A **Safe** factory is a **Productive** one.

GENERAL CATALOGUE
Perimeter Guarding
Modular Systems

SAFETY STANDARDS

EN ISO 14120 - EN ISO 13857 -
EN 349 - ISO 13854 - EN ISO 10218-2 -
EN ISO 14119 - ISO 14122-3

SATECH
Modular **Machine Guards**

EN Standards for safety in working environments

EN ISO 14120
General requirements for the design and manufacture of fixed and movable guards.

5.2.4 - Viewing
Where viewing of the process is required, guards shall be designed and constructed to offer adequate viewing.

5.9 - Machine viewing
Where viewing of machine operation is required through the guard, materials shall be selected with suitable properties (...) 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.

EN ISO 13857
Safety distances to prevent the contact of dangerous areas with upper and lower limbs.

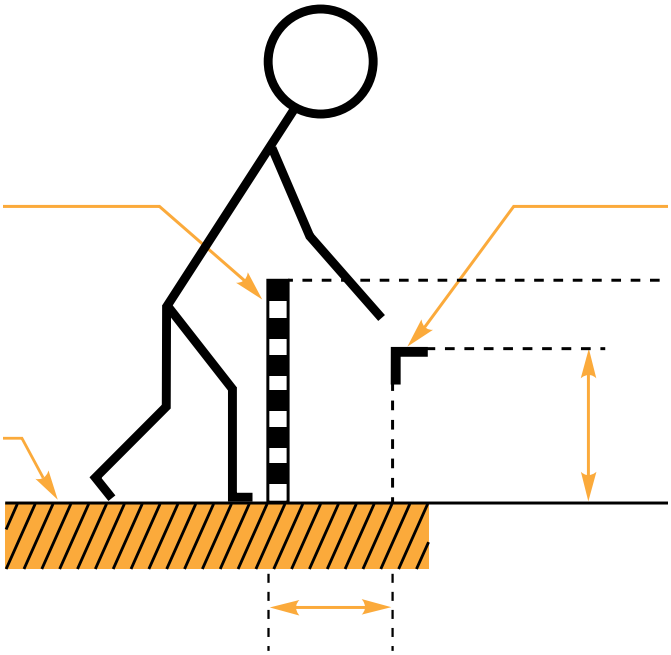
EN 349 - ISO 13854
Minimum gaps to avoid crushing parts of the human body.

EN ISO 10218-2
Industrial handling robots. Safety requirements.

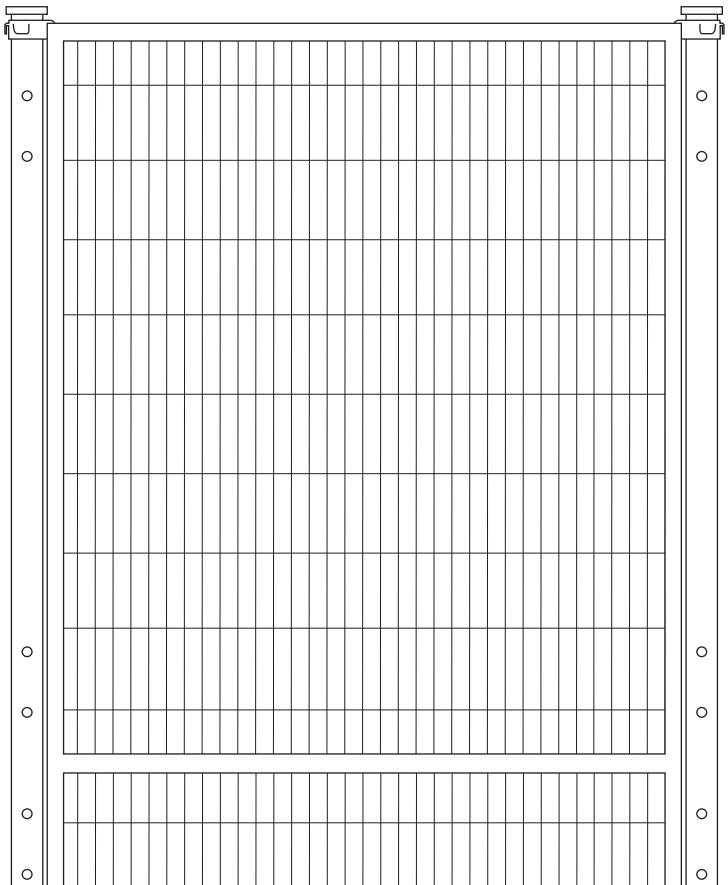
EN ISO 14119
Interlocking devices designed for guards.
Design and selection concepts.

ISO 14122-3
Permanent means of access to machinery.
Ladder, step ladder, safety rails.

2006/42/EC
Machinery Directive.



A **Safe** factory is a **Productive** one.



We produce and distribute solutions for the safety of machinery and industrial plants in accordance with EU and international (ISO) directives. **Modular steel barriers and accessories** that become **customized solutions** for our clients all over the world.

The production flow is entirely managed within our facilities, which ensures a high quality that you can see in every detail.

We are always innovating throughout the industry with our exclusive patents, know-how, and ongoing product upgrades.

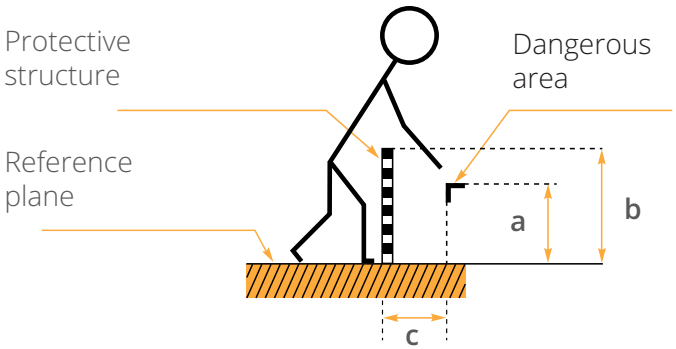
Research, development, design, production, logistics and assistance, Satech is **your reference for safety** in working environments.

SATECH
Modular **Machine Guards**

Safety **distances**

Summary of safety distance values to prevent the reaching of dangerous areas

EN ISO 13857, 4.2.2:
Reaching over protective structures



a: height of hazard zone
b: height of protective structure
c: horizontal distance to hazard zone

Table 2

Dimensions in millimeters

Height of dangerous area **a**	Height of the protection structure **b** 1000	1200	1400	1600	1800	2000	2200	2400	2500	2700
	Horizontal distance to the dangerous area **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	-	-	-	-	-	-	-	-

EN ISO 13857, 4.2.4.1:
Reaching through regular openings

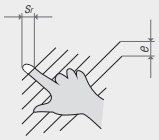
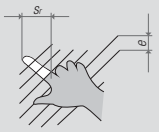
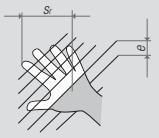
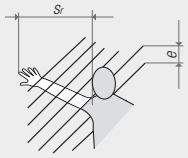
Table 4 gives **Sr** for regular openings for persons of 14 years of age and above.

The dimension of the opening "**e**" corresponds to the side of a square opening, the diameter of a round opening and the narrowest dimension of a slot opening.

For openings larger than 120 mm safety distances in accordance with point 4.2.2 shall be used.

Table 4

Dimensions in millimeters

Part of body	Illustration	Opening	Safety distance **Sr** Slot	Square	Round
Fingertip		e ≤ 4	≥ 2	≥ 2	≥ 2
		4 < e ≤ 6	≥ 10	≥ 5	≥ 5
Finger up to knuckle joint		6 < e ≤ 8	≥ 20	≥ 15	≥ 5
		8 < e ≤ 10	≥ 80	≥ 25	≥ 20
Hand		10 < e ≤ 12	≥ 100	≥ 80	≥ 80
		12 < e ≤ 20	**≥ 120**	≥ 120	≥ 120
		20 < e ≤ 30	≥ 850[a]	≥ 120	≥ 120
Arm up to junction with shoulder		30 < e ≤ 40	≥ 850	≥ 200	≥ 120
		40 < e ≤ 120	≥ 850	≥ 850	≥ 850

The bold lines within the table indicate the part of the body which is restricted by the opening size.

a) If the lenght of the slot opening is less or equal to 65 mm, the thumb will act as a stop and the safety distance can be reduced to 200 mm.

EN ISO 13857, 4.3:
Safety distances to prevent access by lower limbs

In general, safety distances should be determined using Tables 1 to 6 for the upper limbs.

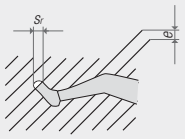
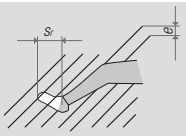
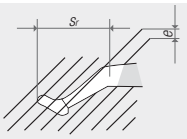
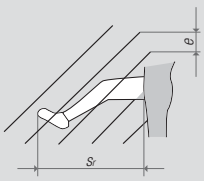
When it is not possible to foresee the upper limb access through the opening, it is possible to use the values given in Table 7 to determine safety distances for the lower limbs.

The dimension "**e**" of openings corresponds to the side of a square opening, the diameter of a round opening or the narrowest dimension of a slot opening.

The values given in Table 7 are independent of whether clothing or footwear is being worn and are applicable for persons of 14 years of age and above. For reaching through openings of irregular shape, see 4.2.4.3.

Table 7

Dimensions in millimeters

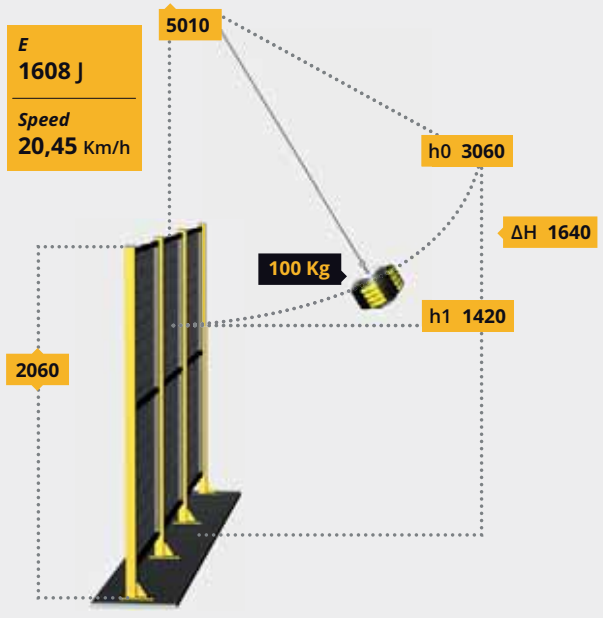
Part of lower limb	Illustration	Opening	Safety distance **Sr** Slot	Safety distance **Sr** Square or round
Toe tip		e ≤ 5	0	0
		5 < e ≤ 15	≥ 10	0
Toe		15 < e ≤ 35	≥ 80[a]	≥ 25
Foot		35 < e ≤ 60	≥ 180	≥ 80
		60 < e ≤ 80	≥ 650[b]	≥ 180
Leg (toe tip to knee)		80 < e ≤ 95	≥ 1100[c]	≥ 650[b]
Leg (toe tip to crotch)		95 < e ≤ 180	≥ 1100[c]	≥ 1100[c]
		180 < e ≤ 240	not admissible	≥ 1100[c]

a) If the lenght to the slot opening is ≤75mm, the distance can be reduced to ≥50mm
b) The value corresponds to leg (toe tip to knee)
c) The value corresponds to leg (toe tip to crotch)

Note: Slot openings with e>180mm and square or round openings with e>240mm will allow access for the whole body (see also Clause 1, final paragraph)

EN ISO 14120
Impact Test

Our protections **Series BASIC, STRONG** and **HEAVY** assembled with nuts and bolts has been subjected to severe **dynamic resistance tests from the inside outwards** according to the procedure contained in EN ISO 14120 Standard (Hard body / Pendulum Test).



h0 = mass release height from the ground (Mass load center): **m 3,060**
h1 = mass impact height from the ground (Mass load center): **m 1,420**
ΔH = h0 – h1 = 3,05 – 1,42 = 1,64 m

Disegna
free design software

Your safety, in 3 easy steps

Disegna is the **free design software dedicated to our clients and distributors** which makes it easier to ask for a quote. The simple and intuitive interface is based on the same software used by our technical department and contains the full database of SATECH'S standard products. **You can design starting from a blank page or importing your existing layout** in a standard format (dwg, pdf, etc ...). You will get the list of the components for the quote **in just 3 steps!**

Ask for it now! **disegna@satech.it**

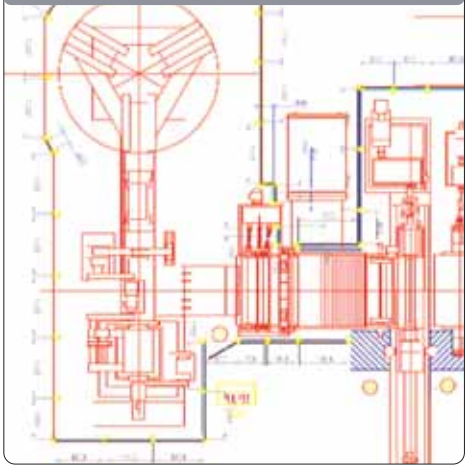
Autocad® and **Inventor®** design

From the client needs to customized design

Our technical department is geared to meet the individual requirements of the clients and provides for **customized protection solutions for all the industry sectors**.

