Axelent
X-Tray for X-Guard

Smart cable management for machine guards

Version
3.0
English SE

AXELENT

Keyhole mounting Top mounting Cantilever mounting

The finishing touch to your machine safety with X-Tray®

X-Tray cable trays fit our X-Guard machine guard like a glove. Together they provide the optimal solution.

Our cable trays are strong, adaptable and easy to fit. They enable elegant solutions with no special tools required. As with X-Guard, only a few brackets and tools are needed. The combination of X-Tray and X-Guard gives you maximum use of minimum material. A simple but smart touch. The near endless possibilities, despite fewer components, saves you time and money through having everything in one order to complete projects.

The perfect fit

Axelent's X-Tray is the ideal cable tray for X-Guard machine guard because they are perfectly matched for smooth installation to give a professional touch.

No special tools required

The combination is easy to assemble without the need for special tools. A 13 mm spanner is all you require.

One supplier

A turnkey solution from one supplier makes project implementation that much quicker and easier. It is also cost-effective because everything is bundled in the same shipment.

(These are just three examples, X-Tray offers several different mounting solutions. See pages 6-7)

SnapperWorks

SnapperWorks software gives you immediate control of your cables

SnapperWorks pairs X-Tray cable trays with X-Guard machine guards, giving you immediate control of your cables.

Benefits of X-Tray for X-Guard

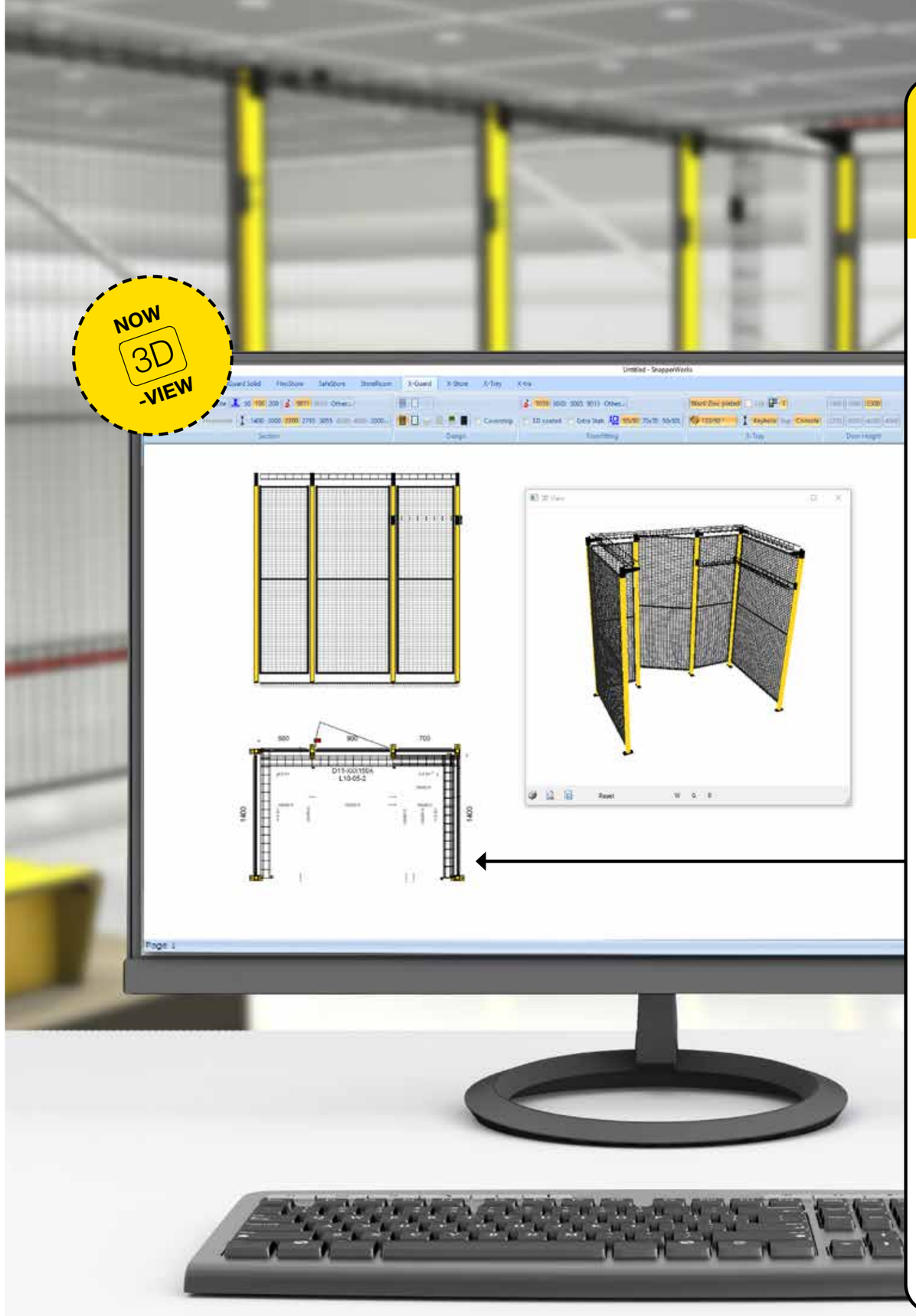
- Cost-effective
- Quick fittings designed for machine guards
- Black galvanized for a perfect match with X-Guard (other colours available)
- Several cable routing options
- All bundled and delivered on the same pallet
- Timesaving – quick start-up of machine and production thanks to same pallet shipment (quick and easy installation)

Benefits of SnapperWorks

- Custom program for X-Guard and X-Tray
- Easy to learn, just click and drag
- Provides a complete drawing and a list of materials in no time at all
- DWG and DXF files can be imported

Tested and approved

- X-Tray complies with the highest demands on cable routing systems in accordance with IEC 61537
- X-Tray is a complete cable tray system and is available in a larger range in:
  - Zinc Plated FZB
  - Hot Dip Galvanized FZV
  - Stainless 304L
  - Acid-proof 316L



Premium Quality
Guaranteed By Axelent

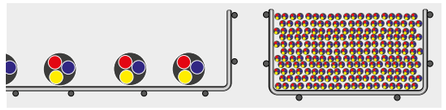
Which cable tray?

What to consider when choosing cable trays

Environment

Environmental requirements for surface treatment and/or classification of installation are based on standards, use, surroundings and specified requirements.

