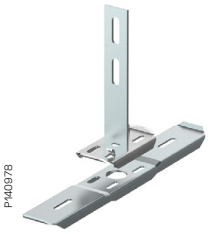
Mounted from below with angled movement.



Mesh tray is mounted by closing the D35 grips.

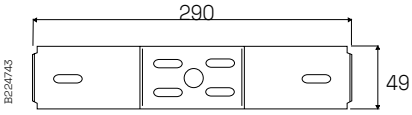


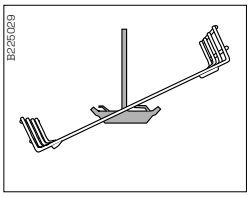
Adjustable 35 mm with Pendant 2, 2F, 2FB and Fixing rail 24/34 and 24/48.



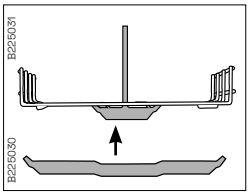
Support Hook D35/320-422

Support hook for 320-422 mm Mesh tray.

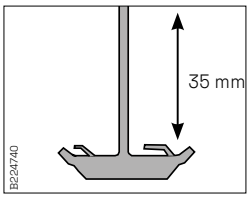




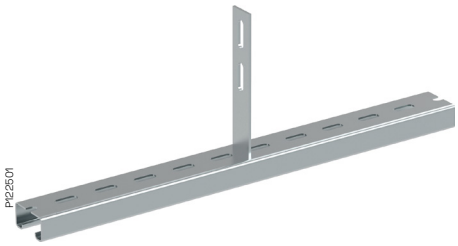
Mounted from below with angled movement and with closing of the D35 grips around the wires.



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

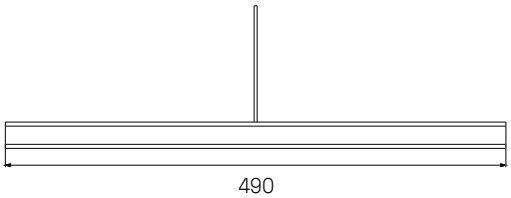


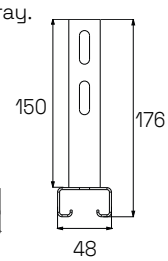
Adjustable 35 mm with Pendant 2, 2F, 2FB and Fixing rail 24/34 and 24/48.



Support Hook D35/422-622

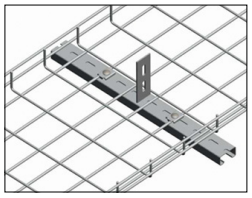
Reinforced support hook for 422-622 mm Mesh tray.





Safe Working Load (SWL)

Type of D35	kg
D35/120-220	390
D35/320-422	127
D35/422-622	370

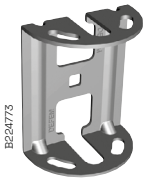


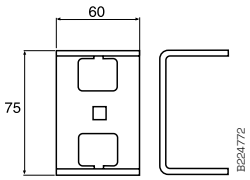
Mount the lower part of the Support Hook with 2 Fitting B2 and 2 Bolt and Nut B13. Screw set 22S is used for installation of Support hook D35 on Vertical piece 2, 2F/2FB and Pendant/fixing rail 24/34 and 24/48.

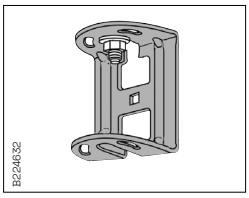
Technical information
Use and installation

Ceiling Fitting Universal B46

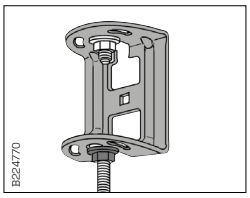
For mounting of Threaded Rod B41 onto ceiling.







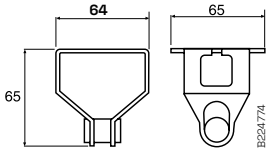
Mount the Ceiling Fitting B46 with Expansion bolt or bolt onto horizontal ceiling.

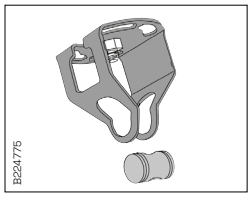


Threaded Rod B41 M8 or M10 is mounted as pendant with 2 Flange Nut B43.

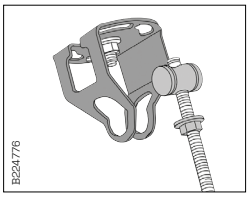
Ceiling Fitting Flexible B47

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

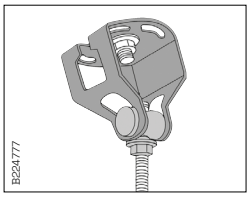




Mount the Ceiling Fitting B47 with Expansion bolt or bolt onto level or sloping ceiling.



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

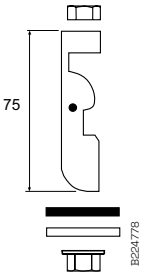


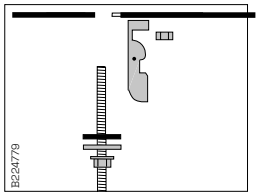
Hook the Threaded Rod onto the B47 and tighten the Nut.

Technical information
Use and installation

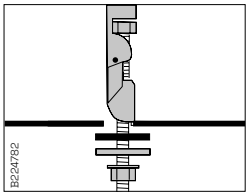
Ceiling Clamp B48

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

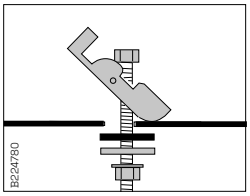




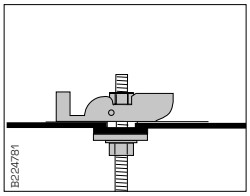
Drill a Ø 22 mm hole in the ceiling metal.



Assemble and mount the Ceiling clamp.



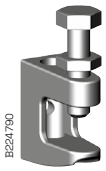
Pull down.

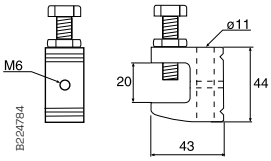


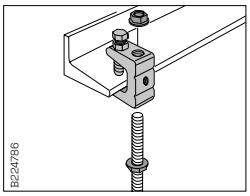
Close with the rod nut.

Beam Clamp B49

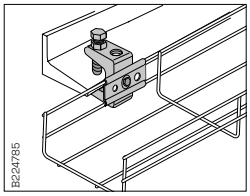
For mounting onto beam.



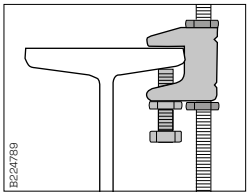


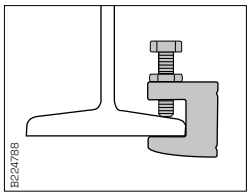


For mounting of Threaded Rod B41 with Flange Nut B43/ M8 – M10.



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





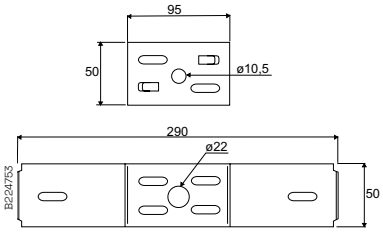
Mount the Beam Clamp with the locking bolt against the sloping side of the beam.

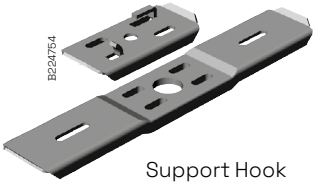
Technical information
Use and installation

Support Hook B39 120-220 and 320-422

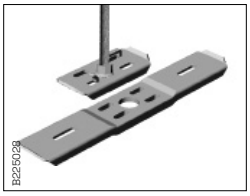
Support Hook for mounting onto Threaded Rod.

Support Hook
B39/120-220

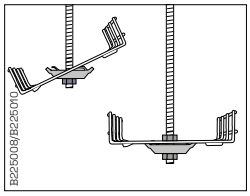




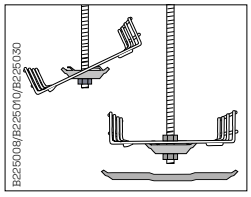
Support Hook
B39/320-422



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

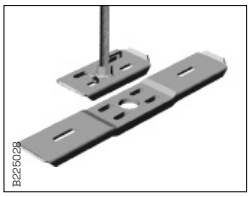


Support Hook B39/120-220. Mesh tray is moun/ted from below angled movement and by closing the grips of the B39 around the wires.

