

# X-Guard® - Panels

X-Guard has three types of panels - mesh, plastic and sheet metal. All three are supplied with mounting brackets.

#### Mesh panels

Our mesh panels comes in two sizes of mesh, Premium 50x20 mm, Classic and Lite 50x30 mm.

The Premium is 2200 mm in height and comes in six widths.

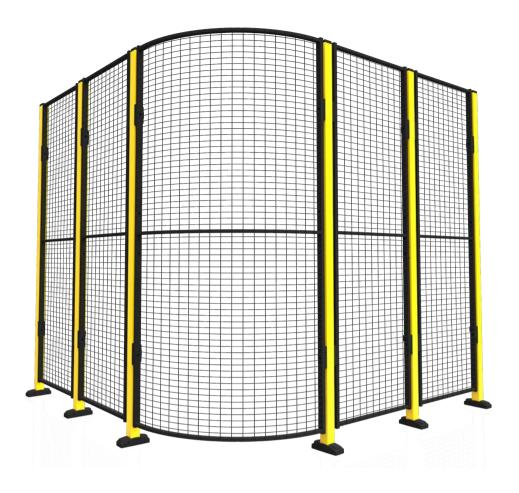
The Classic comes in five heights. The panel with a height of 750 mm is only used as an extension panel to the other heights. The panels come in thirteen widths, with the exception of the 1300 mm panel, which comes in fourteen widths. The Lite comes in three heights and in 13 widths. The standard panel colour is RAL 9011 but customised colours are available upon request.

### **X-Guard Contour**

Mesh panel X-Guard Contour has rounded corners, making it not only the perfect solution for confined but also sleek in design. These panels come in four heights and 90° angle.

#### Sheet metal and plastic panels

The X-Guard series also has a range of sheet metal and plastic panels. They come in two heights and different widths. Sheet metal panels come in standard colour RAL 9011 (Graphite black) and are also available with windows.



# X-Guard® Contour

X-Guard Contour is an unique machine guard and has gone on to become a popular choice among our more traditional guards. The rounded panels are part of our X-Guard range and can be combined with other X-Guard components. X-Guard Contour is not only the perfect solution for confined but also sleek in design. These panels comes in four heights.

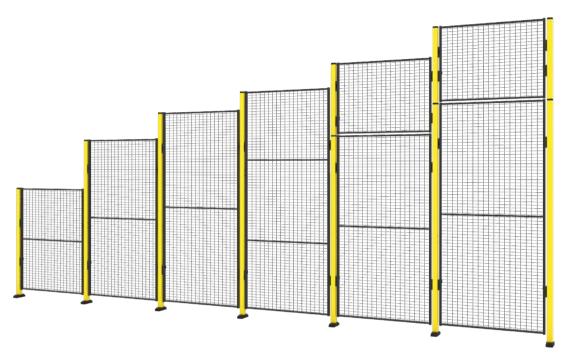
| Product facts X-Guard Contour   |   |  |  |  |
|---------------------------------|---|--|--|--|
| Cofety diatones                 | 200 mm  |  |  |  |
| Safety distance                 | 200 mm  |  |  |  |
| Uprights                        | 30x20 mm  |  |  |  |
| Horizontals                     | 25x15 mm  |  |  |  |
| Posts                           | Classic 50x50 mm  |  |  |  |
|                                 | Premium 70x70 mm  |  |  |  |
| Vertical wires                  | Ø 3 mm  |  |  |  |
| Horizontal wires                | Ø 2.5 mm  |  |  |  |
| Mesh aperture                   | 50x30 mm  |  |  |  |
| Finish                          | Phosphatising/Epoxy paint   |  |  |  |
| Colour mesh panel               | Graphite black RAL 9011   |  |  |  |
| Colour post<br>Classic 50x50 mm | Zink yellow RAL 1018<br>Graphite black RAL 9011<br>Signal blue RAL 5005<br>Traffic red RAL 3020 |  |  |  |
| Colour post<br>Premium 70x70 mm | Zink yellow RAL 1018<br>Graphite black RAL 9011<br>Traffic red RAL 3020                         |  |  |  |

(Other colours can be quoted.)

| Mesh panels Contour 50x30 mm |                  |                 |  |
|------------------------------|------------------|-----------------|--|
| Art.no                       | Height (mm)      | Angle (degrees) |  |
| Graphite black (RA           | L 9011), rounded | 90              |  |
| W32R90-190                   | 1900             | 90              |  |
| W32R90-220                   | 2200             | 90              |  |
| W32R90-240                   | 2400             | 90              |  |

(Fixings are included with all W32R- panels)

# X-Guard® - Mesh Panels



# X-Guard standard colours

Posts Classic 50x50 mm





Zink yellow RAL 1018

Graphite black RAL 9011





Signal blue RAL 5005

Traffic red RAL 3020

Posts Premium 70x70 mm





Zink yellow RAL 1018

Traffic red RAL 3020



Graphite black RAL 9011

Panels



Graphite black RAL 9011

#### Mesh

In most environments and for most machines our mesh panels provide ample protection.

Our mesh panels comes in two sizes of mesh; 50x20 mm and 50x30 mm. The safety distance determines the size of mesh required. The Classic 50x30 mm mesh requires a minimum distance of 200 mm while the Premium 50x20 mm requires only 120 mm.

Read more about the various coatings on page 42-43.

| Product facts mesh panels       |  |  |  |
|---------------------------------|--|--|--|
| Safety distance                 | Classic 200 mm<br>Premium 120 mm   |  |  |
| Uprights                        | 30x20 mm   |  |  |
| Horizontals                     | 25x15 mm   |  |  |
| Posts                           | Classic 50x50 mm<br>Premium 70x70 mm   |  |  |
| Vertical wires                  | Ø 3 mm   |  |  |
| Horizontal wires                | Ø 2.5 mm   |  |  |
| Mesh aperture                   | 50x20 mm, 50x30 mm   |  |  |
| Finish                          | Phosphatising/Epoxy paint  |  |  |
| Colour mesh panel               | Graphite black RAL 9011  |  |  |
| Colour post<br>Classic 50x50 mm | Zink yellow RAL 1018<br>Graphite black RAL 9011<br>Signal blue RAL 5005,<br>Traffic red RAL 3020 |  |  |
| Colour post<br>Premium 70x70 mm | Zink yellow RAL 1018<br>Graphite black RAL9011<br>Traffic red RAL 3020                           |  |  |

(Other colours can be quoted)

| Art.no              | Height (mm) | Width (mm) | Art.no                     | Height (mm)     | Width (mm)   |
|---------------------|-------------|------------|----------------------------|-----------------|--------------|
| Graphite black (RAL | _ 9011)     |            | Graphite black (RAL 90     | 011)            |              |
| W322-075025         | 0750        | 0250       | W322-130025                | 1300            | 0250         |
| W322-075040         | 0750        | 0400       | W322-130040                | 1300            | 0400         |
| W322-075050         | 0750        | 0500       | W322-130050                | 1300            | 0500         |
| W322-075060         | 0750        | 0600       | W322-130060                | 1300            | 0600         |
| W322-075070         | 0750        | 0700       | W322-130070                | 1300            | 0700         |
| W322-075080         | 0750        | 0800       | W322-130080                | 1300            | 0800         |
| W322-075090         | 0750        | 0900       | W322-130090                | 1300            | 0900         |
| W322-075100         | 0750        | 1000       | W322-130100                | 1300            | 1000         |
| W322-075110         | 0750        | 1100       | W322-130110                | 1300            | 1100         |
| W322-075120         | 0750        | 1200       | W322-130120                | 1300            | 1200         |
| W322-075130         | 0750        | 1300       | W322-130130                | 1300            | 1300         |
| W322-075140         | 0750        | 1400       | W322-130140                | 1300            | 1400         |
| W322-075150         | 0750        | 1500       | W322-130150                | 1300            | 1500         |
|                     |             |            | W322-130220                | 1300            | 2200         |
| W322-190025         | 1900        | 0250       | W322-220025                | 2200            | 0250         |
| W322-190040         | 1900        | 0400       | W322-220040                | 2200            | 0400         |
| W322-190050         | 1900        | 0500       | W322-220050                | 2200            | 0500         |
| W322-190060         | 1900        | 0600       | W322-220060                | 2200            | 0600         |
| W322-190070         | 1900        | 0700       | W322-220070                | 2200            | 0700         |
| W322-190080         | 1900        | 0800       | W322-220080                | 2200            | 0800         |
| W322-190090         | 1900        | 0900       | W322-220090                | 2200            | 0900         |
| W322-190100         | 1900        | 1000       | W322-220100                | 2200            | 1000         |
| W322-190110         | 1900        | 1100       | W322-220110                | 2200            | 1100         |
| W322-190120         | 1900        | 1200       | W322-220120                | 2200            | 1200         |
| W322-190130         | 1900        | 1300       | W322-220130                | 2200            | 1300         |
| W322-190140         | 1900        | 1400       | W322-220140                | 2200            | 1400         |
| W322-190150         | 1900        | 1500       | W322-220150                | 2200            | 1500         |
|                     |             |            |                            |                 |              |
| W322-240025         | 2400        | 0250       | Mesh panels P              | remium 50x20 mm |              |
| W322-240040         | 2400        | 0400       |                            |                 | 141: 445 (   |
| W322-240050         | 2400        | 0500       | Art.no                     | Height (mm      | n) Width (mm |
| W322-240060         | 2400        | 0600       | Onembia blook              | (DAL 0011)      |              |
| W322-240070         | 2400        | 0700       | Graphite black             | (KAL 9011)      |              |
| W322-240080         | 2400        | 0800       | W521-220025                | 2200            | 0250         |
| W322-240090         | 2400        | 0900       | W521-220025<br>W521-220040 | 2200            | 0400         |
| W322-240100         | 2400        | 1000       | W521-220040<br>W521-220070 | 2200            | 0700         |
| W322-240110         | 2400        | 1100       | W521-220070<br>W521-220100 | 2200            | 1000         |
| W322-240120         | 2400        | 1200       | VV 32 1-220 100            | 2200            | 1000         |

(Fixings are included with the panels)

W322-240120

W322-240130

W322-240140

W322-240150

W521-220150 2200

(Extended lead time needs to be taken in account. Fixings are included with the panels)

W521-220120





Posts Classic 50x50 mm





Zink yellow RAL 1018

Graphite black RAL 9011





Signal blue RAL 5005

Traffic red RAL 3020

Posts Premium 70x70 mm





Zink yellow RAL 1018

Traffic red RAL 3020



Graphite black RAL 9011

Panels



Graphite black RAL 9011



### Sheet metal and plastic

Some environments require more comprehensive protection such as see-through plastic walls or sheet metal covered walls. X-Guard Plastic and Sheet Metal systems are easy to fit and you can use the same posts. To avoid gaps between the section and post we recommend you fit our custom edging plate included with the purchase of sheet metal or plastic panels (see accessories on 28). The plastic walls are heat resistant up to 60 degrees and available in clear plastic. Our standard height is 2200 mm and the extension height of 750 mm. Panels in heights of 1900 mm and 2400 mm are available on request.

#### Panel with window

When a process needs to be monitored then a windowed panel is the perfect solution. The window is available in clear or coloured plastic, the latter to protect against welding flashes. The coloured plastic meets safety standards EN ISO 25980:2014. Protection dark green is our standard. Our windowed panel comes in height of 2200 mm and in three widths as a standard. Panels in heights of 1900 mm and 2400 mm are available on request.

| Product facts plastic- and sheetpanels |   |  |  |
|--|---|--|--|
| Uprights                               | 30x20 mm  |  |  |
| Horizontals                            | 30x20 mm  |  |  |
| Plastic                                | 2 mm (thermoplastic polyester)<br>3 mm (polycarbonate) "protecting dark green"                        |  |  |
| Sheet metal                            | 0,7 mm  |  |  |
| Posts                                  | Classic 50x50 mm<br>Premium 70x70 mm  |  |  |
| Colour panel                           | Sheet metal: Graphite black (RAL 9011)<br>Plastic: transparent, frame in Graphite<br>black (RAL 9011) |  |  |
| Colour post<br>Classic 50x50           | Zink yellow RAL 1018<br>Graphite black RAL 9011<br>Signal blue RAL 5005<br>Traffic red RAL 3020       |  |  |
| Colour post<br>Premium 70x70           | Zink yellow RAL 1018<br>Graphite black RAL 9011<br>Traffic red RAL 3020                               |  |  |

(Other colours can be quoted)

| Plastic     |             |            |             |             |            |
|-------------|-------------|------------|-------------|-------------|------------|
| Art.no      | Height (mm) | Width (mm) | Art.no      | Height (mm) | Width (mm) |
|             |             |            |             |             |            |
| W348-075025 | 0750        | 0250       | W348-220025 | 2200        | 0250       |
| W348-075040 | 0750        | 0400       | W348-220040 | 2200        | 0400       |
| W348-075080 | 0750        | 0800       | W348-220080 | 2200        | 0800       |
| W348-075100 | 0750        | 1000       | W348-220100 | 2200        | 1000       |
| W348-075120 | 0750        | 1200       | W348-220120 | 2200        | 1200       |
| W348-075150 | 0750        | 1500       | W348-220150 | 2200        | 1500       |

(Fixings are included with the panels)

| Sheet metal        |             |            |             |             |            |
|--------------------|-------------|------------|-------------|-------------|------------|
| Art.no             | Height (mm) | Width (mm) | Art.no      | Height (mm) | Width (mm) |
| Graphite black (RA | L 9011)     |            |             |             |            |
| W349-075025        | 0750        | 0250       | W349-220025 | 2200        | 0250       |
| W349-075040        | 0750        | 0400       | W349-220040 | 2200        | 0400       |
| W349-075080        | 0750        | 0800       | W349-220080 | 2200        | 0800       |
| W349-075100        | 0750        | 1000       | W349-220100 | 2200        | 1000       |
| W349-075120        | 0750        | 1200       | W349-220120 | 2200        | 1200       |

(Fixings are included with the panels)

