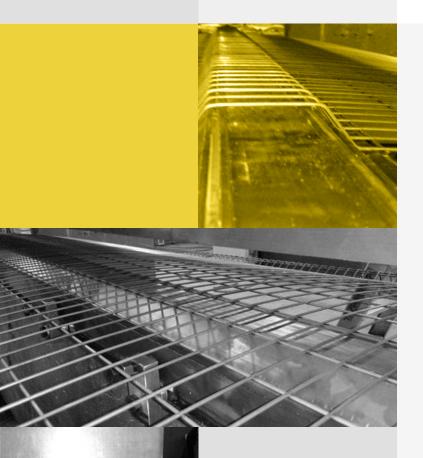


Protective fences and modular security systems Index

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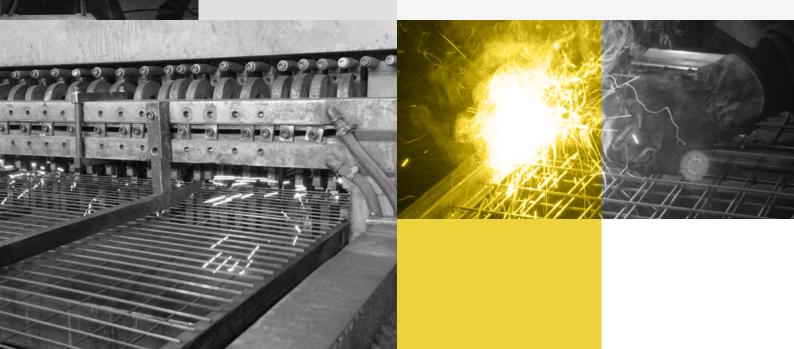


We are a company that was founded in 1996 with the aim of the protecting people from the risk of an accident at work through safety systems that comply with European rules.

Initially aligned only on the machine tool market with specific. Protective functions, further, developed with its own product range on the market of the plant construction with system safety fences.

Care to customer High quality of products Delivery speed Constant innovation has always been the distinguishing feature of PROTEC as a reference point in the Italian market.

www.protec-italy.net

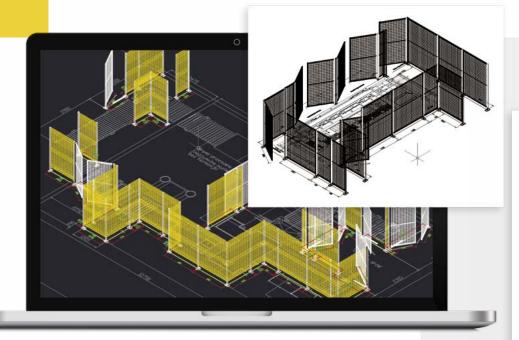




Special software



Protec has developed special software, an automatic tool that relies on AutoCAD® to create 3D drawings and automatically organize the fence pieces needed.







Offers

Our technical office can suggest standard and special solutions In terms of compliance with applicable regulations.

Assembly Instructions

Protec has designed a user manual to provide an explanation of the system parts or kits for technical offices, direct customers or fitters.

2D and 3D drawings

By registering on the website, you can download 2D and 3D drawings that help you to best configure your security protection.



Warehouse and fast shipping

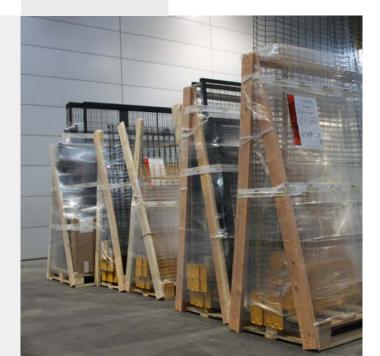
Protec has a large selection of finished products in stock (yellow color RAL1003 and scratch resistant black) to make a fast delivery possible.





Packaging

The packaging is made of wood and this construction is strong enough to ensure safe transport. It can also be ordered here wood packaging that is treated according to the ISPM-15 standard.



Protec Sicura Group

Sicura Group provides services, products and systems for the fire protection and safety of goods and people, for the protection of the environment and the quality of the company.

In a few years, the group has become the market leader through a pool of specialized and integrated technicians to provide the company with a "complete portfolio".

The synergy resulting from the integration of specialized technicians with a great deal of experience in specific areas has allowed us to develop a range of products and services that can satisfy all needs.



Sicura GROUP has been part of Rekeep since January 2009.

Head of a group, active in the management and supply of integrated services to public and private clients working on buildings and to support the healthcare system, the so-called "Integrated Facility Management".

The group is the leading Italian operator in the field of Integrated Facility Management and one of the main players with sales of around 1 billion \in and more than 20,000 employees in Europe.



4 companies
 6 operating centers
 +300 total number of employees
 +25.000 serviced customers



PROTEC

MACHINE SAFETY PROTEC Srl Design and production of Safety systems for machines.



CONSULTING & TRAINING

LEONARDO Srl Services and advice for the environment, Safety, work hygiene and business organization.



OCCUPATIONAL MEDICINE PREVENTIVE MEDICINE

EVIMED Srl Occupational medicine, preventive medicine, Laboratory analysis, training, Health promotion in the company.





System Techno

The Techno protective fence system, Ø3 mm wire, Ø4 mm wire and INOX Ø3mm wire was created to help all customers determine the hazardous areas to provide a solution with steel material that is cost effective and easy to install.

This product is made with self-supporting grid panels, with a mesh size that improves visibility to the machine that stands behind the fence.



Cheap

The costs are minimized because it is made as a self-supporting fence.

Modularity

All components are modular; so the same panels can be used both as fixed elements and with the help of a Kit, as a double or sliding door.

Visibility

The innovative system of the 32x67 (wirenetting) improves the vision of the machinery inside the restricted area.

Hodification on place during installation

This system has the big advantage to be changed on place, with the use of a few Tools and it does not have to be repainted afterwards.



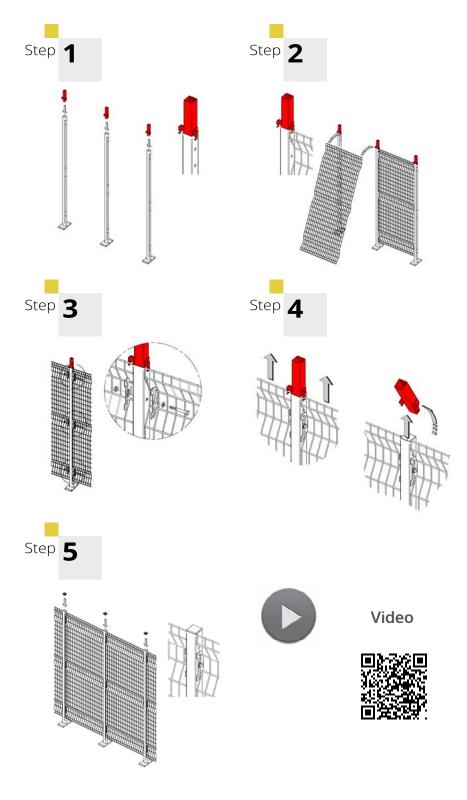


The QUICK TECHNO kit is an instrument designed exclusively to reduce assembly time, it is possible to install this 3-prolongation kit by a single installer. The system complies with the applicable regulations.

