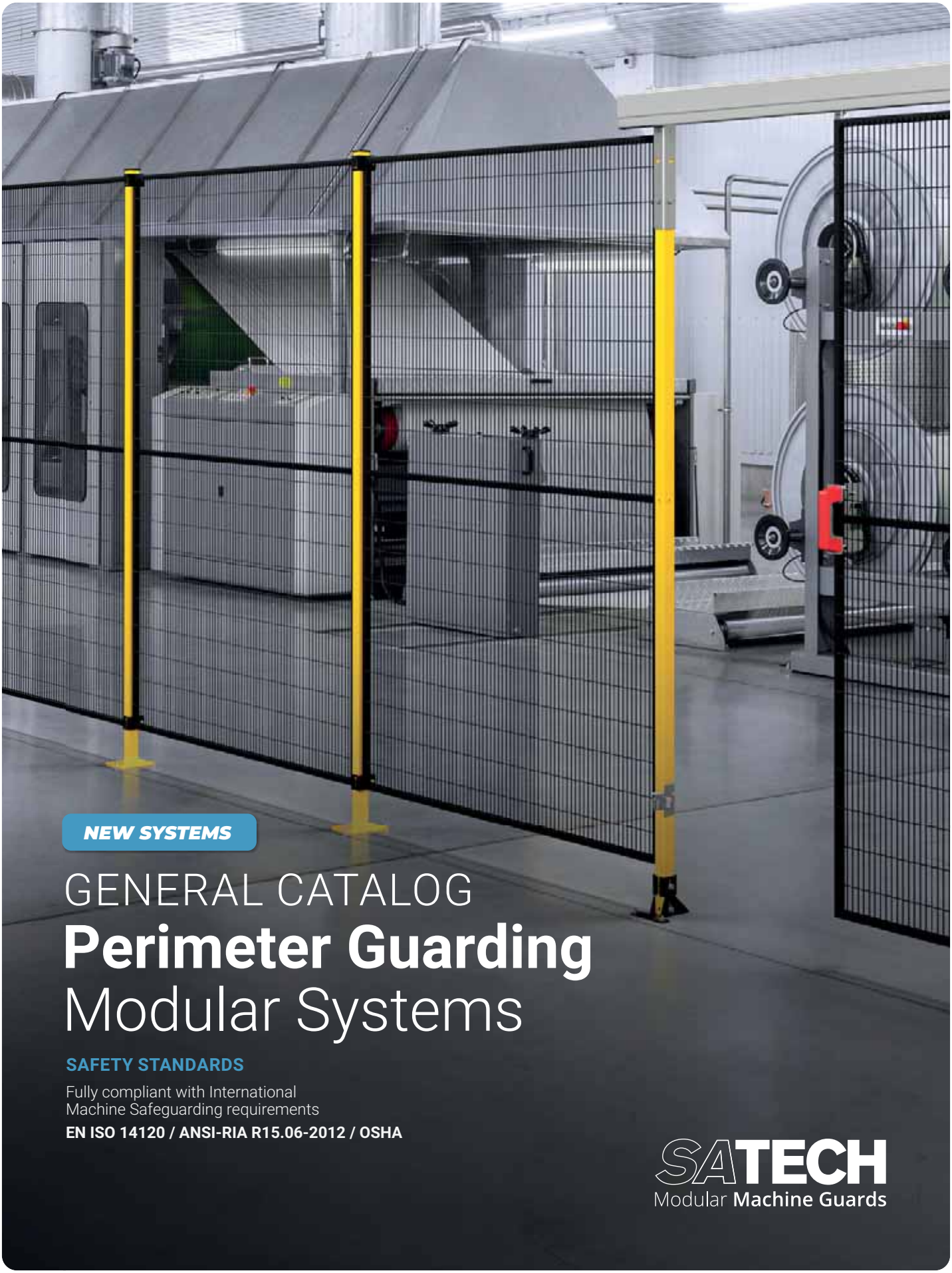


NEW SYSTEMS

GENERAL CATALOG
Perimeter Guarding
Modular Systems

SAFETY STANDARDS

Fully compliant with International
Machine Safeguarding requirements

EN ISO 14120 / ANSI-RIA R15.06-2012 / OSHA

SATECH
Modular Machine Guards

Working environment **safety**? An important matter.