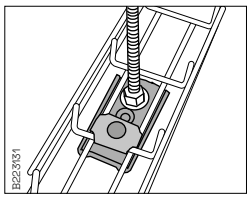


Mount the lower part of B39/320-422, after mounting the Mesh tray, with 2 Bolt and Nut B13.

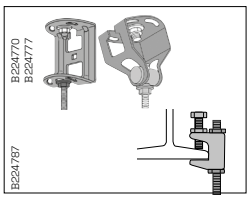
Threaded Rod B41 and Thread Lock B50



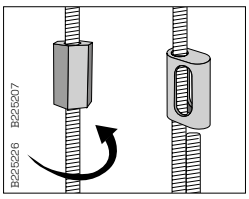
Threaded Rod B41 is mounted onto Support Hook B39 with 2 pcs Flange Nut B43.



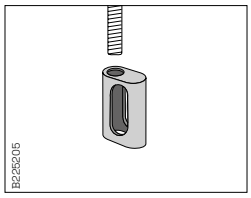
For Mesh tray 53 and 75, the Fitting B1 can be used as support hook Mounting with 1 Fitting B1, 1 Fitting B2, 1 Bolt and Nut B13 and two Flange Nut B43.



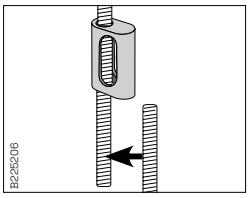
For ceiling mounting, use Ceiling Fittings B46, B47, B48 or B49.



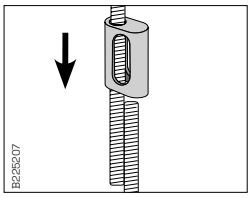
The Threaded Rod is extended by using Distance Nut B42 or Thread Lock B50 as joining fitting.



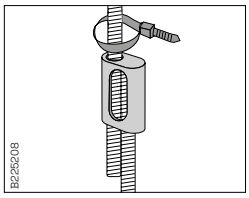
Put the Thread Lock B50 in the desired position onto the upper Rod.



Put the lower Rod in contact with the upper Rod.

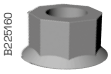


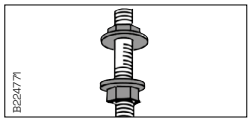
Lower the Thread Lock B50 onto both rods, now in locked position.



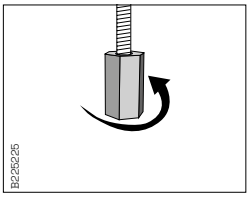
Put a cable stripe above the upper Thread Lock as safety lock.

Flange Nut B43, M8/M10 and Distance Nut B42

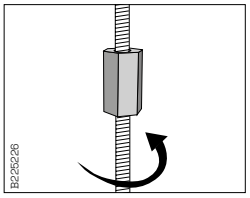




Flange Nut B43 is mounted onto Threaded Rod B41 in order to lock it to the Support Hook and the Ceiling Fittings.



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

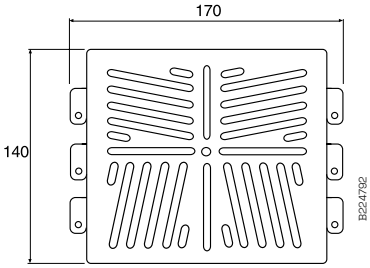


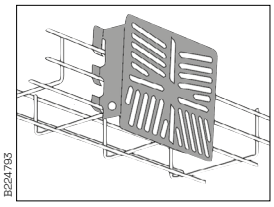
Screw in the lower Threaded Rod into the Distance Nut and tighten.

Technical information
Use and installation

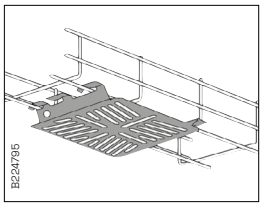
Accessories Holder B5 Mini

Fits to all Mesh trays.

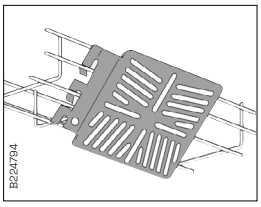




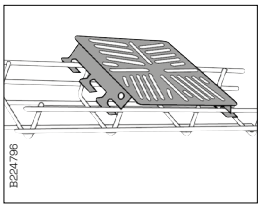
Accessories Holder B5 Mini is easily mounted directly on the side of the mesh tray.



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



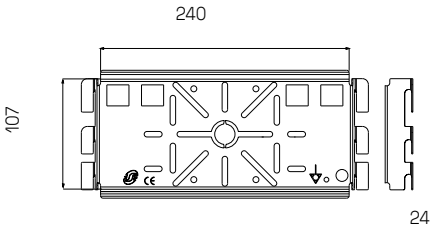
Accessories Holder B5 Mini is also mounted in 45° angle onto the mesh tray.



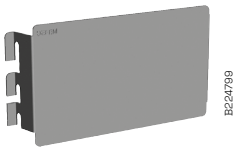
Accessories Holder B5 Mini can also be mounted on top of the 53 and 73 mesh trays.

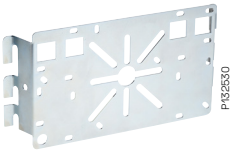
Accessories Holder B5

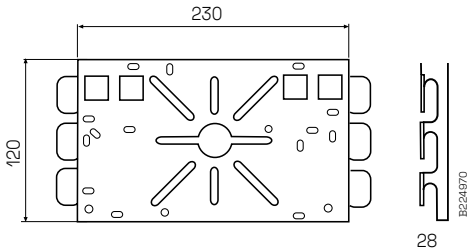
For Electro-galvanized and Hot dip galvanized

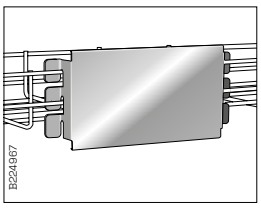


For AISI 316L

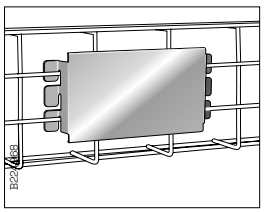




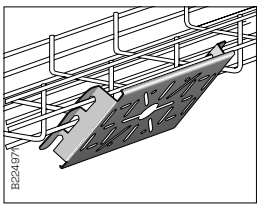




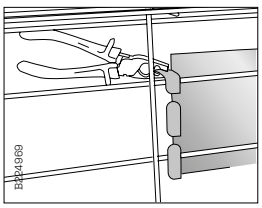
Accessories Holder B5 is easily mounted directly on the side of the mesh tray.



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



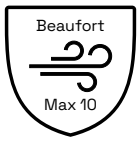
Accessories Holder B5 is also mounted in 45° angle onto the mesh tray.

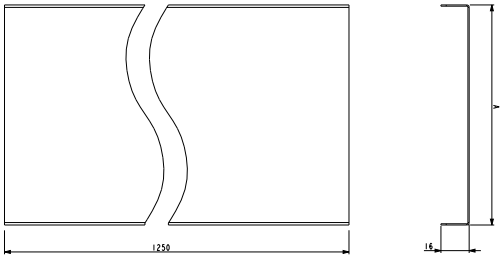


Accessories Holder B5 is tightened to the mesh tray by closing the grips around the wires.

Technical information
Use and installation

Plate Cover B7:2





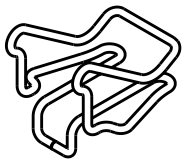
	For tray width mm	A mm
Plate Cover B7/75	75	80
Plate Cover B7/120	120	125
Plate Cover B7/220	220	225
Plate Cover B7/320	320	325
Plate Cover B7/422	422	425

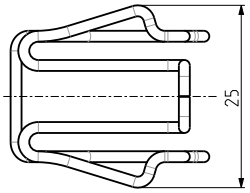
To be used with the B8:2 cover clip. (see installation instructions below)
Min 4 cover clips for indoor installation.
Min 6 cover clips for outdoor installation.