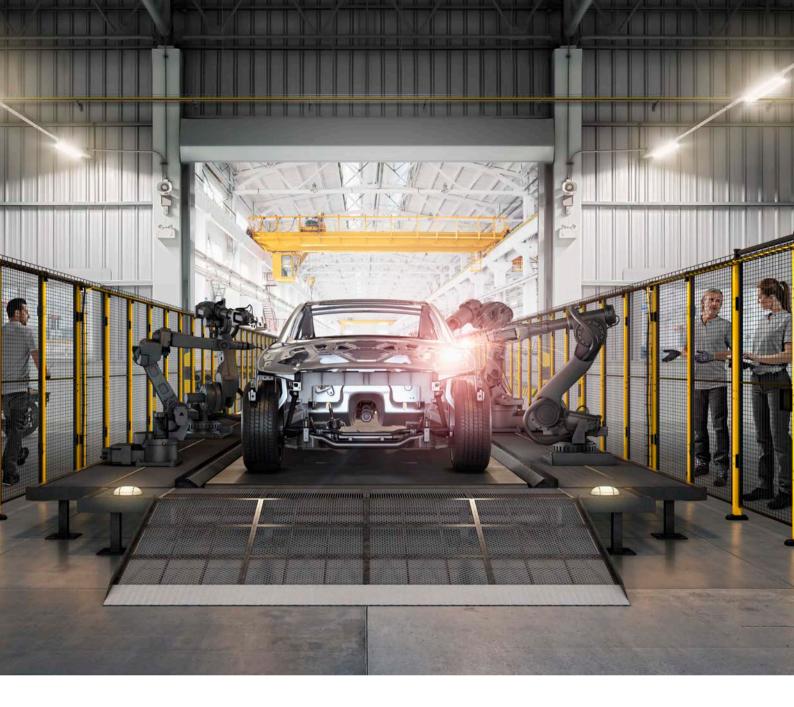
| Sheet metal with window (clear and welding green) |                |            |                     |                         |            |
|---|----------------|------------|---------------------|-------------------------|------------|
| Art.no  | Height (mm)    | Width (mm) | Art.no              | Height (mm)             | Width (mm) |
| Clear · Graphite bla                              | ick (RAL 9011) |            | Protecting dark gre | een · Graphite black (F | RAL 9011)  |
| W340-220080                                       | 2200           | 0800       | W347-220080         | 2200                    | 0800       |
| W340-220100                                       | 2200           | 1000       | W347-220100         | 2200                    | 1000       |
| W340-220120                                       | 2200           | 1200       | W347-220120         | 2200                    | 1200       |

(Fixings are included with the panels)

## Door options for plastic and sheet panel

For installing a door with either plastic or sheet metal, a new special door panel can be ordered. The new special frame offers an easy installing of the door and an easy assembling of the lock. The different door options for plastic and sheet metal can be found on pages 13-20.





# X-Guard® - Posts

X-Guard is available with two types of posts - Classic 50x50 mm and Premium 70x70 mm.

#### Classic 50x50 post

The Classic 50x50 mm post comes in four heights and has an extension piece of 750 mm. Colours range from RAL 1018 (Zink yellow), RAL 5005 (Signal blue), RAL 9011 (Graphite black) and RAL 3020 (Traffic red).

This post comes with a foot cover that hides the welded foot. It has a sleek design and makes cleaning so much easier.

### Premium 70x70 post

The Premium 70x70 mm post comes in four heights and has an extension piece in four different heights. The standard colour is RAL 1018 (Zink yellow), RAL 9011 (Graphite black) and RAL 3020 (Traffic red) with a RAL 9011 (Graphite black) foot.

This post is shipped with a separate foot that can be fitted in two directions. This post is suitable when a more robust and higher machine guard is needed.

Both posts have holes punched on three sides to facilitate fitting, and a floor gap of 100 mm. Customised colours are available upon request.

Top plugs and expansion bolts for floor fixing are included with both posts.

#### Post prepared for push buttons

Axelent has developed X-Guard posts ready prepared for push buttons in a standard design. They make handling much easier and give a clean and tidy installation.

The post is equipped with a cover plate that doubles up as a guard against accidental activation.

The post comes in the types of Classic 50x50 mm and Premium 70x70 mm, and heights of 2000, 2300 and 2500 mm.

| Posts      |            |                   |             |
|------------|------------|-------------------|-------------|
| Art.no     | Colour     | Gap to floor (mm) | Height (mm) |
| Classic 50 | x 50 mm    |                   |             |
| P11-140    | (RAL 1018) | 100               | 1400        |
| P11-200    | (RAL 1018) | 100               | 2000        |
| P11-230    | (RAL 1018) | 100               | 2300        |
| P11-250    | (RAL 1018) | 100               | 2500        |
| P21-140    | (RAL 5005) | 100               | 1400        |
| P21-200    | (RAL 5005) | 100               | 2000        |
| P21-230    | (RAL 5005) | 100               | 2300        |
| P21-250    | (RAL 5005) | 100               | 2500        |
| P31-140    | (RAL 9011) | 100               | 1400        |
| P31-200    | (RAL 9011) | 100               | 2000        |
| P31-230    | (RAL 9011) | 100               | 2300        |
| P31-250    | (RAL 9011) | 100               | 2500        |
| P71-140    | (RAL 3020) | 100               | 1400        |
| P71-200    | (RAL 3020) | 100               | 2000        |
| P71-230    | (RAL 3020) | 100               | 2300        |
| P71-250    | (RAL 3020) | 100               | 2500        |
| Classic 50 | v 50 mm    |                   |             |
| P11-148    |            | 200               | 1500        |

## Premium $70 \times 70$ mm, Zink yellow (RAL 1018), Graphite black (RAL 9011), Traffic red (RAL 3020)

| (       | ')         |     |      |
|---------|------------|-----|------|
| P13-140 | (RAL 1018) | 100 | 1400 |
| P13-200 | (RAL 1018) | 100 | 2000 |
| P13-230 | (RAL 1018) | 100 | 2300 |
| P13-250 | (RAL 1018) | 100 | 2500 |
| P33-140 | (RAL 9011) | 100 | 1400 |
| P33-200 | (RAL 9011) | 100 | 2000 |
| P33-230 | (RAL 9011) | 100 | 2300 |
| P33-250 | (RAL 9011) | 100 | 2500 |
| P73-140 | (RAL 3020) | 100 | 1400 |
| P73-200 | (RAL 3020) | 100 | 2000 |
| P73-230 | (RAL 3020) | 100 | 2300 |
| P73-250 | (RAL 3020) | 100 | 2500 |
|         |            |     |      |

### Extension 50 x 50 mm

| E11-075, E11-075B | (RAL 1018) | 0750 |
|-------------------|------------|------|
| E21-075, E21-075B | (RAL 5005) | 0750 |
| E31-075, E31-075B | (RAL 9011) | 0750 |
| E71-075, E71-075B | (RAL 3020) | 0750 |

(B, indicate that these extensions shall be used with the sliding doors.)

| Extension   | Premium        | 70 x 70 | mm |
|-------------|----------------|---------|----|
| LACCITOTOTI | I I CIIII GIII | 70770   |    |

| E13-075 | (RAL 1018) | 0750 |
|---------|------------|------|
| E13-130 | (RAL 1018) | 1300 |
| E13-190 | (RAL 1018) | 1900 |
| E13-220 | (RAL 1018) | 2200 |
| E33-075 | (RAL 9011) | 0750 |
| E33-130 | (RAL 9011) | 1300 |
| E33-190 | (RAL 9011) | 1900 |
| E33-220 | (RAL 9011) | 2200 |
| E73-075 | (RAL 3020) | 0750 |
| E73-130 | (RAL 3020) | 1300 |
| E73-190 | (RAL 3020) | 1900 |
| E73-220 | (RAL 3020) | 2200 |
|         |            |      |

#### Post, push buttons

| 50x50 mm | (RAL 1018) | P11-200-A01 | 2000 |  |
|----------|------------|-------------|------|--|
| 50x50 mm | (RAL 1018) | P11-230-A01 | 2300 |  |
| 50x50 mm | (RAL 1018) | P11-250-A01 | 2500 |  |
| 70x70 mm | (RAL 1018) | P13-200-A01 | 2000 |  |
| 70x70 mm | (RAL 1018) | P13-230-A01 | 2300 |  |
| 70x70 mm | (RAL 1018) | P13-250-A01 | 2500 |  |
|          |            |             |      |  |



#### Foot Classic 50x50 mm

The Classic 50x50 post comes with a foot cover to hide the welded foot. Top plug and expansion bolt for floor fixing included. Floor gap 100 mm.



#### Foot Premium 70x70 mm

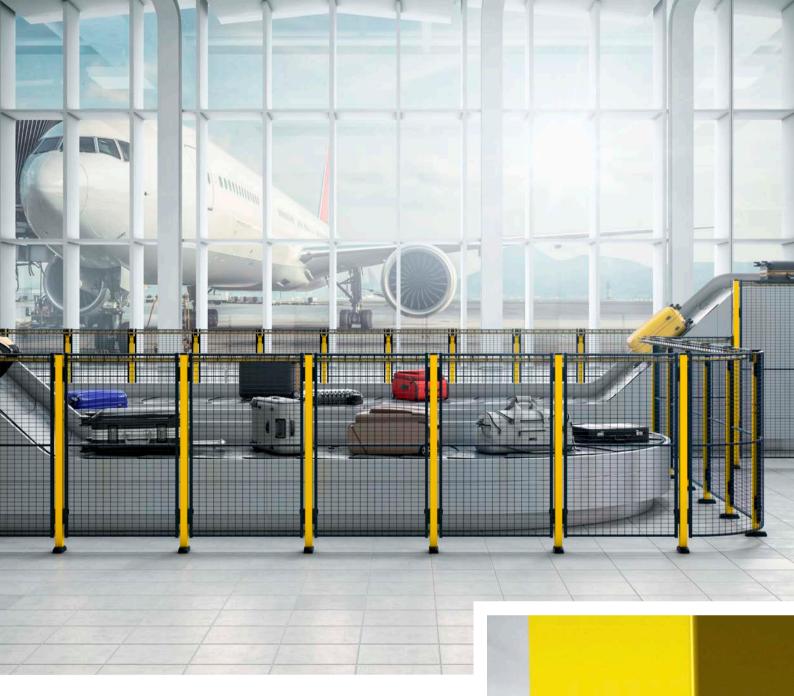
The Premium 70x70 post includes a Graphite black powder coated foot. It can be fitted in two different directions.

Top plugs and expansion bolts for floor fixing are included. Floor gap 100 mm.



#### Post, push buttons

The post (Classic 50x50 mm or Premium 70x70 mm) is prepared for up to 5 push buttons (not included). It is also equipped with a cover plate that doubles up as a guard against accidental activation.



LITE

# X-Guard<sup>®</sup> Lite

X-Guard Lite is a simpler version of X-Guard. An excellent cost-effective alternative usually offers adequate protection.

| Product facts mesh panels |                           |  |  |  |  |
|---------------------------|---------------------------|--|--|--|--|
| Safety distance           | 200 mm                    |  |  |  |  |
| Uprights                  | 19x19 mm                  |  |  |  |  |
| Horizontals               | 15x15 mm                  |  |  |  |  |
| Posts                     | 50x50 mm                  |  |  |  |  |
| Vertical wires            | Ø 3 mm                    |  |  |  |  |
| Horizontal wires          | Ø 2.5 mm                  |  |  |  |  |
| Mesh apertures            | 50x30 mm                  |  |  |  |  |
| Finish                    | Phosphatising/Epoxy paint |  |  |  |  |
| Colour mesh panels        | Graphite black RAL 9011   |  |  |  |  |
| Colour post               | Zink yellow RAL 1018      |  |  |  |  |
|                           |                           |  |  |  |  |

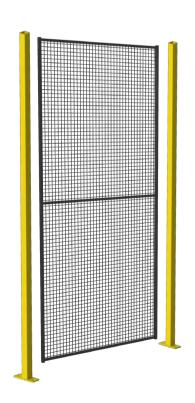
(Other colors can be quoted)

| Access      | ories Lite   |
|-------------|--|
| Art.no      | Description  |
|             |  |
| K1-12       | Kit for optional placing of quick fittings, 1 pack                             |
| KHE-3-150   | Cutting horizontal W=1500 mm (max)   |
| 10-9965     | Plastic plug 19x19 mm, Graphite black  |
| KVL-3-130   | Vertical cutting package, X-Guard Lite,  |
|             | H = 1300 mm, RAL 9011  |
| KVL-3-190   | Vertical cutting package, X-Guard Lite,  |
|             | H = 1900 mm, RAL 9011  |
| KVL-3-220   | Vertical cutting package, X-Guard Lite,  |
|             | H = 2200 mm, RAL 9011  |
| T00-27      | Fittings X-Guard LITE, Ver.2   |
| T06-3-13015 | Infill sheet adjustable W=40-145mm, H=1300mm                                   |
| T06-3-19015 | Infill sheet adjustable W=40-145mm, H=1900mm                                   |
| T06-3-22015 | Infill sheet adjustable W=40-145mm, H=2200mm (only with quick fittings T00-27) |
| T90-06      | X-Guard Lite Sample kit  |

| Posts Lit | е                 |             |  |
|-----------|-------------------|-------------|--|
| Art.no    | Gap to floor (mm) | Height (mm) |  |

Lite, 50x50 mm, Zink yellow (RAL 1018)

| P17-140 | 100 | 1400 |
|---------|-----|------|
| P17-200 | 100 | 2000 |
| P17-230 | 100 | 2300 |



| Mesh panels Li             |             |            |
|----------------------------|-------------|------------|
| Art.no                     | Height (mm) | Width (mm) |
| Graphite black (RAL 9011   | 1)          |            |
| W312-130025                | 1300        | 0250       |
| W312-130040                | 1300        | 0400       |
| W312-130050                | 1300        | 0500       |
| W312-130060                | 1300        | 0600       |
| W312-130070                | 1300        | 0700       |
| W312-130080                | 1300        | 0800       |
| W312-130090                | 1300        | 0900       |
| W312-130100                | 1300        | 1000       |
| W312-130110                | 1300        | 1100       |
| W312-130120                | 1300        | 1200       |
| W312-130130                | 1300        | 1300       |
| W312-130140                | 1300        | 1400       |
| W312-130150                | 1300        | 1500       |
| W040 40000F                | 1000        | 0050       |
| W312-190025                | 1900        | 0250       |
| W312-190040                | 1900        | 0400       |
| W312-190050                | 1900        | 0500       |
| W312-190060                | 1900        | 0600       |
| W312-190070                | 1900        | 0700       |
| W312-190080                | 1900        | 0800       |
| W312-190090                | 1900        | 0900       |
| W312-190100                | 1900        | 1000       |
| W312-190110                | 1900        | 1100       |
| W312-190120                | 1900        | 1200       |
| W312-190130                | 1900        | 1300       |
| W312-190140                | 1900        | 1400       |
| W312-190150                | 1900        | 1500       |
| W312-220025                | 2200        | 0250       |
| W312-220040                | 2200        | 0400       |
| W312-220050                | 2200        | 0500       |
| W312-220060                | 2200        | 0600       |
| W312-220070                | 2200        | 0700       |
| W312-220080                | 2200        | 0800       |
| W312-220090                | 2200        | 0900       |
| W312-220100                | 2200        | 1000       |
| W312-220110                | 2200        | 1100       |
| W312-220120                | 2200        | 1200       |
| W312-220130                | 2200        | 1300       |
| W312-220140                | 2200        | 1400       |
| W312-220140<br>W312-220150 | 2200        | 1500       |
|                            | 2200        | 1000       |



# X-Guard® - Doors

X-Guard's door pack gives you easy and safe passage to and from the enclosed area. Whether you need to shift goods in and out or need access to carry out maintenance and service, X-Guard has doors to cover most eventualities. X-Guard is so versatile that you can swap a fixed panel for a door easily without having to move any posts. You do not need to concern yourself with whether the door should be left or right-hinged either (not X-Lock and X-It).