EU and international directives establish the obligation to protect machinery with fences complying with specific construction and safety distance requirements. **Without these Guards, it is not possible for machinery to operate.**

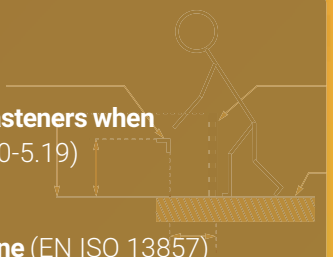
For example, perimeter Guarding must:

Be designed and built so as to prevent climbing (EN ISO 14120-5.18)

Ensure adequate viewing of production processes (EN ISO 14120-5.2.4)

Be equipped with retained fasteners when disassembled (EN ISO 14120-5.19)

Be placed at a specific distance from the danger zone (EN ISO 13857)



EN ISO 14120

General requirements for the design and construction of fixed and movable Guards - excerpts

5.2.5.3 - Operating force
Movable Guards or removable sections of Guards shall be designed to permit ease of operation. The observance of ergonomic principles (...) contributes to increasing safety by reducing stress and physical effort of the operator.

5.3.9 - Removal
Demountable fixed parts of Guards shall only be removable with the use of a tool. Fixed Guards shall be designed to prevent easy removal.

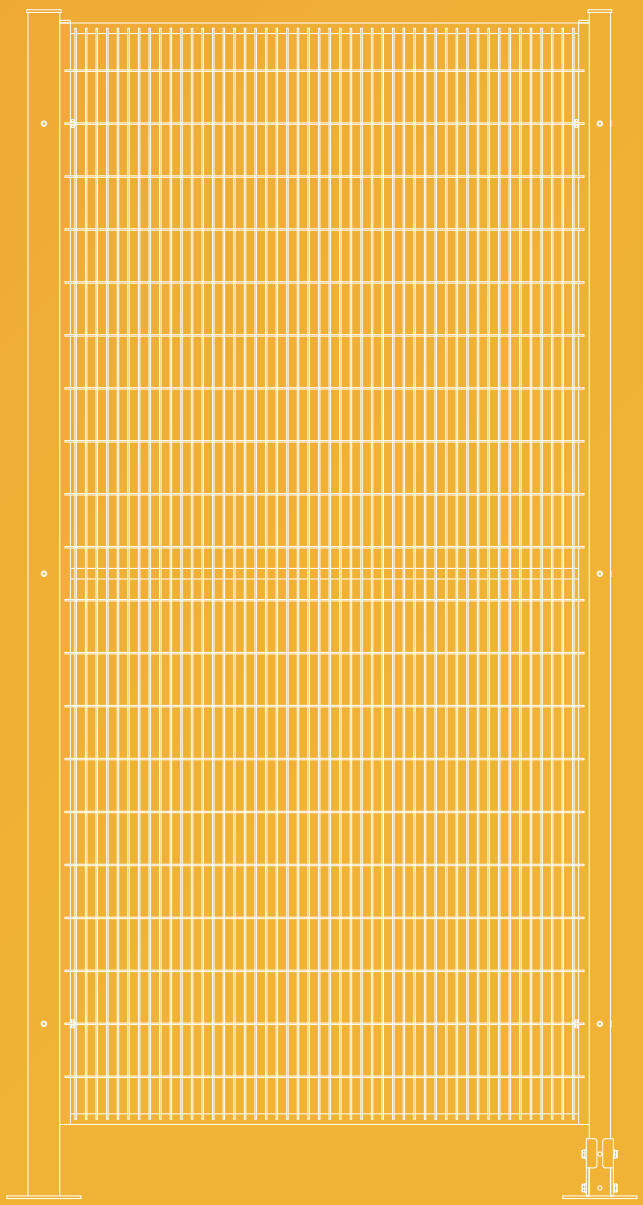
5.4.2 - Impact
Guards shall, as far as practicable, be designed and the material selected to withstand and contain reasonably foreseeable impacts and ejections.

5.23 - Appearance
Guards shall be designed so that they do not add adverse physiological and psychological effects.

5.16 - Noise reduction
Where necessary, materials shall be selected to provide noise and vibration reduction and (...) minimize effects of resonance which can transmit or amplify noise.

5.4.3 - Rigidity
(...) Guard frames (...) and infill materials shall be selected and arranged to provide a rigid and stable structure and to resist deformation.

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



The Modular Machine Guarding Solution **tailored to your need**.

Research, development, design, manufacturing, logistics and customer service: since 2000, Satech has been the **reference for industrial workplace safety**.