Weight/volume

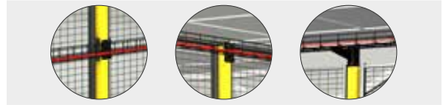


Weight and volume of the cables taking into account future needs.

Extra weight

Extra weight from point loads.

Installation

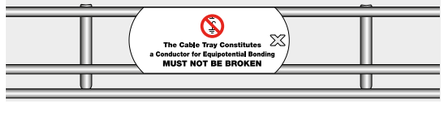


Installations in keyholes, at the top of the post, using cantilevers or other methods.

Fixing distance

A greater distance between the fixings means less work and lower costs. We recommend a support distance of 2.25 metres or, together with X-Guard, adapted to the post distances.

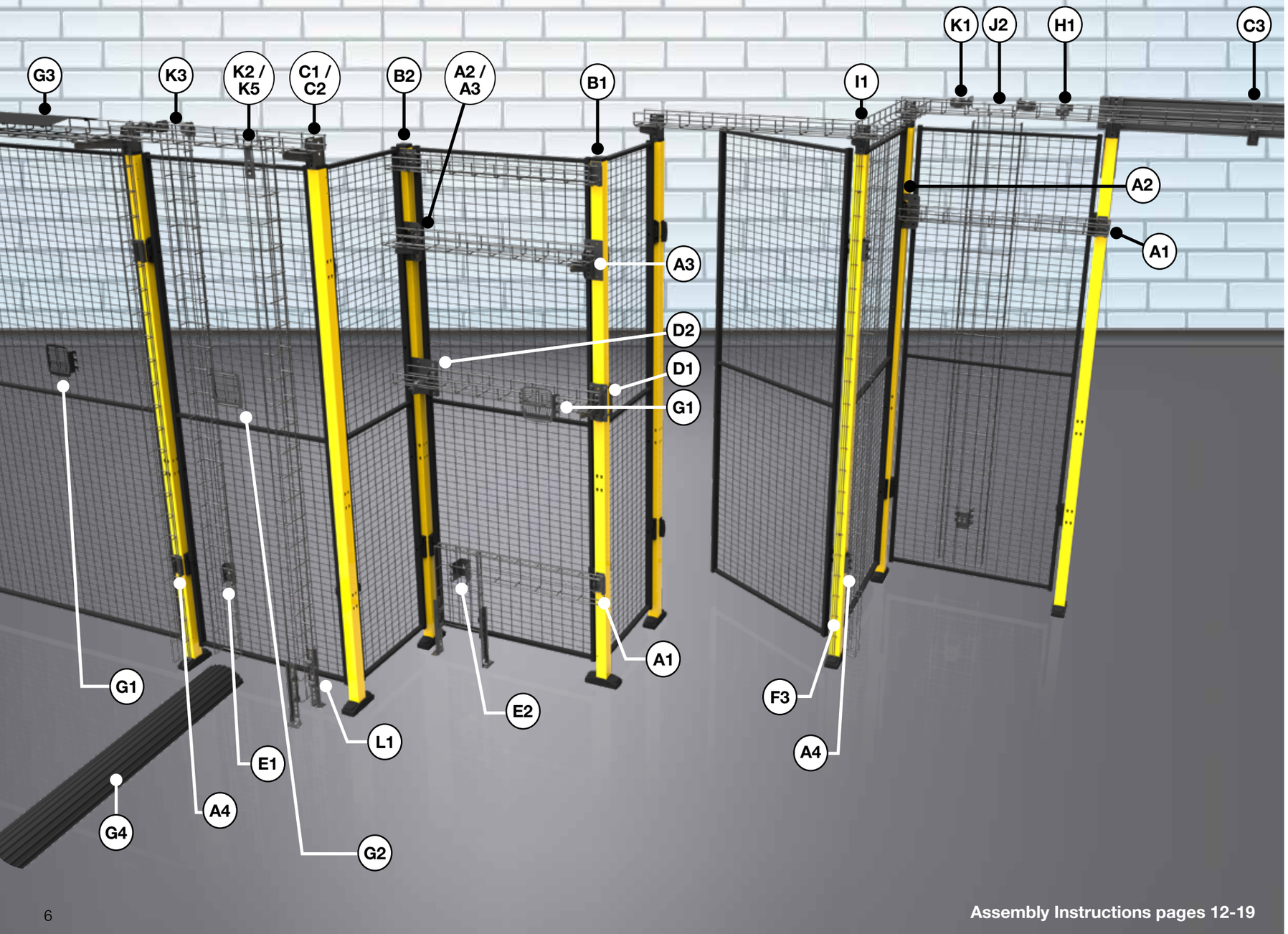
Equipotential bonding



Tested for equipotential bonding.

X-Tray complies with the highest demands on cable routing systems in accordance with IEC 61537

*Our UL certification also gives us NEMA approval.



Assembly Instructions pages 12-19

The possibilities with X-Tray for X-Guard

All cable trays and fittings are black galvanized to match X-Guard's black panels. The picture shows the various mounting possibilities and the letters guide you to items and installation instructions further on in the manual.

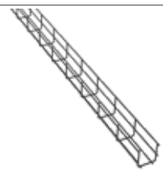
Installations of X-Tray for X-Guard

- Max load: Cable trays 30 kg/m, Brackets 45 kg/each
- Max width of brackets: 420 mm
- X-Tray has the strongest quick joining on the market and the longest support distance of 2.25 m
- For side-hinged doors, X-Tray can replace the tubular frame for a stable installation of cable routing
- More information about X-Tray and fittings is available on our website

The three most common installations

1. **Keyhole mounting**
   For fast installations in the post keyholes. Trays 60-120 mm.
2. **Top mounting**
   Quick and discrete installation that follows X-Guard's top edge. Trays 60-120 mm.
3. **Cantilever mounting**
   This option gives a stable installation over the machine guard and most possibilities/solutions. The best solution for several doors/sliding doors. Trays 60-420 mm.