Our door packages can cover a variety of dimensions when paired with the required panel sizes. If you are swapping a fixed panel for a door just add a door package. If you are creating a door from scratch ensure you select the panels and posts you need too.

If there is a need for increased stability, you can use our 70x70 mm posts as an addition.

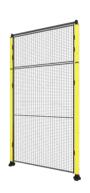
# X-Guard® - Hinge Doors

Single hinge door, max opening 1500 mm.

|    | Single hinge door (Classic 50x50 mm posts) |             |              |        |                        |         |             |  |
|----|--|-------------|--------------|--------|------------------------|---------|-------------|--|
|    | Art.no                                     | Height (mm) | Max width (n | nm)*   | Description            | Plas    | tic & Sheet |  |
| 1. | D10/DP10-XXX150A                           | Max 2500    | 1500         | Single | hinge door with top fr | rame    | Х           |  |
| 1. | D10-XXX150B                                | Min 2755    | 1500         | Single | hinge door with top fr | rame    |             |  |
| 1. | D11/DP11-XXX150A                           | Max 2500    | 1500         | Single | hinge door without to  | p frame | Х           |  |
| 1. | D11-XXX150B                                | Min 2755    | 1500         | Single | hinge door without to  | p frame |             |  |



|    | Single hinge door (Premium 70x70 mm posts) |             |           |         |                         |         |         |  |
|----|--|-------------|-----------|---------|-------------------------|---------|---------|--|
|    | Art.no                                     | Height (mm) | Max widtl | h (mm)* | Description             | Plastic | & Sheet |  |
| 1. | D30/DP30-XXX150A                           | Max 2500    | 1500      | Single  | e hinge door, incl. top | frame   | Х       |  |
| 1. | D30-XXX150B                                | Min 2755    | 1500      | Single  | hinge door, incl. top   | frame   |         |  |



Double hinge door, access for wider goods, pollet truck etc. max opening 2x1500 mm.

|    | Double hinge door (Classic 50x50 mm posts) |             |                 |                   |                 |  |  |  |
|----|--|-------------|-----------------|-------------------|-----------------|--|--|--|
|    | Art.no                                     | Height (mm) | Max width (mm)* | Description       | Plastic & Sheet |  |  |  |
| 2. | D12-140300                                 | 1400        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D12-200300                                 | 2000        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D12/DP12-230300                            | 2300        | 2x1500          | Double hinge door | Х               |  |  |  |
| 2. | D12-250300                                 | 2500        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D12-275300                                 | 2755        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D12-305300                                 | 3055        | 2x1500          | Double hinge door |                 |  |  |  |



|    | Double hinge door (Premium 70x70 mm posts) |             |                 |                   |                 |  |  |  |
|----|--|-------------|-----------------|-------------------|-----------------|--|--|--|
|    | Art.no                                     | Height (mm) | Max width (mm)* | Description       | Plastic & sheet |  |  |  |
| 2. | D32-200300                                 | 2000        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D32/DP32-230300                            | 2300        | 2x1500          | Double hinge door | Х               |  |  |  |
| 2. | D32-250300                                 | 2500        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D32-275300                                 | 2755        | 2x1500          | Double hinge door |                 |  |  |  |
| 2. | D32-305300                                 | 3055        | 2x1500          | Double hinge door |                 |  |  |  |



# X-Guard® - Sliding Doors

Single sliding door, can be built with a max opening of 5700 mm.



|    | Single sliding door (Classic 50x50 mm posts) |             |                 |                     |                 |  |  |  |
|----|--|-------------|-----------------|---------------------|-----------------|--|--|--|
|    | Art.no                                       | Height (mm) | Max width (mm)* | Description         | Plastic & Sheet |  |  |  |
| 4. | D20-XXX100A                                  | Max 2500    | 900             | Single sliding door | х               |  |  |  |
| 4. | D20-XXX100B                                  | Min 2755    | 900             | Single sliding door |                 |  |  |  |
| 4. | D20-XXX140A                                  | Max 2500    | 1400            | Single sliding door | Х               |  |  |  |
| 4. | D20-XXX140B                                  | Min 2755    | 1400            | Single sliding door |                 |  |  |  |
| 4. | D20/DP20-XXX220A                             | Max 2500    | 2100            | Single sliding door | Х               |  |  |  |
| 4. | D20-XXX220B                                  | Min 2755    | 2100            | Single sliding door |                 |  |  |  |
| 4. | D20/DP20-XXX310A                             | Max 2500    | 3000            | Single sliding door | Х               |  |  |  |
| 4. | D20-XXX310B                                  | Min 2755    | 3000            | Single sliding door |                 |  |  |  |
| 4. | D20/DP20-XXX570A                             | Max 2500    | 5700            | Single sliding door | Х               |  |  |  |
| 4. | D20-XXX570B                                  | Min 2755    | 5700            | Single sliding door |                 |  |  |  |



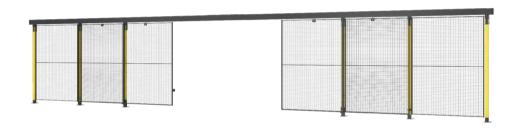
|    | Single sliding door (Premium 70x70 mm posts) |             |                 |                     |                 |  |  |  |
|----|--|-------------|-----------------|---------------------|-----------------|--|--|--|
|    | Art.no                                       | Height (mm) | Max width (mm)* | Description         | Plastic & Sheet |  |  |  |
| 4. | D40-XXX100A                                  | Max 2500    | 900             | Single sliding door | х               |  |  |  |
| 4. | D40-XXX100B                                  | Min 2755    | 900             | Single sliding door |                 |  |  |  |
| 4. | D40-XXX140A                                  | Max 2500    | 1400            | Single sliding door | Х               |  |  |  |
| 4. | D40-XXX140B                                  | Min 2755    | 1400            | Single sliding door |                 |  |  |  |
| 4. | D40/DP40-XXX220A                             | Max 2500    | 2100            | Single sliding door | Х               |  |  |  |
| 4. | D40-XXX220B                                  | Min 2755    | 2100            | Single sliding door |                 |  |  |  |
| 4. | D40/DP40-XXX310A                             | Max 2500    | 3000            | Single sliding door | Х               |  |  |  |
| 4. | D40-XXX310B                                  | Min 2755    | 3000            | Single sliding door |                 |  |  |  |
| 4. | D40/DP40-XXX570A                             | Max 2500    | 5700            | Single sliding door | Х               |  |  |  |
| 4. | D40-XXX570B                                  | Min 2755    | 5700            | Single sliding door |                 |  |  |  |

Sliding door with centre lock, where the door blades are pushed in opposite directions. Maximum width is 5900 mm. Double sliding doors are a perfect solution where space is limited and when a door in the middle is required.





|    | Sliding door with centre lock (Classic 50x50 mm posts) |             |                 |                               |                 |  |  |  |
|----|--|-------------|-----------------|-------------------------------|-----------------|--|--|--|
|    | Art.no   | Height (mm) | Max width (mm)* | Description                   | Plastic & Sheet |  |  |  |
| 5. | D22/DP22-XXX290A                                       | Max 2500    | 2900            | Sliding door with centre lock | х               |  |  |  |
| 5. | D22-XXX290B  | Min 2755    | 2900            | Sliding door with centre lock |                 |  |  |  |
| 5. | D22/DP22-XXX590A                                       | Max 2500    | 5900            | Sliding door with centre lock | Х               |  |  |  |
| 5. | D22-XXX590B  | Min 2755    | 5900            | Sliding door with centre lock |                 |  |  |  |



|    | Sliding door with centre lock (Premium 70x70 mm posts) |             |                 |                         |                 |  |  |  |
|----|--|-------------|-----------------|-------------------------|-----------------|--|--|--|
|    | Art.no   | Height (mm) | Max width (mm)* | Description             | Plastic & Sheet |  |  |  |
| 5. | D42/DP42-XXX290A                                       | Max 2500    | 2900            | Sliding door with centr | e lock x        |  |  |  |
| 5. | D42-XXX290B  | Min 2755    | 2900            | Sliding door with centr | e lock          |  |  |  |
| 5. | D42/DP42-XXX590A                                       | Max 2500    | 5900            | Sliding door with centr | e lock x        |  |  |  |
| 5. | D42-XXX590B  | Min 2755    | 5900            | Sliding door with centr | e lock          |  |  |  |

The combined hinged- and sliding door offers 2000 or 4000 mm wide opening in compact way. All the advantages of both door types are merged into one. The door has folding panels on wheels, which means that you quick and easily can open the door by sliding the door panels together and then folding them down.



|      | Combined hinged- and sliding door (Premium 70x70 mm posts) |                 |                |                             |                 |  |  |  |  |
|------|--|-----------------|----------------|-----------------------------|-----------------|--|--|--|--|
|      | Art.no   | Max Height (mm) | Max width (mm) | * Description               | Plastic & Sheet |  |  |  |  |
| 6 a. | D56/DP56-XXX200A   | 2500            | 2000           | Combined hinged- and slidi  | ng door x       |  |  |  |  |
| 6 a. | D56-XXX200B  | 3055            | 2000           | Combined hinged- and slidi  | ng door         |  |  |  |  |
| 6 b. | D57/DP57-XXX400A   | 2500            | 4000           | Hinged/sliding door with ce | ntre lock x     |  |  |  |  |
| 6 b. | D57-XXX400B  | 3055            | 4000           | Hinged/sliding door with ce | ntre lock       |  |  |  |  |

Double sliding door with 2-step rail, is used where a large opening is required but where there is limited space at the side. The panels overlap each other instead of sliding to the side. Maximum width 2x1500 mm and maximum height 2500 mm.



|    | Double sliding door with 2-step rail (Classic 50x50 mm posts) |             |                 |   |                 |  |  |
|----|---|-------------|-----------------|---|-----------------|--|--|
|    | Art.no  | Height (mm) | Max width (mm)* | Description                                 | Plastic & Sheet |  |  |
| 7. | D23-200300R   | 2000        | 2x1500          | Double sliding door, right, with 2-step rai | il              |  |  |
| 7. | D23-200300L   | 2000        | 2x1500          | Double sliding door, left, with 2-step rail |                 |  |  |
| 7. | D23-230300R   | 2300        | 2x1500          | Double sliding door, right, with 2-step ra  | il x            |  |  |
| 7. | D23-230300L   | 2300        | 2x1500          | Double sliding door, left, with 2-step rail | Х               |  |  |
| 7. | D23-250300R   | 2500        | 2x1500          | Double sliding door, right, with 2-step ra  | il              |  |  |
| 7. | D23-250300L   | 2500        | 2x1500          | Double sliding door, left, with 2-step rail |                 |  |  |

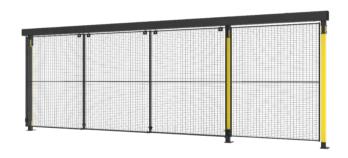


|    | Double sliding door with 2-step rail (Premium 70x70 mm posts) |             |                 |                                      |                 |  |  |
|----|---|-------------|-----------------|--------------------------------------|-----------------|--|--|
|    | Art.no  | Height (mm) | Max width (mm)* | Description                          | Plastic & Sheet |  |  |
| 7. | D43-200300L   | 2000        | 2x1500          | Sliding door, left with 2-step rail  |                 |  |  |
| 7. | D43-200300R   | 2000        | 2x1500          | Sliding door, right with 2-step rail |                 |  |  |
| 7. | D43-230300L   | 2300        | 2x1500          | Sliding door, left with 2-step rail  | Х               |  |  |
| 7. | D43-230300R   | 2300        | 2x1500          | Sliding door, right with 2-step rail | Х               |  |  |
| 7. | D43-250300L   | 2500        | 2x1500          | Sliding door, left with 2-step rail  |                 |  |  |
| 7. | D43-250300R   | 2500        | 2x1500          | Sliding door, right with 2-step rail |                 |  |  |

Triple sliding door with 3-step rail, is used where a large opening is required but where there is limited space at the side. The panels overlap each other instead of sliding to the side. Maximum width 3x1500 mm and maximum height 2500 mm.



|    | Triple sliding door with 3-step rail (Classic 50x50 mm posts) |             |                |                                    |             |            |  |  |
|----|---|-------------|----------------|------------------------------------|-------------|------------|--|--|
|    | Art.no  | Height (mm) | Max width (mm) | * Description                      | Plast       | ic & Sheet |  |  |
| 8. | D23-200450R   | 2000        | 3x1500         | Triple sliding door, right, with 3 | 3-step rail |            |  |  |
| 8. | D23-200450L   | 2000        | 3x1500         | Triple sliding door, left, with 3- | step rail   |            |  |  |
| 8. | D23-230450R   | 2300        | 3x1500         | Triple sliding door, right, with 3 | -step rail  | Х          |  |  |
| 8. | D23-230450L   | 2300        | 3x1500         | Triple sliding door, left, with 3- | step rail   | Х          |  |  |
| 8. | D23-250450R   | 2500        | 3x1500         | Triple sliding door, right, with 3 | -step rail  |            |  |  |
| 8. | D23-250450L   | 2500        | 3x1500         | Triple sliding door, left, with 3- | step rail   |            |  |  |



|    | Triple sliding door with 3-step rail (Premium 70x70 mm posts) |             |                 |                                     |                 |  |  |  |
|----|---|-------------|-----------------|-------------------------------------|-----------------|--|--|--|
|    | Art.no  | Height (mm) | Max width (mm)* | Description                         | Plastic & Sheet |  |  |  |
| 8. | D43-200450L   | 2000        | 3x1500          | Sliding door, left with 3-step rail |                 |  |  |  |
| 8. | D43-200450R   | 2000        | 3x1500          | Sliding door, right with 3-step ra  | il              |  |  |  |
| 8. | D43-230450L   | 2300        | 3x1500          | Sliding door, left with 3-step rail | Х               |  |  |  |
| 8. | D43-230450R   | 2300        | 3x1500          | Sliding door, right with 3-step ra  | il x            |  |  |  |
| 8. | D43-250450L   | 2500        | 3x1500          | Sliding door, left with 3-step rail |                 |  |  |  |
| 8. | D43-250450R   | 2500        | 3x1500          | Sliding door, right with 3-step ra  | il              |  |  |  |

An overlapping sliding door is the perfect solution where space is limited. The sliding door can also be used when there are two output points from one machine. Available in sizes up to 2x2900 mm.