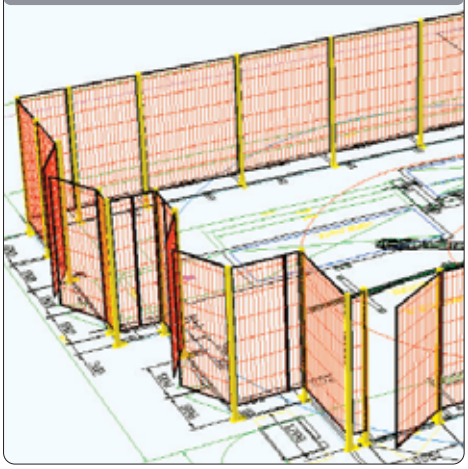
A customized **Autocad®** design application allows us to get **maximum optimization choosing the modular components** used in the layouts. Our designs are saved in **STEP and PDF-3D** format, ensuring a full compatibility with your IT standards.

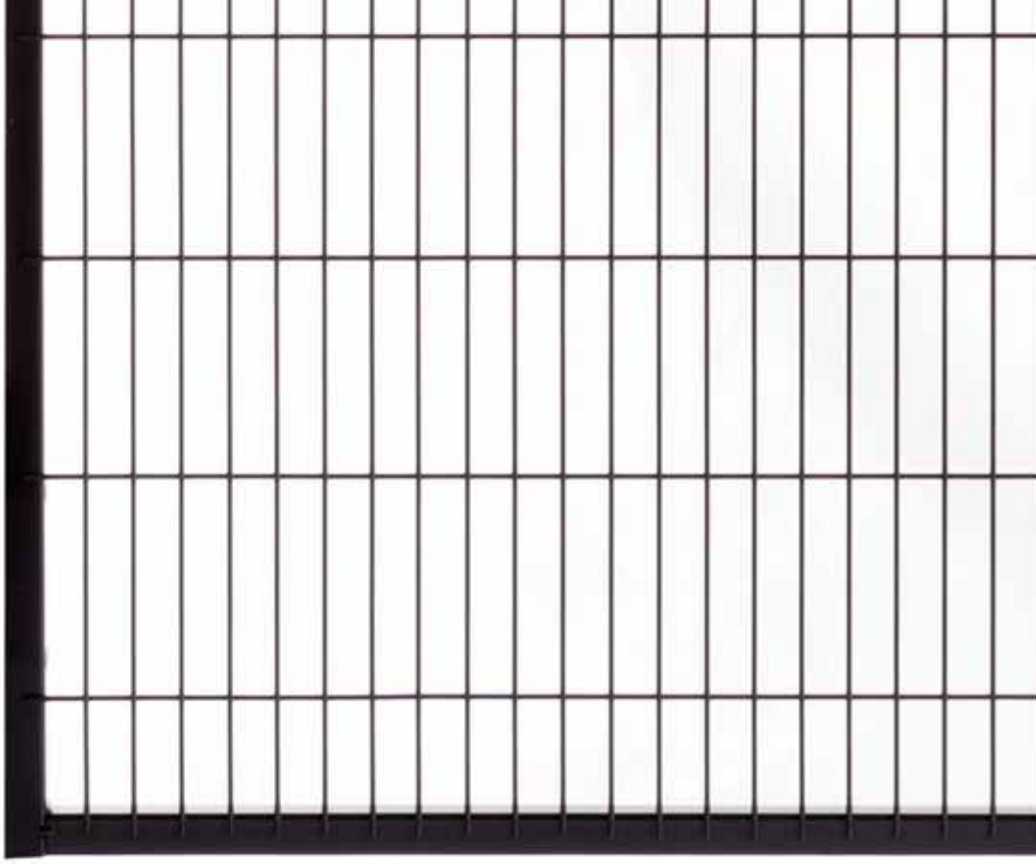
CUSTOMER LAYOUT



AUTOCAD DESIGN

3D VIEW





Satech **Systems**
to each his own

We manufacture and market different protection systems, each designed for specific needs. To receive complete documentation of our product lines, please contact us at:

info@satech.it

Manufacturing quality and **european standards**

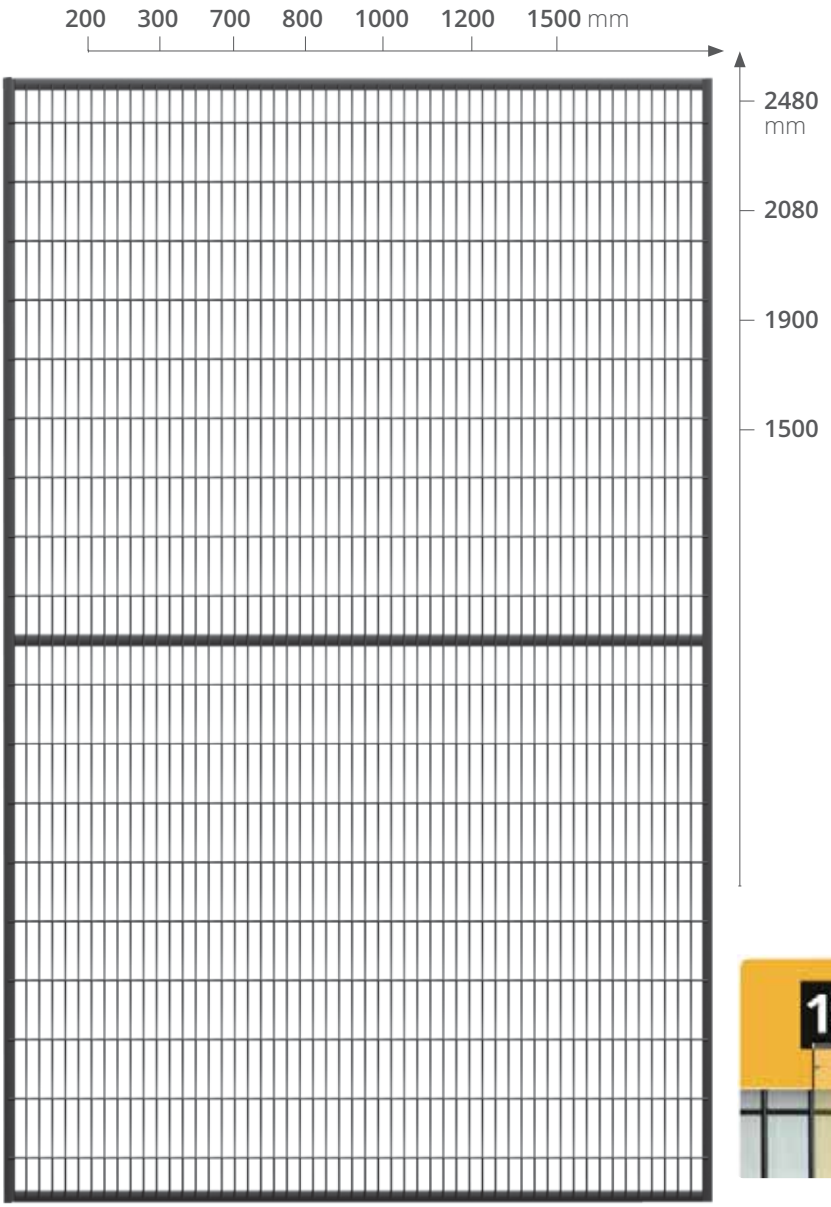
High quality materials and total control of the entire production flow

Each of our protection systems and mounting accessories is entirely **manufactured within Satech's plant** starting from raw materials. A huge stockholding of standard products and integrated logistics allow us to meet any type of request quickly. The high quality materials we use for our systems and fasteners ensure **maximum protection and durability**, adapting to the most critical conditions of use.

All Satech products are compliant to European and International Standards.

Framed panels

Easy to handle, robust, safe



Easy to handle

Light and robust

A resistant and light structure, Satech framed panel can be easily handled by one person

Ready to use

Plug and play versatility

The frame is drilled to allow assembly with screws and installation of brackets and accessories

Resistant

20 or 30 mm frame?

Satech panel is rigid and resistant, thanks to the welds along the entire frame and at each intersection of the wires. Depending on the mounting system, it is available with a 20 or 30 mm frame

FRAME mm **20**

FRAME mm **30**

Safety

EN ISO **13857**

A **19** mm slot width allows the installation of the fence only **120** mm from the danger zone

Anti-climbing

EN ISO **14120-5.18**

External vertical wires effectively prevent climbing

Visibility

EN ISO **14120-5.9**

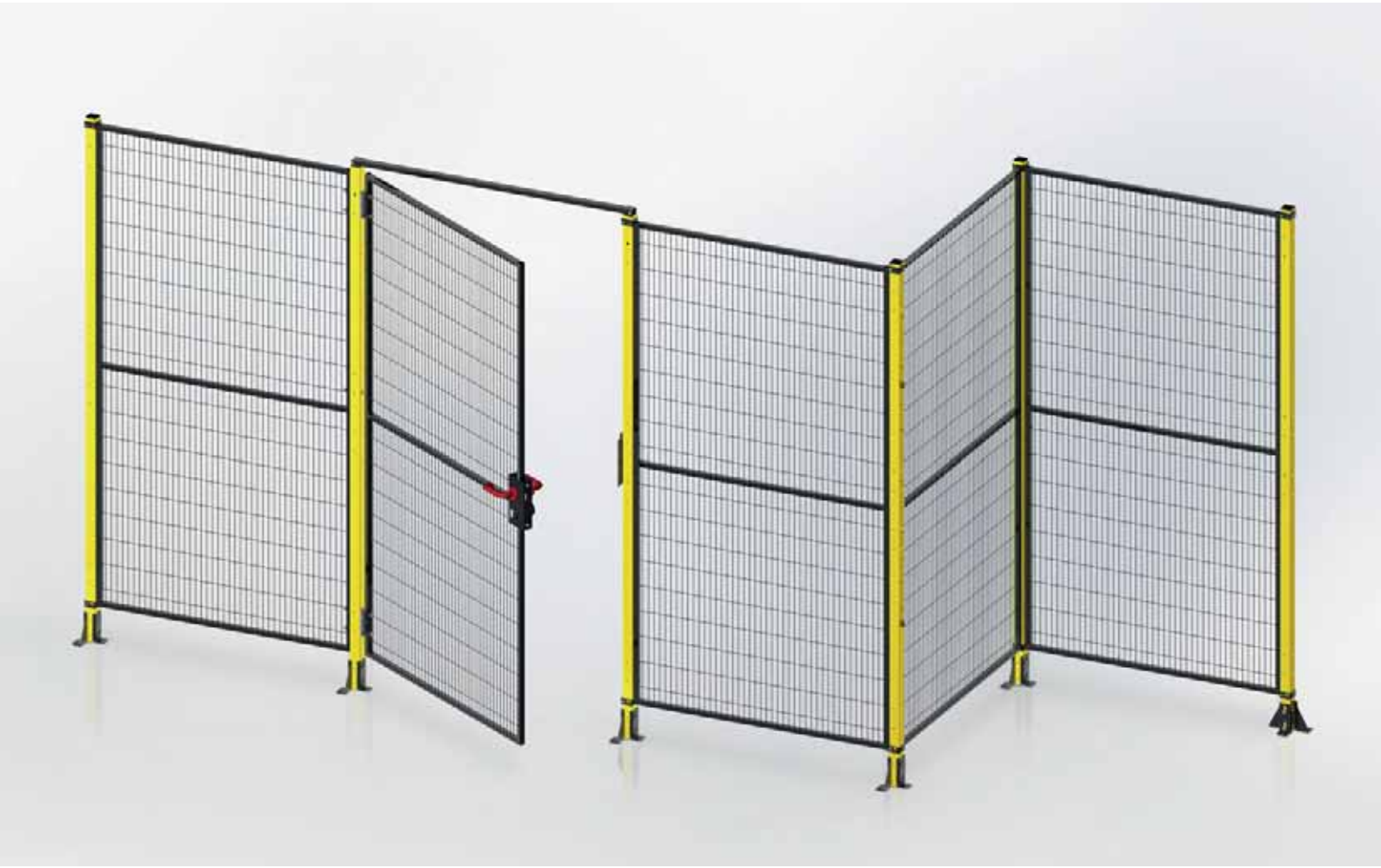
The vertical mesh slots ensure excellent visibility of the machinery