A fundamental requirement for permanent guards is their fixing, which must be obtained with systems that require the use of tools for opening them and, as far as possible, they must not be able to remain in their place in the absence of their fixing means.

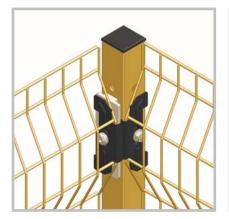
At the end of the operations therefore the kit must necessarily be removed.





System Techno

Convex corners kit



With this accessory you can realize Internal angle of 90°.

Leveling kit

And and

This kit allows the leveling of the post. Ideal for setting the door posts.

Panel inclination kit



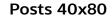
With this accessory you can make angle connections with inclinations of 30° to 180° .

Posts 40x40

Panel fixing kit 1 fold

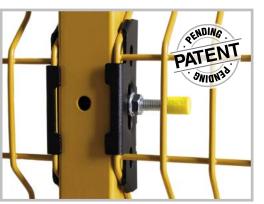


This accessory allows you to be able to fix the panel to the posts later, after having changed or shortened it horizontally.









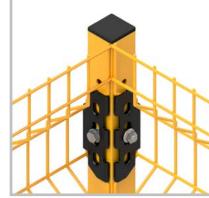
Unlosable screw set The new Machinery Directive requires that "fastening systems must remain attached to the fences or to the machine when removing the

protections". The screws must not be missed unless the panel or panels need to be removed for normal maintenance and it is not possible to act on the access already provided (doors).

The standard UNI EN 14120 states: Movable protective equipment, if access frequency is high (more than once a week) or if removal of the fixed guard may be difficult, a movable guard with lock must be provided.

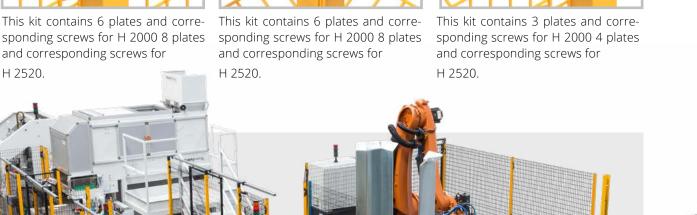
In accordance to current regulations, the set of non-removable screws is easy to install and it is always provided.

Intermediate screw kit Angle screw kit



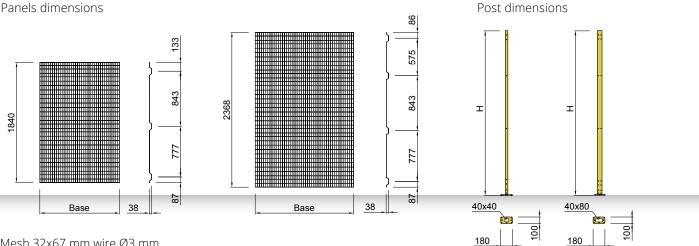
Terminal screw kit



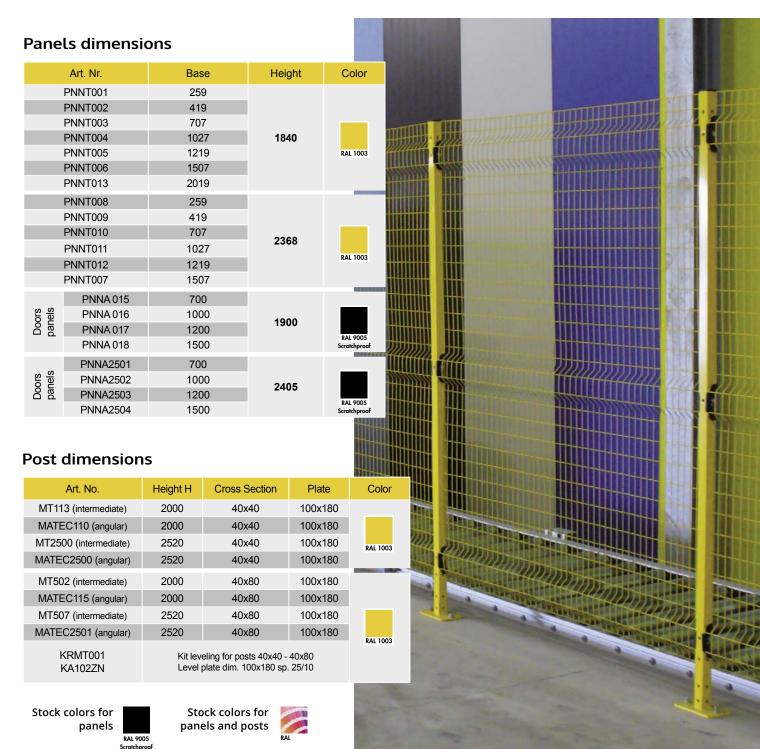


System Techno wire Ø3

Panels dimensions



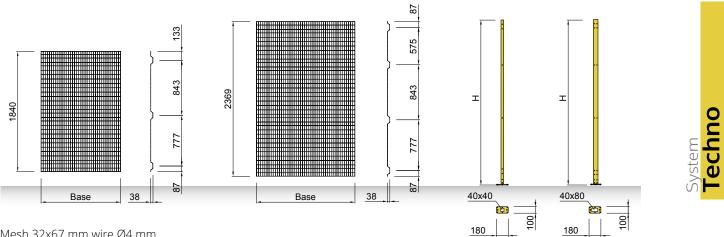
Mesh 32x67 mm wire Ø3 mm Floor light 160 mm for panels - 100 mm for doors



12

Protections and modular safety systems

System Techno wire Ø4

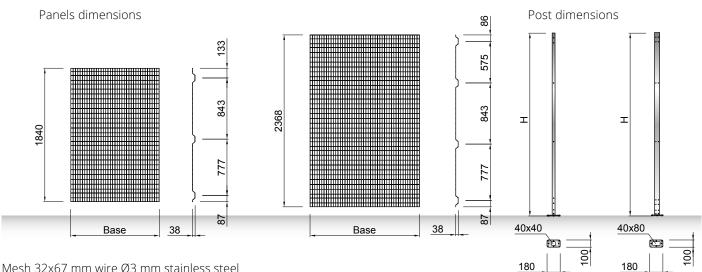


Mesh 32x67 mm wire Ø4 mm Floor light 160 mm for panels - 100 mm for doors

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MATE	EC115 (angular)	2000	40x80	100x180		2	1 to	1	TT I	1			1		IT
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System Techno wire Ø3 mm Stainless inox AISI 304

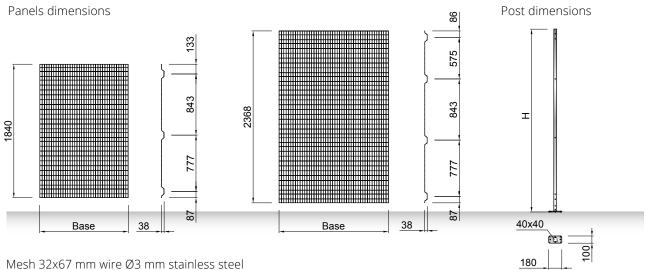
14



Mesh 32x67 mm wire Ø3 mm stainless steel Floor light 160 mm for panels - 100 mm for doors

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System Techno Ø3 m inox food AISI 304 Food



Floor light 160 mm for panels - 100 mm for doors

nels dim	ensions			1		States of	
Base	Н	eight	Post-processing		A		-
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st dimen				+	51		
Height H	Cross Section	Plate	Post-processing	1			
2000	40x40	100x180					
2520	40x40	100x180	INOX AISI 304				
					1		-1

System **Fechno**

System Novatek

The Novatek system is a specific solution made of steel at a low cost, aesthetically beautiful and easy to install with optimum stability; Ideal for all operations in dangerous areas that need to be isolated. The visibility of the closed off zone is the strong point of this product; the cooperation between the grid mesh and black color significantly improves the visibility of the hazardous area.