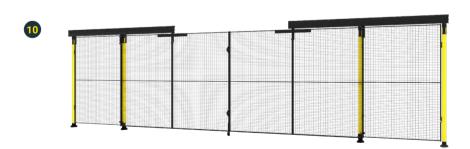


|    | Double sliding door, overlapping (Classic 50x50 mm posts) |             |                 |                                |                 |  |  |  |
|----|---|-------------|-----------------|--------------------------------|-----------------|--|--|--|
|    | Art.no  | Height (mm) | Max width (mm)* | Description                    | Plastic & Sheet |  |  |  |
| 9. | D24-200140  | 2000        | 2x1400          | Double sliding door overlapped |                 |  |  |  |
| 9. | D24-230140  | 2300        | 2x1400          | Double sliding door overlapped | Х               |  |  |  |
| 9. | D24-250140  | 2500        | 2x1400          | Double sliding door overlapped |                 |  |  |  |
| 9. | D24-200290  | 2000        | 2x2900          | Double sliding door overlapped |                 |  |  |  |
| 9. | D24/DP24-230290   | 2300        | 2x2900          | Double sliding door overlapped | Х               |  |  |  |



| Double sliding door, overlapping (Premium 70x70 mm posts) |   |   |  |   |  |  |  |
|---|---|---|--|---|--|--|--|
| Art.no  | Height (mm)   | Max width (mm)*   | Description  | Plastic & Sheet   |  |  |  |
| D44-200140  | 2000  | 2x1400  | Double sliding door overlapped   |   |  |  |  |
| D44-200290  | 2000  | 2x2900  | Double sliding door overlapped   |   |  |  |  |
| D44-230140  | 2300  | 2x1400  | Double sliding door overlapped   | Х   |  |  |  |
| D44/DP44-230290   | 2300  | 2x2900  | Double sliding door overlapped   | Х   |  |  |  |
| D44-250140  | 2500  | 2x1400  | Double sliding door overlapped   |   |  |  |  |
| D44-250290  | 2500  | 2x2900  | Double sliding door overlapped   |   |  |  |  |
|   | Art.no  D44-200140 D44-200290 D44-230140 D44/DP44-230290 D44-250140 | Art.no     Height (mm)       D44-200140     2000       D44-200290     2000       D44-230140     2300       D44/DP44-230290     2300       D44-250140     2500 | Art.no         Height (mm)         Max width (mm)*           D44-200140         2000         2x1400           D44-200290         2000         2x2900           D44-230140         2300         2x1400           D44/DP44-230290         2300         2x2900           D44-250140         2500         2x1400 | Art.no         Height (mm)         Max width (mm)*         Description           D44-200140         2000         2x1400         Double sliding door overlapped           D44-200290         2000         2x2900         Double sliding door overlapped           D44-230140         2300         2x1400         Double sliding door overlapped           D44/DP44-230290         2300         2x2900         Double sliding door overlapped           D44-250140         2500         2x1400         Double sliding door overlapped |  |  |  |

Sliding door without rail with centre lock, has an opening of almost 6 meters and no upper limitation. The door is perfect when handling large volumes carried by overhead crane or forklift. Maximum width 2x2900 mm and maximum height 2300 mm.



|     | Sliding door without rail with centre lock |                 |                 |  |  |  |
|-----|--|-----------------|-----------------|--|--|--|
|     | Art.no                                     | Max Height (mm) | Max width (mm)* | Description                                |  |  |
| 10. | D47-XXX580                                 | 2300            | 2x2900          | Sliding door without rail with centre lock |  |  |

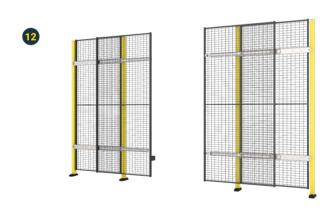
Single sliding door without upper rail. An ideal solution for an opening with no overhead obstruction and where the need for a large opening isn't necessary. Maximum widths 900 mm, 1400 mm and 2900 mm, maximum height 2300 mm.



|       | Single sliding doors without upper rail (Classic 50x50 mm posts) |             |                 |  |                 |  |  |
|-------|--|-------------|-----------------|--|-----------------|--|--|
|       | Art.no   | Height (mm) | Max width (mm)* | Description                            | Plastic & Sheet |  |  |
| 11 a. | D26/DP26-XXX090  | 2300        | 900             | Single sliding door without upper rail | х               |  |  |
| 11 a. | D26/DP26-XXX140  | 2300        | 1400            | Single sliding door without upper rail | Х               |  |  |

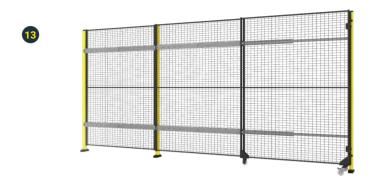
|       | Single sliding doors without upper rail (Premium 70x70 mm posts) |                 |                 |  |                 |  |  |
|-------|--|-----------------|-----------------|--|-----------------|--|--|
|       | Art.no   | Max Height (mm) | Max width (mm)* | Description                            | Plastic & Sheet |  |  |
| 11 b. | D46/DP46-XXX090  | 2300            | 900             | Single sliding door without upper rail | Х               |  |  |
| 11 b. | D46/DP46-XXX140  | 2300            | 1400            | Single sliding door without upper rail | Х               |  |  |
| 11 b. | D46-XXX290   | 2300            | 2900            | Single sliding door without upper rail |                 |  |  |

Sliding door with centre lock, without upper rail are the perfect solution where unrestricted height clearance is required and where a large opening is needed. The door is a good choice where goods must be moved using an overhead travelling crane or forklift truck. Maximum widths 1800 mm and 2800 mm, maximum height 2300 mm.



|     | Sliding door without upper rail with centre lock |             |           |            |  |                 |  |
|-----|--|-------------|-----------|------------|--|-----------------|--|
|     | Art.no   | Height (mm) | Max widtl | h (mm)*    | Description                            | Plastic & Sheet |  |
| 12. | D27/DP27-XXX18                                   | 30 2300     | 1800      | Sliding do | or without upper rail with centre lock | х               |  |
| 12. | D27/DP27-XXX28                                   | 30 2300     | 2800      | Sliding do | or without upper rail with centre lock | Х               |  |

Single sliding door 2-step, without upper rail. Single sliding doors without rails are the ideal solution where objects higher than the rail need to pass through the opening. The door is a good choice when there is need for a wide opening. Maximum widths 1900 mm and 2900 mm, maximum height 2500 mm.



|     | Single sliding dod | or without upper | rail            |  |                 |
|-----|--------------------|------------------|-----------------|--|-----------------|
|     | Art.no             | Height (mm)      | Max width (mm)* | Description                            | Plastic & Sheet |
| 13. | D28-140190L        | 1400             | 1900            | Single sliding door without upper rail | eft             |
| 13. | D28-140190R        | 1400             | 1900            | Single sliding door without upper rail | right           |
| 13. | D28-140290L        | 1400             | 2900            | Single sliding door without upper rail | eft             |
| 13. | D28-140290R        | 1400             | 2900            | Single sliding door without upper rail | right           |
| 13. | D28-200190L        | 2000             | 1900            | Sliding door without upper rail left   |                 |
| 13. | D28-200190R        | 2000             | 1900            | Sliding door without upper rail right  |                 |
| 13. | D28-200290L        | 2000             | 2900            | Sliding door without upper rail left   |                 |
| 13. | D28-200290R        | 2000             | 2900            | Sliding door without upper rail right  |                 |
| 13. | D28/DP28-230190L   | 2300             | 1900            | Sliding door without upper rail left   | Х               |
| 13. | D28/DP28-230190R   | 2300             | 1900            | Sliding door without upper rail right  | Х               |
| 13. | D28/DP28-230290L   | 2300             | 2900            | Sliding door without upper rail left   | Х               |
| 13. | D28/DP28-230290R   | 2300             | 2900            | Sliding door without upper rail right  | Х               |
| 13. | D28-250190L        | 2500             | 1900            | Sliding door without upper rail left   |                 |
| 13. | D28-250190R        | 2500             | 1900            | Sliding door without upper rail right  |                 |
| 13. | D28-250290L        | 2500             | 2900            | Sliding door without upper rail left   |                 |
| 3.  | D28-250290R        | 2500             | 2900            | Sliding door without upper rail right  |                 |

Sliding door 2-step without upper rail, centre lock. An ideal solution where unrestricted height clearance is required and where a large opening is needed. Maximum widths 3800 mm, 4800 and 5800 mm, maximum height 2500 mm.

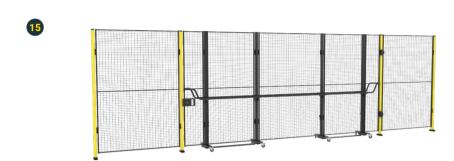




|     | Sliding door 2-step without upper rail, centre lock |                 |                 |                                   |                   |         |
|-----|---|-----------------|-----------------|-----------------------------------|-------------------|---------|
|     | Art.no  | Max Height (mm) | Max width (mm)* | Description                       | Plastic           | & Sheet |
| 14. | D29/DP29-XXX380                                     | 2300            | 2x1900          | Sliding door 2-step without upper | rail, centre lock | Х       |
| 14. | D29/DP29-XXX480                                     | 2300            | 1x2900+1x1900   | Sliding door 2-step without upper | rail, centre lock | Х       |
| 14. | D29/DP29-XXX580                                     | 2300            | 2x2900          | Sliding door 2-step without upper | rail, centre lock | Х       |

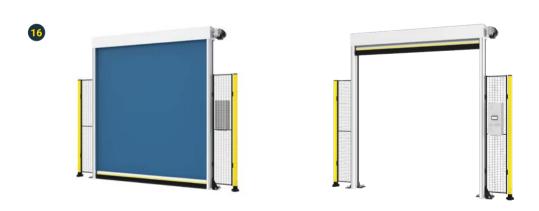
# X-Guard® - Special doors

The X-Guard detachable hinge door is a mobile hinge door on wheels and meant to be operated the same way as a normal hinge door. This door is a smart option when space around the door is limited. If desired, just detach it and roll it aside. The rigid handlebar makes the door stable and easy to handle. Each support wheel has a parking brake.



|     | Detachable hinge door |  |                       |  |  |  |  |
|-----|-----------------------|--|-----------------------|--|--|--|--|
|     | Art.no                | Width of opening                               | Description           |  |  |  |  |
| 15. | D13-XXX249            | Detachable door, width of opening 1990-2490 mm | Detachable hinge door |  |  |  |  |
| 15. | D13-XXX565            | Detachable door, width of opening 3400-5650 mm | Detachable hinge door |  |  |  |  |

The high speed roll doors design is unique. The door roll is located on the back of the door. Moving parts are thus placed inside the cell, out of reach for the operator. Further, this deisgn allows a forklift to get closer and deeper into the cell e.g. at tool exchange. The high speed roll door has long durability and low operating costs. In other words, it is a long-term and cost effective investment.



|     | High speed roll door            |             |          |   |
|-----|---------------------------------|-------------|----------|---|
|     | Art.no                          | Height (mm) | Max widt | dth (mm)* Description   |
|     |                                 |             |          |   |
| 16. | S-0145-230150L / S-0145-230150R | 2300        | 1500     | High speed roll door (Rollback, motor L /motor R), CH=2300 mm, CW=1500 mm |
| 16. | S-0145-230200L / S-0145-230200R | 2300        | 2000     | High speed roll door (Rollback, motor L /motor R), CH=2300 mm, CW=2000 mm |
| 16. | S-0145-230250L / S-0145-230250R | 2300        | 2500     | High speed roll door (Rollback, motor L/motor R), CH=2300 mm, CW=2500 mm  |
| 16. | S-0145-250150L / S-0145-250150R | 2500        | 1500     | High speed roll door (Rollback, motor L/motor R), CH=2500 mm, CW=1500 mm  |
| 16. | S-0145-250200L / S-0145-250200R | 2500        | 2000     | High speed roll door (Rollback, motor L/motor R), CH=2500 mm, CW=2000 mm  |
| 16. | S-0145-250250L / S-0145-250250R | 2500        | 2500     | High speed roll door (Rollback, motor L/motor R), CH=2500 mm, CW=2500 mm  |



# X-Guard® - Locks

Axelent's X-Guard has flexible locking systems to suit all doors and switches/switch fittings in the machine guard series, from simple to more high tech solutions. X-Guard is so versatile in fact that you can swap a fixed panel for a door easily without having to move any posts. Combine a door pack with a locking system and create a door and locking solution to suit your needs.