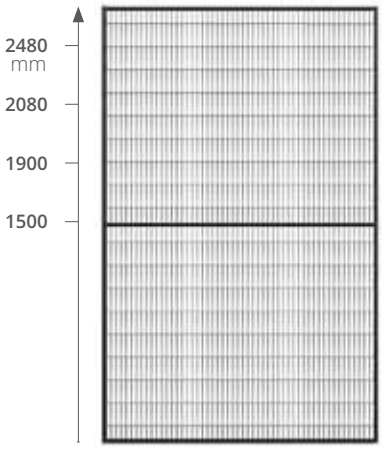
Series **BASIC**
Modular Machine Guards

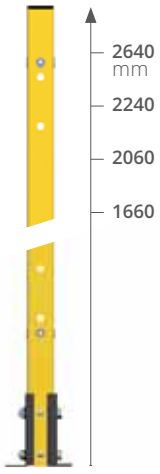
POST mm **40**

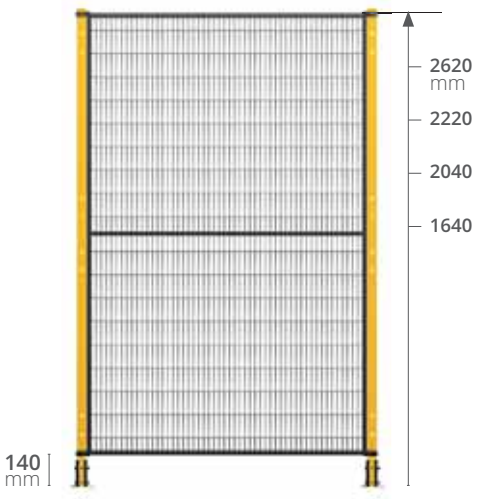
FRAME mm **20**

BASIC is the protection and accident prevention system consisting of **40x40 uprights** and **20x20 panels** with **20x20 frames**. It is the standard method used in all guards for plant and machinery.









Panels

Frame: 20 x 20 mm
Mesh: 22 x 100 x 3 mm
Heights: 1500, 1900, 2080, 2480 mm
Bases: 200, 300, 700, 800, 1000, 1200,1500 mm

Posts

Section: 40 x 40 mm
Baseplates: assembled, with 3 or 4 anchoring points or welded (as an option)
Heights: 1660, 2060, 2240, 2640 mm

Overall protection height: **1640** ~ **2620** mm

Painting:
Powder (for indoor use only)

Colours:

RAL 9005 RAL 1021 RAL 7035 SPECIAL COLOURS

Practical

BASIC is easy to be assembled with a patented clamp or with nuts and bolts as an option

The **Patented Clamp** allows easy reinstallation of the guard after it has been removed for non-routine maintenance

EN ISO 14120 6.4.4.1 b.

BASIC system can also be assembled with **traditional/captive nuts and bolts**

NEW

CLAMP SPACER

The convenient spacer for a quick and correct placement of the lower clamp according to the current Regulation for minimum floor clearance **EN ISO 13857**

Captive Retained fastenings

Both fastening systems feature a captive fastener according to **EN ISO 14120** and **2006/42/EC** - Machinery Directive

Versatile

ASSEMBLED OR WELDED BASEPLATE
BASIC system posts are available with adjustable assembled baseplate or welded baseplate as an option

Impact test **EN ISO 14120**

BASIC system assembled with nuts and bolts has passed the severe dynamic resistance tests according to the procedure contained in **EN ISO 14120** Standard (Hard body / Pendulum Test) up to **1600J**

CUTTING KIT
provides a quick and easy adaptation of the panels and allows the adjustment of the guard perimeter on site

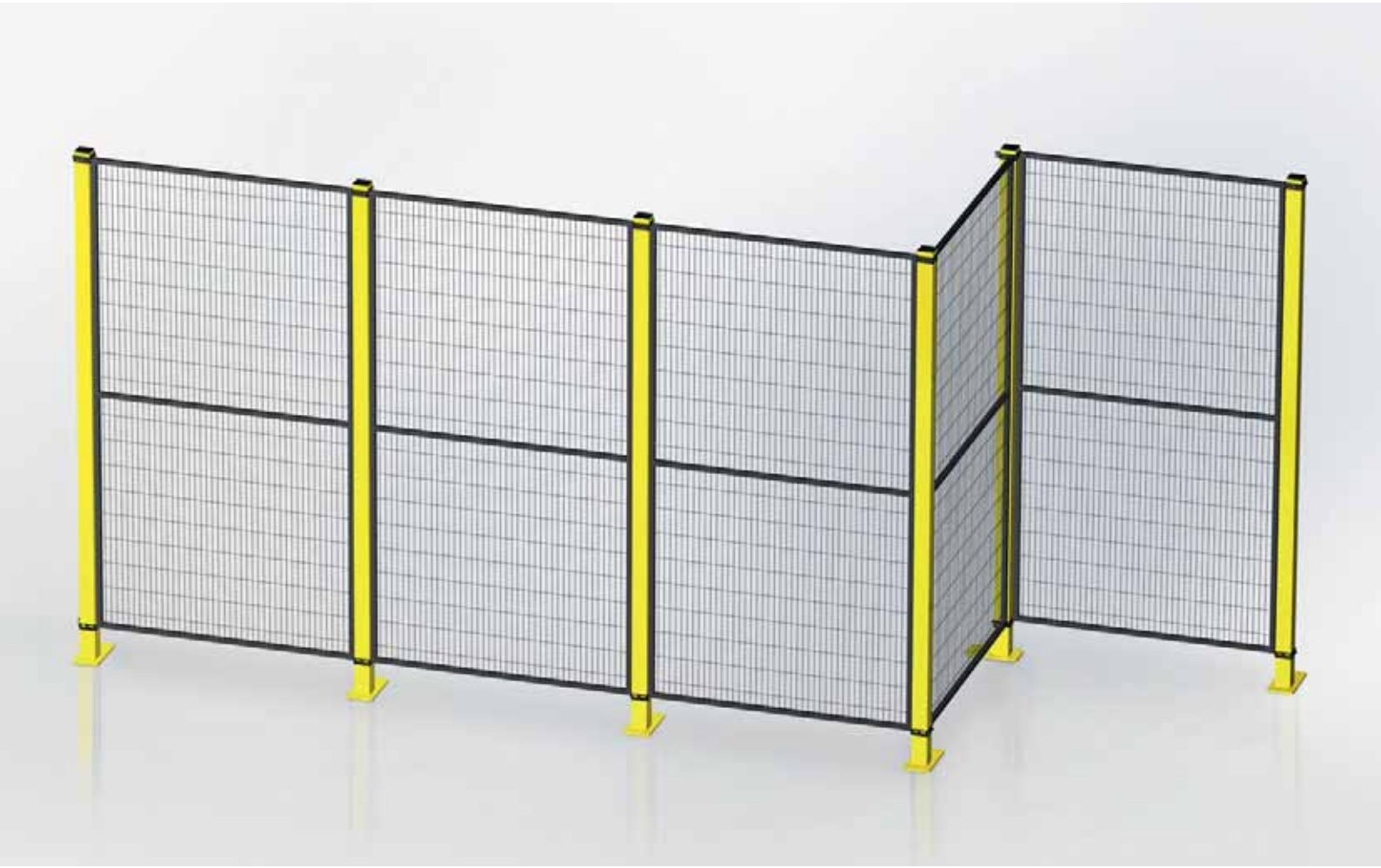
ISO Compliance

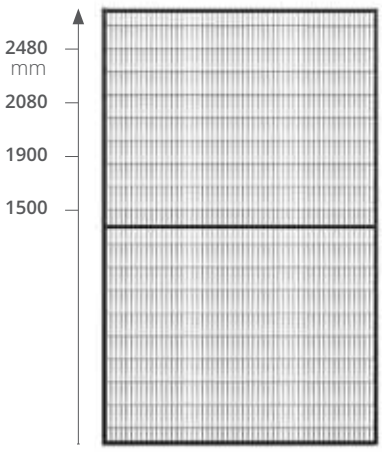
BASIC complies with the following EUROPEAN and INTERNATIONAL STANDARDS: **EN ISO 14120; EN ISO 13857; EN ISO 14119; EN ISO 10218-2**

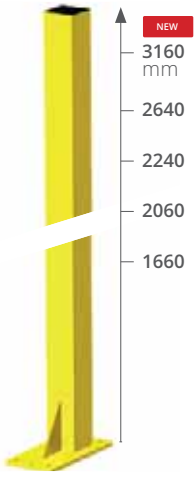
Series **STRONG** and HEAVY
Modular Machine Guards

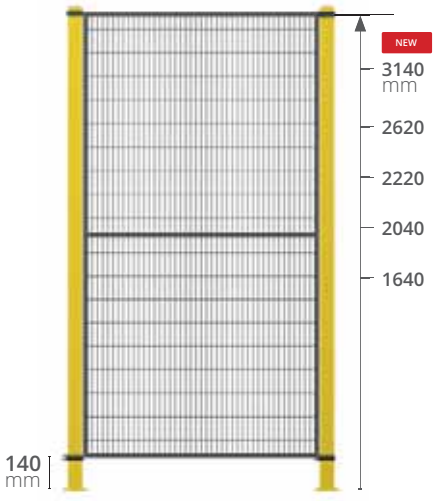
POST mm **60** | FRAME mm **20** | FRAME mm **30**
STRONG | HEAVY

STRONG is the protection and accident prevention system consisting of **60x60 mm posts and 20x20 mm framed panels** (or **30x30 mm** for the **HEAVY** variant), designed for heavier applications.