EN ISO 14120 - ANSI/RIA R15.06
Machine Guards Systems

Satech is the first Italian manufacturer of Modular Machine Guards Systems. A **modern international company** today, in its 20+ years of work it has contributed to the **safety** of thousands of automated machinery systems for the protection of millions of people worldwide.

40 Countries
Served in 5 continents

15,000+
Our customers in the world

20,000+
Projects developed every year

usamachineguards.com

SATECH
Modular **Machine Guards**

EN ISO 14120 - ANSI/RIA R15.06
Machine Guards Systems

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GLOBAL DISTRIBUTION AND OFFER AVAILABILITY:

Satech Solutions are distributed in over 40 Countries worldwide, locally.

Systems composition, product availability and technical specifications might vary depending on your geographic area of interest.

Your local Satech Representative is available to help you choose and to provide you with the latest information.

ORDER PREPARATION TIMES:

The stated "minimum order preparation times" may vary depending on the time of year, workloads, stock availability and/or local market conditions. They can be confirmed accurately only after the Order Confirmation.

IMAGES AND TECHNICAL DATA:

Images and technical specifications in this catalog are for illustrative purposes only and are current at the time of publication. Satech's policy is one of continuous improvement, so products distributed may undergo changes or updates.

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To learn about the latest news, please contact your usual Satech representative and visit our website at www.usamachineguards.com

Satech, your ideal partner for Industrial Safety

We are the first Italian Company that's specialized in the manufacturing of Standard-compliant Modular Machine Guard Systems. Since 2000, we have been designing Industrial Safety Solutions with high-quality products that are modular and easy to assemble.

Tailor-made Solutions

Your need, our Solution

Each machinery layout features specific requirements. Our modular, stock-ready Guards - both fixed and movable - provide the perfect Solution to most of customer needs in all industrial sectors. Our Quotations Team will best advise you on how to optimize our modules to get the right fit for your needs.

OPTIMIZATION
OF COMPONENTS

Technology

Automation

Our robots and machinery 4.0 are controlled by state-of-the-art software to ensure the perfect integration and control of any process: from laser cutting to panel welding, from painting to packing and shipping.

INTEGRATED MANAGEMENT
OF ALL PROCESSES

4 **Direct offices**
Between Europe and Japan

5 **Standard Systems**
stock-ready

20K **Square meters**
of production area

Craftsmanship

ISO 9001 System

Satech considers Quality as an integral part of its Value proposition. The ISO 9001 certified Quality system ensures the highest degree of efficiency in all our processes.

CERTIFIED
ISO 9001
ISO 14001
ISO 45001

Details that make the difference

Customizations of our products are carried out by the Custom**Guard** team, which takes care of every detail with craftsmanslike attention. Additionally, the Satech**Lab** Team is able to develop and deliver turnkey projects by integrating our Standard Solutions with tailor-made Products.

PRE-ASSEMBLY
SERVICE

TEST CENTER
IN-HOUSE

Environmental Impact
Our commitment to sustainability

We strive to reduce the impact on the Planet through an ISO 14001 certified environmental management system. Our productive processes are constantly analyzed and refined in order to improve their sustainability over time.

Self-production of clean energy

The self-production of renewable energy is a topic that we take very seriously. More than half of our Smart Factory's energy needs are covered by a **system of solar panels** installed on **6,000 m²** of roofing at our Bulciago Production Facility.

Use of recycled raw material

The consumption of natural resources is one of the factors that has the greatest impact on sustainability. More than 70% of the **steel** we use comes from **recycled raw material**.