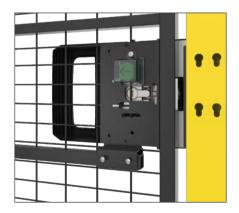
X-It cylinder lock is patented and available in several versions. Thanks to the unique design, no additional lock housing is required; just add a standard profile cylinder such as Euro. The lock is robust with a metal cover to withstand tough conditions and is tested and approved to EN 12209:2016.

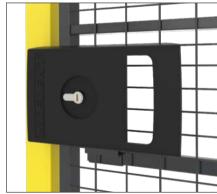
The Lock is primarily designed for our modular mesh panel systems for machine guarding, industry and warehouses. The lock can also be used for similar third-party products/systems on the market. Assembly is easy; it is available for both hinge- and sliding doors in right and left versions.

| XIT-R14-401  X-It "Slam Shut", escape release function, sliding door center lock, RH  XIT-L09-101  X-It Electric, esc.rel.function, hinge door, LH  XIT-L09-301  X-It Electric, esc.rel.function, sliding door, LH  XIT-L09-401  X-It Electric, esc.rel.function, sliding door center lock, LH  XIT-R09-101  X-It Electric, esc.rel.function, hinge door, RH  XIT-R09-301  X-It Electric, esc.rel.function, sliding door, RH  XIT-R09-401  X-It Electric, esc.rel.function, sliding door center lock, RH |  |
|--|--|

#### X-It Electric

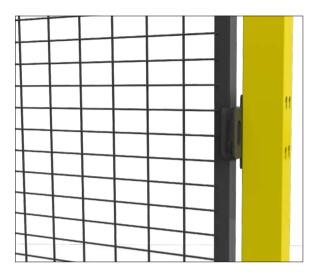
X-It Electric can be used in various places within warehouse and production environments, preferable in relation to already installed access systems. In case of power failure the lock has an escape release function on the inside.





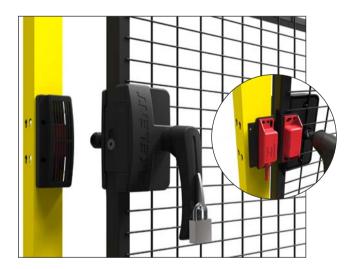
- Light to indicate open or locked
- Cylinder lock with mechanical key that overrides the electronic function
- Compatible with most electric access lock systems such as RFID, card readers, Pin code units etc.
- Storage temperature: -25 to +70 °C according to IEC 60068-2-14
- Operating temperature: -10 to +70 °C according to IEC 60068-2-14
- · Housing IP rating: IP41
- Supply voltage: 12-24 VDC +/-10 % (regulated)

# X-Guard® - Locks



#### **Padlock brackets**

Padlock brackets are our very simplest lock system. A standard hinge lock prevents unauthorized access.





#### **Snap lock**

The door closes with a simple push and is kept closed by the built-in catch.

#### Hitch lock

This lock is an alternative to our X-lock and has an integrated mounting for non-contact switches. The lock has an adjustable hitch for eliminating any internal play. The handle is spring-loaded to remove the ability of the door to automatically fully close. To fully shut the door requires deliberate operation of the handle eliminating accidental closure. The external handle has an integrated padlock-loop which makes it possible to secure the door to prevent accidental closure when servicing or machine setting for example.

Note, padlock and/or switch are not included.



#### **Euchner MGB**

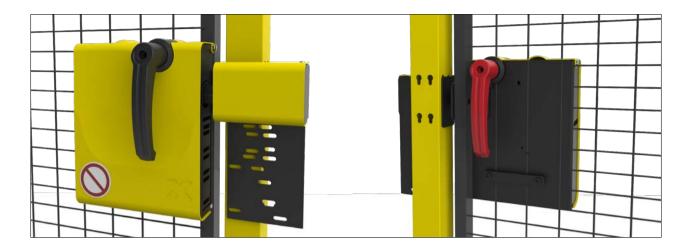
The MGB (Multifunctional Gate Box) is a unique interlock- and guard locking system for the protection of safety doors on machines and systems.

Four LEDs indicate information about the lock status

Four LEDs indicate information about the lock status.

The lock has an intelligent plunge whose

position is detected by an RFID transponder which has a unique code. This prevents tampering while allowing the MGB meets PL e EN ISO 13849-1 / SIL 3 according to EN 62061.



#### X-Lock

X-Lock is a versatile door lock system that suits all our accident prevention series. Using X-Lock and a door kit, you can transform any accident prevention panel into a door with a secure locking function.

X-Lock has a mechanical bolt that holds hinged and sliding doors closed. The lock is designed so that it requires conscious action to open and close the door from the outside. From the inside, X-Lock can not be closed. When locked, X-Lock can be opened from inside, unless a switch with guard locking is installed additionally.

| Locks    |   |
|----------|---|
| Art.no   | Description   |
|          |   |
| L10-00-0 | Padlock brackets for hinge door, right/left                     |
| L20-00-0 | Padlock brackets for sliding door, right/left                   |
| L22-00-0 | Padlock brackets for sliding door with centre lock              |
| L10-05-0 | Snap lock for hinge door, right/left                            |
| L20-05-0 | Snap lock for sliding door, right/left                          |
| L22-05-0 | Snap lock for sliding door with centre lock                     |
| L10-05-2 | Hitch lock for hinge doors right/left                           |
| L20-05-2 | Hitch lock for sliding doors right/left                         |
| L10-05-3 | Cylinder lock, option for the handle to the hitch lock (1 each) |
| L66-20-L | X-Lock for all doors, left                                      |
| L66-20-R | X-Lock for all doors, right                                     |
| L66-21-L | X-Lock for all doors, left,for switch B-614                     |
| L66-21-R | X-Lock for all doors, right, for switch B-614                   |
| 10-9540  | Eurocylinder, DIN 18254, class 3                                |
| 10-9545  | Eurocylinder, DIN 18254, in system                              |
| 10-9550  | Eurocylinder (half), DIN V 18254                                |
| 10-9551  | Eurocylinder (half), DIN V 18254, in system                     |
|          |   |

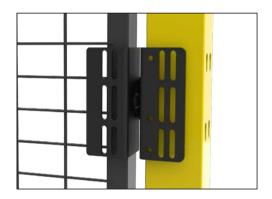
#### **Switch/Emergency Stop**

Axelent collaborates with several market leaders within the sector, including Allen-Bradley, GuardMaster, Euchner, Fortress, ABB Jokab, Omron, Pilz, Pizzato, Schmersal, Sick, Siemens and Telemecanique. This gives us a wide range to offer our customers for the safest and most optimum solution possible.

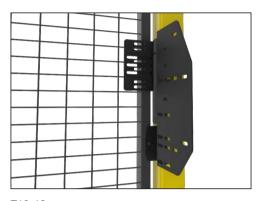


T10-01

Complete fittings for switch and key, hinge door, right/left



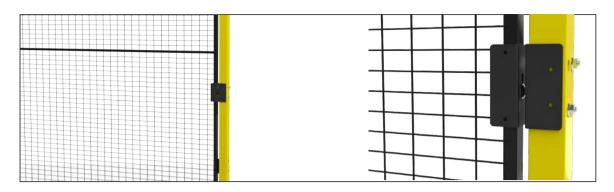
T10-13
Switch fitting hinge door, universal, non-contact



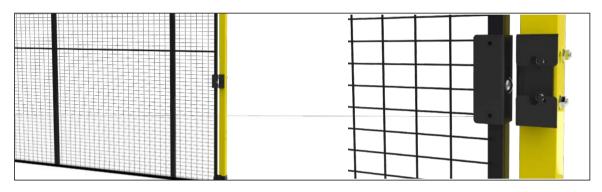
T10-12

Complete fittings for switch and key, hinge doors, right/left, Euchner

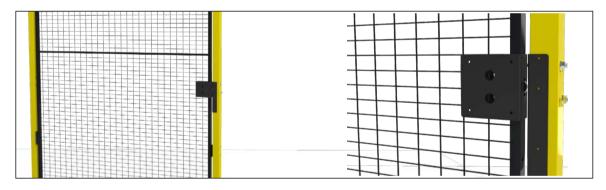
| Safety switch fittin | ngs  |  |
|----------------------|--|--|
| Art.no               | Description  |  |
|                      |  |  |
| T10-01               | Complete fittings for switch and key, hinge door, right/left           |  |
| T10-02               | Complete fittings for switch and key, sliding door, right/left         |  |
| T10-12               | Complete fittings for switch and key, hinge doors, right/left, Euchner |  |
| T10-13               | Switch fitting hinge door, universal, non-contact                      |  |
| T10-20               | 20 Complete fittings for switch and key, sliding doors, right/left     |  |
| T10-23               | Switch fitting single sliding door, universal, non-contact             |  |
| T10-24               | Switch fitting meeting sliding door, universal, non-contact            |  |
| T10-30               | Fittings, Euchner MGB hingedoor/slidingdoor, right/left                |  |
| T10-31               | Extra fittings for Euchner MGB with panic handle RAL 9011, X-Guard     |  |
| T10-32               | Fittings, Schmersal AZM200 hingedoor/slidingdoor, right/left           |  |
| T10-33               | Fittings, Euchner MGB Profinet Box hingedoor, right/left               |  |
| T10-34               | Fittings, Euchner MGB Profinet Box slidingdoor, right/left             |  |
| T10-35               | Extra MGB bracket, sliding door with centre locking, X-Guard           |  |
| T10-36               | Fittings (kit), Euchner MGB2 hingedoor, right/left                     |  |
| T10-37               | Fittings (kit), Euchner MGB2 single sliding door, right/left           |  |



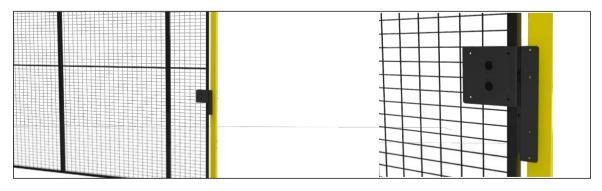
**T10-30** Euchner MGB hinge door, right/left



**T10-30** Fittings, Euchner MGB slidingdoor, right/left



**T10-32** Fittings, Schmersal AZM200 hingedoor, right/left



**T10-32** Fittings, Schmersal AZM200 slidingdoor, right/left



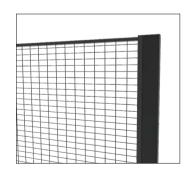


#### X3-242-7 / X3-244-7 Tool Panel

X-Guard's Tool Panel enables you to keep all your tools and accessories needed to manage your machinery close at hand. The panel comes in heights of 1900 and 2200 mm and is 700 mm in width. The standard colour is RAL 9011. A host of accessories are available for hanging up tools.

More info and product sheets are available on our web page.

# X-Guard® - Accessories



Infill sheet metal (Art No. see page 31) Adjustable infill (Art No. see page An infill sheet metal functions as a filler when a guard needs a certain width. It comes in all heights and in 40 and 70 mm widths. Standard colour is RAL 9011 but customised colours are available upon request.



This adjustable infill piece covers gaps between 40 and 145 mm, offering greater flexibility. The 100 mm interval between our panels means less cutting of panels when an 'odd' gap needs to be filled. A stock item in RAL 9011, but other colours are available on request.



Cover strip (Art No. see page 31) Strip to cover the gap between the post and panel. A Graphit black cover strip (RAL 9011) is included with sheet metal and plastic panels. It comes in heights of 750, 1900, 2200 and 2400 mm.



Kick plate (Art No. see page 32) The Kick plate is available in lengths of 1000 mm and 1500 mm, for other lengths the plate has to be cut into the proper length on site during assembly. This Kick plate fits: X-Rail, X-Guard (Lite, Classic, Premium) and X-Store 2.0



T01-23 / T01-51 Support wheel
An extra support wheel would not go amiss on some types of door solutions. Our range now includes a new smart support wheel that fits both hinged and sliding doors.

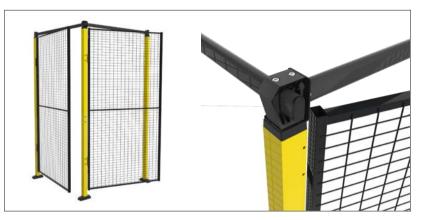


T01-27 Door closer

Automatic door closer for X-0

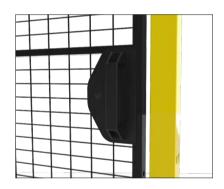
Automatic door closer for X-Guard's hinged door, including fittings. The fittings are reversible and suit both 50x50 and 70x70 mm posts.

NB There is some risk in using automatic door closers in combination with an interlock without manual reset. Door closers must therefore be evaluated in each individual case.

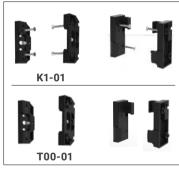


T01-05 Top frame fittings for doors in corners

A top frame fitting provides a more stable door construction for your machine guard. The width of the fitting is set during assembly. Top frame fittings are used for positioning two doors in a corner.



**T01-22 Bail handle**Bail handle c/c 150 mm, set of 2 including mounting plates.



#### Quick fittings (Art No. see page 31)

A selection of brackets are available for X-Guard panels. These allow simple and quick attachment of panels to posts. The quick fittings has a top and a bottom attachment. The top fitting is a simple click-on fitting that can be fitted to three sides of the post. The click-on function means simple and above all quick fitting. Only one fitter is required to fit mesh panels to X-Guard machine guards. The lower fitting acts as a guide to steer the panel into the correct position. The panel is simply clicked into place in the top bracket, when it is in place. A quick fitting is also available for free positioning of the X-Guard post, see picture to the left (K1-01).



#### Cutting package (Art No. see page 31)

Panels may need to be cut to precise heights and widths in some environments. The X-Guard cutting pack will help you cut panels and is available in both vertical and horizontal versions.

The vertical comes in four heights; 750, 1300, 1900, 2200 and 2400 mm. The horizontal only comes in 1500 mm but is compatible with all widths and is available with or without attachments to allow unrestricted positioning. The standard cutting pack colour is Graphite black (RAL 9011) but customised colours are available upon request.

A rubber strip can be fitted to provide a soft and neat edge where mesh panels have been cut.

# X-Guard® - Accessories



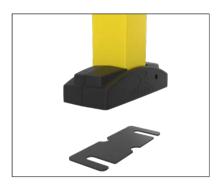
T01-17 / T01-13 Rubber plugs

Black rubber plugs can be used to cover unused holes in the post.