Panels
Frame: 20 x 20 / 30 x 30 (HEAVY) mm
Mesh: 22 x 100 x 3 mm
Heights: 1500, 1900, 2080, 2480 mm
Bases: 200, 300, 700, 800, 1000, 1200,1500 mm

Posts
Section: 60 x 60 mm
Baseplates: welded, with 4 anchoring points
Heights: 1660, 2060, 2240, 2640, 3160 mm

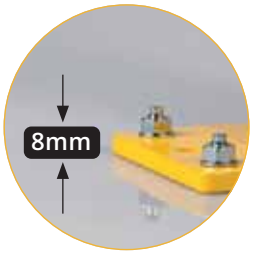
Overall protection height: **1640** ~ **3140** mm

Painting:
Powder (for indoor use only)

Colours:
RAL 9005 | RAL 1021 | RAL 7035 | SPECIAL COLOURS

Robust

High resistance steel Uprights – 60x60 mm with reinforcement ribs

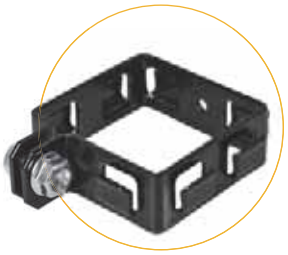


Generously-sized baseplates (100 x 200 x 8 mm) ensure maximum stability

The **30 mm frame HEAVY variant** ensures greater rigidity and impact resistance

FRAME mm **30**

Practical



The **Patented Clamp** allows easy reinstallation of the guard after it has been removed for non-routine maintenance

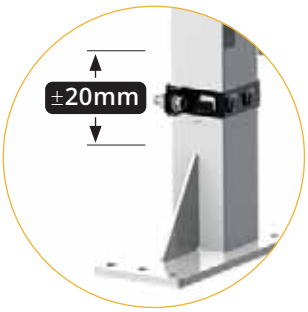
EN ISO 14120 6.4.4.1 b.

STRONG system can be assembled with **traditional/captive nuts and bolts** as an option

Captive Retained fastenings

Both fastening systems feature a captive fastener according to **EN ISO 14120** and **2006/42/EC** - Machinery Directive

Versatile



ADJUSTABLE HEIGHT to adapt the posts footing to the floor leveling variations

CUTTING KIT provides a quick and easy adaptation of the panels and allows the adjustment of the guard perimeter on site

Impact test **EN ISO 14120**

STRONG system assembled with nuts and bolts has passed the severe dynamic resistance tests according to the procedure contained in **EN ISO 14120** Standard (Hard body / Pendulum Test) up to **1600J**

ISO Compliance

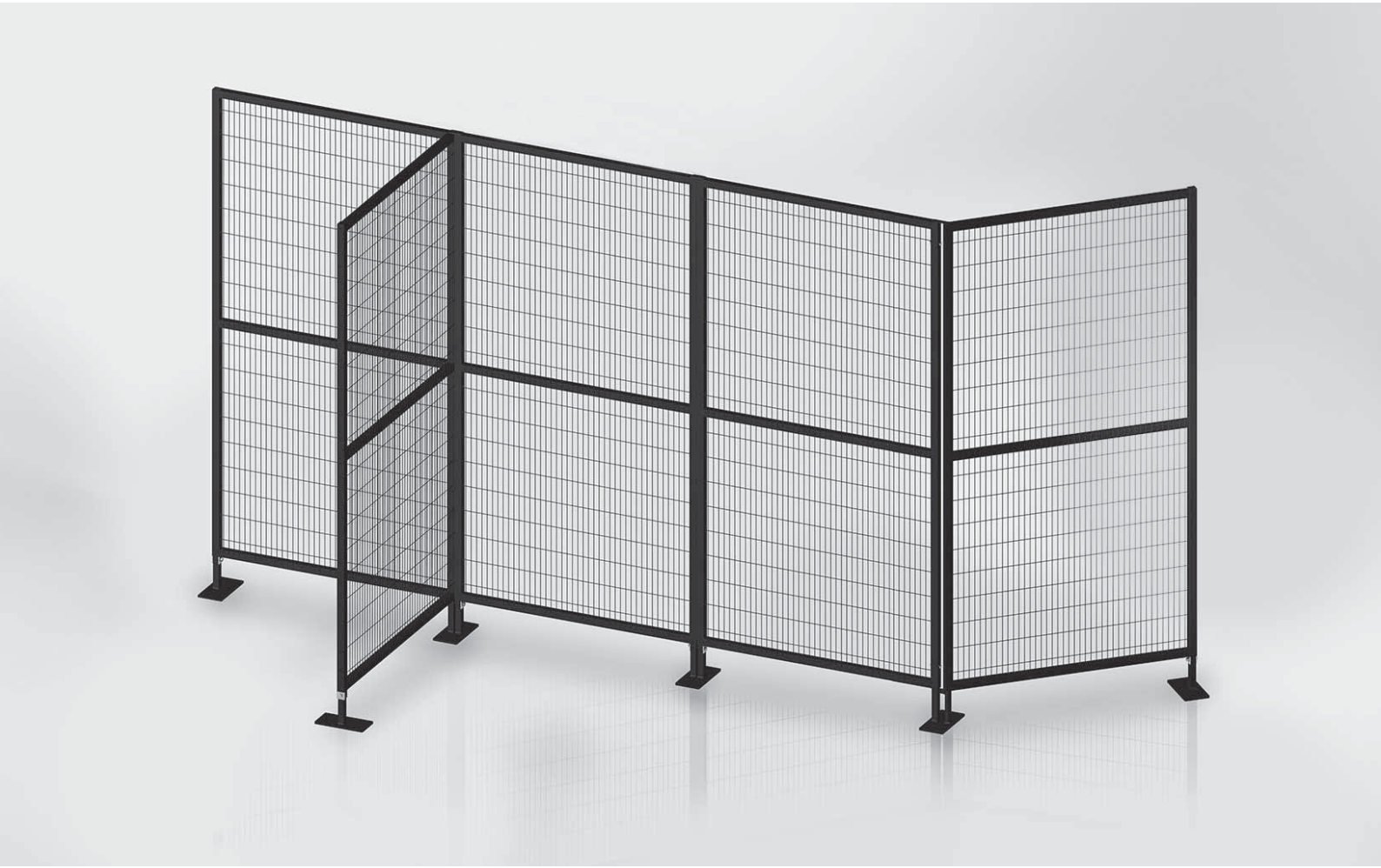
STRONG complies with the following EUROPEAN and INTERNATIONAL STANDARDS: **EN ISO 14120; EN ISO 13857; EN ISO 14119; EN ISO 10218-2**

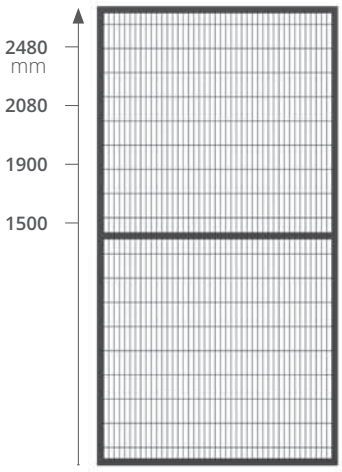
Fast**Guard** 30 and Fast**Guard** 20
Modular Machine Guards

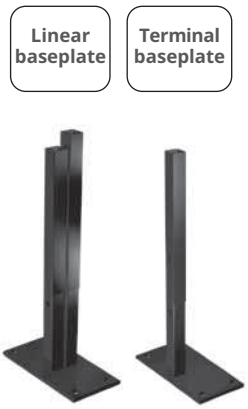
FRAME mm **30** Fast**Guard** 30

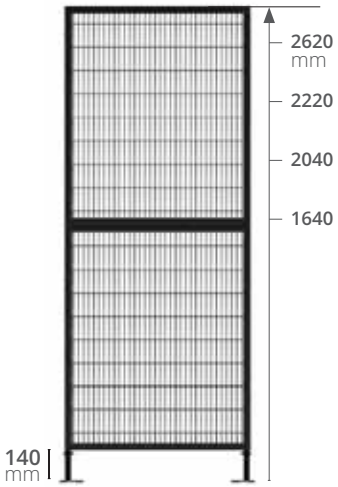
FRAME mm **20** Fast**Guard** 20

Fast**Guard** is the guarding system **without posts.** Designed for ultra-quick assembly, it features **30x30 mm** (Fast**Guard** 30) or **20x20 mm framed panels** (Fast**Guard** 20), self-supporting baseplates with locking forks and upper connections. Fast**Guard** ensures an easy and fast assembly while retaining full versatility of application.









Panels

Frame: 30 x 30 mm / 20 x 20
Mesh: 22 x 100 x 3 mm
Heights: 1500, 1900, 2080, 2480 mm
Bases: 200, 300, 700, 800, 1000, 1200, 1500 mm

Baseplates

Welded, with 4 anchoring points

Overall protection height: **1640** ~ **2620** mm

Painting:
Powder (for internal use only)

Colours: RAL 9005 RAL 1021 RAL 7035 SPECIAL COLOURS

Simple

Fast**Guard** combines simplicity with **assembly speed** and **resistance**. Panels are supported and kept in place by baseplates, while an upper connection keeps them aligned.

Baseplates

Special baseplates with locking forks and captive fastening system ensure both the connection to the ground and between the panels.

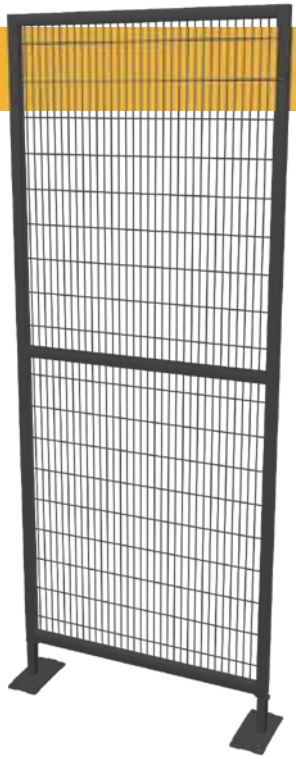
Upper connections

Depending on guard height, the upper connection between panels is provided either by an elastic shaped steel joint or by captive retained nuts and bolts.

Extra-Fast

The quick fastening of the elements can be carried out by a single operator.

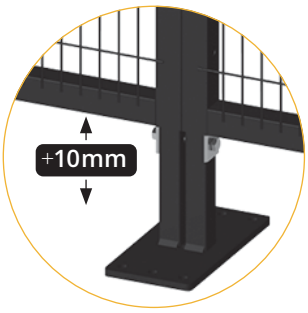
70% TIME SAVED compared to traditional systems



Captive Retained fastenings

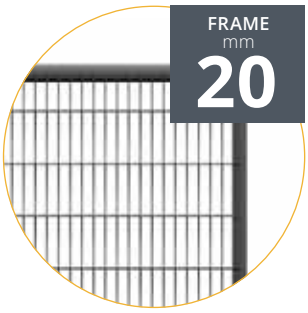
The fastening system features captive fasteners according to **EN ISO 14120** and **2006/42/EC** - Machinery Directive

Versatile



ADJUSTABLE HEIGHT

to adapt the guard footing to the floor leveling variations



MULTI-PURPOSE

Fast**Guard** 20 is the **20 mm frame** variant, ideal for partitioning purposes.

ISO Compliance

FastGuard complies with the following EUROPEAN and INTERNATIONAL STANDARDS: **EN ISO 14120; EN ISO 13857; EN ISO 14119; EN ISO 10218-2**

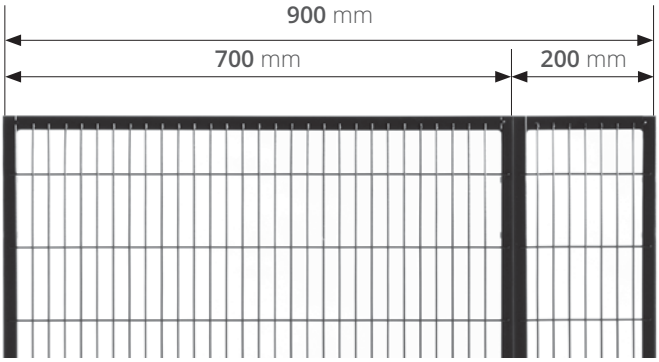
Panels

As well as the standard mesh, our framed panels can be made in different or mixed materials and shaped upon request

Satech **Modularity**

7 standard sizes, endless possibilities

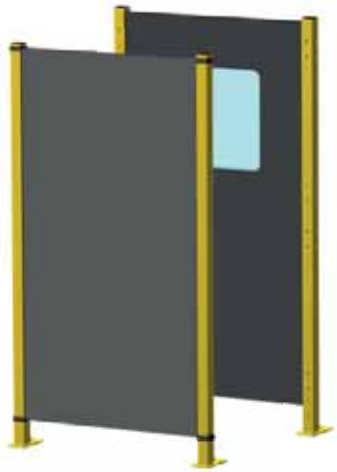
The modular composition of 7 standard widths allows you to obtain all the intermediate dimensions with a progression of only 100 mm.