Scratch resistance is guaranteed by a special black color.



STREET, STREET

Modularity

Each component has been designed to be modular. The same panels can be found both as solid elements, as kits and as a hinged door or sliding door their use.

Visibility

The innovative system of 32x67 Ø3 wire combined with the black color of the panel improves the visibility of the machines inside the separate zone.

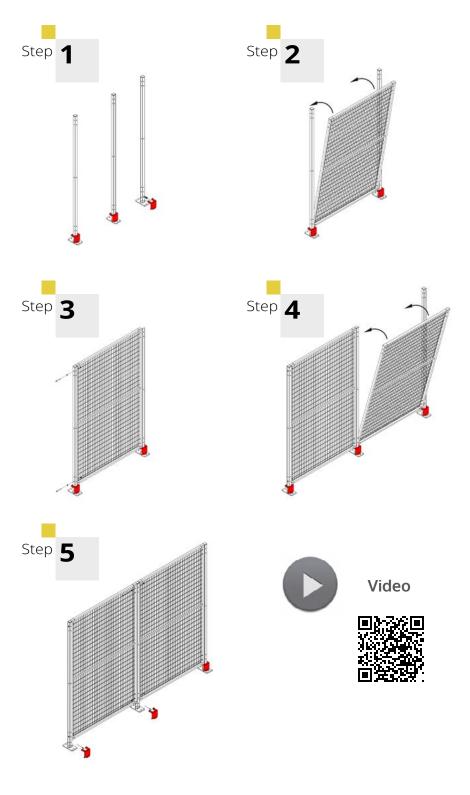
Strong

The Novatek panel has a welded grid behind the profile, it gives more elegance and stability.

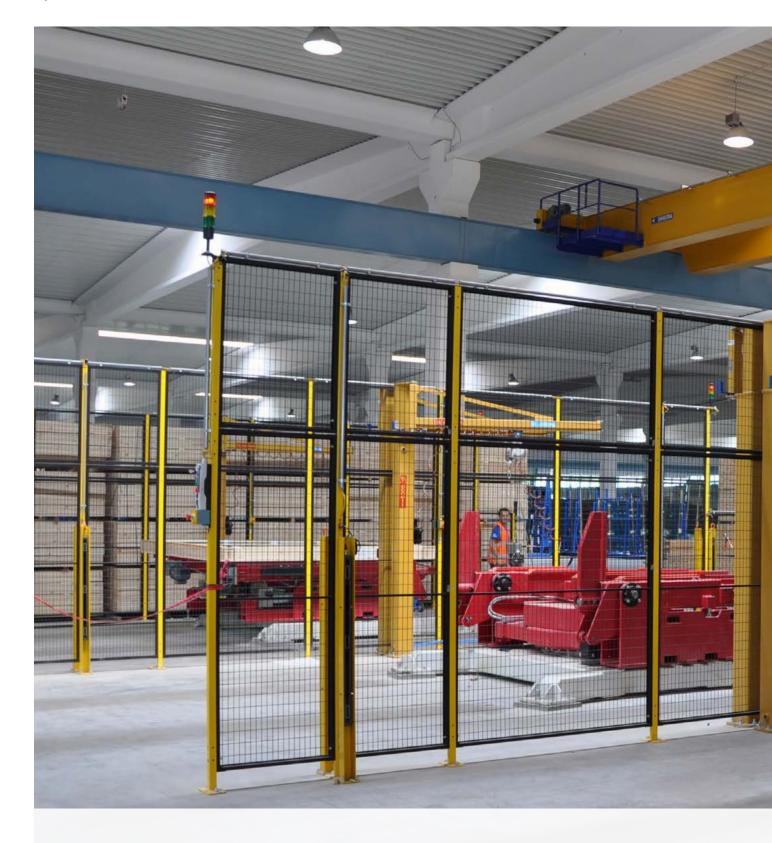


The QUICK NOVATEK kit is a tool designed to save time this kit consisting of 3 brackets, allows installation even from a single worker. The system complies with the applicable regulations. A basic requirement for fixed guards is their attachment, which must be maintained with systems which require the use of tools for opening and as much as possible they must not be able to remain in place without their fasteners. **At the end of the construction operations, the kit must be removed.**





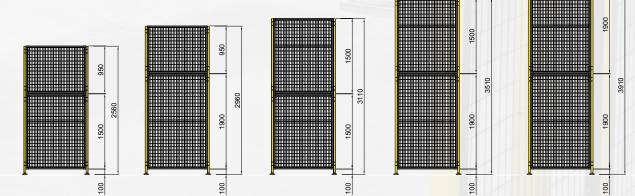
System Novatek



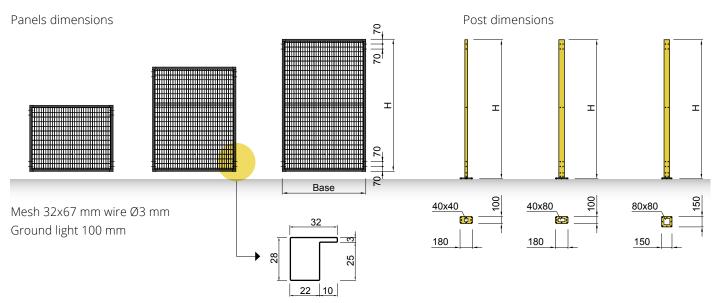
Modularity in height

The NOVATEK and ECOTEK systems combined with suitable posts, allow the construction of perimeter protections with high heights, preventing the operator from accessing the danger zone from above and any leaking of the processed material.





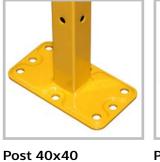




Post

The post is a basic element to ensure high stability, our posts are all equipped with a welded plate.

The installation of our posts is a lot faster than the traditional systems. The position of the holes allows the attachment of the post without moving it from the desired position.