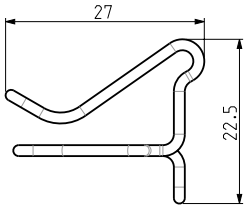
Appropriately installed the B7:2 cover can withstand up to Beaufort 10 wind force.

Spring Cover Clip B8:2

Spring clip used to fix B7:2 cover to the Defem mesh tray.

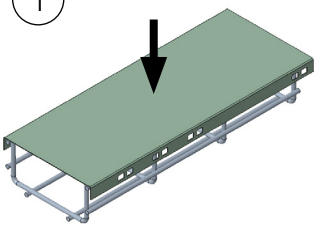






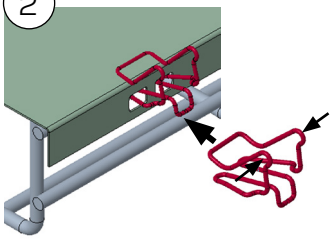
Horizontal indoor installation

1



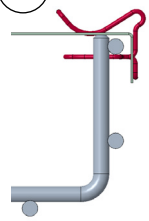
1. Place the cover on top of the mesh tray

2



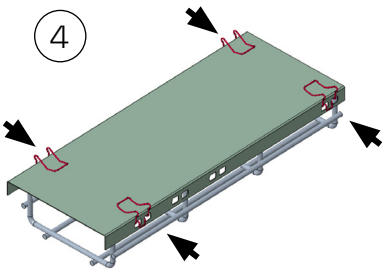
2. Compress the clip and insert it through the cover slots before releasing it.

3



3. Make sure the bottom of the cover clip is below the mesh tray's top horizontal wire.

4

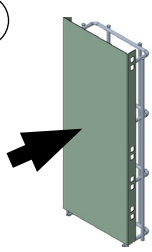


4. For indoor horizontal installations, use minimum 4 clips per cover.

Technical information
Use and installation

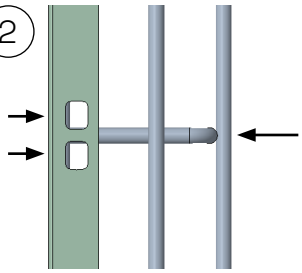
Vertical and outdoor installation

1



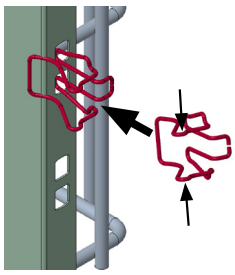
1. Place the cover on top of the mesh tray

2



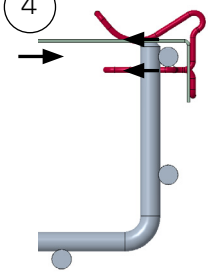
2. Align the cover slots with the transversal wire of the mesh tray.

3



3. Squeeze the clip and insert it in the cover slots.

4



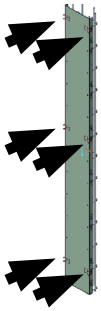
4. To secure the installation, ensure that:

a) the bottom of the cover clip is below the mesh tray's top horizontal wire

b) the transversal wire is in the middle of the clip

c) the clip is pushed in as far as possible

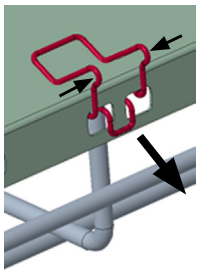
5



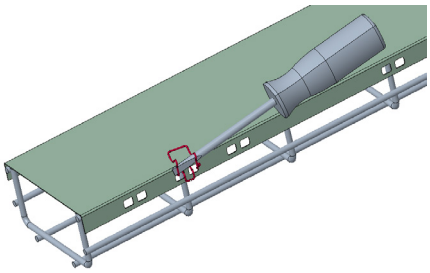
5. Use at least 6 clips per cover for all outdoor installations (vertical and horizontal).

Use minimum 4 clips for indoor vertical installations.

Dismounting



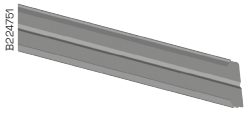
Squeeze the clip together and pull it outwards.

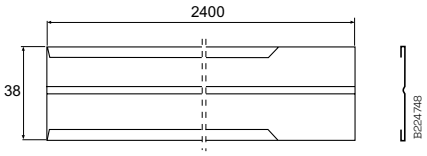


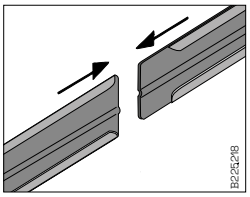
If it's difficult to remove the clip by hand, use a screwdriver to bend the clip out of the cover slots.

Technical information
Use and installation

Separating Plate B36







Simple joining by gliding Plates into each other.

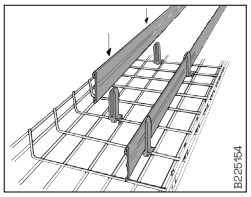
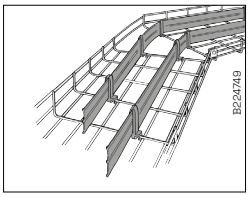


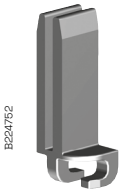
Plate Holder B38 is used for mounting of Separating Plate B36 onto Mesh tray.

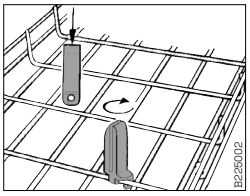


The Separating Plate B36 can be shaped to follow the horizontal bends of the mesh tray.

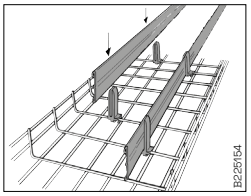
Plate Holder B38

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





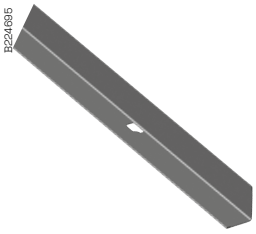
The Plate Holder is easily turned into fixed position on the mesh tray.

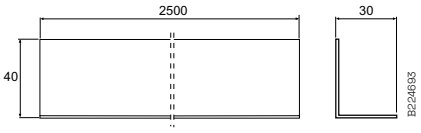


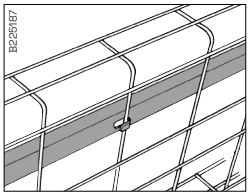
Separating Plate B36 is snapped into the Plate Holder.

Technical information
Use and installation

Separating Plate B26

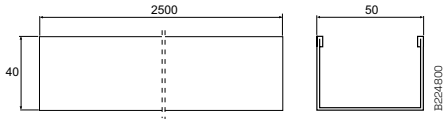


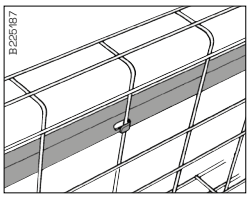




Use the grips of the Separating Plate B26 to attach to the cross wires of the Mesh tray.

Tele-Channel B6

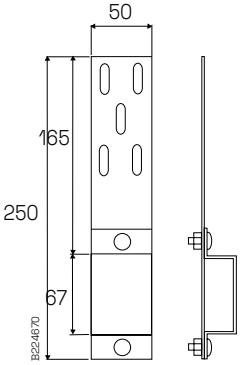


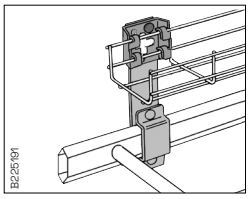


Use the grips of the B6 Tele-channel to attach to the cross wires of the Mesh tray.

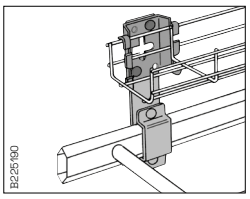
Combi Fitting B21

For mounting onto Wibe Cable Ladders.





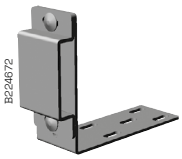
Mesh tray 53 and 75 is mounted onto Combi Fitting B21 with Bracket B4 mini Bolt and Nut B13.