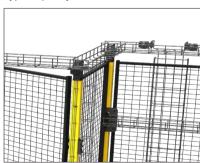
T01-08 Magnet

For use with 'Snap' close door locks.



T01-04 (50x50) / T01-25 (70x70) Shims set

Used for adjusting the height of X-Guard posts where the floor is uneven. There are two different keys depending on the type of post you choose.



X-Tray for X-Guard

Cable tray which fits X-Guard machine guarding perfectly. See page 32-41.



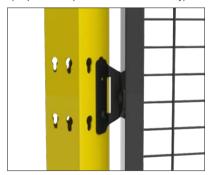
T01-06 Tube nut M8 (10-pack)

Tube nut M8 – This nut can be used when you have cut a panel and need to drill a new hole.



T00-00-IN X-Key

X-Key is an unique tool for quick and easy panel release from inside the hazard zone. X-Guard panels can only be dismantled using an X-Key. (All panel and post orders include a key).



T01-01 0-180° Fitting

Fitting with an angle of up to 180°. This fitting is used where the machine guard needs to be set up at angles other than 90°.



T01-07 X-Cup

Smart mug holder to fix to a post. (for 50x50 mm post only)



T01-28 Special nut (10-pack)

Nut plate set, for the top plug on the 50x50 mm post.



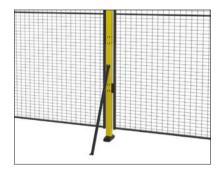
T00-00-EX X-Key

A unique but optional tool for quick external panel release. X-Guard panels can only be dismantled using an X-Key.



T01-16 Foot cover

This foot cover consists of two pieces that are simply attached to each other. A foot cover is always supplied with a 50x50 post (not the 70x70).

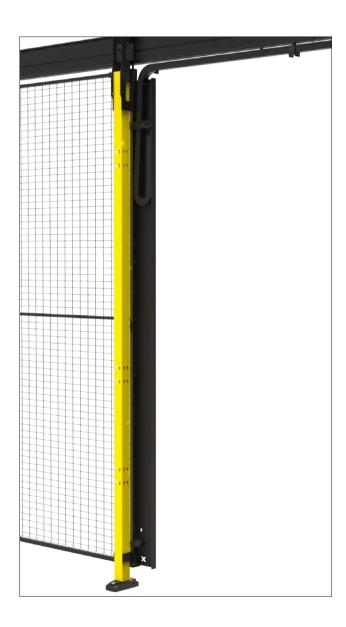


T01-09 Stabilization for contractor

Stabilization for contractor, RAL 9011.

| Accessories                |  |
|----------------------------|--|
| Art.no                     | Description  |
|                            |  |
| T00-00                     | X-Key  |
| T00-01                     | Fittings for X-Guard, 1 pack   |
| T00-02                     | Fittings for X-Guard, 1 pack, for 4 mm plastic panels  |
| T00-03<br>T00-04           | Fittings for X-Guard, 1 pack, for 6 mm plastic panels  Fittings for X-Guard, 1 pack, for horizontal panels                         |
| T00-05                     | Fittings for X-Guard, 1 pack, for horizontal panels different heights  |
| T01-01                     | Fittings for creating corners up to 180°   |
| T01-02                     | High impact protection for 50x50 mm post, 1 set/panel  |
| T01-03                     | Special nut, for plastic cap on post, X-Guard, 10 pack   |
| T01-04                     | Shim set, 2 x 2 mm + 1 x 6 mm, for post height adjustment X-Guard  |
| T01-05                     | Special bracket when mounting 2 hinge doors in a corner  |
| T01-06<br>T01-07           | Tube nut M8, 10 pack  X-Cup holder   |
| T01-07                     | Magnet   |
| T01-09                     | Stabilization for contractor, Ral 9011   |
| T01-11                     | Bolt upper panel bracket (zinc), not blocked, 10 pack  |
| T01-13                     | Rubber plug for "keyhole" on X-Guard post (1set=36pcs)   |
| T01-16                     | Foot cover for 50x50 post 5 kit (1 kit=2pcs)   |
| T01-17                     | Top plug for 50x50 post (1 kit=5 pcs)  |
| T01-18                     | Bracket for optional upper bar in corner, post 70x70mm   |
| T01-19<br>T01-21           | Bracket for optional upper bar, 1kit/post, post 70x70mm  Edge strip u-shaped, Graphite black rubber 30x26x15mm, 50m                |
| T01-21                     | Bail handle c/c 150mm, set of 2 incl. mounting plates  |
| T01-23                     | Support wheel incl. mounting plate. For floor gap 100mm, X-Guard   |
| T01-24                     | X-Guard transp.securing kit (=4pcs) pre-assem. door, Classic+50x50mm   |
| T01-25                     | Shim set for 70x70, 2x2mm + 2x4mm, for post adjustment X-Guard   |
| T01-26                     | Bail handle c/c 122mm incl. screws for X-lt, inside  |
| T01-27                     | Automatic door closer, X-Guard hinge door  |
| T01-28                     | Special nut, ver.2, (10 pack) post 50x50mm, X-Guard  |
| T01-29<br>T01-30           | High impact protection for 70x70 post, 1set/panel, X-Guard   |
| T02-3-07504                | Base for portable panel  Infill sheet metal H= 0750 W= 40 mm, RAL 9011   |
| T02-3-07507                | Infill sheet metal H= 0750 W= 70 mm, RAL 9011  |
| T02-3-13004                | Infill sheet metal H= 1300 W= 40 mm, RAL 9011  |
| T02-3-13007                | Infill sheet metal H= 1300 W= 70 mm, RAL 9011  |
| T02-3-19004                | Infill sheet metal H= 1900 W= 40 mm, RAL 9011  |
| T02-3-19007                | Infill sheet metal H= 1900 W= 70 mm, RAL 9011  |
| T02-3-22004<br>T02-3-22007 | Infill sheet metal H= 2200 W= 40 mm, RAL 9011  Infill sheet metal H= 2200 W= 70 mm, RAL 9011                                       |
| T02-3-24004                | Infill sheet metal H= 2400 W= 40 mm, RAL 9011  |
| T02-3-24007                | Infill sheet metal H= 2400 W= 70 mm, RAL 9011  |
| T03-3-190                  | Cover strip, gap panel/post H= 1900 mm, RAL 9011   |
| T03-3-220                  | Cover strip, gap panel/post H= 2200 mm, RAL 9011   |
| T03-3-240                  | Cover strip, gap panel/post H= 2400 mm, RAL 9011   |
| T04-3-075                  | Cover strip with clips H= 0750 mm, RAL 9011, 1 set/panel   |
| T04-3-190<br>T04-3-220     | Cover strip with clips H= 1900 mm, RAL 9011, 1 set/panel   |
| T04-3-220<br>T04-3-240     | Cover strip with clips H= 2200 mm, RAL 9011, 1 set/panel  Cover strip with clips H= 2400 mm, RAL 9011, 1 set/panel                 |
| T05-3-13015                | Infill, adjustable 40-145 mm. H =1300 mm complete, Ral 9011  |
| T05-3-19015                | Infill, adjustable 40-145 mm. H:1900 mm complete, Ral 9011   |
| T05-3-22015                | Infill, adjustable 40-145 mm. H: 2200 mm complete, Ral 9011  |
| T05-3-24015                | Infill, adjustable 40-145 mm. H: 2400 mm complete, Ral 9011  |
| T08-3-100                  | Kit, Kick plate with end brackets L=1000mm   |
| T08-3-150                  | Kit, Kick plate with end brackets L=1500mm   |
| T08-3-100RE                | Kit, Kick plate with end brackets L=1000mm, reinforced   |
| T08-3-150RE<br>B00-057     | Kit, Kick plate with end brackets L=1500mm, reinforced  X-Guard Sample kit   |
| T20-200-001                | X-Guard Sample kit  Cable chain kit 8mm, sliding door H=2X00mm, 0-1000mm   |
| T20-200-002                | Cable chain kit 8mm, sliding door H=2X00mm, D3U1 1001-1400mm   |
| T20-200-003                | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 1001-1500mm   |
| T20-200-004                | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 1401-2200mm   |
| T20-200-005                | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 2001-3100mm   |
| T20-200-006                | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 3101-3600mm   |
| T20-200-007                | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 2x1001-2x1500   |
| T20-200-008<br>T20-200-009 | Cable chain kit 8mm, sliding door H=2X00mm, alu rail 3x1001-3x1500mm  Cable chain kit 8mm, sliding door H=2000mm, movable alu rail |
| 1 20 200 007               | Oddie Grant Kit Offin, Shaing Goot 11-2000fini, Hiovable alu fali  |

| Accessories |  |
|-------------|--|
| Art.no      | Description  |
| K1-01       | Kit for optional placing of quick fittings, 1 pack                       |
| K1-03       | Kit for optional placing of quick fittings upper bracket X-Guard, 1 pack |
| KVC-3-075   | Cutting package vertical, H= 0750 mm, RAL 9011                           |
| KVC-3-130   | Cutting package vertical, H= 1300 mm, RAL 9011                           |
| KVC-3-190   | Cutting package vertical, H= 1900 mm, RAL 9011                           |
| KVC-3-220   | Cutting package vertical, H= 2200 mm, RAL 9011                           |
| KVC-3-240   | Cutting package vertical, H= 2400 mm, RAL 9011                           |
| KH-3-150    | Cutting package horizontal, incl. fittings K1-01, W= 1500 mm, RAL 9011   |
| KH-3-150B   | Cutting package horizontal exkl. fittings K1-01, W= 1500 mm, RAL 9011    |
| 10-9841     | Edge strip u-shaped, Graphite black rubber, 2 m                          |
| 05-9501     | Plastic plug 20x30 mm  |
| X3-242-7    | Toolpanel X-Guard H=1900 W=700mm, RAL9011                                |
| X3-244-7    | Toolpanel X-Guard H=2200 W=700mm, RAL9011                                |



#### Cable chain

Smart and elegant solution for sliding doors when power is required on the movable door itself.

For example to a door interlock switch. Especially designed for double sliding doors locked in the centre, with or without an overhead rail, where a fixed post to attach a cabling is missing. A number of kits have been created depending on the system height, type of door and requested size of the opening. See list of all combinations and article no.



Strong, adaptable and easy to fit. Our cable trays in the combination with X-Guard gives near endless possibilities.

X-Tray cable trays is perfectly matched with our X-Guard machine guard. Combined they provide the optimal machine guarding solution. It can easily be drawn in our planning tool SnapperWorks when placing your order. X-Tray supports insulated electrical cables for power distribution, control and communication. Our cable trays enable elegant solutions with no special tools required. Just as with X-Guard, only a few brackets and tools are needed.

## The perfect fit

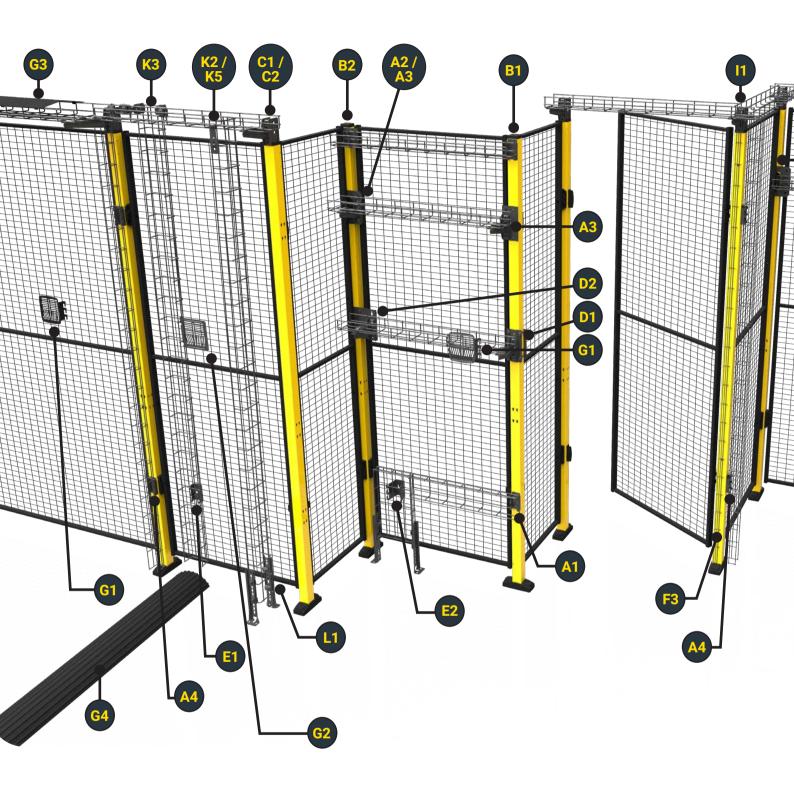
Axelent's X-Tray is the ideal cable tray for X-Guard machine guard because they are perfectly matched for smooth installation to give a professional touch.

#### 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.



## X-Tray complies with the highest demands on cable routing systems in

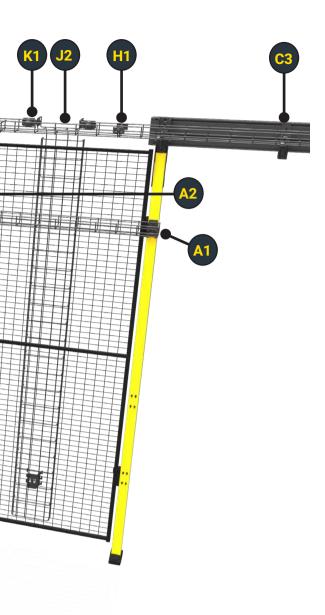












# The possibilities

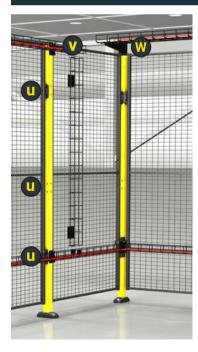
All cable trays and fittings are graphite black galvanized to match X-Guard's graphite black panels. The picture shows the various mounting possibilities and the letters guide you to items and installation instructions further on in the manual.

Item Numbers, see next pages »

## **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 web page

## The three most common installations



### Mix all three for the best fit

### u Keyhole mounting

For fast installations in the post keyholes. Trays 60-120 mm.