   (It is possible to mix all three for the best fit)

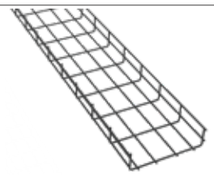


X-Tray 60x60 L=2300 mm | Wire Ø 4

Item No. | **0701-2300**

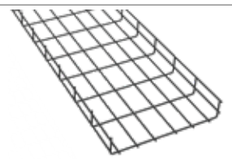
X-Tray 120x60 L=2300 mm | Wire Ø 5

Item No. | **0711-2300**



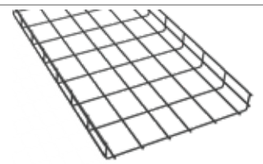
X-Tray 220x60 L=2300 mm | Wire Ø 5

Item No. | **0721-2300**



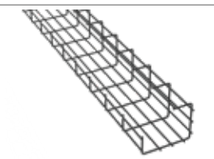
X-Tray 320x60 L=2300 mm | Wire Ø 5

Item No. | **0731-2300**



X-Tray 420x60 L=2300 mm | Wire Ø 5/6

Item No. | **0741-2300**



X-Tray G 120x150 L=2300 mm | Wire Ø 5

Item No. | **1722-2300**

X-Tray Mini 30x22 L=2300 mm | Wire Ø 3

Item No. | **1752-2300**

X-Tray Mini 30x22 L=1200 mm | Wire Ø 3

Item No. | **1752-1200**

A, B

Post Bracket

Item No. | **7700-014**

For 60-120 cm cable trays. Mounted in the post keyhole (A1 & A4). Together with Corner Post Bracket (7700-065) used in the internal corner (A2). Together with Top Corner Bracket (7700-066) used in the internal corner at the top of the post (A2) or anywhere else on the post.

A

Corner Bracket

Item No. | **7700-065**

Used in the corner together with Post Bracket (7700-014) to put up cable trays (A2) or anywhere else on the post. You can also put a cantilever on it.
Self-drilling screws and plugs supplied.

B, F

Post Bracket Top

Item No. | **7700-015**

For 60-120 cm cable trays. Fixed to the top of the post (B1).
If you bend up the top part 90° it can be screwed onto the post anywhere (F1).
Self-drilling screws and plugs supplied.

B

Top Corner Bracket

Item No. | **7700-066**

Used together with Post Bracket (7700-014) for mounting in a corner at the top of the post (B2). Self-drilling screws and plugs supplied. Bend tabs according to the instructions.

C

Cantilever Holder 50x50

Item No. | **7700-032**

Item No. | **7700-032-2**

Used for mounting cantilevers on the top of 50x50 posts (C1 + C4-6*).
(*7700-032-2 - Only for special mounting. See page 14)

C

Cantilever Holder 70x70

Item No. | **7700-188**

Item No. | **7700-188-2**

Used to fix cantilevers to the top of 70x70 posts (C2 + C4-6*).
(*7700-188-2 - Only for special mounting. See page 14)

A, C, D

X15 Cantilever

Item No. | **2715-Length**

Bracket Holder (C1-2), Bracket Holder Aluminium Rail (C1), Adjustable Post Fitting (D1), Adjustable Corner Post Fitting (D2) and Bracket Holder Post (A3). Can be fixed to Corner Post Fitting (A2).
Comes in four lengths 120, 220, 320 and 420.

D

Adjustable Post Fitting

Item No. | **7700-060**

Screwed anywhere on the post to fix cantilevers (D2). Nuts and bolts supplied.

D

Adjustable Corner Post Fitting

Item No. | **7700-072**

Screwed anywhere on the corner post to fix cantilevers (D2). Nuts and bolts supplied.

C

Cantilever Holder, aluminium rail

Item No. | **7700-037**

To fix cantilevers on the aluminium rail over sliding doors (C3). Suitable for cantilever-mounted cable trays. Nuts and bolts supplied.

A

Post Cantilever Holder

Item No. | **7700-083**

Used to mount X15 Cantilevers, mounted in the keyhole on the post (A3).

E

Mesh Panel Mini Bracket

Item No. | **7700-084**

For mounting on mesh panels to bring the cable tray closer to the panel (E1).
Used when vertical trays come inside a cantilever mounting.

E

Mesh Panel Bracket

Item No. | **7700-090**

For mounting on mesh panels to bring a cable tray in line with cable trays mounted using a Post Bracket (7700-014) (E2).

A, B, C, D, F, H, I, K, L

X1 Fitting

Item No. | **2701**

The X1 Fitting is used when making a corner (I1) or a reduction (H3).
Used together with the X3 Angled Bracket (K1-4) or with other fittings, such the X14 Pendant (L1) and X15 Cantilever (C1-3, D1-2).

I, J

X2 Fitting

Item No. | **2702**

X2 Fitting is used on a corner with a large radius (I3) or on a drop from a horizontal to a vertical tray (J1).

I, K, L

X3 Angled Fitting

Item No. | **2703**

For a T Junction (K1) or connecting to wall or floor (L2). If the cable tray needs to swing a few degrees, the angle of the X3 Angled Bracket can be adjusted (I2). It is also possible to join vertical and horizontal cable trays (K2-4).

B, K

X4 Fitting

Item No. | **2704**

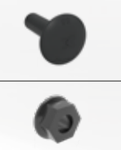
If you mount trays at the top of posts, you can raise the trays over side-hinged doors using the X4 Fitting together with the X1 Fitting (B3). Used for mounting a vertical cable tray underneath a horizontal (K2).

H

X5 Joining Fitting | 20 pack

Item No. | **2705**

20-pack, nuts and bolts supplied.
For joining cable trays. Bracket on the outside and bolt from the inside.(H1)



X61 Carriage Bolt M8x27 | 40 pack

Item No. | **2761**

X62 Flange Nut M8 | 40 pack

Item No. | **2762**

X10 Bracket

Item No. | **2710-1**

To mount cable trays on the X11 Pendant or on a wall, a machine or similar. Suitable for 120 cm cable trays and 120-420 cm with the side up.

Items • X-Tray for X-Guard • Black

X10 Mini Bracket

Item No. | 2710-2

To mount cable trays on the X14 Pendant, a wall, a machine or similar. Suitable for 60 cm cable trays.

X11 Pendant | 240/480 mm

Item No. | 2711-240

Item No. | 2711-480

To mount cable trays with the help of the X10 Bracket or the X15 Cantilever.

L

X14 Pendant | 280 mm

Item No. | 2714-280

Used with the X10 Mini Bracket or to fix cable trays to a floor (L1).