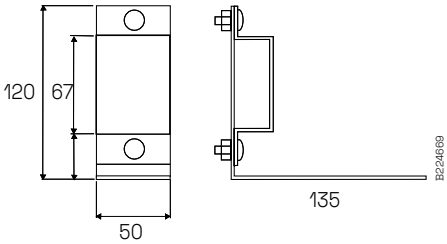


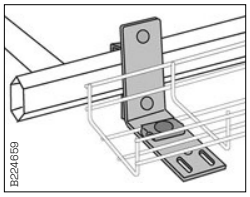
Mesh tray 120 is mounted onto Combi Fitting B21 with Bracket B4 Bolt and Nut B13.

Combi Fitting B21 90 degree

For mounting onto Wibe Cable Ladders.





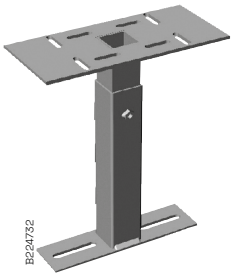


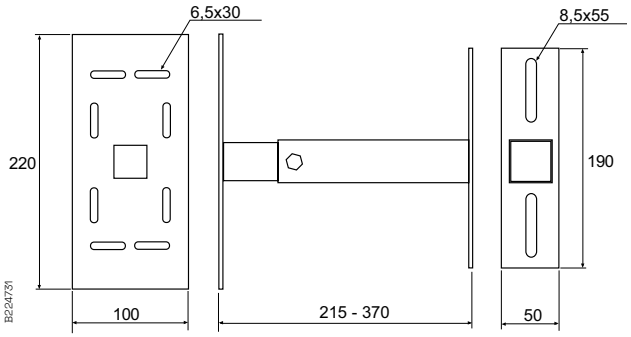
Mesh tray 53, 75 and 120 is mounted onto Combi Fitting B21 90° with 1 Fitting B2,1 Bolt and Nut B13.

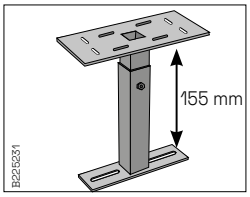
Technical information
Use and installation

Support B33

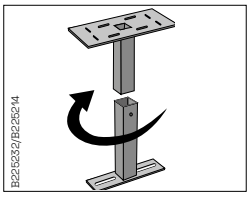
For mounting of all Mesh trays on floor, for example under raised floor.



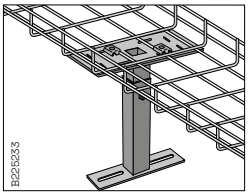




B33 Support is adjustable in height from 215 to 370 mm.



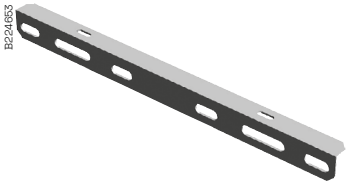
Upper or lower part can be adjusted in 90° angle.

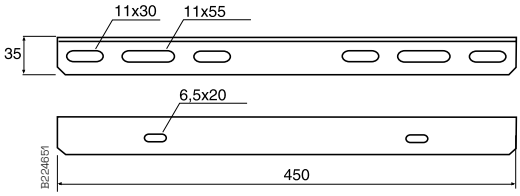


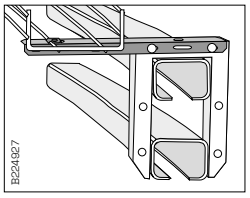
Mesh tray is mounted with suitable number of Fitting B2, Bolt and Nut B13.

Conveyor Bracket B17

Universal fitting for mounting of mesh trays along conveyor system.



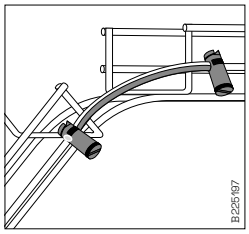




The Mesh tray is mounted onto the Conveyor Bracket with 1 Fitting B2.
1 Bolt and Nut B13.

Earth Connection Clamp B18

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

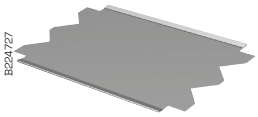


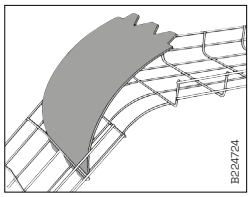
Earth connection clamp B18 is mounted to connect earth cable to mesh tray. Maximum earthing cable diameter: 1 x 16 mm2 (max. 5mm Ø). Recommended torque: 2,5 ± 0,5 Nm

Technical information
Use and installation

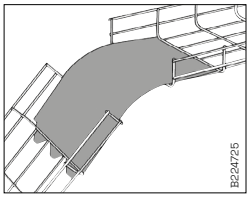
Bend Plate B31

For smooth cable bend at change of level.





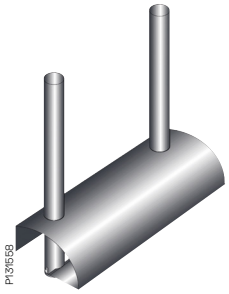
Attach the Bend Plate ends into the lower part of the Mesh tray.

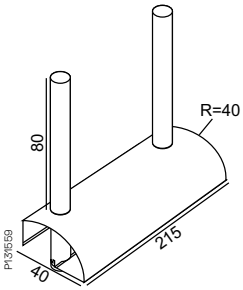


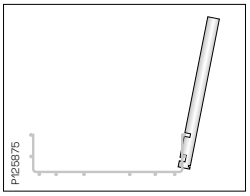
Attach the Bend Plate into the upper part of the Mesh tray.

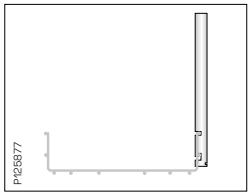
Side Radius Limiter B11

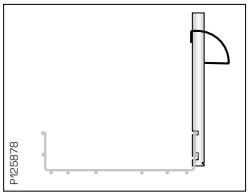
Used for limiting side bend radius of any cable type.

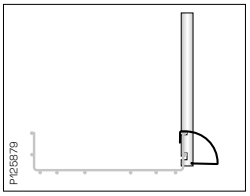






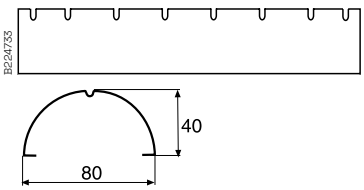


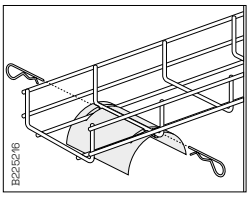




Radius Limiter B34

Limits the bend radius for sensitive cables.

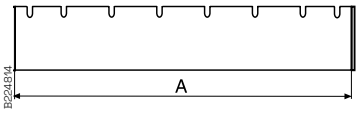


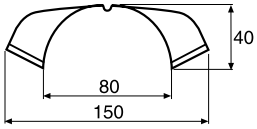


The radius limiter is mounted from below with the locking stick.

Radius Limiter B67

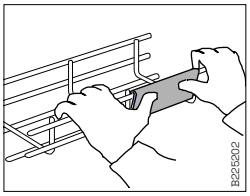
Limits the bend radius and gives protection at side position.





Technical information
Use and installation

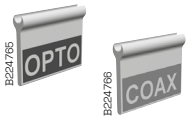
Marking Clip B44

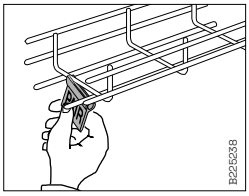


The Marking Clip is snapped onto the two side wires.

Identification Tag B40

Fits to wire Ø 5mm.

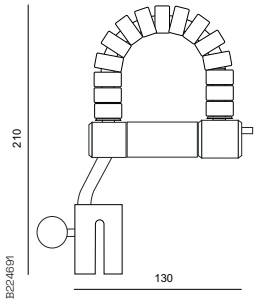


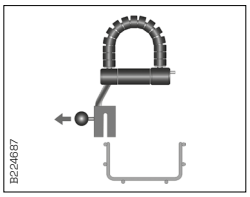


The Identification Tag is snapped onto the mesh tray.

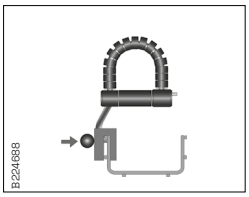
Cable Roller B25

Facilitates the pulling of cables into the mesh trays.