Panels Composition

200	200	
300	300	
400	200	200
500	200	300
600	300	300
700	700	
800	800	
900	700	200
1000	1000	
1100	800	300
1200	1200	
1300	1000	300
1400	700	700
1500	1500	

Sheet Metal NEW



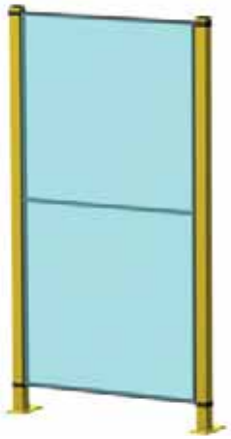
MATERIAL:

1,2 mm thick
metal sheet

ALSO AVAILABLE WITH VIEWING PORT FOR WELDING PROCESSES

Transparent Sheet

FRAME mm **30**

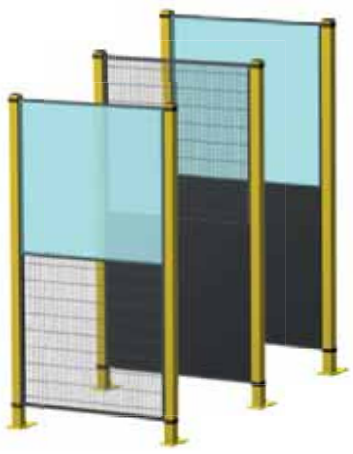


MATERIAL:

4 mm thick
transparent sheet

Mixed

FRAME mm **20** | FRAME mm **30**

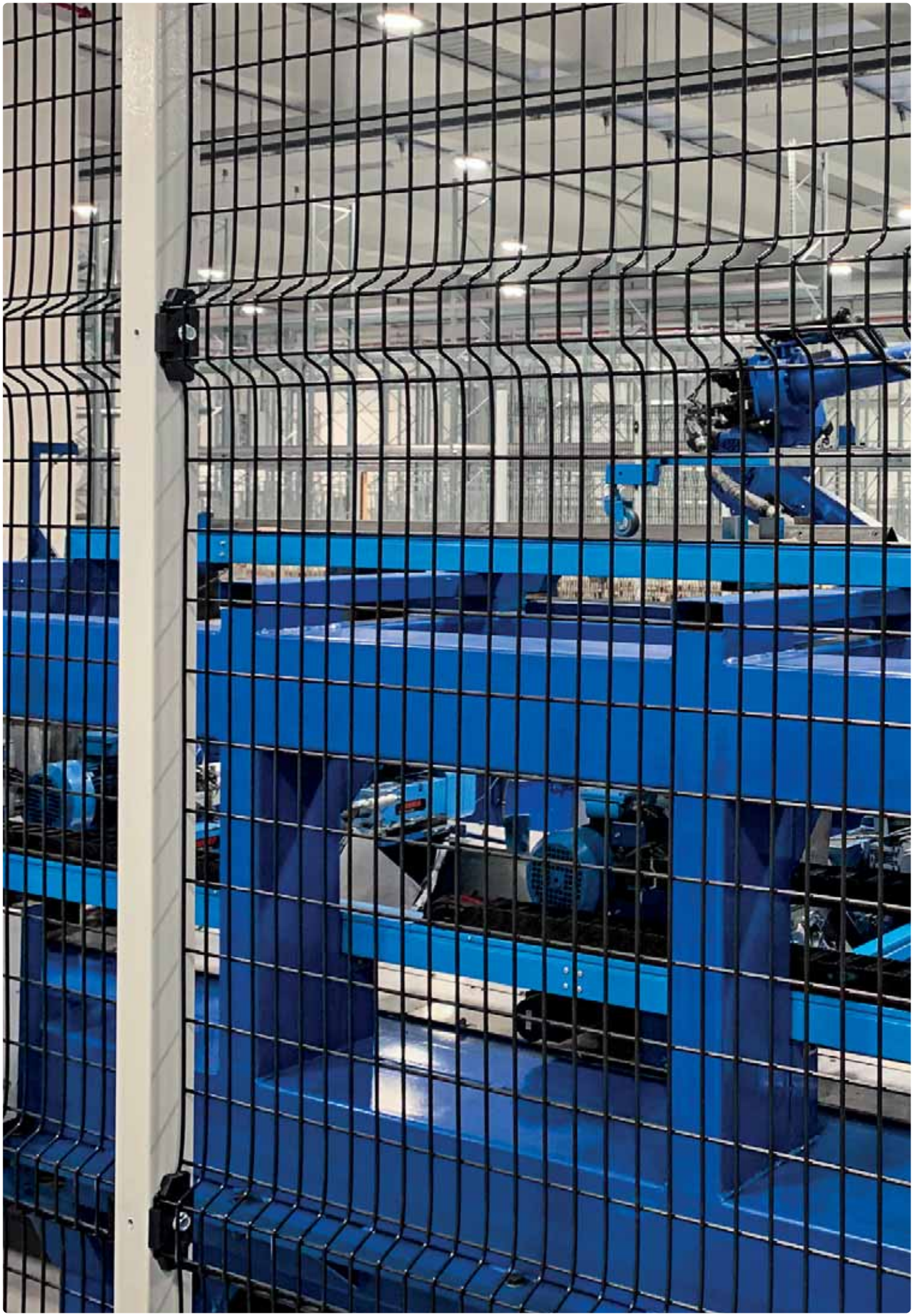


MATERIALS:

3 mm
drawn steel mesh

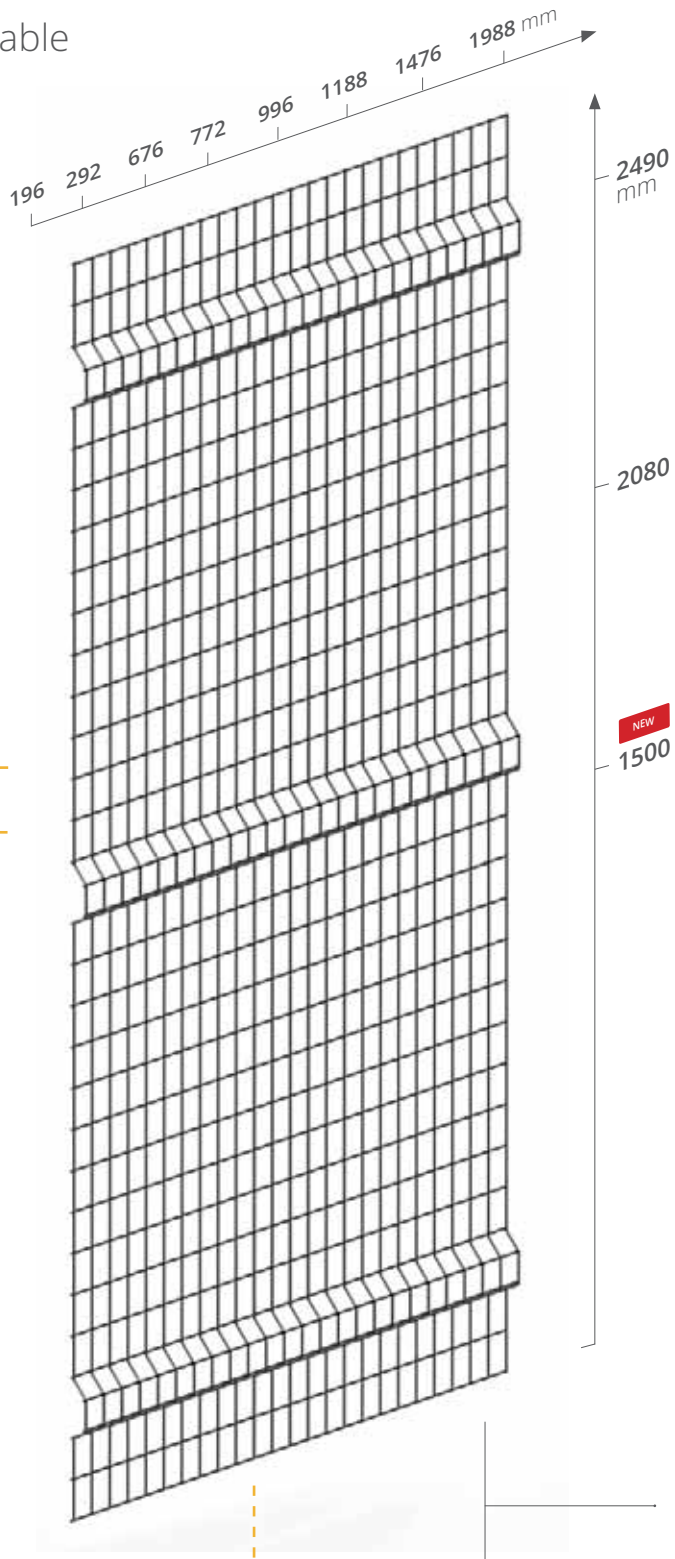
1,2 mm thick
metal sheet

4 mm thick
transparent sheet



Frameless panels

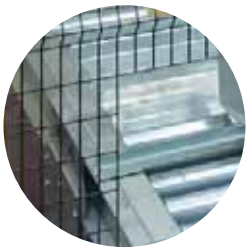
Versatile, resistant, adaptable



Easy to handle

Light and robust

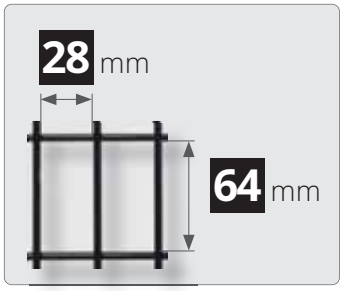
A resistant and light structure, Satech frameless panels can be easily handled by one person



Adaptable

Ready for all eventualities

In the event of unforeseen difficulties, the frameless construction allows panel sizes to be adjusted speedily on site



Safety

EN ISO **13857**

The slot dimensions of **28 x 64** mm allow the installation of the fence **200** mm from the danger zone

WIRE Ø mm **4**

Resistant

4 mm wire and reinforcement folds

Satech frameless panels are resistant, thanks to their transverse folds and their 4 mm steel wire shaped mesh