X68 Equipotential Bonding Screw

Item No. | 2568

For equipotential bonding/functional bonding.

G

X63 Accessories Holder

Item No. | 2763-1

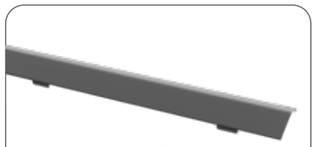
Used for fitting junction boxes, electrical sockets, or other items on the tray.

G

X80 Side Accessories Holder

Item No. | 2780-1

Used for fitting junction boxes, electrical sockets, or other items on the tray.
The fitting is on one edge of the plate and is mounted on two transverse trays (G2).



G

X65 Tray Cover | L=1000 mm

Item No. | 2765-Wide

Length 1000 mm. Width 60, 120, 220, 320 and 420 cm.
The cap protects the cables from welding sparks and falling items (G3).

K

Vertical Connector

Item No. | 7700-111

For connecting vertical and horizontal cable trays (K5-7).

X72 Safety Cap | 100-pack

Item No. | 2572-Diameter

For 4, 5 and 6 mm wire.
Ø 4.....X-Tray Width 60
Ø 5 .....X-Tray Width 120, 220, 320
Ø 6.....X-Tray Width 420

A, B, F

B

Self-drilling screws

Item No. | 7100-070

For mounting certain fittings. Surface finish FZB. Included in 7700-015, 7700-065 and 7700-066.

Knurled Locking Plug

Item No. | 7500-191

Included to fix Post Bracket Top (7700-015) and the Top Corner Bracket (7700-066) at the top of the post (B1-2). Plastic.

X75 Bolt Cutter

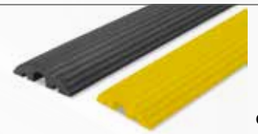
Item No. | 2575

Strong bolt cutter with an angled head for easy access.

X76 13 mm Spanner

Item No. | 2576

We only use M8 carriage bolts so this is the only spanner you require.



G

Cable Bridge | 1200 mm

Item No. | 279.21.784 – Black

Item No. | 279.28.720 – Yellow

Rubber. Withstands the weight of a truck or lorry. 210x65x1200 mm. 3 cable channels, 2x20 mm and 1x45 mm (G4).

X77 Wire Cutting Machine

Item No. | 2577

Unique and fast wire cutting machine that offers completely grade-free cutting of wire up to 6 mm. Made by Klauke with a guarantee of 10,000 cuts. Bag, battery and charger included.

Art. No	Description
0701-2300	X-Tray 60x60 L=2300 mm / Black Zinc
0711-2300	X-Tray 120x60 L=2300 mm / Black Zinc
0721-2300	X-Tray 220x60 L=2300 mm / Black Zinc
0731-2300	X-Tray 320x60 L=2300 mm / Black Zinc
0741-2300	X-Tray 420x60 L=2300 mm / Black Zinc
1722-2300	X-Tray G120x150 L=2300 mm / Black Zinc
1752-2300	X-Tray Mini 30x22 L=2300 mm / Black Zinc
1752-1200	X-Tray Mini 30x22 L=1200 mm / Black Zinc
2568	X68 Equipotential Bonding Screw / Brass
2572-4	X72 Safety Cap 4 mm (100 pcs)
2572-5	X72 Safety Cap 5 mm (100 pcs)
2572-6	X72 Safety Cap 6 mm (100 pcs)
2575	X75 Bolt Cutter
2576	X76 13 mm Spanner
2577	X77 Wire Cutting Machine, Battery powered
2701	X1 Fitting / Black Zinc
2702	X2 Fitting / Black Zinc
2703	X3 Angled Fitting / Black Zinc
2704	X4 Fitting / Black Zinc
2705	X5 Joining Fitting (20 pcs) incl. bolt & nut / Black Zinc
2761	X61 Bolt M8x27 (40 pcs) / Black Zinc
2762	X62 Flange Nut M8 (40 pcs) / Black Zinc
2710-1	X10 Bracket / Black Zinc
2710-2	X10 Mini Bracket / Black Zinc
2711-240	X11 Pendant Premium 240 / Black Zinc
2711-480	X11 Pendant Premium 480 / Black Zinc
2714-280	X14 Pendant 280 / Black Zinc
2715-120	X15 Cantilever 60 -120 / Black Zinc
2715-220	X15 Cantilever 220 / Black Zinc
2715-320	X15 Cantilever 320 / Black Zinc
2715-420	X15 Cantilever 420 / Black Zinc
2763-1	X63 Accessories Holder / Black Zinc
2765-60	X65 X-Tray Cover 60x1000 mm / RAL 9011 Black
2765-120	X65 X-Tray Cover 120x1000 mm / RAL 9011 Black
2765-220	X65 X-Tray Cover 220x1000 mm / RAL 9011 Black
2765-320	X65 X-Tray Cover 320x1000 mm / RAL 9011 Black
2765-420	X65 X-Tray Cover 420x1000 mm / RAL 9011 Black
2780-1	X80 Side Accessories Holder Black Zinc
279.28.720	Cable Bridge, small Yellow
279.21.784	Cable Bridge, small Black
7100-070	Self Drilling Screw, washer head 4.2x19 / Zinc Plated
7500-191	Knurled Locking Plug
7700-014	Post Bracket X-Guard / Black Zinc
7700-015	Post Bracket Top / Black Zinc
7700-065 *	Corner Bracket X-Guard / Black Zinc
7700-066 *	Top Corner Bracket X-Guard / Black Zinc
7700-032	Cantilever Holder 50x50 X-Guard / Black Zinc
7700-032-2	Cantilever Holder High 50x50 X-Guard / Black Zinc
7700-037	Cantilever Holder Aluminum Rail X-Guard / Black Zinc
7700-060	Adjustable Post Fitting X-Guard / Black Zinc
7700-072	Adjustable Corner Post Fitting X-Guard / Black Zinc
7700-083	Post Cantilever Holder X-Guard / Black Zinc
7700-084	Mesh Panel Mini Bracket X-Guard / Black Zinc
7700-090	Mesh Panel Bracket X-Guard / Black Zinc
7700-111	Vertical Connector Black Zinc
7700-188	Cantilever Holder 70x70 X-Guard / Black Zinc
7700-188-2	Cantilever Holder High 70x70 X-Guard / Black Zinc
9307	X-Tray Demokit X-Guard / Black Zinc

* Only Corner Bracket, not Post Bracket.
(Post Bracket 7700-014 purchased separately, previously packed together.)

