Connect
AUTOMATION
SAFETY GUARDING

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Connect
AUTOMATION
Industrial Assembly System

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INTRODUCTION SAFETY GUARDING

Our modular standard guarding solutions are used for both safety and clean room applications. Available as on-machine, perimeter, or movable barriers. We can work to different design standards to provide the solution that meets your companies requirements. Panels are available in a range of standard shapes and sizes as well as custom made to suit your exact requirements. We have in-house CNC laser and CNC Router for cutting panelling. We can also cut and engrave as per your requirements.

Suggested Applications :

- Cleanroom enclosure
- On machine covers to reduce contamination
- Machinery perimeter guarding
- On machine pinch point protection
- Process demarcation
- Mobile barriers
- Security

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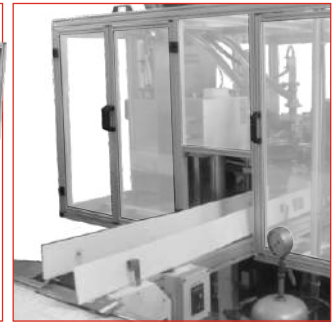
INSTALLATION EXAMPLE PHOTOS







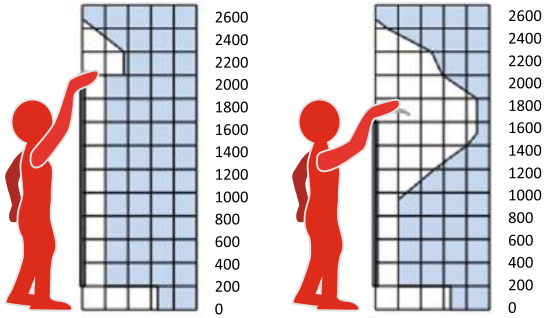




GUARDING STANDARDS

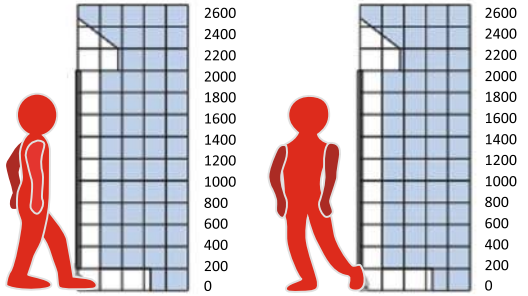
DIN EN ISO 12100 - Safety machinery - the following standards apply when designing guards, e.g. safety barriers.

EN 294 - Safety distances to prevent danger zones being reached by the upper limbs. The safety distances depend on the height and size of the opening of the safety guard. A mesh size of 40x40 mm requires a safe distance of 200 mm. The following figures show the safe distance profiles in accordance with EN 294 and EN 811 for two different standard heights of safety barrier.



EN 811 - Safety distances to prevent danger zones being reached by the lower limbs. When the following preconditions are fulfilled. EN 811 allows greater openings than EN 294; It is justifiable predictable that for reaching the hazardous area only the lower limbs are used.

In accordance with EN 811 openings greater than 180 mm (slit shaped) or 240 mm (square / circular type) allow access to the whole body. Besides this an extended rule exists for ground clearance, where access from upright position is assumed. Ground clearance of 200 mm results in a safety distance of 665 mm for the feet area, as it is shown in the following diagrams.



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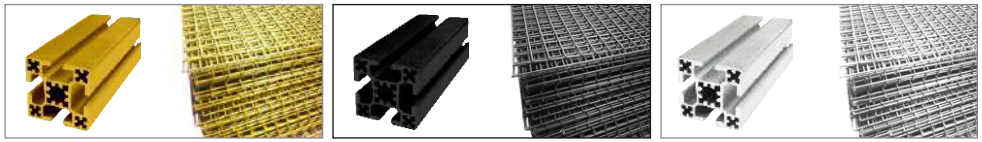
ACCESSORIES OPTIONS