50% ELECTRICITY
BEING SELF-PRODUCED

70% STEEL
FROM RECYCLED MATERIAL

Concrete Actions
to protect the Environment

Centralized Air Conditioning

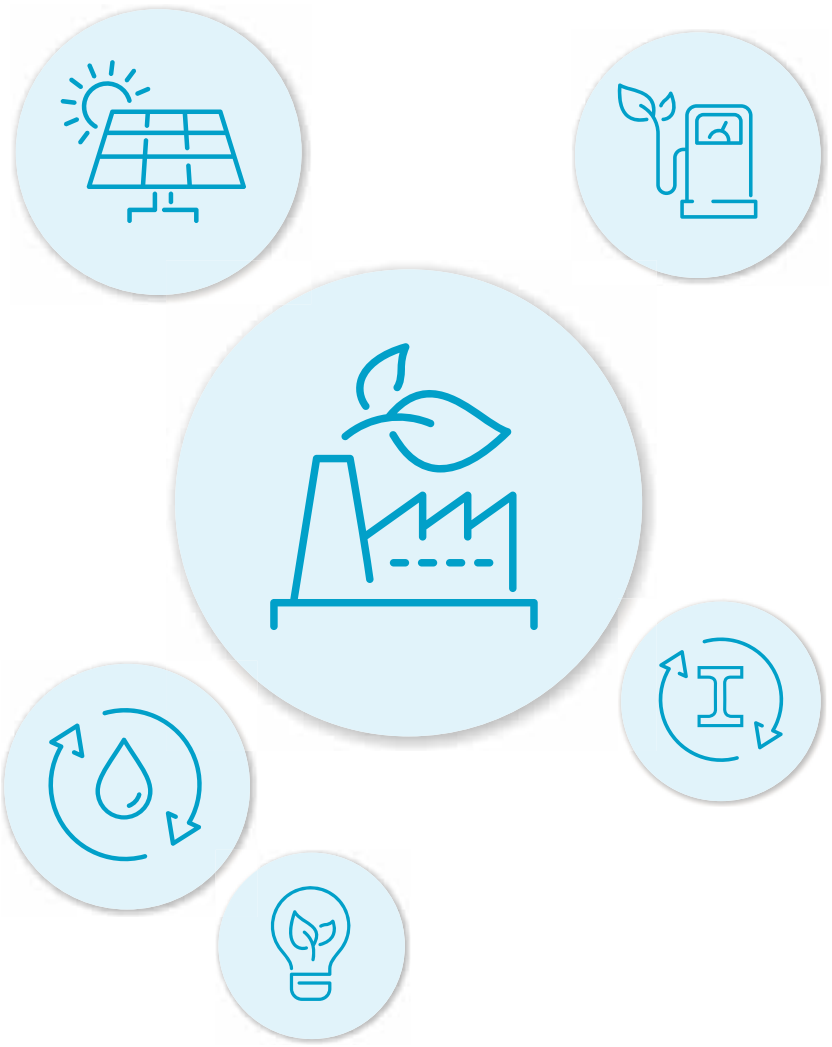
Besides producing our own electricity, we limit its consumption as much as possible. A system of electric pumps distributes air conditioning to the office building - no fossil fuel needed.

Timed lighting system

The lighting system installed in our Production Facility is energy-efficient. A timer limits the use of artificial lights only to necessary hours.

Wastewater recovery

Water is the most important resource on the Planet. Our Smart Factory employs a modern recovery system that cleans industrial wastewater and feeds it back into processes. This reduces the amount of waste produced and water consumed.



Certifications

ISO 14001 environmental management

Through the development and maintenance of an **ISO 14001 certified environmental management system**, we commit to prevent water, air, and soil pollution by minimizing waste generation and by limiting the consumption of natural resources.

CERTIFIED
ISO 9001
ISO 14001
ISO 45001

Safety distances
of Machine Guards

Reaching over protective structures
EN ISO 13857, 4.2.2

A Height of hazard zone
B Height of protective structure
C Safety distance

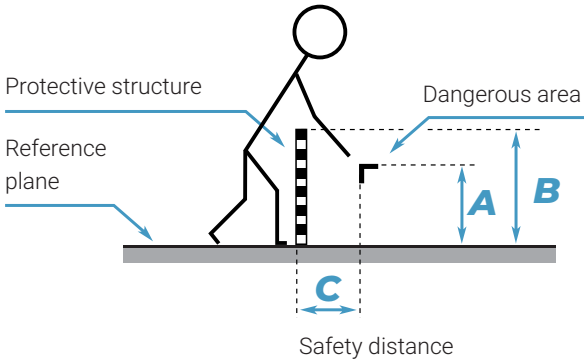


Table 2 *dimensions in mm*

B	1000	1200	1400	1600	1800	2000	2200	2400	2500	2700
A	Horizontal distance to hazard 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	-	-	-	-	-	-	-	-

Reaching through regular openings
EN ISO 13857, 4.2.4.1

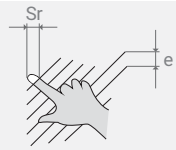
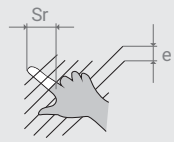
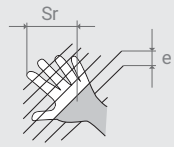
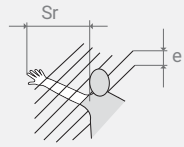
The dimension of the opening "**e**" corresponds to the side of a square opening, the diameter of a round opening and the narrowest dimension of a slot opening.