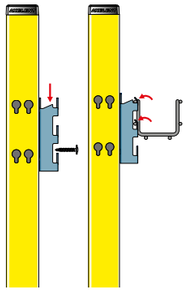
Order demokit
You can also order a demokit of cable trays, brackets and fittings for X-Guard (Item No. 9307). X-Tray comes in a large range. If there is anything you cannot find, please ask us. Most items can be black galvanized with a few weeks delivery date even special colours are available, such as Zinc Plated if your machine is lighter than black.

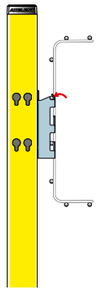
Assembly Instructions

A - Keyhole mounting

A1

60 - 120



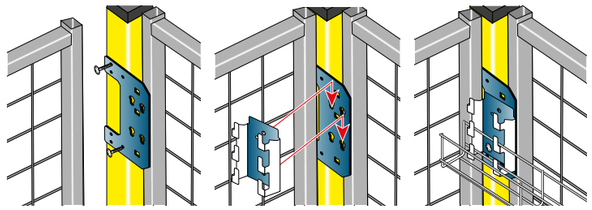


60 - 420

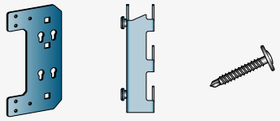
x1
7700-014

A2

60 - 120



60 - 420



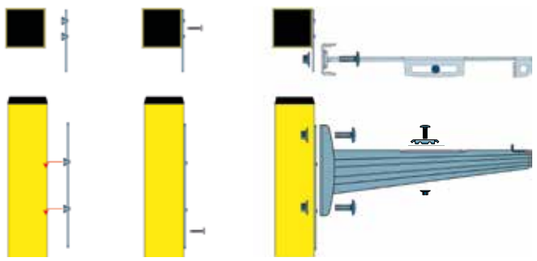
x1
7700-065

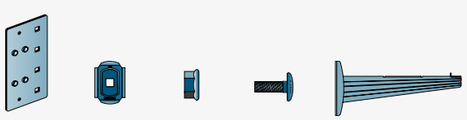
x1
7700-014

x2
7700-070 *

A3

60 - 420





x1
7700-083

x1
2701

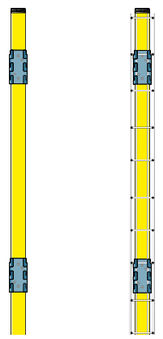
x3
2762

x3
2761

x1
2715-Length

A4

60 - 420

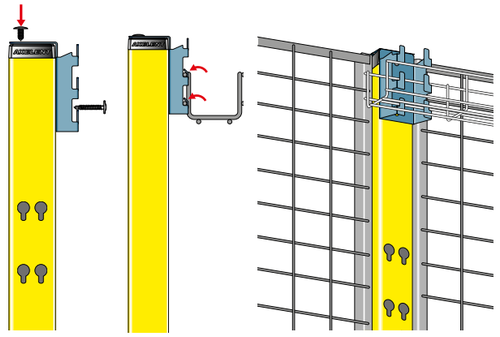


x2
7700-014

B - Top Mounting

B1

60 - 120



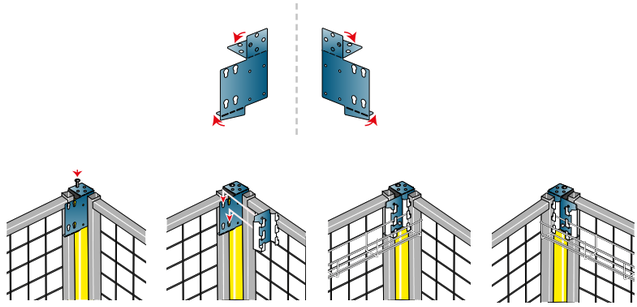
x1
7700-015

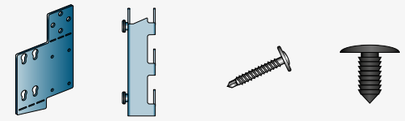
x2
7100-070 *

x2
7500-191 *

B2

60 - 120





x1
7700-066

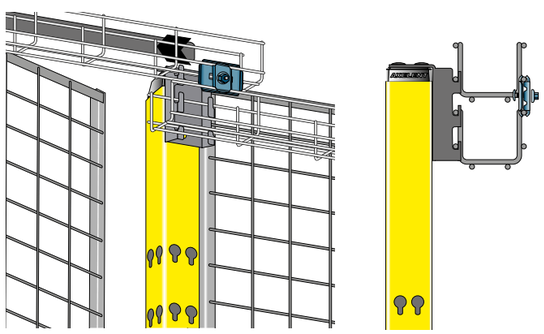
x1
7700-014

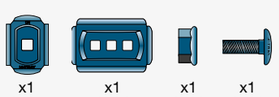
x2
7100-070 *

x2
7500-191 *

B3

60 - 120





x1
2701

x1
2704

x1
2762

x1
2761

* *These items come with the fittings.*

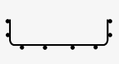
* *These items come with the fittings.*

Assembly Instructions

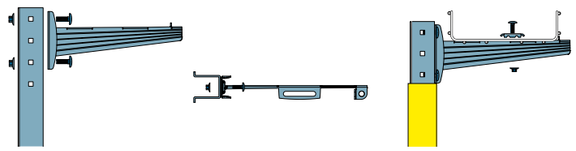
C - Cantilever mounting

C1

60 - 420



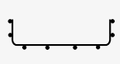
50x50



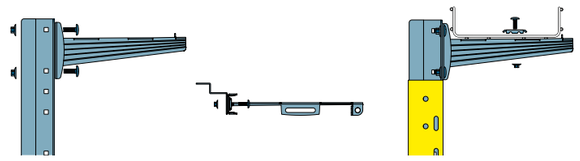
x1 2715-Length | x1 7700-032 | x1 2701 | x3 2762 | x3 2761