Post 80x80

Panels dimensions

Color	Height	Base	Art. Nr.
		250	PNNA001
		400	PNNA002
	950	700	PNNA003
	950	1000	PNNA004
		1200	PNNA005
		1500	PNNA006
		250	PNNA030
		400	PNNA031
	1300	700	PNNA032
	1300	1000	PNNA033
		1200	PNNA034
		1500	PNNA035
RAL 9005		250	PNNA007
Scratchproo		400	PNNA008
	1500	700	PNNA009
	1500	1000	PNNA010
		1200	PNNA011
		1500	PNNA012
		250	PNNA013
		400	PNNA014
	4000	700	PNNA015
	1900	1000	PNNA016
		1200	PNNA017
		1500	PNNA018

Stock colors for panels and posts

> INOX AISI 304

Post dimensions

Art. Nr.	Height H	Cross Section	Plate	Color
MT111	1050	40x40	100x180	
MT114	1400	40x40	100x180	
MT112	1600	40x40	100x180	
MT113	2000	40x40	100x180	
MT115	2560	40x40	100x180	RAL 1003
KRMT001 KA102ZN		ing for posts 40x40 l plate 100x180 sp.2		
MT500	1050	40x80	100x180	
MT503	1400	40x80	100x180	
MT501	1600	40x80	100x180	
MT502	2000	40x80	100x180	_
MT504	2560	40x80	100x180	
MT505	2960	40x80	100x180	RAL 1003
MT506	3110	40x80	100x180	
MT508	3510	40x80	100x180	
KRMT001 KA102ZN		ing for posts 40x40 I plate 100x180 sp.2		
MT211	1050	80x80	150x150	
MT214	1400	80x80	150x150	
MT212	1600	80x80	150x150	
MT213	2000	80x80	150x150	
MT215	2560	80x80	150x150	
MT216	2960	80x80	150x150	
MT217	3110	80x80	150x150	RAL 1003
MT218	3510	80x80	150x150	
MT219	3910	80x80	150x150	
KA201ZN KF100	Leve	el plate 150x150 sp.3 Grains M8x25	0/10	



Height-adjustable post



This post allows, under unfavorable floor conditions with large inclinations, an easy regulation. Available in 40x40 and 40x80 section.

Intermediate Post



It is ideal for long stretches and allows to place this foot in an intermediate place of a standard post, ensuring anyway good impact resistance and economic savings.

System Novatek



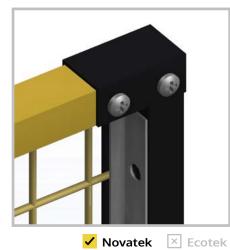
Unlosable screw set

The new Machinery Directive requires that "fastening systems must remain attached to the guards or to the machine when removing the guards". The screws must not be missed unless the panel or panels need to be removed for normal maintenance and it is not possible to act on the access already provided (eg doors).

The UNI EN 14120 says: Mobile protections - when the frequency of access is high (more than once a week), or if the solid safety fence is removed It may be difficult to provide a movable guard with a latch.

In compliance with current regulations, the captive screw kit is easy to install and will be provided on request.

Panel cut set



With Novatek panel cut set The framed panels can be modified and adapted on site no need to weld no need to paint them again.

Special panel fastening tool kit Panel inclination kit



This kit allows the panels to be fixed to positions of posts that are not yet drilled.



🗸 Novatek 🖌 Ecotek

With this kit, you can get inclinations from 30 ° to 180 °.

Panels with logo



Panels can be prepared on request with custom logo, ideal for those who want to make company logo visible

Extension kit



With the help of a screw connection you can easily reach the extension of a panel from 30 to 120 mm.

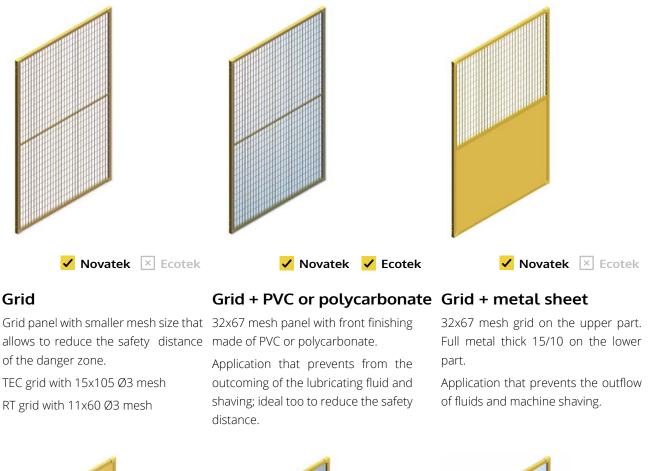
Panel connection kit



With this kit can be connected two panels to realize intermediate lengths of panels. Ideal for special sliding doors with floor guide or to make longer standard panels.

Special finishings Novatek - Ecotek

Finishing has become more and more requested, so we want to Introduce a wide range of possibilities.

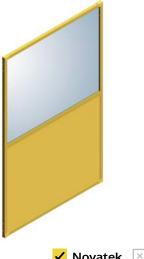




Metal sheet

Full plate 15/10.

Thick panel ideal application for welding islands, because it does not allow lightning - shedding. It can also be used to prevent outcoming of lubricating fluid and machine shaving.



✓ Novatek Ecotek

✓ Novatek ✓ Ecotek

Polycarbonate + sheet metal

4 mm thick polycarbonate panel. Full sheet thickness 15/10 lower part.

Ideal application for delimiting the big machine tools. Polycarbonate (shockproof) fixed with special glass stops, enables the vision of the island from the side of the operator and protects at the same time from the outcoming of lubricating fluid and machine shaving.

Polycarbonate

Polycarbonate thickness 4 mm.

Ideal application around the isolated zone completely visible with polycarbonate (shockproof) Supplied with special glass stops.

23

System Ecotek

The Ecotek system was created with the special purpose to deliver a framed panel at low cost.

The structure of this panel comes with a profile 10x25, that made it light and at the same time stable.

Visibility is a strength point of this product; the duo grid and black color, improves quite much the visibility of the danger zone. Scratch resistance is guaranteed by a special powder paint.



Cheap

The costs are compared to the same NOVATEK system, cheaper because it is produced with a lighter tube system 10x25.

Modularity

Each component has been designed to be modular In fact, all PROTEC modular systems are useful the same grid. The doors are created with the same Novatek series.

O Visibility

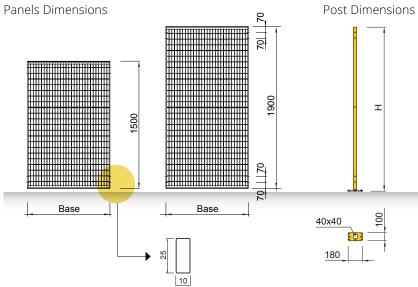
The innovative system of the 32x67 mesh, wire Ø3 combined with the black color of the panel improves the visibility of the machines in the restricted zone.