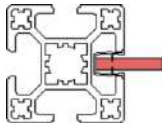
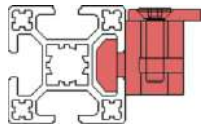
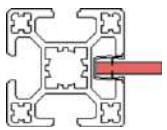
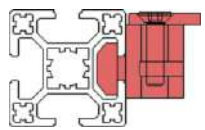
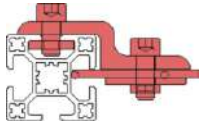
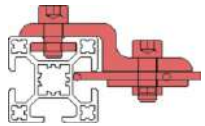
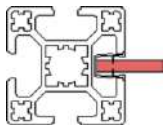
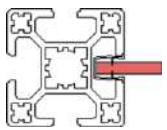
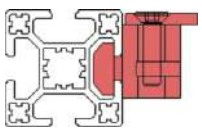
Latches	Magnetic Lock	Ball Catcher
		
Handle	**Sensor**	**Caster Wheel**
		
Emergency Stop	**Power Supply**	**Light Curtain**
		
Locking Latch	**Lights**	**Siren / Horn**
		

MESH AND PROFILE COLOR OPTIONS



Yellow **Black** **Silver**

PANEL MATERIALS

PANEL MATERIALS	FRAME PROFILE		
	SLOT REDUCER	RETAINER	MOUNTING BLOCK
ACRYLIC 			
POLYCARBONATE 			
WOVEN MESH 			
WELDED MESH 			
MELAMINE 			
ALUMINIUM 			

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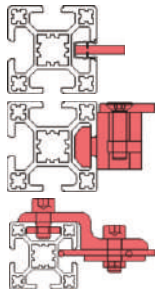
INTEGRATED PANEL DESIGN

The integrated safety panel system frames each panel with its own self-supporting structure. Units are joined using joining plates which doubles the strength of the vertical colomns of the guarding assembly. Preassembled panels can be installed rapidly on site using anchors.

OVERVIEW

FRAME OPTIONS

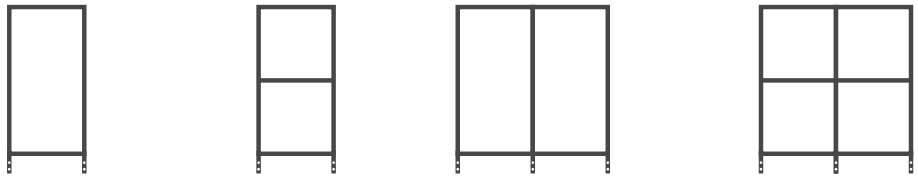


→ Polycarbonate / Acrylic with Reducing Profile

→ Polycarbonate / Acrylic with Mounting Block

→ Welded Mesh with Retainer

PANEL



No Cross Strut | Cross Strut | Vertical Strut | Vertical + Horizontal Strut

DOORS

Single Door

Double Door

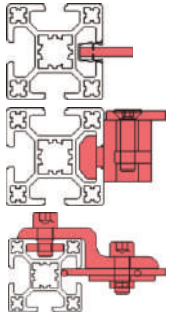
Sliding Door

PANEL AND POST PANEL DESIGN

Panel and post makes removing guarding panels faster and easier for appilications where quick access is required. Posts are fixed in place. Panels are then mounted to these poles.

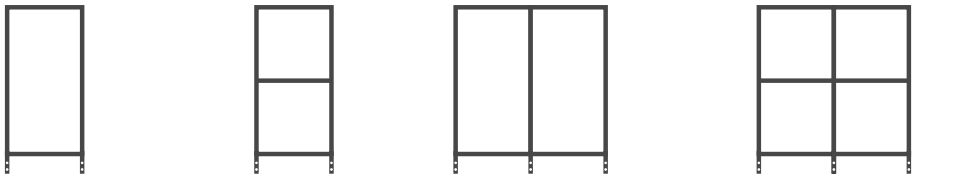
OVERVIEW

FRAME OPTIONS



- → Polycarbonate / Acrylic with Reducing Profile
- → Polycarbonate / Acrylic with Mounting Block
- → Welded Mesh with Retainer

PANEL



No Cross Strut | Cross Strut | Vertical Strut | Vertical + Horizontal Strut

DOORS

Single Door | Double Door | Sliding Door

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SAFETY GUARDING SKETCH SHEET