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

NOTE (1):

If the length of the slot opening is **≤ 65 mm**, the thumb acts as a stop and the safety distance for protective structures can be reduced to **200 mm**, resulting in **great space saving**.

Table 4 *dimensions in mm*

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 (1)	≥ 120	≥ 120
Arm up to junction with shoulder		30 < e ≤ 40	≥ 850	≥ 200	≥ 120
		40 < e ≤ 120	≥ 850	≥ 850	≥ 850

Satech mesh slot openings

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

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

"**e**" refers to the same types of opening as in chapter 4.2.4.1.

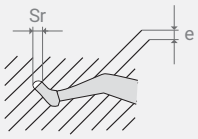
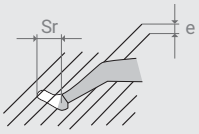
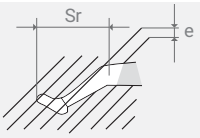
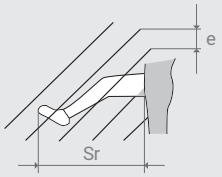
NOTE (1):

If the narrower slot width is **≤ 75 mm**, distance can be **reduced to ≥ 50 mm**.

NOTE (2):

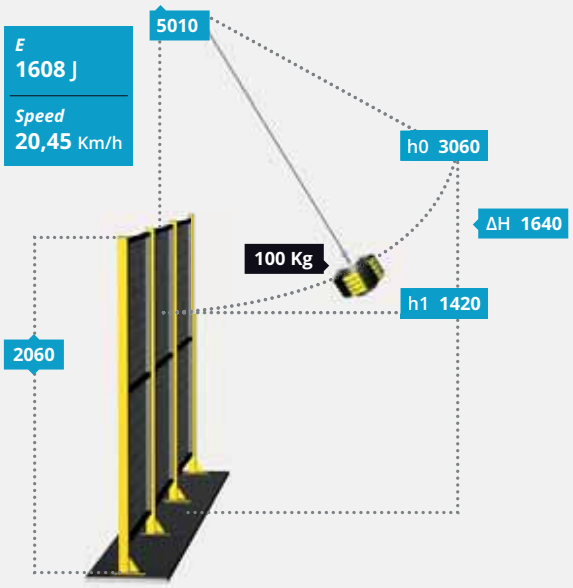
Slot openings with **e > 180 mm** as well as square or round openings with **e > 240 mm** allow **access with the whole body**.

Table 7 *dimensions in mm*

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 (1)	≥ 25
Foot		35 < e ≤ 60	≥ 180	≥ 80
		60 < e ≤ 80	≥ 650	≥ 180
Leg (toe tip to knee)		80 < e ≤ 95	≥ 1100	≥ 650
Leg (toe tip to crotch)		95 < e ≤ 180	≥ 1100	≥ 1100
		180 < e ≤ 240	not admissible (2)	≥ 1100

EN ISO 14120 **Impact Test**

In our dedicated **Test Center** Satech Solutions are subjected to severe **dynamic resistance tests from the inside outwards** according to the procedure contained in the EN ISO 14120 Standard (Hard body / Pendulum Test).



Mass release height from the ground (mass load center): **h0** = 3,060 m
Mass impact height from the ground (mass load center): **h1** = 1,420 m
ΔH = h0 – h1 = 3,06 – 1,42 = 1,64 m

Framed panels
Safe, practical, resistant

Satech framed modular mesh panels are designed according to EN ISO 14120 - ANSI/RIA R15.06 and meet Risk Assessment safety requirements. Available with 20 mm (0.78”) frame, they can be assembled with 3 different assembly options.

Easy to handle
Robust and light

With a structure that’s **lightweight** yet robust, the Satech framed panel can be easily handled by just one person.

Ready to use
Plug and play versatility

The frame comes **pre-drilled** to allow assembly with Nuts and Bolts and the installation of brackets, locks and accessories.

7 standard widths, infinite possibilities

The combination of our **7 standard panels** joined together allows to create all the intermediate widths in **100 mm increments**.