Visibility

EN ISO **14120-5.9**

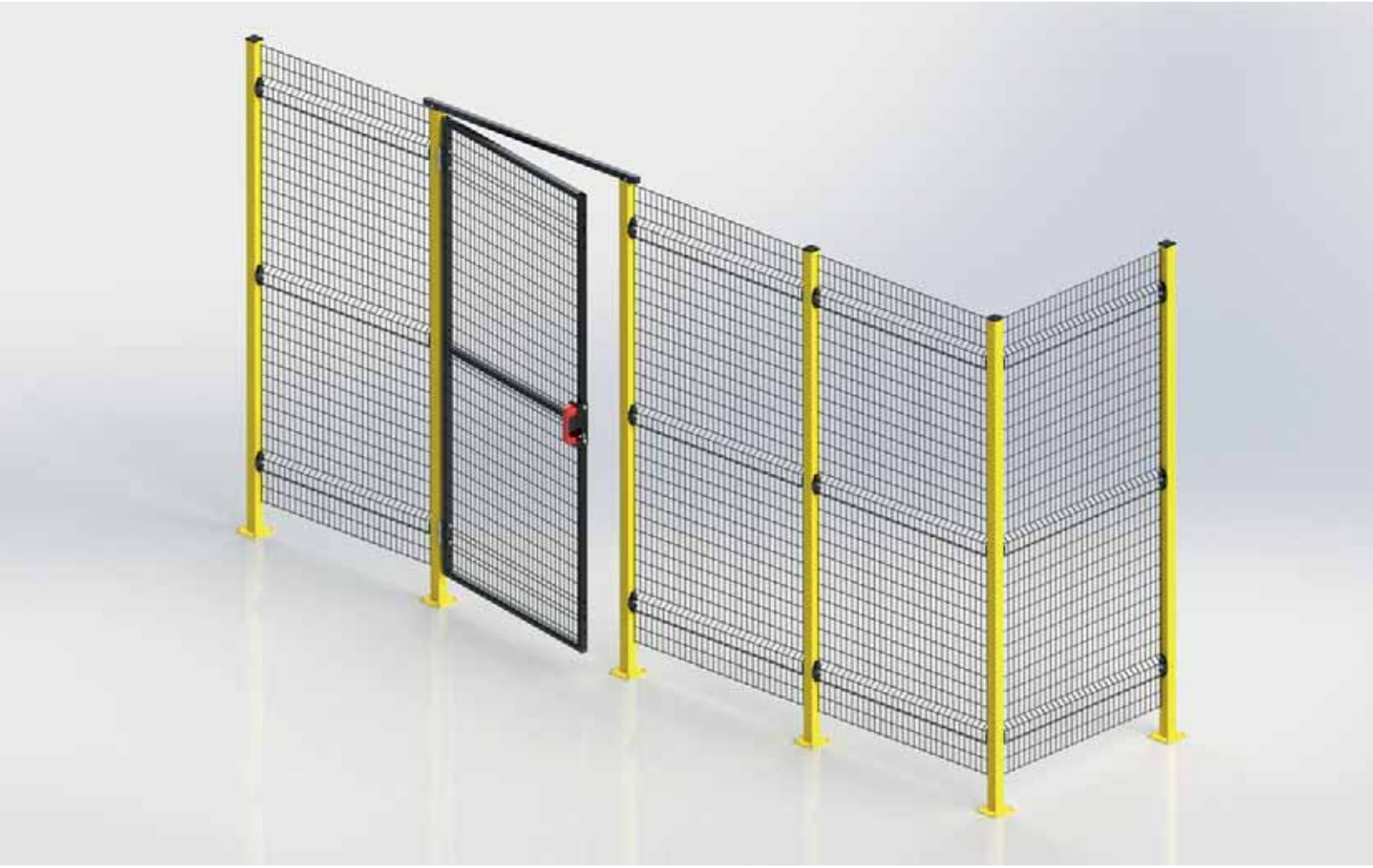
The vertical mesh slots ensure excellent visibility of the machinery

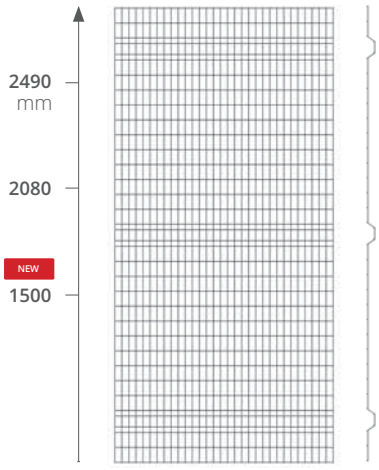
Adapta**Guard**
Modular Machine Guards

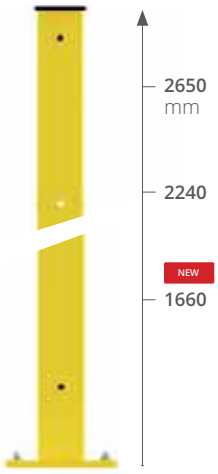
POST mm **50**

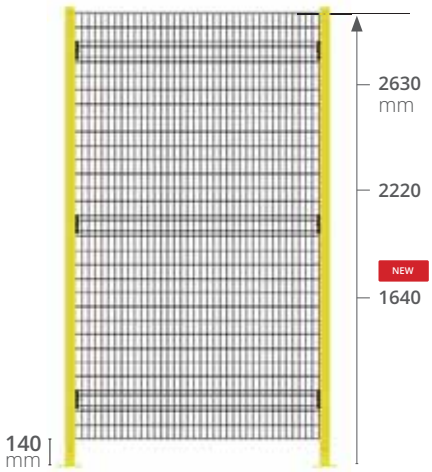
WIRE ∅ mm **4**

AdaptaGuard's fast and efficient installation is achieved by simple, easy-to-use connectors which fit securely to the uprights, while the layout can be easily configured to suit the machinery and available space.









Panels

Mesh: 32 x 68 x 4 mm
Heights: 1500, 2080, 2490 mm
Bases: 196, 292, 676, 772, 996, 1188, 1476, 1988 mm

Posts

Section: 50 x 50 mm
Baseplate: welded, 120 x 120 x 8 mm, with 4 anchoring points
Heights: 1660, 2240, 2650 mm

Overall protection height: **1640** - **2630** mm

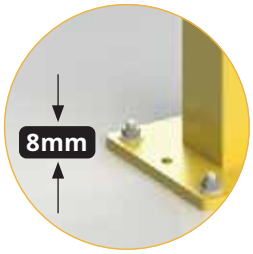
Painting:
Powder (for indoor use only)

Colours:
RAL 9005 RAL 1021 RAL 7035 SPECIAL COLOURS

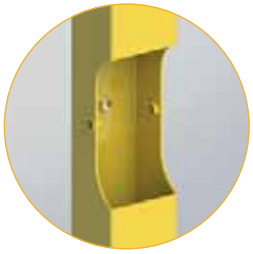
Robust

Wire – 4 mm drawn steel, high tensile strength

Greater stability is achieved by connecting the panels to the uprights at the position of the reinforcement ribs



High-thickness baseplates (120 x 120 x 8 mm) ensure maximum stability



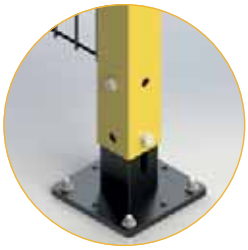
50 x 50 mm posts with "Flow Drill" holes allow a quick and easy mounting

Impact test **EN ISO 14120**

Adapta**Guard** has passed the severe dynamic resistance tests according to the procedure contained in **EN ISO 14120** Standard (Hard body / Pendulum Test) up to **1600J**

Practical

High-strength nylon-fibreglass fasteners are ergonomically shaped to facilitate quick and easy assembly of the system

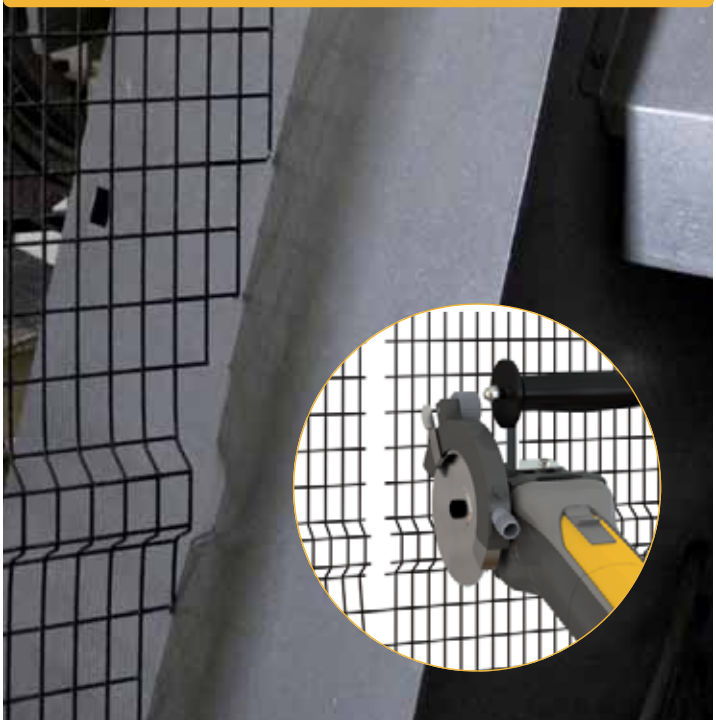


An adjustable baseplate (available **as an option**) allows to level the ground bearing of the posts to uneven floors

Captive Retained fastenings

The fastening system features a captive fastener according to **EN ISO 14120** and **2006/42/EC** - Machinery Directive

Adaptable



ISO Compliance

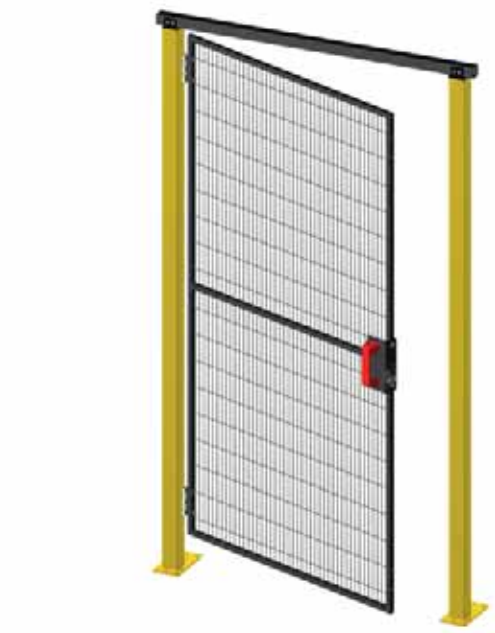
Adapta**Guard** complies with the following EUROPEAN and INTERNATIONAL STANDARDS: **EN ISO 14120; EN ISO 13857; EN ISO 14119; EN ISO 10218-2**

Doors

Hinged Doors

POST mm 40 | POST mm 50 | POST mm 60

Standard single leaf hinged door. The movement is achieved by means of two hinges and a door stop, which is provided with a new generation supermagnet.



AVAILABILITY:

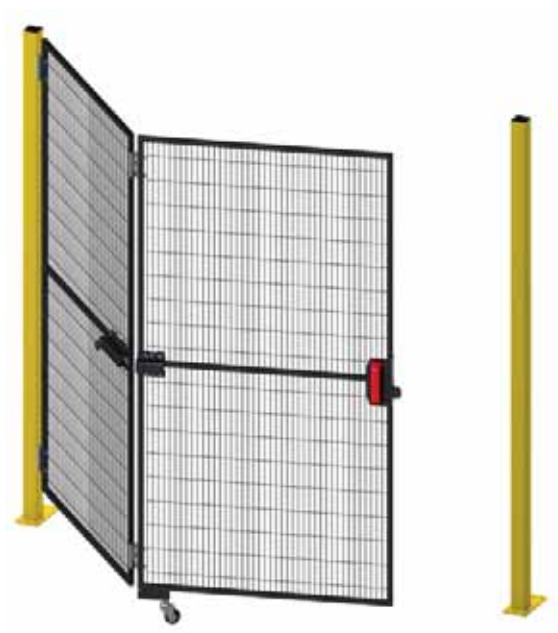
- SINGLE
- DOUBLE

OPENING:
from **700** to **3.000** mm

Folding Doors

POST mm 40 | POST mm 50 | POST mm 60

A folding-hinged door designed to reduce the dimension of the open door. Once the bolt is released, the two leaves fold over one another, reducing the overall size.



AVAILABILITY:

- SINGLE
- DOUBLE

OPENING:
from **1.400** to **6.000** mm

Door in a box

everything you need, in a box

Satech framed panels can be easily converted into doors, the panel becomes the door leaf, while the other components are supplied “all in a box”.

In Satech “Door in a box” you will find the hinges, the lock and a standard handle. Depending on how the hinges and the lock are mounted, the door can be right or left-handed.