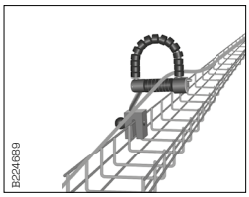




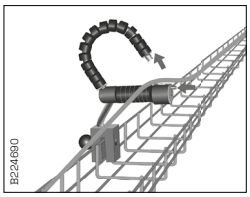
Pull the black knob outwards, place the cable roller onto the mesh tray.



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.

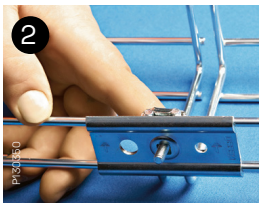
Technical information
Use and installation

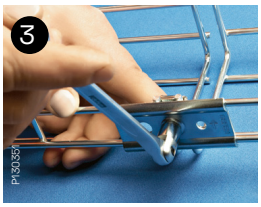
Appropriate tightening torque

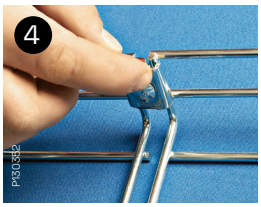
Part	Application	Tightening torque (Nm)
Fitting B52	Side joint	M6: 6
Fitting B2+B13	Couplers	M6: 6
Fitting B3	Bends	M6: 6
Fitting B2+B13+Ca50i	Fitting to Ca50i	M6: 6
Fitting B27+B13	Bends/fittings	M6: 6
B46&B47+B41&B43		M8: 15/M10: 25
B41+Nut B43	Threaded rod	M8: 15/M10: 25
B41+Nut B42	Threaded rod	M8: 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 26U+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
Earth Connection Clamp B18	Earthing connection	2,5 ± 0,5

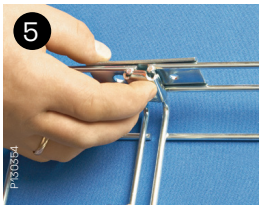
Technical information
Mounting instructions

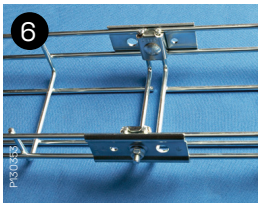
Connection of two trays / B1, B2, B13 alt B52



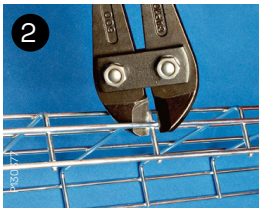


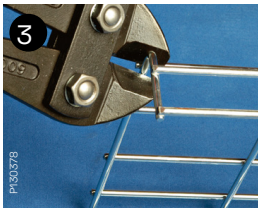


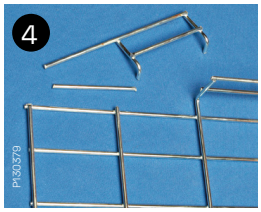


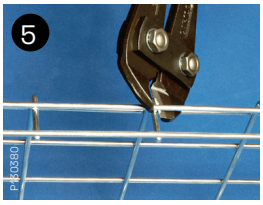


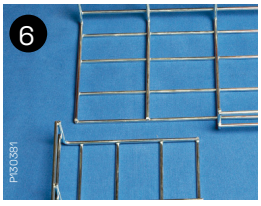
90 degree flat bends / B2

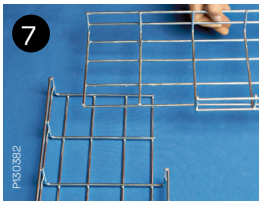


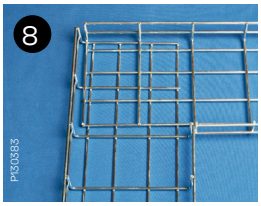


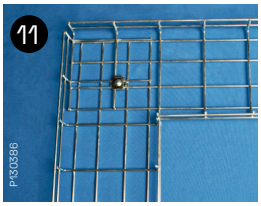


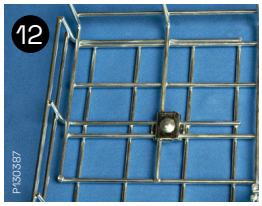




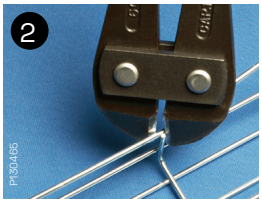


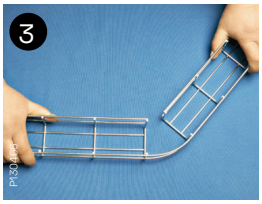


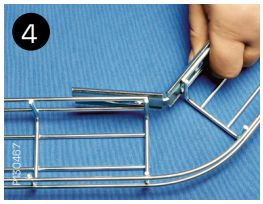


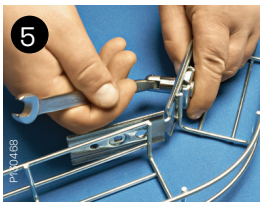


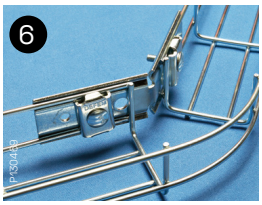
Angled flat bends / B27, B2, B13





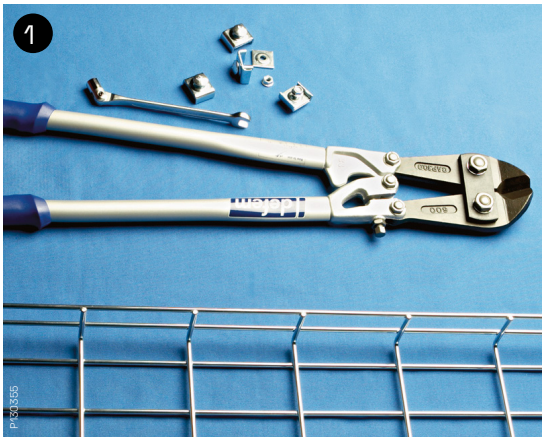


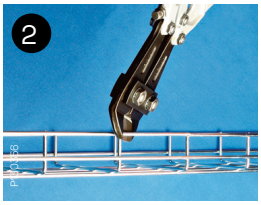


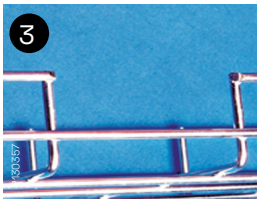


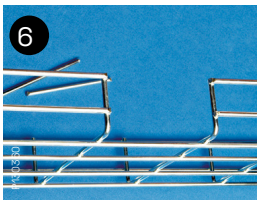
Technical information
Mounting instructions