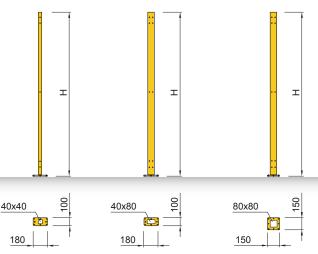


Save yourTime

Video







Panels Dimensions

	Art. No.	Base (B)	Height	Color	Art. No.	Height H	Cross Section	Plate	Color									
	PNNE010	250			MT112	1600	40x40	100x180										
	PNNE011	410			MT113	2000	40x40	100x180										
l	PNNE012	700	1500															
	PNNE013	1020	1500		KRMT001 KA102ZN		ing for posts 40x40 I plate 100x180 sp.:		RAL 1003									
	PNNE014	1210			KA 1022N	Leve	23/10											
	PNNE015	1500			MT501	1600	40x80	100x180										
	PNNE020	250		RAL 9005	MT502	2000	40x80	100x180										
	PNNE021	410		Scratchproof	MT506	3110	40x80	100x180										
	PNNE022	700	4000		MT508	3510	40x80	100x180	RAL 1003									
	PNNE023	1020	1900		KRMT001		ing for posts 40x40											
	PNNE024	1210														KA102ZN	Leve	l plate 100x180 sp.:
	PNNE025	1500			MT212	1600	80x80	150x150										
	PNNA009	700			MT213	2000	80x80	150x150										
ors els	PNNA010	1000	4500		MT217	3110	80x80	150x150										
Doors panels	PNNA011	1200	1500		MT218	3510	80x80	150x150										
	PNNA012	1500			MT219	3910	80x80	150x150	RAL 1003									
	PNNA015	700		RAL 9005 Scratchproof	KA201ZN	Leve	el plate 150x150 sp.3	30/10										
ors els	PNNA016	1000		Scruichproor	KF100		Grains M8x25											
Doors panels	PNNA017	1200	1900															
	PNNA018	1500																
							Creatial a	olors for										

Post Dimensions

Special colors for panels and posts

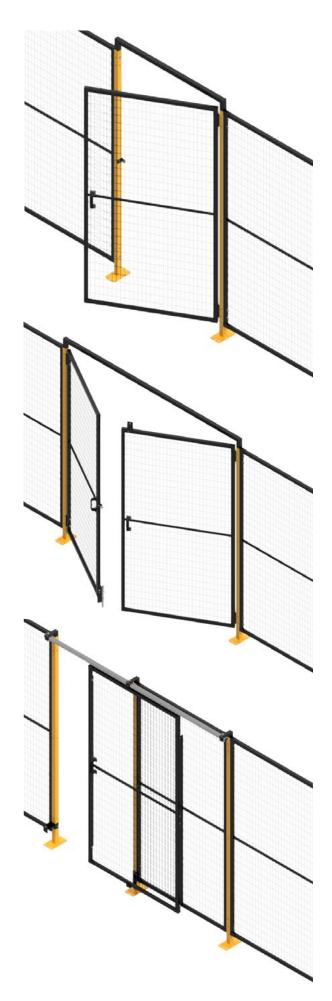






System Ecotek

Components to the **Accesses**



Single double door

The door was designed as antipanic door: through a magnet system it allows Evacuation from the isolated zone by pressing the Door panel.

- Light 735 Center distance 775 (Panel B = 700)
- Light 1035 Center distance 1075 (Panel B = 1000)
- Light 1235 Center distance 1275 (Panel B = 1200)
- Light 1535 Center distance 1575 (Panel B = 1500)

Double doors

The double-door uses the same concept of the single door but with a vertical bolt allows to anchor one of the two door panels to the ground.

- Light 1450 Center distance 1490 (Panel B = 700 + 700)
- Light 2050 Center distance 2090(Panel B =1000 + 1000)
- 2450 light center distance 2490 (panel B = 1200 + 1200)
- 3050 light center distance 3090 (panel B = 1500 + 1500)

Single hanging sliding door

The single sliding door uses, at the top, a single upper guide with a rolling rack, in the lower part there is a plastic profile (Polizene) that allows the smooth running of the panel.

- Light 865 Center distance 905 (Panel B = 1000)
- Light 1065 Center distance 1105 (Panel B = 1200)
- Light 1365 Center distance 1405 (Panel B = 1500)

Double hanging sliding door

The double sliding door allows opening from the two doors in a opposite way and uses the same single-door concept.

- Light 1223 Center distance 1263 (Panel B = 700 + 700)
- Light 1823 Center distance 1863 (Panel B = 1000 + 1000)
- Light 2223 Center distance 2263 (Panel B = 1200 + 1200)
- Light 2823 Center distance 2863 (Panel B = 1500 + 1500)

Single sliding door with floor guide

The simple sliding door uses a floor guide, upon the panel with two wheels. The same panel is guided in the upper part of a plate with nylon roller system.

- Light 792 Center distance 896 (Panel B = 1000)
- Light 992 Center distance 1096 (Panel B = 1200)
- Light 1292 Center distance 1396 (Panel B = 1500)

Option with rubber wheel

The same set can be requested as a rubber wheel option that allows, at the top and bottom, that the light remain free from obstacles; Example: Transpallet movement.

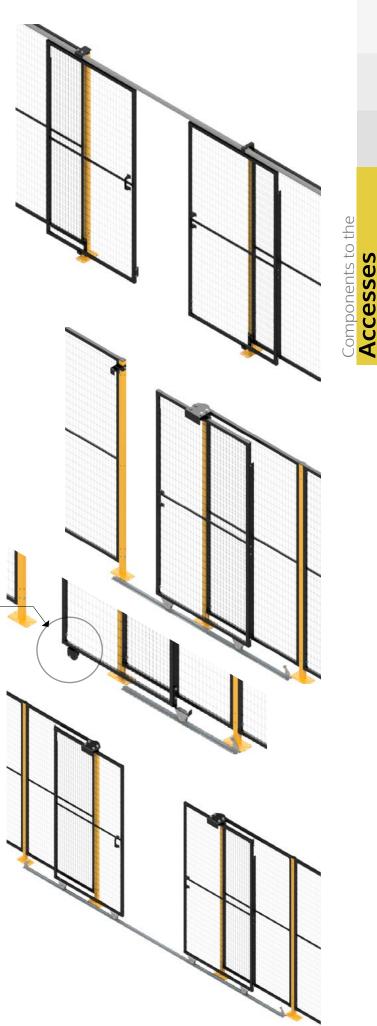
Double sliding door

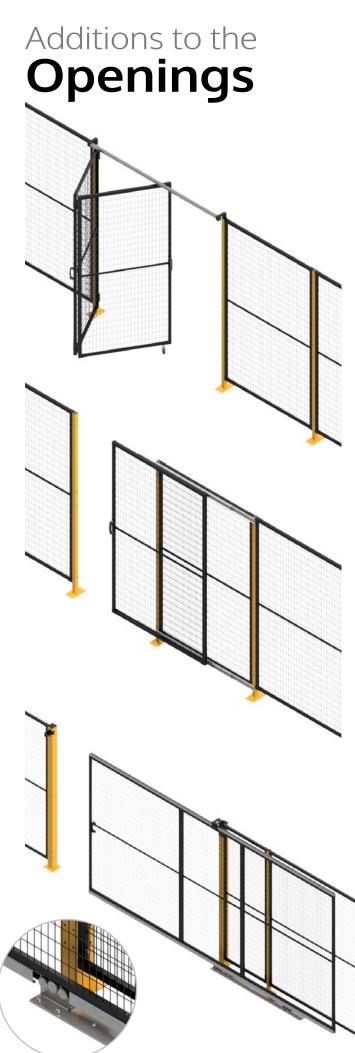
The double sliding door makes it possible to open the two doors in opposite directions and uses the same concept of the single sliding door.