7 standard widths:

200	300	700	800
1000	1200	1500	

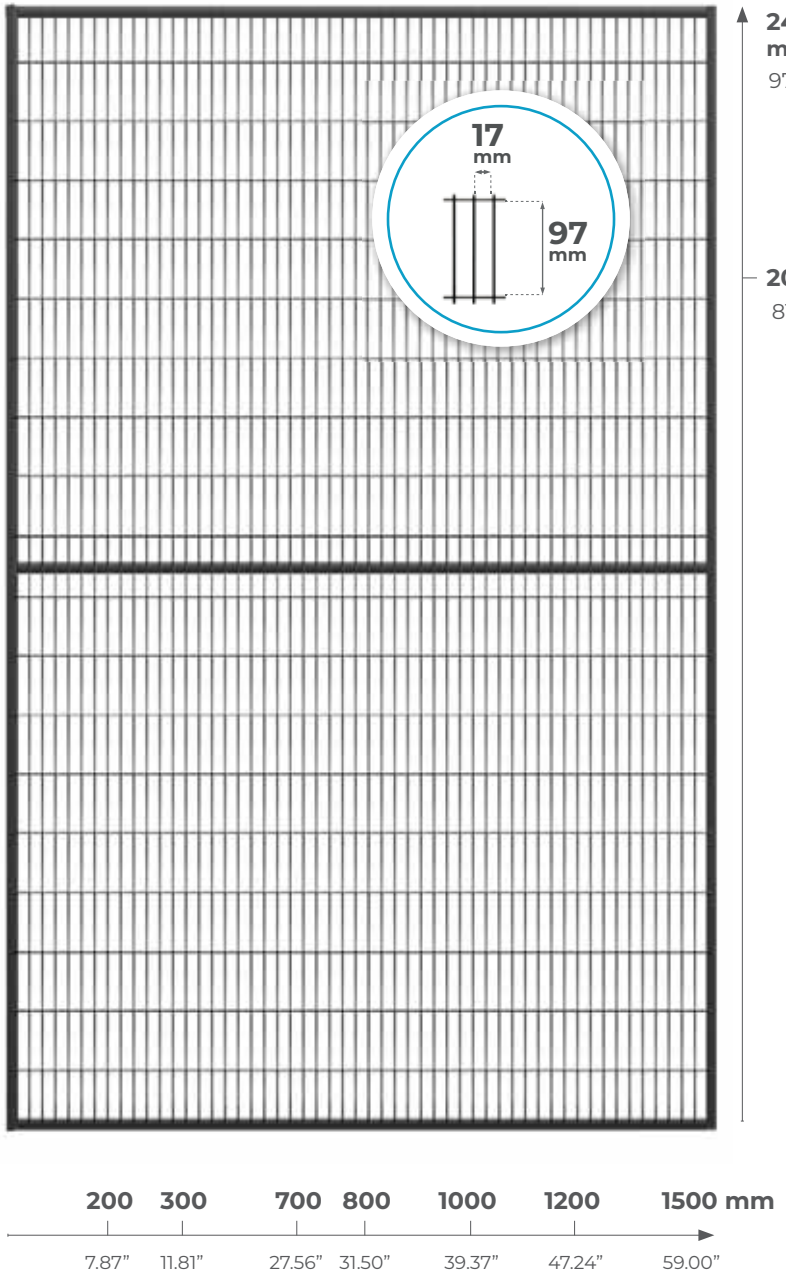
200			
300			
400	=	200	200
500	=	200	300
600	=	300	300
700			
800			

900	=	200	700
1000			
1100	=	300	800
1200			
1300	=	300	1000
1400	=	700	700
1500			

dimensions in mm

The Satech Modular Framed Panel

7 standard widths and 2 standard heights



DECLARATION OF CONFORMITY
EN ISO 14120

Visibility

EN ISO **14120-5.9**

The vertical mesh shape ensures excellent machinery visibility

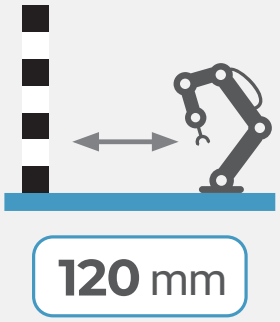
Anti-climbing

EN ISO **14120-5.18**

The horizontal wires welded on the inside prevent climbing

Less distance, more space saved

The **17x97 mm** mesh slot allows to install the Guard only **120 mm** from hazard (EN ISO **13857**), reducing the **amount of space** occupied by the safety perimeter.