C2

60 - 420



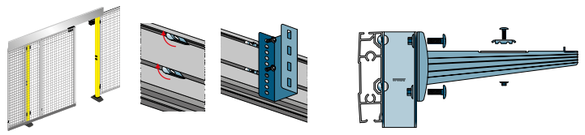
70x70

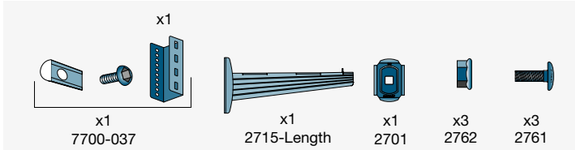


x1 2715-Length | x1 7700-188 | x1 2701 | x3 2762 | x3 2761

C3

60 - 420

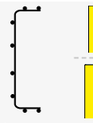




x1 7700-037 | x1 2715-Length | x1 2701 | x3 2762 | x3 2761

C4

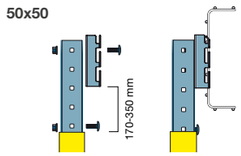
120 - 420



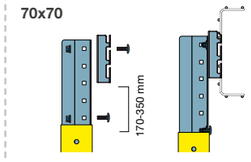
50x50 7700-032-2

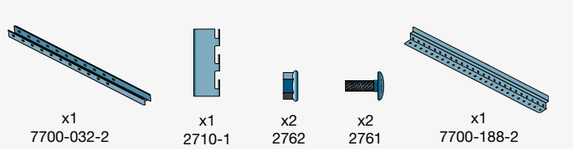
70x70 7700-188-2

50x50



70x70



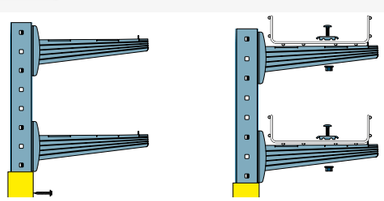


x1 7700-032-2 | x1 2710-1 | x2 2762 | x2 2761 | x1 7700-188-2

C5

60 - 420

50x50

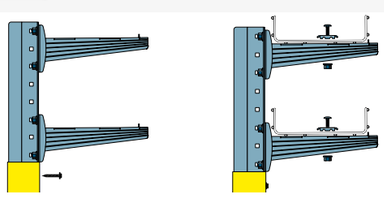


x1 2715-Length | x1 7700-032-2 | x2 2701 | x6 2762 | x6 2761

C6

60 - 420

70x70

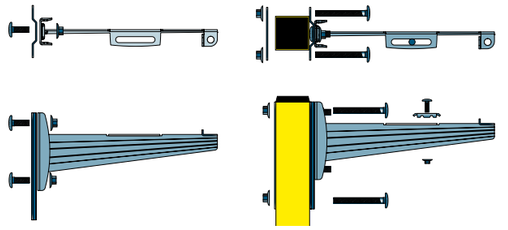


x1 2715-Length | x1 7700-188-2 | x2 2701 | x6 2762 | x6 2761

D - Free positioning

D1

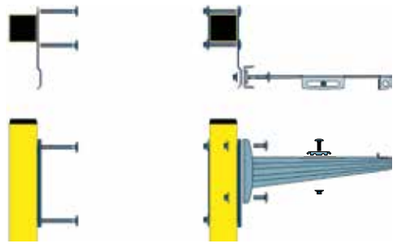
60 - 420



x1 7700-060 | x4 | x4 | x1 2701 | x3 2762 | x3 2761 | x1 2715-Length

D2

60 - 420



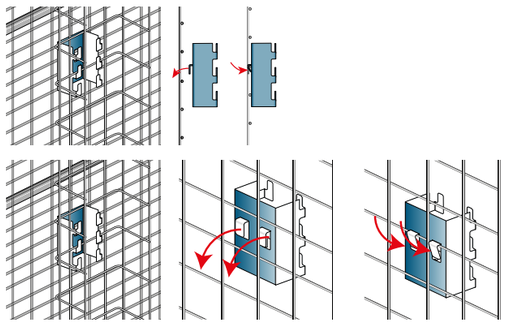
x1 7700-072 | x4 | x4 | x1 2701 | x3 2762 | x3 2761 | x1 2715-Length