- Light 1065 Center distance between 1233 (Panel B = 700 + 700)
- Light 1665 Center distance 1833 (Panel B = 1000 + 1000)
- Light 2065 Center distance 2233 (Panel B = 1200 + 1200)
- Light 2665 Wheelbase 2833 (Panel B = 1500 + 1500)

Option with rubber wheel

The option can also be requested for this kit





Folding door

The folding door allows a pack opening from all doors. The operation of this door is done by an upper guide and a rubber wheel in the lower part, so that the good stability is guaranteed. It is possible to deliver folding doors with or without floor guide.

Single or double telescopic door

The telescopic door has the advantage of having no guides in the Upper or lower part, it is ideal for these customers who may have problems with obstacles.

His operation takes advantage of the telescopic sliding guides or linear handling systems that guarantee excellent efficiency and long life.

Self-supporting door

The self-supporting door was made to eliminate the obstacles from the top and the bottom of the transit room.

Using standard panels we can supply also large doors in an a cheap way and with limited delivery times.

Door light - mm	Panel - mm
725	1000
875	1200
1125	1500
1425	1000 + 1000
1825	1000 + 1500
2125	1500 + 1500
2425	1000 + 1500 + 1000
2725	1500 + 1000 + 1500
3025	1500 + 1500 + 1500
3425	1500 + 1000 + 1000 + 1500
3725	1500 + 1500 + 1000 + 1500
4025	1500 + 1500 + 1500 + 1500

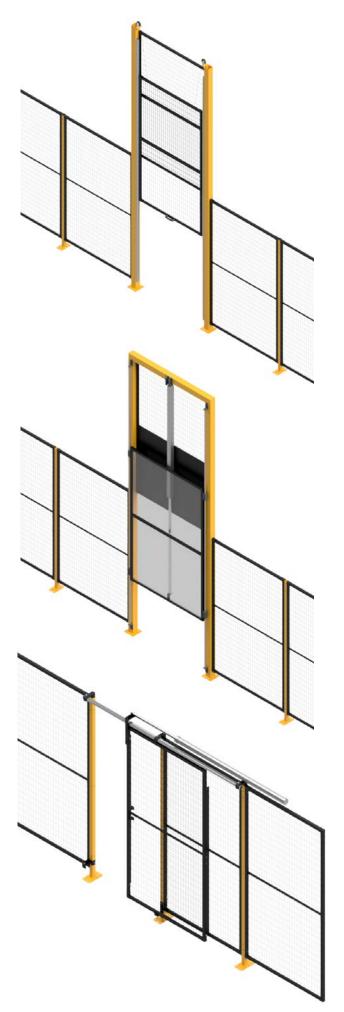
The vertical sliding door with manual movement uses a system of pulleys, linear guides and counterweights this guarantees its safety, functionality and long life.

Vertical automatic sliding door

The vertical pneumatic sliding door uses a system of pulleys, linear guides with balls circulation and counterweights that guarantee the Safety, functionality and durability. For this application we recommend, in the accessible area, the use of a buffer made of shockproof material, to prevent the operator from shearing danger.

Horizontal automatic sliding sliding door

The suspended pneumatic sliding door uses the standard sliding door set with additional clamps and a pneumatic piston which is suitable for the requested light.



Complements Locks and microswitches









Anti-panic lock for flying doors

The anti-panic lock for flying doors are usually used in automatic warehouses. It fulfills the need to lock the door and at the same time allows the operator to exit in case of closure.

Available with: Differents keys, Art. No .: KP050 Same key, Art. Nr .: 101020201

Lock for doors or sliding doors

The lock allows to close the flying door or the sliding door with key to avoid the access by unauthorized people and to prevent staff to remain closed inside the protected area. It is designed for use from one to three padlocks to prevent the operators intervening in the machinery remain accidently imprisoned.

Cod. 101020021 Door lock with door (opening with right hand) Code 101020022 Door lock with door (opening with the left hand) Cod.101020150 Lock for sliding door (opening with the right hand) Cod.101020151 Sliding door lock (opening with the left hand)

LOCK WITH SAFETY SYSTEM

The lock with security system is mechanically operated device that allows you to increase the safety of your system, (better if combined with a microswitch). It prevents the restart of the system against the will of who it is inside the protected area thanks to a coded key system which is not duplicable. It can be easily implemented on both new and old systems and does not require electrical interventions.

MULTI LOCK CLOSING

The multi-lock device is installed on flying doors and works as a part of an integrated system that controls access to dangerous areas. The device, whose fixings, meet the current standards, is equipped with internal anti-imprisonment lever that prevents voluntary closure from the inside and facilitate the emergency exit.

It is designed for use from one to three padlocks preventing the operators operating on the machinery, to remain accidently imprisoned.

MICROSWITCH KIT FOR FLYING DOORS

Uses a safety switch fixed above the hinge, model Pizzato FR2096-L16M1 1NO + 2NC; positioned and secured he is firmly connected to the hinge.

Code: 101030100 for hinged doors without upper crossbar Code: 101030101 for hinged doors with upper crossbar

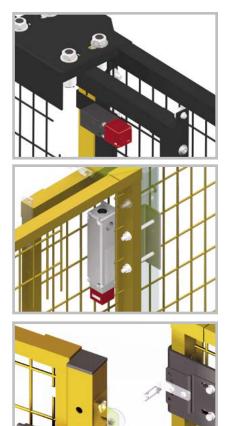
ELECTRIC LOCK KIT FOR WING DOORS

Uses an electric switch model Pizzato FG 60FD1D0Z. Cod. 101030096 (*) Cod. 7030002866 Protective housing for shielding the safety device (on request)

RFID SWITCH KIT WITH LOCK FOR TURNING DOORS

Uses a safety switch Pizzato model NG 2D1D411A-F31 Cod. 101030147 (*)





MICRO-KIT FOR SLIDING DOORS

Uses a safety switch model FR2093-D1M1 1NO + 2NC; positioned between the fixed panel and the door panel and it is both on the hanging sliding doors as well as on the doors with floor running track compatible.

Cod. 101030102 (*)

Code 7030002867 Protective housing for shielding the security device (on request)

ELECTRIC LOCK KIT FOR SLIDING DOOR

Uses an electric lock model Pizzato FG 60FD1D0Z; will be between the fixed panel and the door panel and it is compatible both with the hanging sliding doors as well as with the doors with floor guide.

Cod. 101030097 (*)

Cod. 7030002868 Protective housing for shielding the safety device (on request)

RFID switch kit with sliding door lock

Uses a safety switch from Pizzato. Code: 101030148 (*) with NG 2D1D411A-F31 device Code: 101030191 (*) with NS D4A21SMK-F41 device

Custom plates for safety switches or electric locks

Our technical department is able to design brackets tailored to your needs microswitches or electric locks, they are: Pizzato, Euchner, Schmersal, etc.

Modules applications Metal sheet

The metal sheet module system was created to suit all manufacturers and users of machine tools and welding islands: a steel sheet solution at a reasonable cost, aesthetically beautiful, powerful and easy to install.

The structure can be integrated with properly laminated and sized glass windows.







Waterproof protection

The sheet metal system can also be waterproof and so to prevent the outcoming of lubricating fluid from the protected zone.



Modules applications Metal sheet

With the aim to make the relationship with the customers more and more unique, we have also added to our range the sheet metal and soundproof cabs. The booth design is done in cooperation with the customer, our technical department is able to advise the best suitable solution and realize the dimensional drawing. The cabs can be equipped with manual or pneumatic opening doors and porthole or inspection windows.