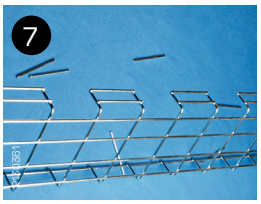
Large radius flat bends / B3

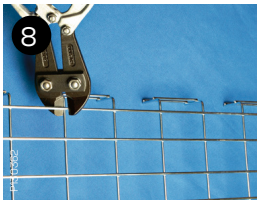


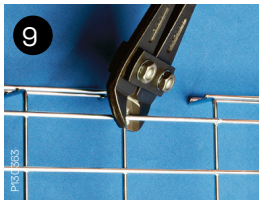


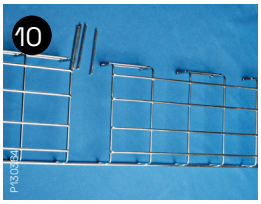


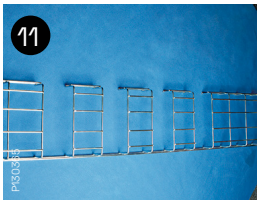


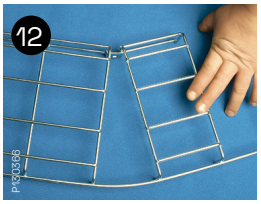


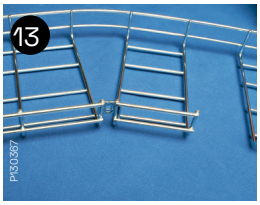


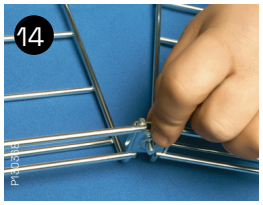


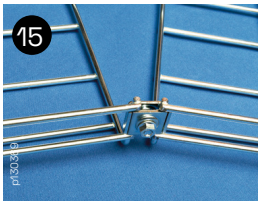


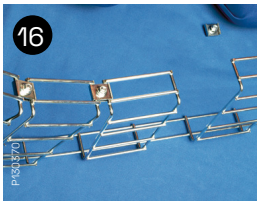


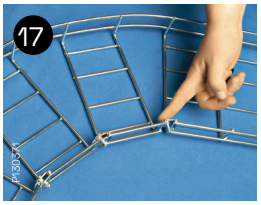


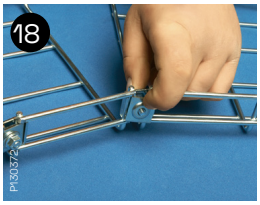


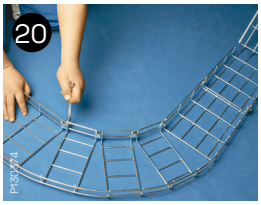


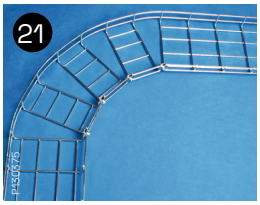






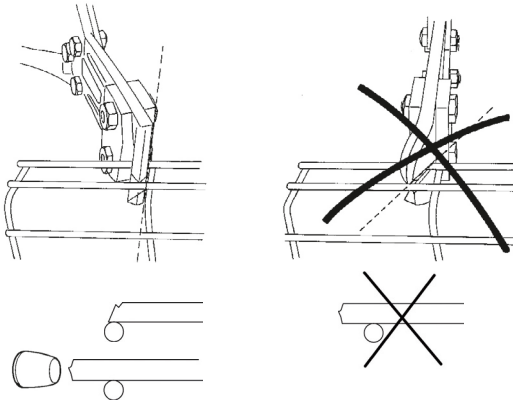


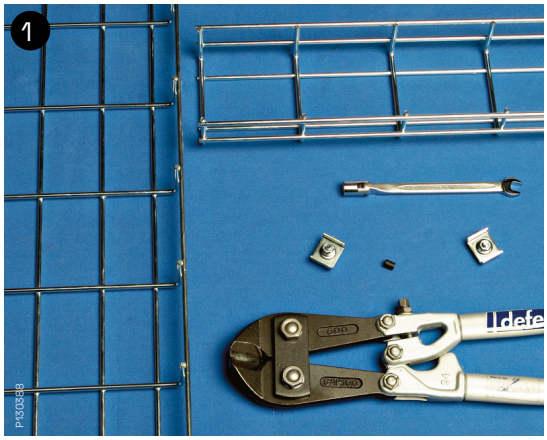


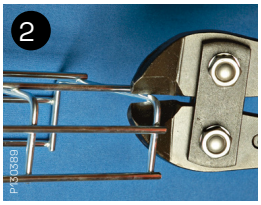


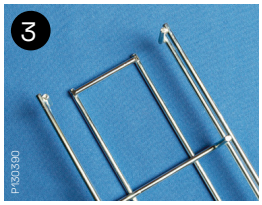
Technical information
Mounting instructions

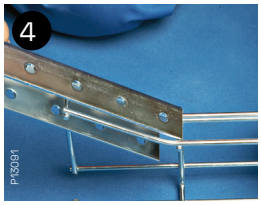
T-junction 90 degree / B3

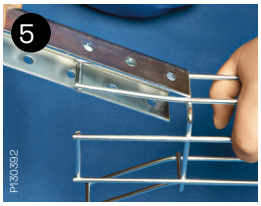


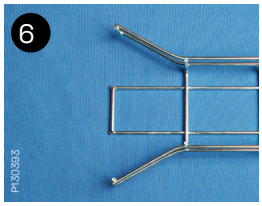


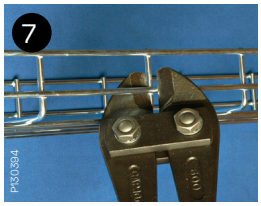


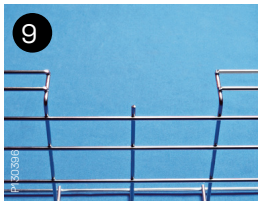


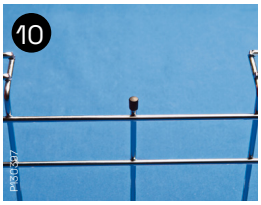


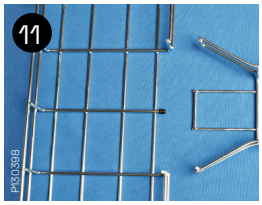


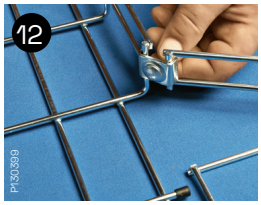


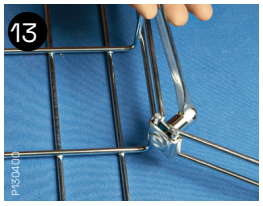


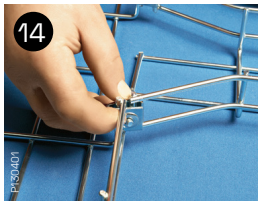


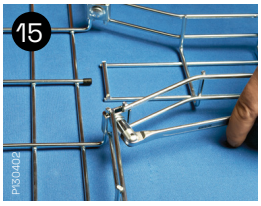


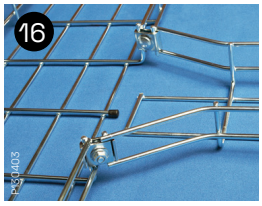


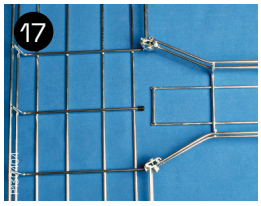






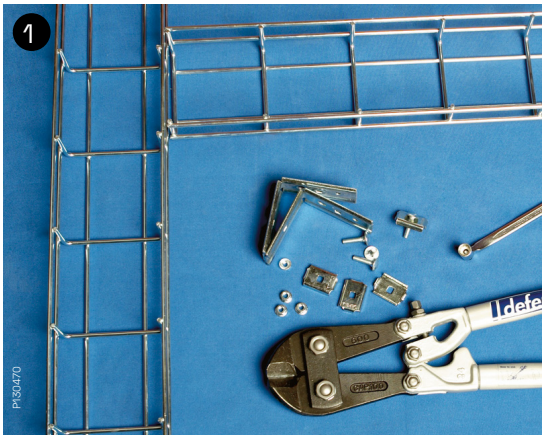


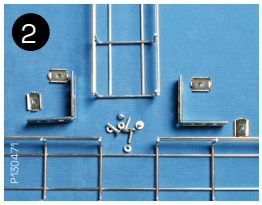


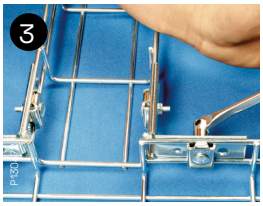


Technical information
Mounting instructions

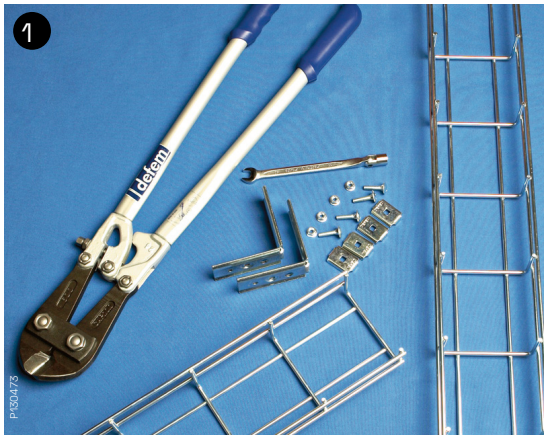
T-junction 90 degree / B27, B2, B13

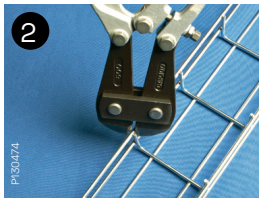


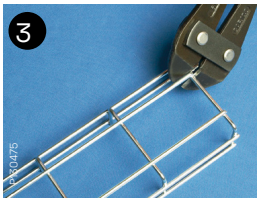


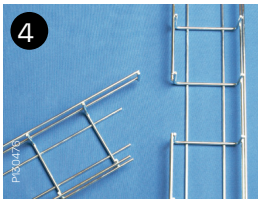


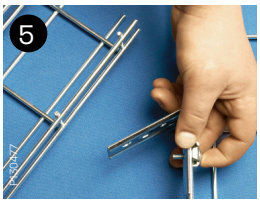
T-junction various angles / B27, B2, B13