### v Top mounting

Quick and discrete installation that follows X-Guard's top edge. Trays 60-120 mm.

#### w 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.

## accordance with IEC 61537





### Items • X-Tray for X-Guard • Graphite black

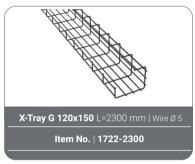




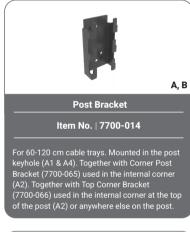






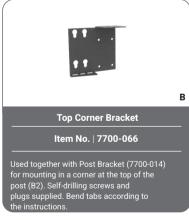




















D

E

I, J



#### Adjustable Corner Post Fitting

Item No. | 7700-072

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



#### Cantilever Holder, aluminium rail

С

F

I. K. L

Item No. | 7700-037

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



#### Post Cantilever Holder

Item No. | 7700-083

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



#### 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.



#### 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

Α

X1 Fitting

Item No. | 2701

The X1 Fitting is used when making a corner (I1) or a Traffic 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).



#### X2 Fitting

Item No. | 2702

X2 Fitting is used on a corner with a large radius (13) or on a drop from a horizontal to a vertical tray (J1).



#### 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).



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 • Graphite black

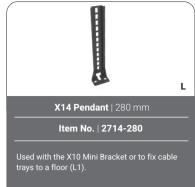


#### X10 Mini Bracket

Item No. | 2710-2

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







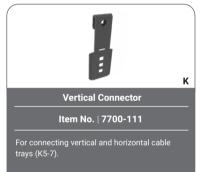
For equipotential bonding/functional bonding.







and 420 cm.
The cap protects the cables from welding sparks and falling items (G3).









В

#### 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.



Strong bolt cutter with an angled head for easy access.





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.

Item No. | 2577-1 Battery Bosch Li-Ion 18V/20Ah Item No. | 2577-2 Spare Blade kit

| Art. No      | Description  |  |  |  |  |  |
|--------------|--|--|--|--|--|--|
| 0701-2300    | X-Tray 60x60 L=2300 mm / Graphite black Zinc   |  |  |  |  |  |
| 0711-2300    | X-Tray 120x60 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 0721-2300    | X-Tray 220x60 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 0731-2300    | X-Tray 320x60 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 0741-2300    | X-Tray 420x60 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 1722-2300    | X-Tray G120x150 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 1752-2300    | X-Tray Mini 30x22 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 1752-1200    | X-Tray Mini 30x22 L=2300 mm / Graphite black Zinc  |  |  |  |  |  |
| 2568         | X-1ray Mini 30x22 L=1200 mm / Graphite black Zinc  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 / Graphite black Zinc   |  |  |  |  |  |
| 2702         | X2 Fitting / Graphite black Zinc   |  |  |  |  |  |
| 2702         | X3 Angled Fitting / Graphite black Zinc  X3 Angled Fitting / Graphite black Zinc           |  |  |  |  |  |
|              |  |  |  |  |  |  |
| 2704         | X4 Fitting / Graphite black Zinc   |  |  |  |  |  |
| 2705         | X5 Joining Fitting (20 pcs) incl. bolt & nut / Graphite black Zinc                         |  |  |  |  |  |
| 2761         | X61 Bolt M8x27 (40 pcs) / Graphite black Zinc  |  |  |  |  |  |
| 2762         | X62 Flange Nut M8 (40 pcs) / Graphite black Zinc   |  |  |  |  |  |
| 2710-1       | X10 Bracket / Graphite black Zinc  |  |  |  |  |  |
| 2710-2       | X10 Mini Bracket / Graphite black Zinc   |  |  |  |  |  |
| 2711-240     | X11 Pendant Premium 240 / Graphite black Zinc  |  |  |  |  |  |
| 2711-480     | X11 Pendant Premium 480 / Graphite black Zinc  |  |  |  |  |  |
| 2714-280     | X14 Pendant 280 / Graphite black Zinc  |  |  |  |  |  |
| 2715-120     | X15 Cantilever 60 -120 / Graphite black Zinc   |  |  |  |  |  |
| 2715-220     | X15 Cantilever 220 / Graphite black Zinc   |  |  |  |  |  |
| 2715-320     | X15 Cantilever 320 / Graphite black Zinc   |  |  |  |  |  |
| 2715-420     | X15 Cantilever 420 / Graphite black Zinc   |  |  |  |  |  |
| 2763-1       | X63 Accessories Holder / Graphite black Zinc   |  |  |  |  |  |
| 2764 45-2300 | L-Divider 45x2300 Black Zinc   |  |  |  |  |  |
| 2765-60      | X65 X-Tray Cover 60x1000 mm / RAL 9011 Graphite black                                      |  |  |  |  |  |
| 2765-120     | X65 X-Tray Cover 120x1000 mm / RAL 9011 Graphite black                                     |  |  |  |  |  |
| 2765-220     | X65 X-Tray Cover 220x1000 mm / RAL 9011 Graphite black                                     |  |  |  |  |  |
| 2765-320     | X65 X-Tray Cover 320x1000 mm / RAL 9011 Graphite black                                     |  |  |  |  |  |
| 2765-420     | X65 X-Tray Cover 420x1000 mm / RAL 9011 Graphite black                                     |  |  |  |  |  |
| 2780-1       | X80 Side Accessories Holder Graphite black Zinc  |  |  |  |  |  |
| 279.28.720   | Cable Bridge, small Zink yellow  |  |  |  |  |  |
| 279.21.784   | Cable Bridge, small Graphite black   |  |  |  |  |  |
| 7100-070     | Self Drilling Screw, washer head 4.2x19 / Zinc Plated                                      |  |  |  |  |  |
| 7500-191     | Knurled Locking Plug   |  |  |  |  |  |
| 7700-014     | Post Bracket X-Guard / Graphite black Zinc   |  |  |  |  |  |
| 7700-015     | Post Bracket Top / Graphite black Zinc   |  |  |  |  |  |
| 7700-065 *   | Corner Bracket X-Guard / Graphite black Zinc   |  |  |  |  |  |
| 7700-066 *   | Top Corner Bracket X-Guard / Graphite black Zinc   |  |  |  |  |  |
| 7700-032     | Cantilever Holder 50x50 X-Guard / Graphite black Zinc                                      |  |  |  |  |  |
| 7700-032-2   | Cantilever Holder High 50x50 X-Guard / Graphite black Zinc                                 |  |  |  |  |  |
| 7700-037     | Cantilever Holder Aluminum Rail X-Guard / Graphite black Zinc                              |  |  |  |  |  |
| 7700-060     | Adjustable Post Fitting X-Guard / Graphite black Zinc                                      |  |  |  |  |  |
| 7700-072     | Adjustable Corner Post Fitting X-Guard / Graphite black Zinc                               |  |  |  |  |  |
| 7700-083     | Post Cantilever Holder X-Guard / Graphite black Zinc                                       |  |  |  |  |  |
| 7700-084     | Mesh Panel Mini Bracket X-Guard / Graphite black Zinc                                      |  |  |  |  |  |
| 7700-090     | Mesh Panel Bracket X-Guard / Graphite black Zinc   |  |  |  |  |  |
| 7700-111     | Vertical Connector Graphite black Zinc   |  |  |  |  |  |
| 7700-188     | Cantilever Holder 70x70 X-Guard / Graphite black Zinc                                      |  |  |  |  |  |
| 7700-188-2   | Cantilever Holder High 70x70 X-Guard / Graphite black Zinc                                 |  |  |  |  |  |
| 9307         | X-Tray Demokit X-Guard / Graphite black Zinc   |  |  |  |  |  |
|              |  |  |  |  |  |  |

<sup>\*</sup> Only Corner Bracket, not Post Bracket. (Post Bracket 7700-014 purchased separately, previously packed together.)
For installation instructions - please check our X-Tray for X-Guard brochure

#### **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 Graphite black galvanized with a few weeks delivery date. Special colours are available - even Zinc Plated if your machine is lighter than Graphite black.

# SnapperWorks CAD program 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**

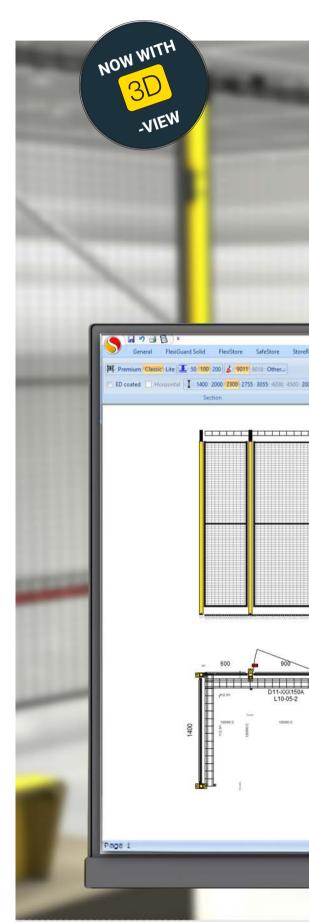
- · Cost-effective
- · Quick fittings designed for machine guards
- Graphite black galvanized for a perfect match with X-Guard (other colours available)
- · Several cable routing options
- · All bundled and delivered on the same pallet
- Timesaving quick start-up of machine and production thanks to same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

#### **Benefits of SnapperWorks**

- Custom CAD 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





### 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 brackets or other methods.

#### **Fixing distance**

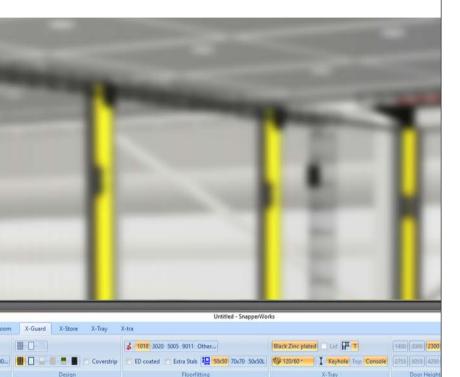


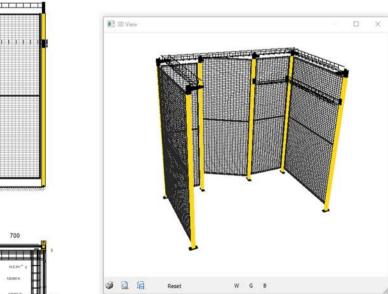
A greater distance between the fixings means less work and lower costs. We recommend a bracket distance of 2.25 metres or, together with X-Guard, adapted to the post distances.

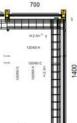
#### **Equipotential bonding**



Tested for equipotential bonding.









### **Powder coating**

All products come in standard colours but customised colours are available upon request. Whether you want to use your company's signature colours or match the colour of the machine guard with the rest of your machinery, we will find a solution.

You probably associate us with black and yellow, but we feel that we are partly green as well. We pride ourselves on our environmental efforts. All our products have an eco-friendly powder coating. That is to say free from solvents.

### **Powder coating**

Axelent's own product range is powder-coated and free from solvents, thus protecting both the indoor and outdoor environments.

Pre-treated with both iron phosphate and alkaline degreaser. Our ALESTA EP powder coatings can be used at operating temperatures from -20 to +60°C. They contain an epoxy-polyester bonding agent and, due to this epoxy content, can only be used for indoor applications.

#### Corrosion class

· C2 (indoors)

The film thickness of the coating is  $60-150 \text{ m}\mu$ .



### **ED** paint for tough environments

Sometimes machine guards require an extra durable surface to withstand the toughest environments. An ED paint will make the surface resistant to moisture and able to withstand environments with a lot of solvents.

The paint is an electrolytic dip coating used as the final coating in an anti-corrosion treatment. Examples of environments where this paint can be used are food processing, mining, unheated rooms and laundries. It is also highly resistant to oil, petrol and other solvents.

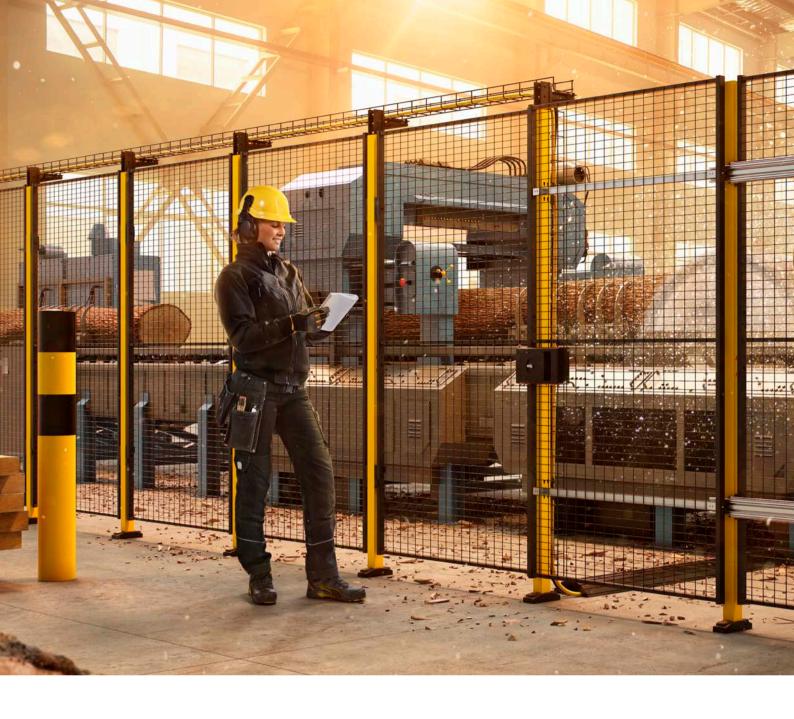
#### We have considered what lies underneath

Under the ED coating is a zinc phosphate coating for maximum adhesion and to prevent creep corrosion stemming from damage to the finish. The paint is black and can be used as an undercoat for powder coating, which means that you get a higher corrosion resistance and can choose any colour you want for the finish.

When measuring the paint it lies between 20-25 m $\mu$ .

#### **Corrosion class**

ED paint + Powder Coating – Matching C3 (not outdoors)



### **Axelent Safety**

Complete safety is not achieved by safe products alone but requires trustworthy products in harness with extensive knowledge and experience. Axelent has a wealth of knowledge and experience of machine safety. We follow developments in the industry very closely and are always at hand to help you keep your machinery up to standard.