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Modules applications Metal sheet







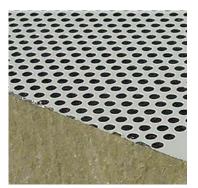


Modules applications Metal sheet

Cabins Soundproof

We are able to solve noise related problems in accordance to the rules, as far as it is compatible with the requirements of safety and functionality. Our strength is the realization of turnkey systems for the control and industrial sound insulation of the machines in operation. The cabs, along with the function of noise protection, can protect the operator from possible outflows of splinters or leftovers of the machine in operation. The components used for the construction of the cabins always offer the best performance of Insulation / sound absorption, mechanical resistance and environmental impact. The chambers can be equipped with manual or pneumatic door opening and windows or inspection portholes. The metal profiles of doors and windows are made of anodised aluminum.



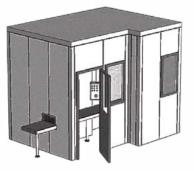


Our technical department is able to guide the customer to the best solution

depending on the type of noise and the number of dB hit. Our soundproof panels are made of external steel girders pre-painted and galvanized, with perforated inner wall. The insulation will be achieved by an insulating layer of high density mineral fibers.

This particular system allows a remarkable soundproof performance. All panels have a usable pitch of 1000 mm, thickness: 50, 80 and 100 mm. The noise protection data were tested at 1 meter height and 1 meter distance from the wall in the fully closed version, listed by thickness:

50 mm = 24 dB (A) Leq 80 mm = 29 dB (A) Leq 100 mm = 31 dB (A) Leq





System Novall

The security system Novall was created to be a cheap solution, easy to install, with a shapely design for all those who have to delimit dangerous areas. The system allows to reduce installation time thanks to the quick coupling system of the panels and posts, which, specially designed, makes the product compliant with current regulations.



Cheap

The costs are lower than most today 's aluminum systems on the Market.

Fast installation

The quick coupling reduces the installation time and simplifies the assembly. The panel structure allows spans up to approx. 3000 mm. so that the number of posts can be reduced. Reduced assembly time also for special panels.

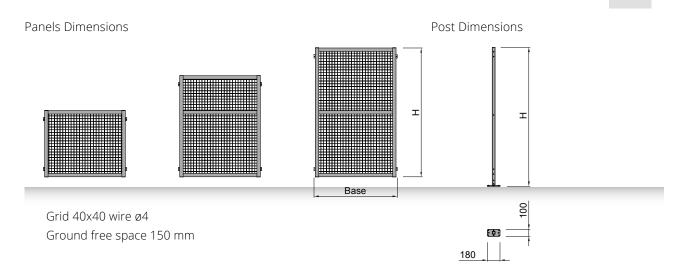
Aesthetics

Timeless elegance and completeness of the structure: aluminum does not rust and does not oxidize

of Versatibility

This aluminum system has the great advantage to be modified/cut using less tools as usual.





Panels Dimensions

Post Dimensions

Art. No.	Base	Height (H)	Finishing	Art. No.	Heigth (H)	Cross Section	Plate	Color		
PNNL001	240				4050	10.10	100x180			
PNNL004	400			MTR11 (terminal)	1050	40x40				
PNNL007	700						100x80			
PNNL010	1000			MTR12 (terminal)	1600	40x40				
PNNL013	1200	950	1000	and the second sec					Galvanized	
PNNL016	1500		Aluminium	MTR13 (terminal)	2000	40x40	100x80			
PNNL019	1915									
PNNL022	2315			KRMT001	Kit leveling for posts 40x40 – 40x80					
PNNL025	2915			KA102ZN		Level plate 100x18	0 sp.25/10			
PNNL002	240				1050	40x40	100x180	Galvanized		
PNNL005	400			MAN11 (angular)						
PNNL008	700		Aluminium				100x180			
PNNL011	1000			MAN12 (angular)	1600	40x40				
PNNL014	1200	1450				40x40	100x180			
PNNL017	1500			MAN13 (angular)	2000					
PNNL020	1915									
PNNL023	2315			KRMT001	Kit leveling for posts 40x40 – 40x80 Level plate 100x180 sp.25/10					
PNNL026	2915			KA102ZN						
PNNL003	240				1050	40x40	100x180			
PNNL006	400			MIN11 (intermediate)						
PNNL009	700									
PNNL012	1000		Aluminium	MIN12 (intermediate)	1600	40x40	100x180	Galvanized		
PNNL015	1200	1850								
PNNL018	1500			MIN13 (intermediate)	2000	40x40	100x180			
PNNL021	1915									
PNNL024	2315			KRMT001	Ki	Kit leveling for posts 40x40 – 40x80 Level plate 100x180 sp.25/10				
PNNL027	2915			KA102ZN						



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Protection Guard-rails

The application areas are multiples, from the boundary of pedestrian paths in the companies up to fall protection on stages and machines with walkable roof.

We have created a modular guard-rail, quick to install, very strong with the characteristic of being easily adaptable in the dockyard.

The standard guard-rail has a length of 1000 or 1500mm, a height of 1100mm from the ground.

With only components, the system allows you to make straight and angular sections.

The guard-rail is composed of posts with or without ground plate, horizontal tubes, foot stop plate and support brackets.



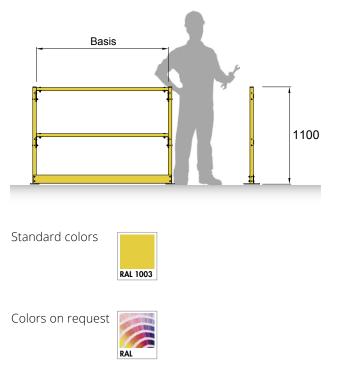


Modular Modular





Item No.	Description
MT110	Post 40x40 with plate 100 x 180 H = 1100 yellow RAL 1003
CR001	Tubular current 35x35 B=1000 yellow RAL 1003
CR002	Tubular current 35x35 B=1500 yellow RAL 1003
LR001	Metal sheet to stop on foot H=94 B=1070 yellow RAL 1003
LR002	Metal sheet to stop on foot H=94 B=1570 yellow RAL 1003
7030401021	Stirrup support yellow RAL 1003
101010047	Screw kit for fixing guard-rail module











System Screen

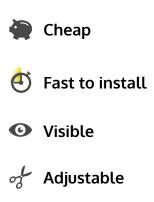
SCREEN is a protection for the back wall of rack storage systems. If required, it can be used as a backstop. It was designed to prevent the fall of objects of shelves and to prevent persons and property damage.