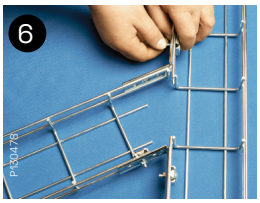


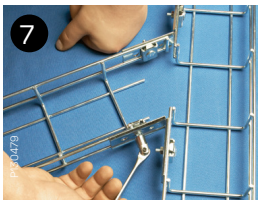


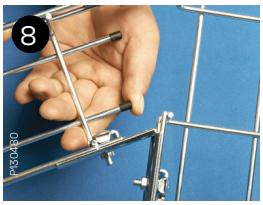


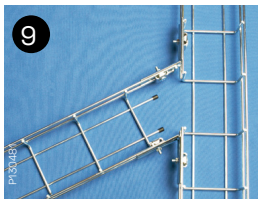


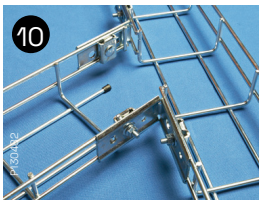






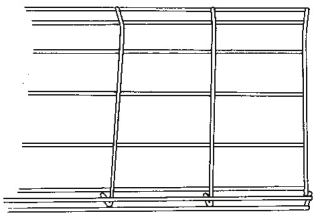


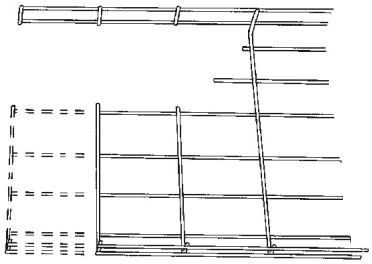


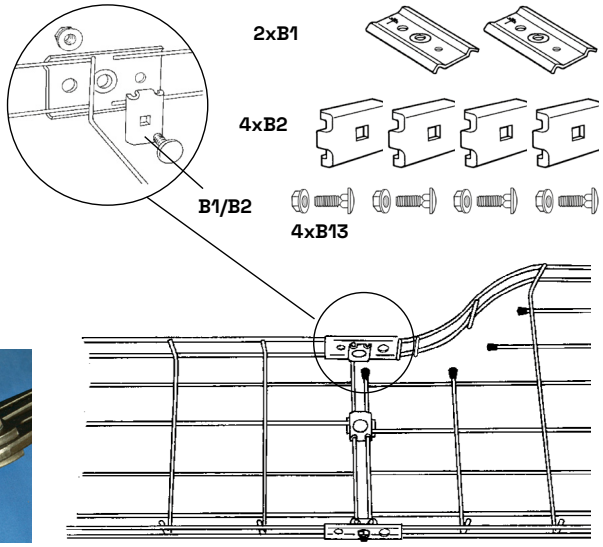


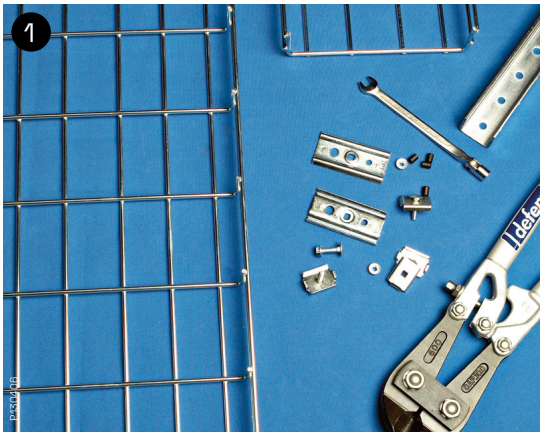
Technical information
Mounting instructions