The door can also be adapted to specific safety requirements, (i.e. with panic or interlocked locks).

Sliding Doors

With guides

POST mm 40 | POST mm 50 | POST mm 60

Sliding doors suspended on upper guides or with lower guides compatible with the pressure loads exerted by the forklift tires.

AVAILABILITY:

- SINGLE WITH UPPER GUIDE
- OPPOSED WITH UPPER GUIDE
- ALTERNATE WITH DOUBLE UPPER GUIDE
- DOUBLE ALTERNATE WITH DOUBLE UPPER GUIDE
- SINGLE WITH LOWER GUIDE
- OPPOSED WITH LOWER GUIDE

OPENING:
from **700** to **3.000** mm

With open passage

POST mm 40 | POST mm 50 | POST mm 60

Sliding doors with low-friction telescopic guides or with sliding panels suspended on robust structures. The absence of any upper or lower guide leaves the passage totally free.

AVAILABILITY:

- SINGLE WITH TELESCOPIC GUIDE TX
- OPPOSED WITH TELESCOPIC GUIDE TX
- SINGLE 2.0
- OPPOSED 2.0
- SINGLE 3.0
- OPPOSED 3.0

OPENING:
from **700** to **6.000** mm

Special Doors

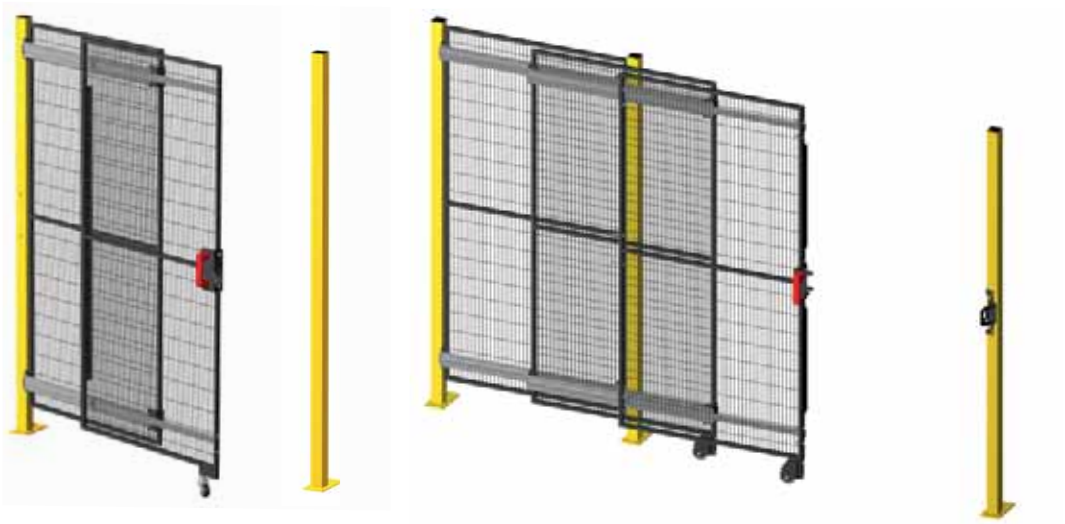
Horizontal, vertical, hybrid and up-and-over customized doors
manually operated, electric or pneumatic

Hybrid and multistage

Satech hybrid doors combine a rotation and a sliding movement of the panels. They are specifically designed for the plants where is required a large opening and a reduced overall dimension in open position.

The multistage doors are available in manual or pneumatic drive versions and are specifically designed for very large openings.

OPENING:
up to **15** mt (multistage)



Vertical and up-and-over

Powered **Doors**

Satech doors can be equipped with electromechanical or pneumatic motors

Stainless Steel Modular Solutions

Hygienic Design - in 4 steps

ECOLAB
Tested and Certified

1 **REDUCED CONTACT SURFACES**

Minimized metal-to-metal contact

2 **OPEN DESIGN**

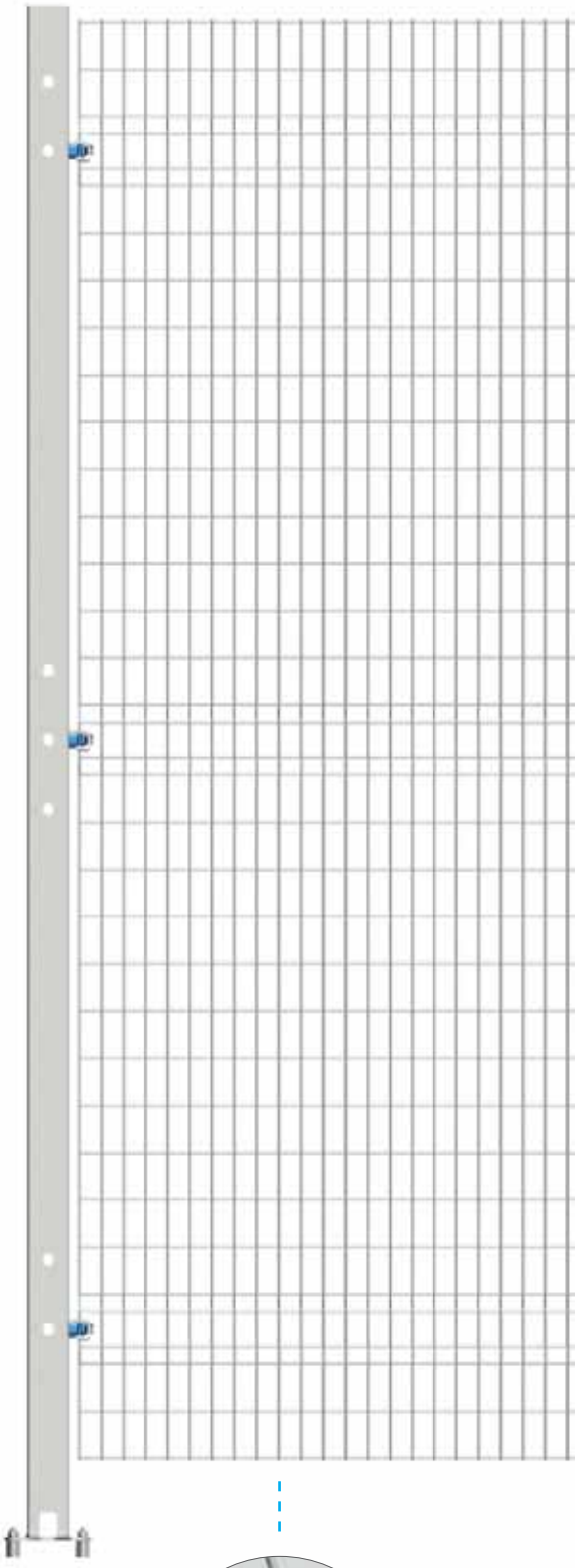
Alllows for full cleaning inspection and prevents the accumulation of dust and residue

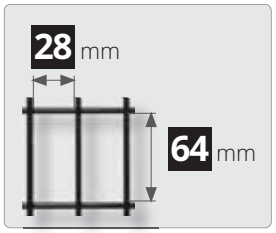
3 **INCLINED SURFACES** and **SPACERS**

To avoid liquids pooling and ease cleaning of surrounding areas

4 **TIG WELDING**

Maximum cavity reduction to ensure complete sealing of each joint





Safety

EN ISO **13857**

The slot dimensions of **28 x 64** mm allow the installation of the fence **200** mm from the danger zone

Visibility

EN ISO **14120-5.9**

The vertical mesh slots ensure excellent visibility of the machinery

WIRE Ø mm **4**

Resistant

4 mm wire and reinforcement folds

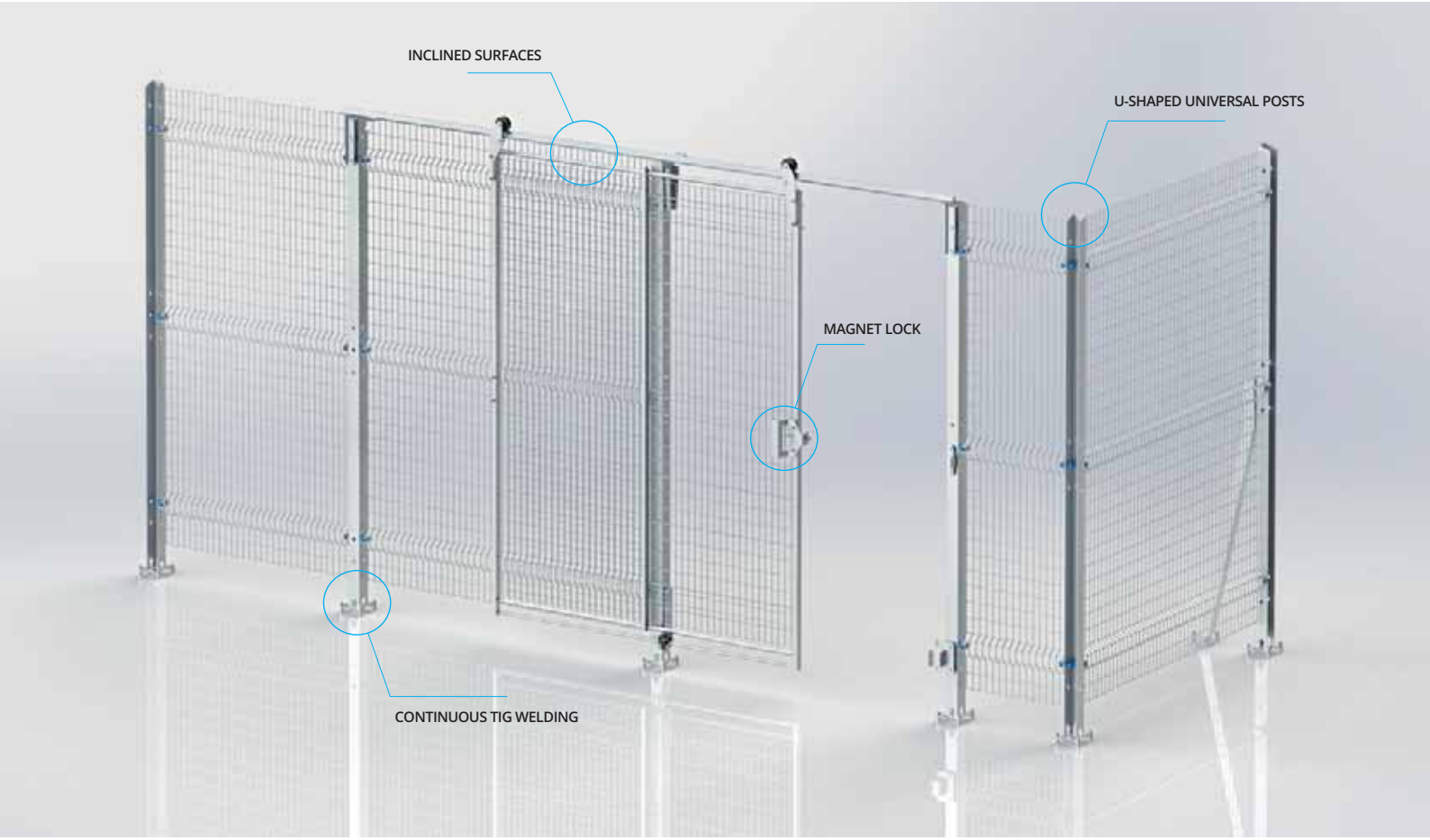
Satech frameless panels are resistant, thanks to their transverse folds and their 4 mm steel wire shaped mesh

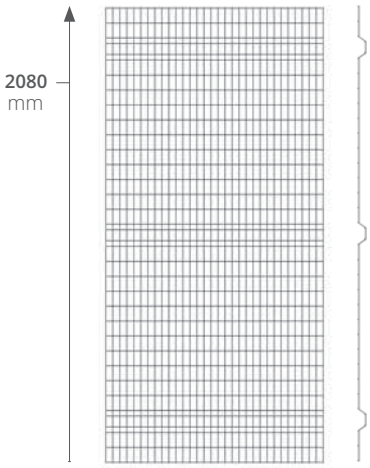
BlueGuard **hygienic** fencing
Modular Machine Guards

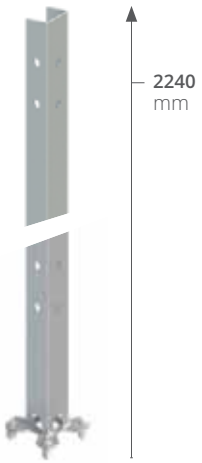
POST mm **60**

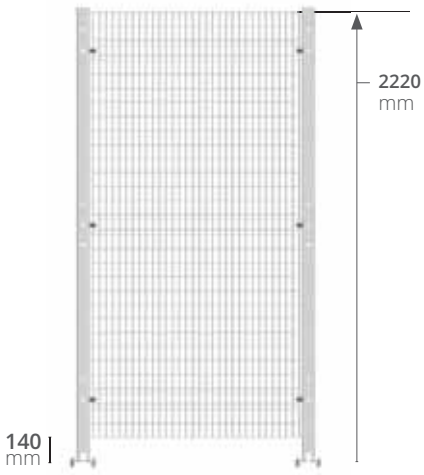
WIRE Ø mm **4**

The Stainless Steel Blue**Guard** modular system is the result of Satech's twenty-year experience. Blue**Guard** combines safety, flexibility and compliance with the high hygiene standards required by the agro-food, chemical and pharmaceutical markets.