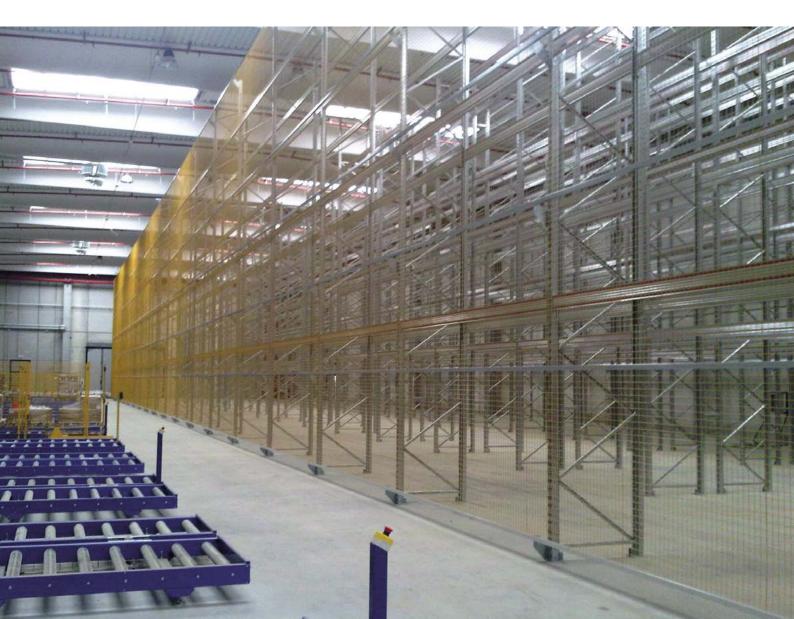
It is slightly strong and allows a fast installation of the grid and the profiles, without welding or special operations.

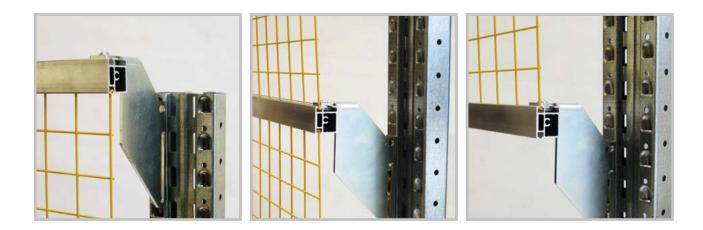
Screen is a product that consists of just a few elements that offers a great flexibility and economy.

The installation of the Screen System was designed to shorten the assembly times; the aluminum crossbars stand as a guide for the grid and are anchored to the frame by the mounting brackets.

Our technical office is able to provide the most suitable solutions to plan each project according to the customer requirements.







Panel connection kit

The connection set allows the use of the entire length of the aluminum profiles, possibly adapting only the final part of the same, thus optimizing any potential waste.

The connection between the panels is done quickly and easily thanks to the attachment of galvanized hooks, which gives good stability.

It is recommended to use 4 elements for each panel connection.

(Included the clamping pliers).







Item No.	Туре	Dimensions (mm)	Color
PNNS001	Net	B = 1503 H=1503 50x50 ø3	RAL 1003
B05020215	Aluminium profile	L= 6000 Section 37x40	Alluminium (not anodized)
101010056	Union profiles kit		Galvanized
101010053	Kit stirrups	L= 150	Galvanized
101010054	Kit stirrups	L= 200	Galvanized
101010055	Kit stirrups	L= 250	Galvanized

Possible production of panels with special dimensions



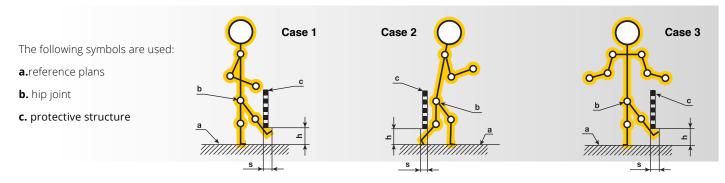
Colors on request

Regulations

EN ISO 12100	Safety of machinery - General principles for design - Risk assessment and risk reduction.						
EN ISO 13849-1	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design.						
EN 60204-1	Safety of machinery - Electrical equipment of machines - Part 1: General requirements.						
EN ISO 13857	Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs.						
EN 349	Safety of machinery - Minimum gaps to avoid crushing of parts of the human body						
2006/42/CE	Machinery directive.						
EN ISO 14119	Safety of machinery - Interlocking devices associated with guards - Principles for design and selection.						
EN ISO 14122-3	Permanent means of access to machinery - Stairs, stepladders and guard-rails						
EN ISO 14120	Safety of machinery - Guards - General requirements for the design and construction of fixed and movable guards H: Guard height h: Falling down beight						
Look at the States resistance TEST	h: Falling down height a: H 2/3 (≤1600) Height of point of impact, which shall not be heigher than 1600						

Reference tables lower limbs EN ISO 13857, Annex B

Restriction of freedom of movement under protective structures



Irregular openings and accessibility from below: Slit openings >180mm and square or circular openings, >240mm allow access to the entire body.

	Distance s						
Height of the protective structure h	Case 1	Case 2	Case 3				
h ≤ 200	≥ 340	≥ 665	≥ 290				
200 < h ≤ 400	≥ 550	≥765	≥ 615				
400 < h ≤ 600	≥ 850	≥ 950	≥ 800				
600 < h ≤ 800	≥ 950	≥ 950	≥ 900				
800 < h ≤ 1000	≥ 1125	≥ 1195	≥ 1015				

Reference table for the upper limbs

Limiting the freedom of movement over the protective structures

EN ISO 13857, 4.2.1

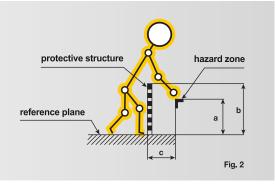
Reaching upwards

- If there is a low risk from hazard zone, then the height of the hazard zone, h, shall be 2 500 mm or more.
- If there is a high risk from the hazard zone, then the height of the hazard zone, h, shall be 2 700 mm or more.

EN ISO 13857, 4.2.2

Reaching over protective structures

- a height of hazard zone
- **b** height of protective structure
- c horizontal safety distance to hazard zone



reference plane

hazard zone

Fig. 1

In the following table (relevant to high risk) the protective structures with a lower height of

1000 mm, are not mentioned because they do not limit enough, the movement of the body.

Protection systems with a height below 1400 mm should not be used without additional safety measures.

If the risk situation is reduced, protection systems with a height greater than - or equal to 1000 mm are allowed. The safety distance, shown in the table below with a dash, mean that must be used the distances in relationship with the grid mesh with 32x67 mesh and ø3 wire or 40x40 wire ø3 - ø4, the minimum safety distance is 200 mm.

Table 2 High risk

	Height of protective structure b									
Height of dangerous area a	1000	1200	1400	1600	1800	2000	2200	2400	2500	2700
		Horizontal distance from the danger zone c								
2700	-	-	-	-	-	-	-	-	-	-
2600	900	800	700	600	600	500	400	300	100	-
2400	1100	1000	900	800	700	600	400	300	100	-
2200	1300	1200	1000	900	800	600	400	300	-	-
2000	1400	1300	1100	900	800	600	400	-	-	-
1800	1500	1400	1100	900	800	600	-	-	-	-
1600	1500	1400	1100	900	800	500	-	-	-	-
1400	1500	1400	1100	900	800	-	-	-	-	-
1200	1500	1400	1100	900	700	-	-	-	-	-
1000	1500	1400	1000	800	-	-	-	-	-	-
800	1500	1300	900	600	-	-	-	-	-	-
600	1400	1300	800	-	-	-	-	-	-	-
400	1400	1200	400	-	-	-	-	-	-	-
200	1200	900	-	-	-	-	-	-	-	-
0	1100	500	-	-	-	-	-	-	-	-



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