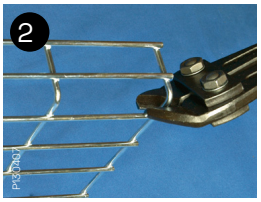
Reducer / B1, B2, B13 alt B52

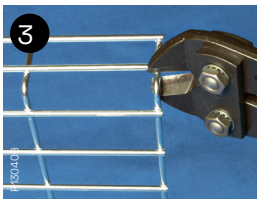


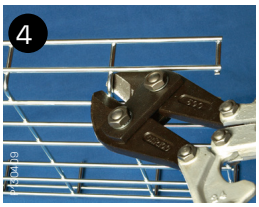


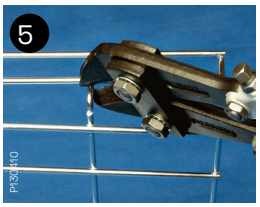


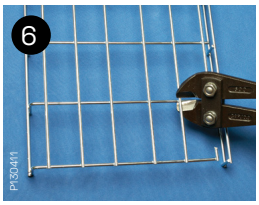


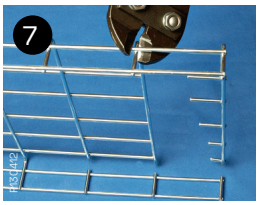


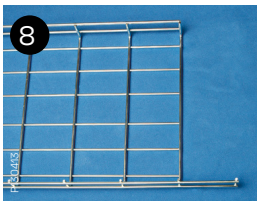


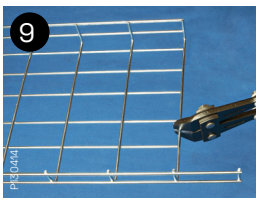


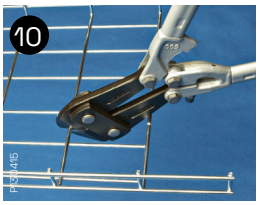


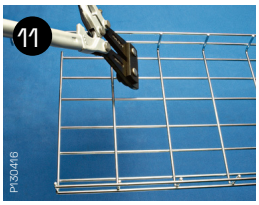


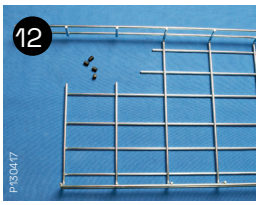


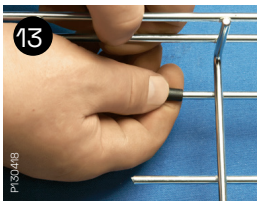


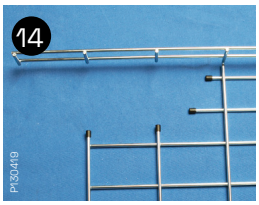


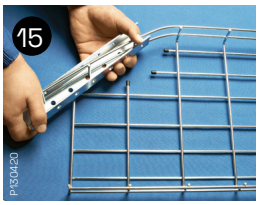


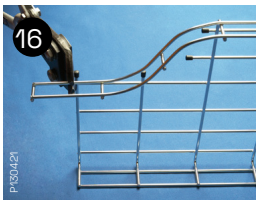


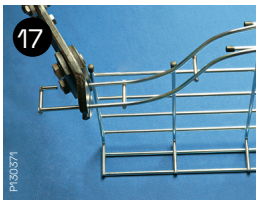


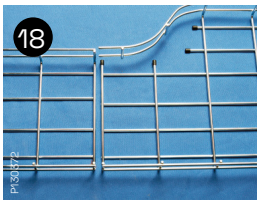


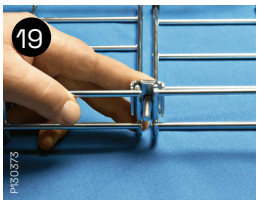


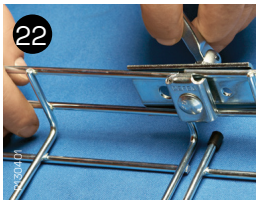


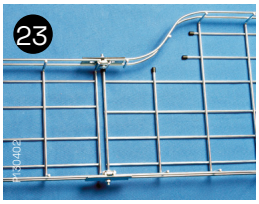






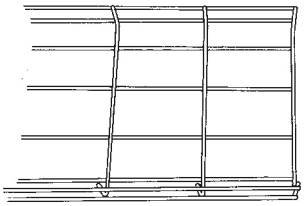


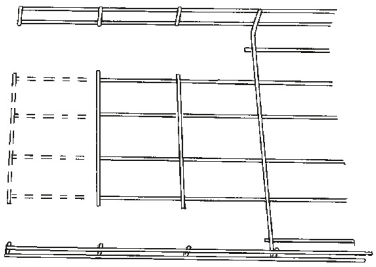


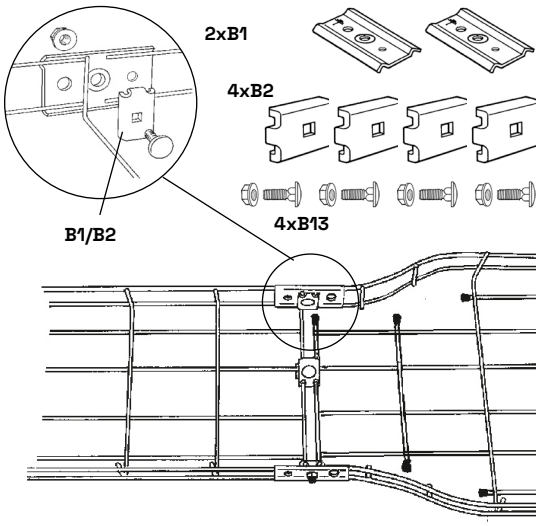


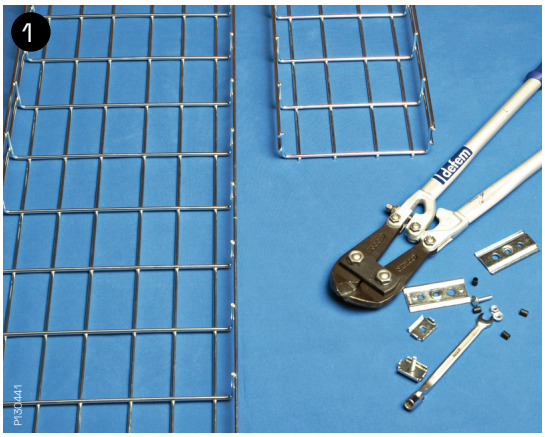
Technical information
Mounting instructions

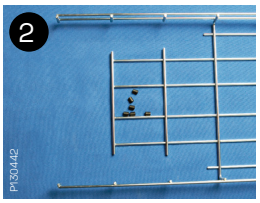
Symmetric reducer / B1, B2, B13

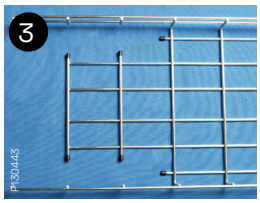


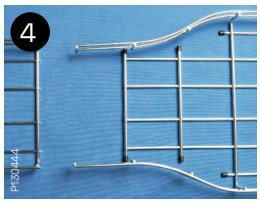


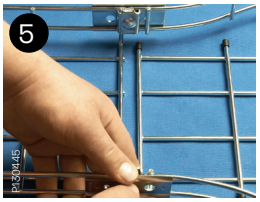


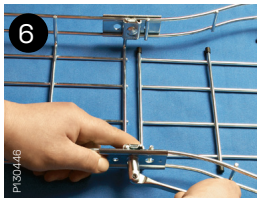


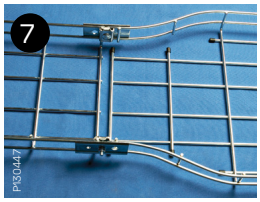




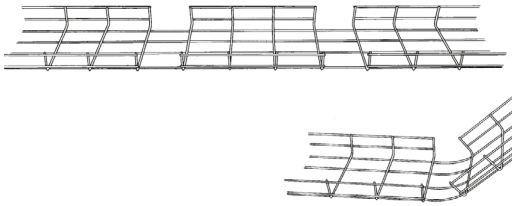


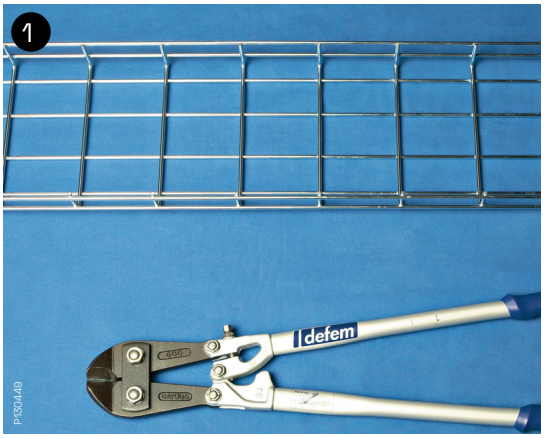


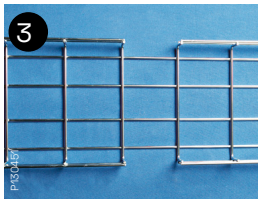


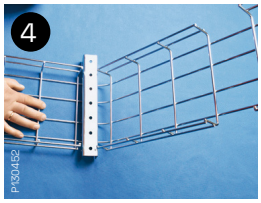


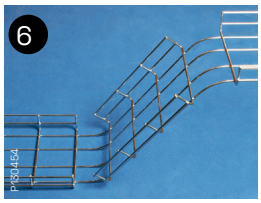
Raisers





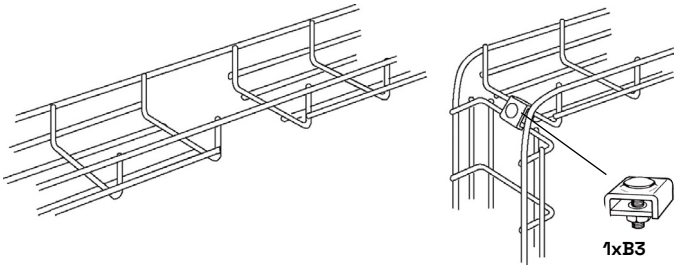


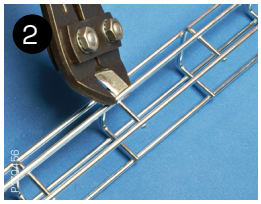


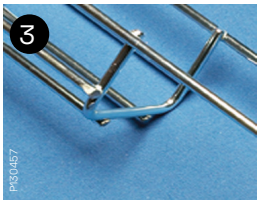


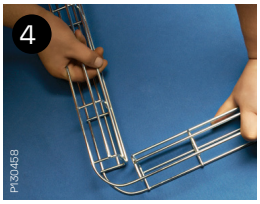
Technical information
Mounting instructions

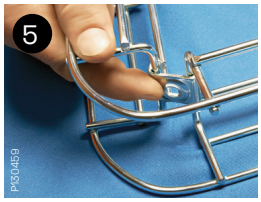
Making an external corner / B3

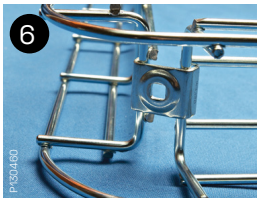


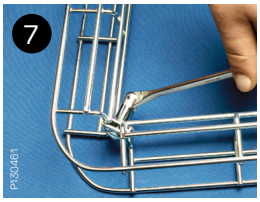


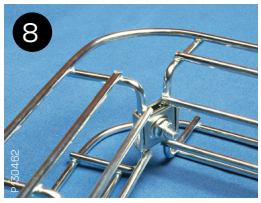


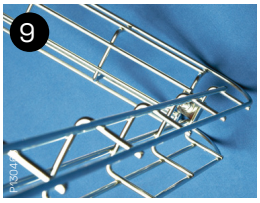












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