On the following pages we have listed the most important things to know about machine safety standards. Would you like us to help you? Contact your nearest sales office.

### **Safety Standards**

## Summary of Machine Safety Standards

The current version of the Machinery Directive 2006/42/EC (ammended by 2009/127/EC) has been in force since December 29, 2009. It is the basis for all machine safety requirements applicable throughout the EU. A number of published European Standards detail requirements that are applicable to Axelent X-Guard. This is a summary of pertinent quotations from these.

#### 1. Fixed guards

Machinery Directive annex 1 chapter 1.4.2.1 "Fixed guards must be fixed by systems that can be opened or removed only with tools.

Their fixing systems must remain attached to the guards or to the machinery when the guards are removed. Where possible, guards must be incapable of remaining in place without their fixings."

This quite stringent requirement for "no-loss" fasteners has been somewhat softened by the "Guide to application of the Machinery Directive" and a section in the new EN ISO 14120 standard:

"When it is foreseen, e.g. maintenance, that the fixed guard will be removed, the fastenings shall remain attached to the guard or to the machinery.

The requirement does not necessarily apply to fixed

The requirement does not necessarily apply to fixed guards that are only liable to be removed, for example, when the machinery is completely overhauled, is subject to major repairs, or is dismantled for transfer to another site." (EN ISO 14120 5.19).

EN ISO 14120 chapter 5.3.10

"Where practicable removable guards shall be unable to remain in place without their fixings."

#### **VALUES FOR SAFETY DISTANCES**

| LI4 130 130                       | 57 chapter 4.<br>I                                    |      | 16 Z |      |      |      |      |      | Dilliella | ions in mn |
|-----------------------------------|---|------|------|------|------|------|------|------|-----------|------------|
| Height of<br>hazard<br>zone°<br>a | Height of protective structure $^{\mathrm{a}}$ $b$    |      |      |      |      |      |      |      |           |            |
|                                   | 1000  | 1200 | 1400 | 1600 | 1800 | 2000 | 2200 | 2400 | 2500      | 2700       |
|                                   | Horizontal safety distance to hazard zone, $\emph{c}$ |      |      |      |      |      |      |      |           |            |
| 2700                              | 0   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0         | 0          |
| 2600                              | 900   | 800  | 700  | 600  | 600  | 500  | 400  | 300  | 100       | 0          |
| 2400                              | 1100  | 1000 | 900  | 800  | 700  | 600  | 400  | 300  | 100       | 0          |
| 2200                              | 1300  | 1200 | 1000 | 900  | 800  | 600  | 400  | 300  | 0         | 0          |
| 2000                              | 1400  | 1300 | 1100 | 900  | 800  | 600  | 400  | 0    | 0         | 0          |
| 1800                              | 1500  | 1400 | 1100 | 900  | 800  | 600  | 0    | 0    | 0         | 0          |
| 1600                              | 1500  | 1400 | 1100 | 900  | 800  | 500  | 0    | _    |           |            |
| 1400                              | 1500  | 1400 | 1100 | 900  | 800  | 0    | 0    | _    |           |            |
| 1200                              | 1500  | 1400 | 1100 | 900  | 700  | 0    | 0    | _    |           |            |
| 1000                              | 1500  | 1400 | 1000 | 800  | 0    | 0    | 0    |      |           |            |
| 800                               | 1500  | 1300 | 900  | 600  | 0    | 0    | 0    |      |           |            |
| 600                               | 1400  | 1300 | 800  | 0    | 0    | 0    | 0    | _ /  | # ·       | b          |
| 400                               | 1400  | 1200 | 400  | 0    | 0    | 0    | 0    |      | -         |            |
| 200                               | 1200  | 900  | 0    | 0    | 0    | 0    | 0    | _    | c         |            |
| 0                                 | 1100  | 500  | 0    | 0    | 0    | 0    | 0    |      |           |            |

- a Protective structures less than 1000 mm in height are not included because they do not sufficiently restrict movement of the body.
- b Protective structures lower than 1400 mm should not be used without additional safety measures.
- c For hazard zones above 2700 mm, refer to 4.2.1.

### **Safety Standards**

#### 2. Safety Distances

EN ISO 14120 chapter 5.2.2

"Guards intended for preventing access to hazard zones shall be designed, constructed, and positioned to prevent parts of the body from reaching hazard zones according to ISO 13857. For interlocked movable guards, safety distances according to ISO 13855 shall also be fulfilled."

#### 3. Distances to impede free access

EN ISO 13857

"A protective structure can be used to restrict the free movement of the lower limbs under protective structures. When this method has to be used, distances are given in annex A in relation to the height to the protective structure."

### 4. Regular openings for persons of 14 years of age and above

EN ISO 13857 chapter 4.2.4.1

Axelent's X-Guard Premium has an aperture of  $19 \times 49 \text{ mm}$  which requires a safety distance of 120 mm, Axelent's other machine guard systems have an aperture of  $29 \times 49 \text{ mm}$  which requires a safety distance of 200 mm (for further information see EN ISO 13857 chapter 4.2.4.1 table 4).

#### 5. Viewing

EN ISO 14120 chapter 5.2.4

"Where viewing of the process is required, guards shall be designed and constructed to offer adequate viewing. This can eliminate the need for defeating them. See also 5.9."

EN ISO 14120 chapter 5.9

"Where viewing of machine operation is required through the guard, materials shall be selected with suitable properties. If perforate material or wire mesh is used this should be of adequate open area and suitable colour to permit viewing. Viewing will be enhanced if the perforate material is darker than the area observed."

#### 6. Positive location of removable guards

EN ISO 14120 chapter 5.3.10

"Where practicable removable guards shall be unable to remain in place without their fixings."

#### 7. Removal only by tool

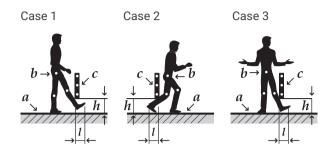
EN ISO 14120 chapter 5.3.9

"Demountable parts of guards shall only be removable with the aid of a tool."

In the same section EN ISO 14120 forbids use of quick release fasteners that can be accessed from outside the guarded area. This requirement has been added to prevent side-stepping of the guard. Users could be tempted to remove a fence panel instead of using an interlocked door and thus enter the danger zone while the machine is running.

A "safe system of work" can prevent that. Axelent supplies the X-key as a special tool for quick release (as standard from inside only). The owner of the machine should limit access to this special tool to authorised

#### Figure A.1 (EN ISO 13857)



- a Reference plane
- b Hip joint
- c Protective structure
- h Height up to protective
- |- Distance for impedance

| Table A.1 (EN ISO 13857)   |  |  |  |  |  |
|--|--|--|--|--|--|
| Height up to protective structure (h)  | Distance (I)                               |  |  |  |  |
|  | Case 1                                     | Case 2                                     | Case 3                                     |  |  |
| $h \le 200$<br>$200 < h \le 400$<br>$400 < h \le 600$<br>$600 < h \le 800$<br>$800 < h \le 1000$ | ≥ 340<br>≥ 550<br>≥ 850<br>≥ 950<br>≥ 1125 | ≥ 665<br>≥ 765<br>≥ 950<br>≥ 950<br>≥ 1195 | ≥ 290<br>≥ 615<br>≥ 800<br>≥ 900<br>≥ 1015 |  |  |

Dimensions in mm

Figure A.1 – Impeding free movement under protective structures.

Table A.1 gives distances for particular cases where access of the lower limbs is impeded when the person remains in a standing position (see figure A.1) without any additional support.

Where there is a risk of slipping or misuse, applying the values given in Table A.1 can be inappropriate.

There should be no interpolation between the values in this table. If the height, h, up to the protective structure lies between two values, then the distance for the higher value of h should be used (for further information see EN ISO 13857 chapter 4.3).

persons to prevent circumvention of the guard. At the same time fixed guards need to be easily removed and re-installed to ensure they will be re-installed (compare section 6.4.4.1 b).

#### 8. Selection of guards

EN ISO 14120 chapter 6.4.4.1

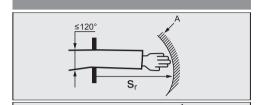
"The following types of guard should be used:a) Movable guard, if the foreseeable frequency of access is high (e.g. more than once per week) or if removal or replacement of a fixed guard would be difficult. Movable guards shall be associated with an interlock or an interlock with guard locking (see ISO 14119);

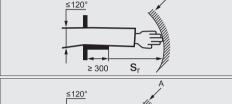
b) Fixed guard only, if the foreseeable frequency of access is low (e.g. less than once per week), its replacement is easy and its removal and replacement are carried out under a safe system of work."

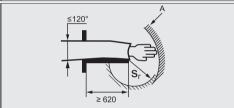


Axelent participates in the standardization work in cooperation with SIS, Swedish Standards Institute.

### PROTECTION AGAINST REACHING ROUND, DIMENSIONS FOR UPPER LIMBS







- A = Range of arm movement
- Sr = Radial safety distance
- a = Diameter of a circular aperture or width of a square aperture or slot

(For further information see EN ISO 13857 Chapter 4.2.3 table 3)

### PROTECTION AGAINST REACHING THROUGH OPENINGS, DIMENSIONS FOR UPPER LIMBS

(EN ISO 13857 Chapter 4.2.4.1 table 4)

The values in the following table apply only to persons who are at least 14 years old. Values in mm.

| 5 . (1) 1 . 1                      |                  |              | Safety distance     |        |          |  |
|------------------------------------|------------------|--------------|---------------------|--------|----------|--|
| Part of the body                   | Figure           | Opening      | Slot                | Square | Circular |  |
| Figuration                         | Sr               | e ≤ 4        | ≥ 2                 | ≥ 2    | ≥ 2      |  |
| Fingertip                          |                  | 4 < e ≤ 6    | ≥10                 | ≥ 5    | ≥ 5      |  |
| Finger up to                       | Sr               | 6 < e ≤ 8    | ≥ 20                | ≥15    | ≥ 5      |  |
| knuckle where<br>finger joins hand |                  | 8 < e ≤ 10   | ≥ 80                | ≥ 25   | ≥ 20     |  |
| Hand                               | S <sub>r</sub>   | 10 < e ≤ 12  | ≥ 100               | ≥ 80   | ≥ 80     |  |
|                                    |                  | 12 < e ≤ 20  | ≥ 120               | ≥ 120  | ≥ 120    |  |
|                                    |                  | 20 < e ≤ 30  | ≥ 850 <sup>1)</sup> | ≥ 120  | ≥ 120    |  |
| Arm up to shoulder                 | S <sub>r</sub> e | 30 < e ≤ 40  | ≥ 850               | ≥ 200  | ≥ 120    |  |
|                                    |                  | 40 < e ≤ 120 | ≥ 850               | ≥ 850  | ≥ 850    |  |

The coloured area shows which part of the body is restricted by the size of the opening. For openings > 120 mm the safety distances for reaching over must be used and additional safety measures taken.

 $^{1)}$  If the length of a slot is  $\leq$  65 mm, the thumb acts as a stop. The safety distance can then be reduced to 200 mm.

\* The graphics are owned by Axelent

#### 9. Geometrical factors

EN ISO 12100 chapter 6.2.2.1

"The design of the machine shall be such that, from the main control position, the operator is able to ensure that there are no exposed persons in the danger zones."

### 10. Measures for the escape and rescue of trapped persons

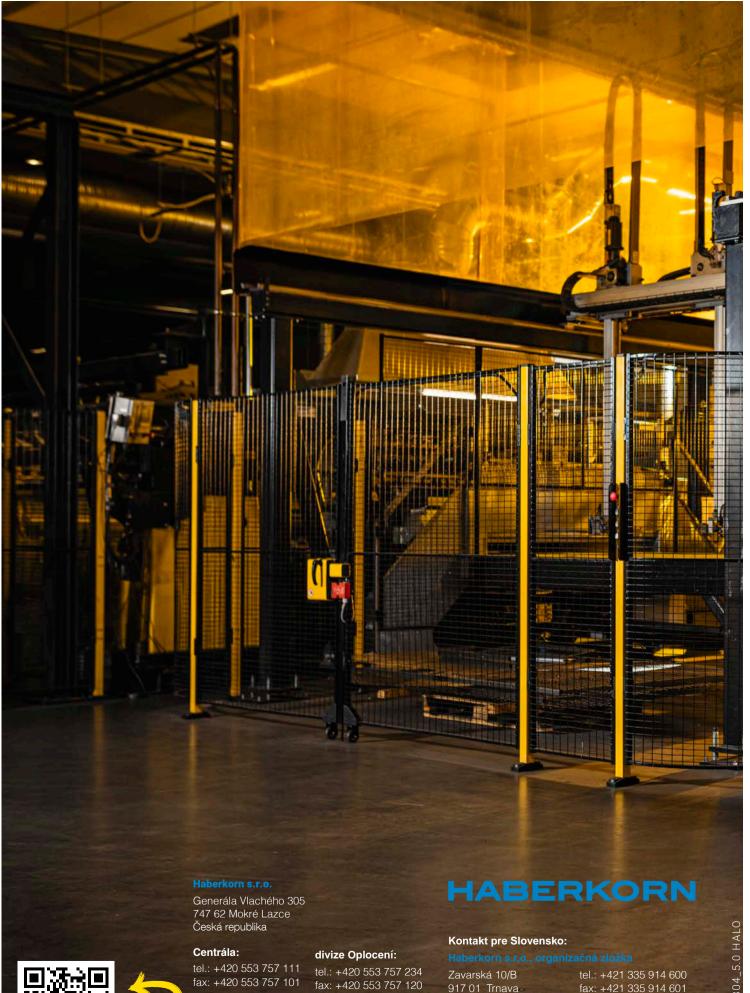
EN ISO 12100 chapter 6.3.5.3

"Measures for the escape and rescue of trapped persons may consist, e.g. of:

- escape routes and shelters in installations generating operator-trapping hazards;
- arrangements for moving some elements by hand, after an emergency stop;
- arrangements for reversing the movement of some elements:
- anchorage points for descender devices;
- means of communication to enable trapped operators to call for help."

As this is a sample from the applicable standards, we recommend that you read the standard relevant to each application. The basis for any decision on guards and other protective measures should always be a careful risk assessment of the entire machine and process. This document is subject to changes in applicable directives and standards.

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