E - Mesh panel mounting

E1

H* 60 - 120

V* 60 - 420

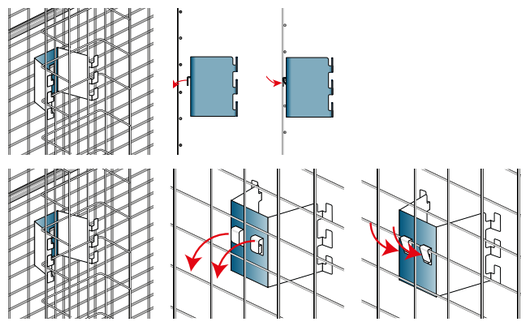


x1 7700-084

E2

H* 60 - 120

V* 120 - 420



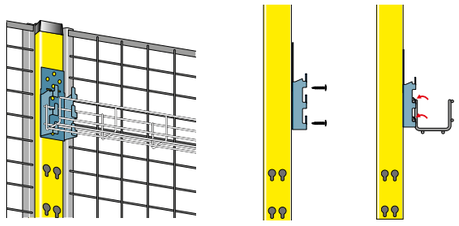
x1 7700-090

* Horizontal/Vertical

Assembly Instructions

F - Free positioning screw

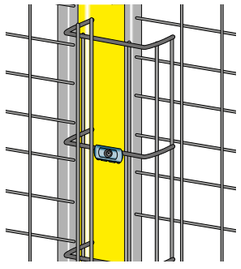
F1 — 60-120



x1
7700-015

x2
7100-070 *

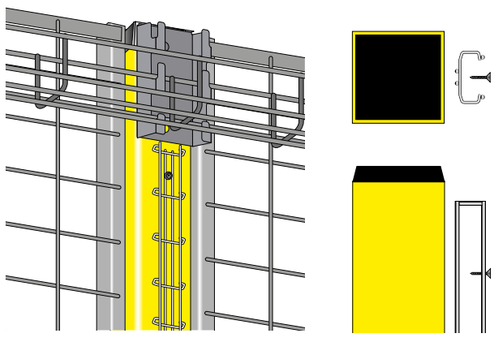
F2 — 60-420



x2
2701

x2
7100-070

F3 — X-Tray mini

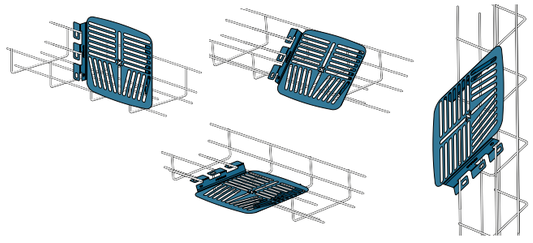


x1
1752-2300
1752-1200

x2
7100-070

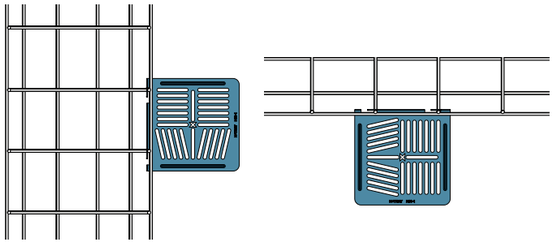
G - Accessories

G1 — 60-420



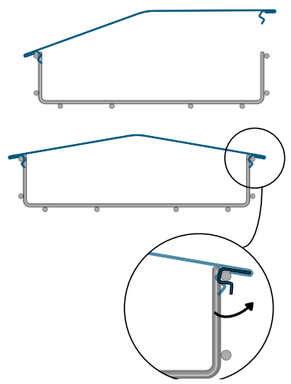
x1
2763-1

G2 — 60-420



x1
2780-1

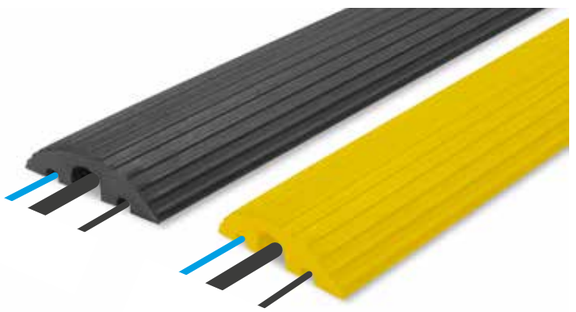
G3 — 60-420



2765-60
2765-120
2765-220
2765-320
2765-420

x1
2765-Width

G4



x1
279.21.784 - Black
Alt.
279.28.720 - Yellow

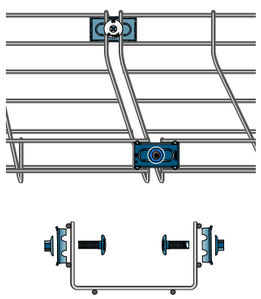
** These items come with the fittings.*

Assembly Instructions

– Always bolt from inside

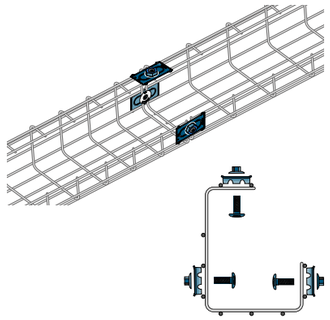
H, I, J - Joining/Shaping

H1



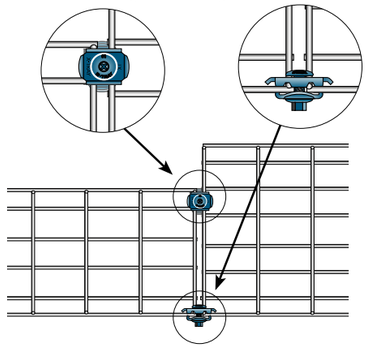
x2
2705

H2



x3
2705