Panels

Mesh: 32 x 68 x 4 mm
Height: 2080 mm
Bases: 484, 996, 1476, 1988 mm

Posts

Universal (for linear, corner or end mount) draining 60 x 60 mm U-shaped

Baseplate: continuous TIG welded with 4 anchoring points
Height: 2240 mm

Overall protection height: **2220** mm

Materials - Panels and Posts:
Passivated high quality Stainless STEEL AISI 304

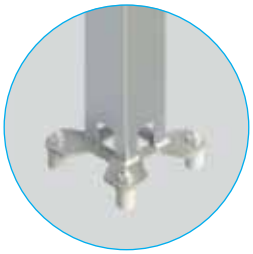
Materials - Technopolymer:
Food contact DOMAMID® 6G30FC

Robust

Wire – **4 mm** drawn steel, high tensile strength mesh, with reinforcement ribs

Passivated **AISI 304 Stainless Steel** and techno-polymer to ensure great resistance to high-pressure water jets

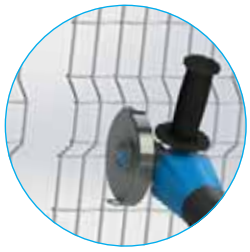
Greater stability is achieved by connecting the panels to the posts at the position of the reinforcement ribs



60 x 60 mm posts and baseplates with 4 anchoring points ensure further resistance and stability

Practical

2-components pre-assembled quick **Captive Retained** fastenings



Frameless construction allows panel sizes to be adjusted quickly on-site

Captive Retained fastenings

The fastening system features a captive fastener according to **EN ISO 14120** and **2006/42/EC** - Machinery Directive

Doors and Accessories

Blue**Guard** can be completed with the following doors and accessories:

DOORS

- **Hinged door, single and double** (openings: 800 & 1000 mm, 1600 & 2000 mm)
- **Single upper guide sliding door** (openings: 1500 & 2000 mm)

ACCESSORIES

- Wind Bracing
- Variable angle kit
- Safety Switch brackets

ISO Compliance

Blue**Guard** complies with the following EUROPEAN and INTERNATIONAL STANDARDS: **EN ISO 14120; EN ISO 13857; EN ISO 10218-2; EN 1672-2; EN ISO 14159**

Locks

Satech doors can be completed with a choice of over 150 locks and programmable electronic locking systems

MECHANICAL

Simplicity and functionality

Padlockable bolt locks, key locks with fixed knob or handle, panic lock with push-pad or emergency panic bar, Satech mechanical locks are made with **superior quality components** and integrate perfectly with our panels.

MECHANICAL with integrated Safety Switch

SATECH
Modular Machine Guards

D-Fence**Lock: durability and reliability**

Satech D-Fence**Lock** with integrated Safety Switch is **entirely made of metal** for greater robustness and durability in harsh environments. The Safety Switch actuator is kept in position by a **self-centering system** which ensures maximum operational precision. Its **panic release** allows the emergency opening from inside and a **padlockable hold-open device** prevents accidental lockups by unauthorized personnel. The mounting bracket with **integrated handle and anti-effraction plate** allows direct mounting on both the hinged and the sliding doors panels.

INTERLOCKED

Maximum protection for operators and processes

The interlocked locks activate a machine stop command in case of door opening. This **prevents the start of the dangerous machinery functions** until the door is closed and / or the restart control is restored.
We partner with leading manufacturers to provide you with the most suitable solutions based on your risk analysis.

Accessories

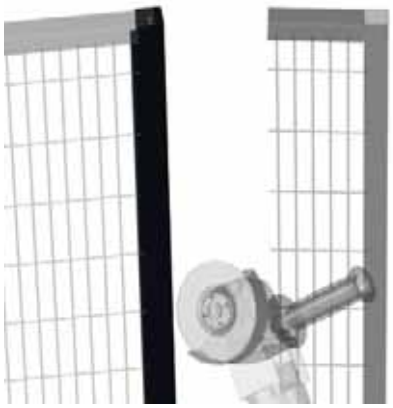
A full range of accessories ensures maximum versatility and customization options

MICROSWITCHES AND DEDICATED BRACKETS

Microswitches, mounting brackets specific for all the locks and electric locks brands, customized brackets

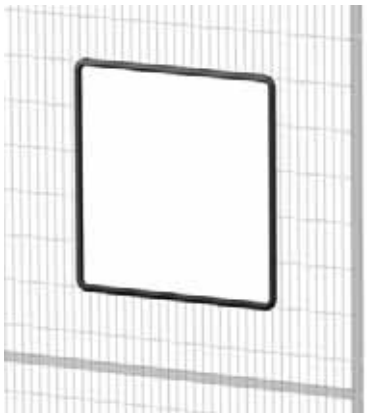
COMPLEMENTARY FITTINGS

Cutting kits, inserts with door, cable ducts, bracings, backplates for ground fixing, leveling shims, mounting accessories



FINISHINGS

Rubber profiles, fixed and adjustable angular joints, fixing plates for warnings, anti-tampering devices for doors and locks



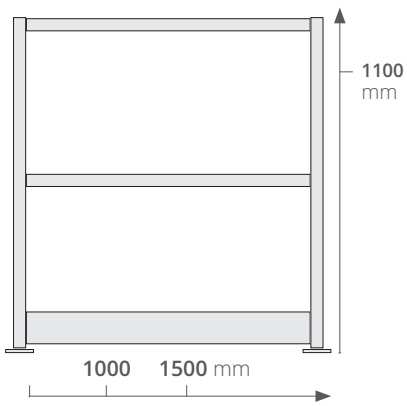
Body**Guard**
Fall Prevention System

TUBES mm **40**

THICKNESS mm **2**

BODYGUARD is the modular protection system used to prevent personnel falling from galleries and elevated areas or to delimit walkways on the ground. Consisting of **two horizontal tubes and a kick plate** it is assembled with self-centering and self-locking mounting brackets, it is provided with front anchorage for galleries or floor anchorage with baseplate. **BODYGUARD** can be totally disassembled and it is manufactured in compliance to the international standard **EN ISO 14122-3.**

Overall Protection Height: **1100** mm



Anchorage

FLOOR ANCHORAGE WITH BASEPLATE

FRONT ANCHORAGE WITH BOLTS

RAL 1021 SPECIAL COLOURS

Versatile

Practical

Modular

Customized
Production

Panels, doors and accessories made following the client's design in both standard and custom colors

Beside the standard production, we **design and manufacture customized solutions** for every need: panels with **special dimensions and shapes**, viewing ports for inspection or sampling control, manual, electric and pneumatic operated **vertical and up-and-over doors**, support brackets for accessories and safety switches. The guards can also be personalized with the color that best suits your environment.

Pre-assembly Service

Pre-assembly of doors, handles, panels, electrical pre-wiring and verification tests

We can pre-assemble doors, panels, locks, handles, safety switches and the on-board electronics of your guarding system.

These components are delivered **ready to be installed**, allowing you to achieve **significant time savings** for your installers.

After sales service and support

All the assistance you need for the installation of your perimeter guard

EDUCATION PROGRAMME FOR INSTALLERS

Training and support of the assembly operatives are fundamental. The educational plan for the installers of our protection systems consists of **a theoretical stage in our Training Centre and some practical assembly tests** of the most significant components (doors, safety switches, locks). Beside the assembly instructions, the orders are always supplied with the **PDF-3D files** of the layouts.

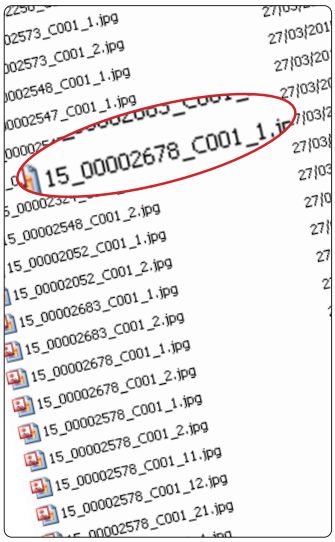
ASSEMBLY AND INSTALLATION SERVICE

Our network of professional installers can **assemble your perimeter guards worldwide**. Our **mounting experts are trained at Satech Technical Centre**, which is equipped with the full range of products for full-scale assembly.

Stock
and **shipping**

Maximum care in packing
and photographic documentation of shipments

Our **vertical** packing system allows for the **optimization of shipments and the containment of their cost**. Each pallet is **meticulously packed** by experienced staff. All the components are secured and protected so that nothing can move or get damaged during the shipment. Satech's management software also integrates a **traceable control system for shipments**. Two high-resolution cameras generate a **photographic documentation of the pallets linking the images to the order codes**, so that they are available at any time.



Customer **Care**

Information, order status and shipping, administrative documents: we are at your side, at all times.

Our goal is to build **reliable relationships** that last over time like our products do.
Every client can rely on a personal assistant who provides **product brochures, real-time updates on order status and shipping, administrative documents and advice on the products or on the maintenance** of our perimeter guards.

Modular Machine Guards that fit your needs.

Tailor-made solutions for the safety of operators and machinery

Protecting workers and machinery is paramount to create a safe and productive work environment. Satech Modular Machine Guards Systems, Doors and Accessories provide tailor-made solutions for any machinery layout need.
3 framed Systems, 2 frameless Systems and **more than 150 Locks/Interlocks** ensure the maximum level of protection (PL) when accessing hazard areas for inspection or machinery maintenance.

Perimeter Protection Machine Safety Guards compliant with European and International Standards

Satech Machine Guards are manufactured in compliance with the **EN ISO 14120** standard, "General requirements for the design and construction of fixed and movable guards". They can be installed at a minimum distance of **120 mm from hazard** (as for EN ISO 13857), saving you plenty of layout space.

All Satech products are manufactured with **quality materials** and are highly durable. Mesh panels and other panel solutions can be easily and rapidly connected to posts (with captive retained fastenings, as for 2006/42/CE - Machinery Directive), which allows you to greatly **reduce assembly time**.

Founded in 2000, Satech was the first Italian Perimeter Guards Manufacturer. A **modern international company** today, in our 20+ years of work we have taken care of the safety of thousands of automated machinery systems and of millions of people worldwide. A **Safe** Factory is a **Productive** One.

Need a quotation?

QUICK Contact

If you're looking for a **free, no-obligation quote**, just go to

www.satech.it/en

SATECH
Modular **Machine Guards**

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