H3

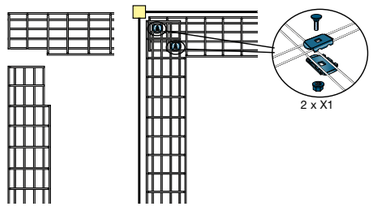


x4
2701

x2
2762

x2
2761

I1

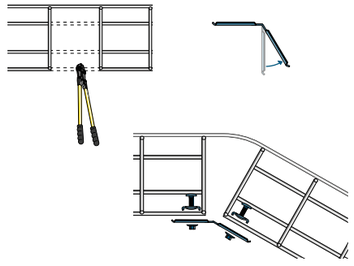


x4
2701

x2
2762

x2
2761

I2



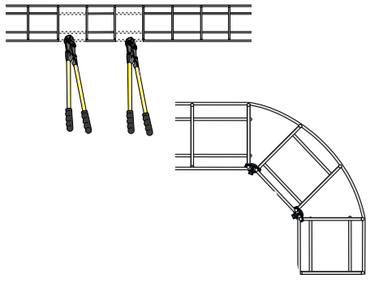
x2
2701

x1
2703

x2
2762

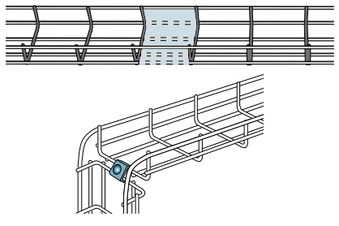
x2
2761

I3



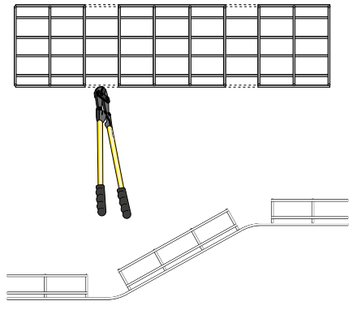
x2
2702

J1



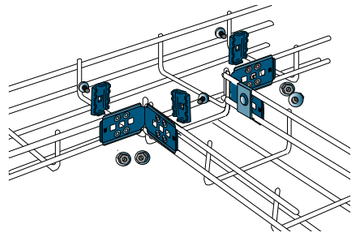
x1
2702

J2



K, L - Joining/Shaping

K1



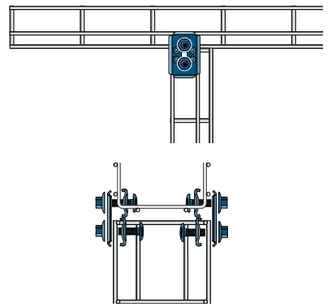
x4
2701

x2
2703

x4
2762

x4
2761

K2



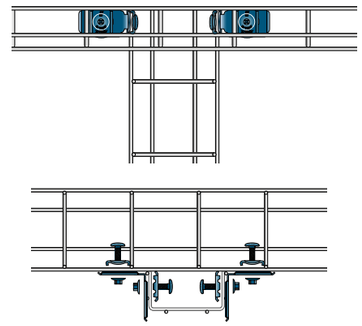
x4
2701

x2
2704

x4
2762

x4
2761

K3



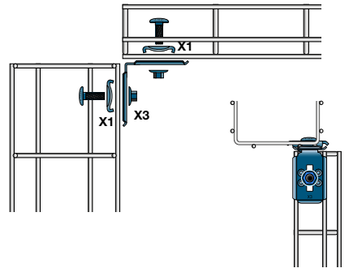
x4
2701

x2
2703

x4
2762

x4
2761

K4



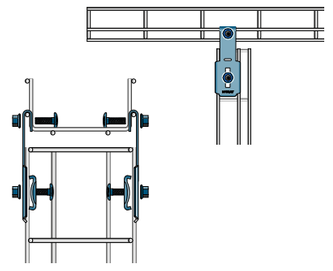
x2
2701

x1
2703

x2
2762

x2
2761

K5



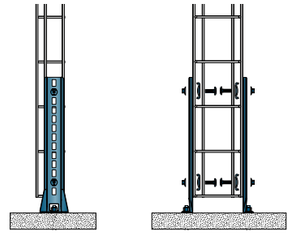
x2
2701

x2
7700-111

x4
2762

x4
2761

L1



x2
2714-280

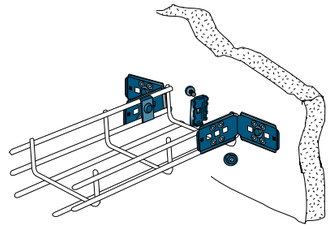
x4
2701

x4
2762

x4
2761

x2
7100-031

L2



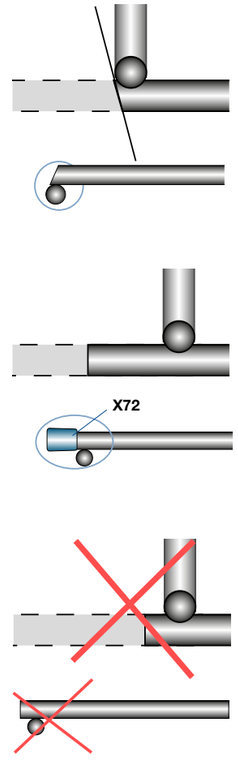
x2
2701

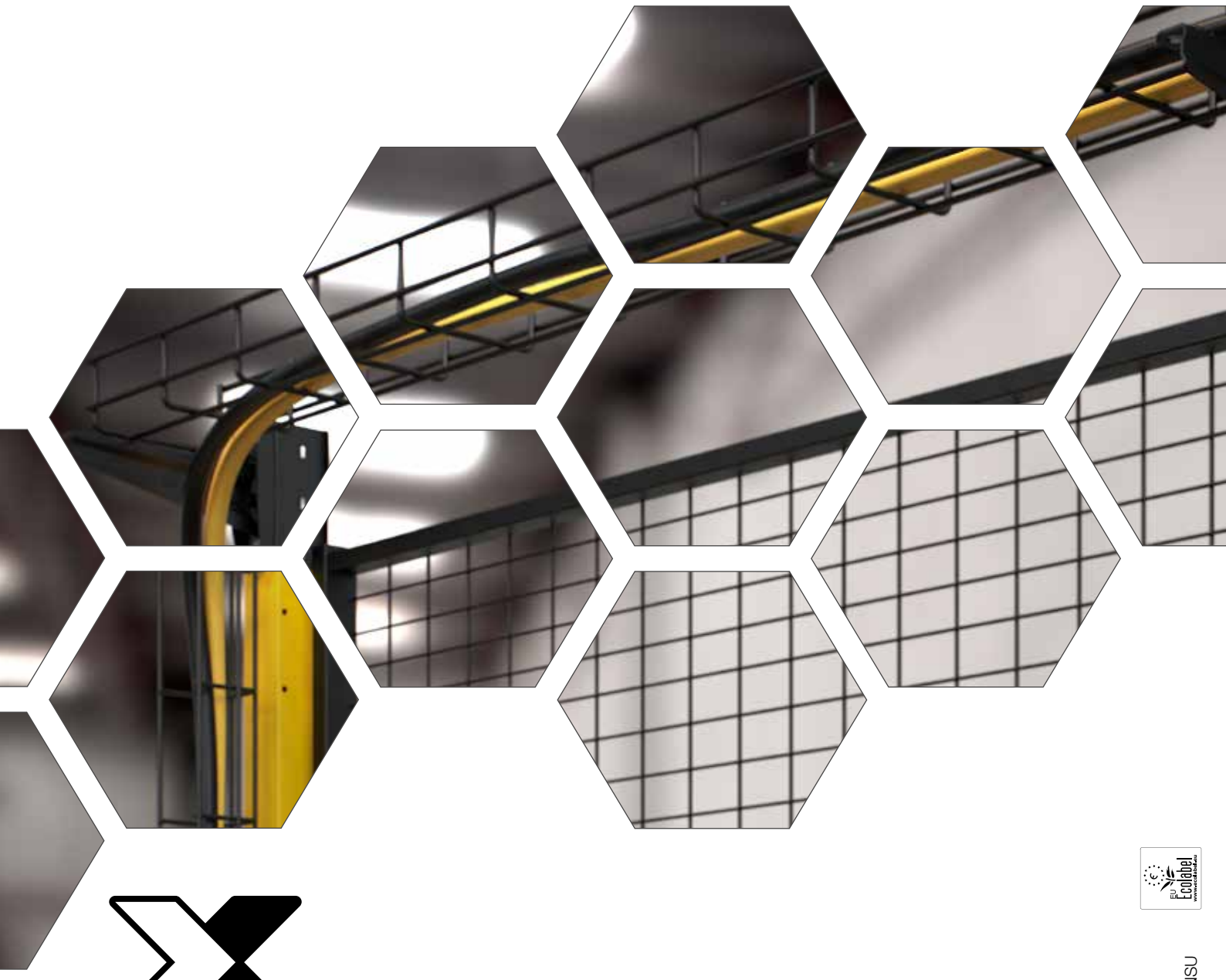
x2
2703

x2
2762

x2
2761

Cutting





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