Safe and resistant

The 20 mm **square section tubes** and 3 mm wire mesh make the Satech panel rigid and resistant, while **welds at wires intersection** prevent the risk of resonance.

FRAME
mm
20

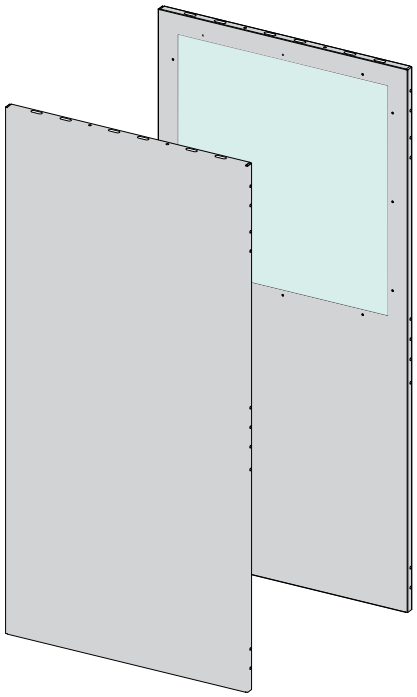
Panel options

Sheet metal, transparent sheet or mixed?

In addition to mesh panels, our framed Systems can be built with panels in different materials. All of them are robust, easy to assemble, fully compatible with traditional assembly systems and customizable according to your needs.

Full**Steel**

Maximum Robustness and Privacy



STANDARD NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP

Full**Steel** is the new line of folded sheet metal panels. Suitable to protect from the ejection of scraps or for the partitioning of restricted areas, it is available with a polycarbonate viewing port as well as a dedicated viewing port for welding cells.

ASSEMBLY OPTIONS

- **"Impact"** assembly - Captive Retained Screws

Tested for up to
2200 J

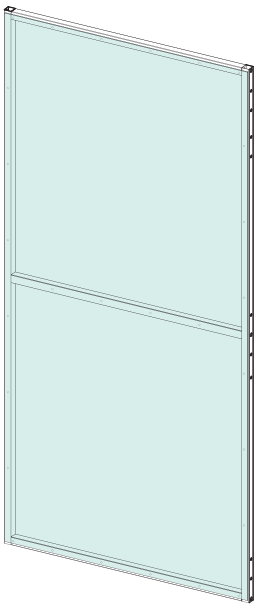
MATERIALS

Sheet metal
1,2 mm thickness

Transparent sheet
4 mm thickness

EN ISO 25980
Transparent sheet
3 mm thickness

Transparent sheet
Maximum Visibility



STANDARD NON-STOCK — MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Polycarbonate panels provide **maximum visibility of the protected areas**, thus allowing the inspection of processes.

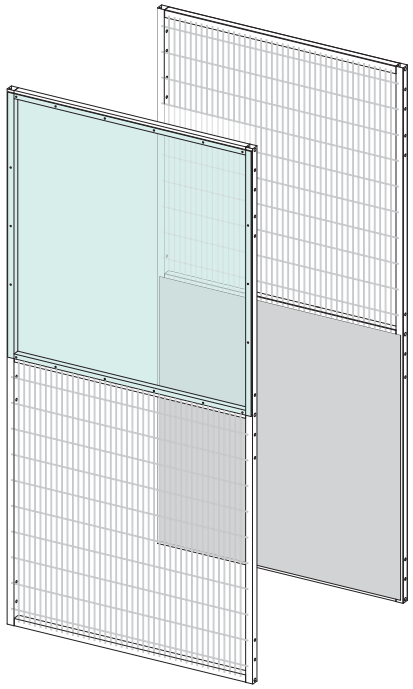
ASSEMBLY OPTIONS

- **"Easy"** assembly **-** Quick Clamp
- **"Impact"** assembly - Captive Nuts and Bolts

MATERIALS

Transparent sheet
4 mm thickness

Mixed Panels
Maximum Versatility



STANDARD NON-STOCK — MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Mixed material panels **combine the advantages of both materials**. The sheet metal + mesh panel, for example, protects from the ejection of scraps in the lower part while ensuring full visibility of production processes at the top.

ASSEMBLY OPTIONS

- **"Easy"** assembly - Quick Clamp
- **"Impact"** assembly - Captive Nuts and Bolts

MATERIALS

Steel wire mesh
3 mm thickness

Sheet metal
1,2 mm thickness

Transparent sheet
4 mm thickness

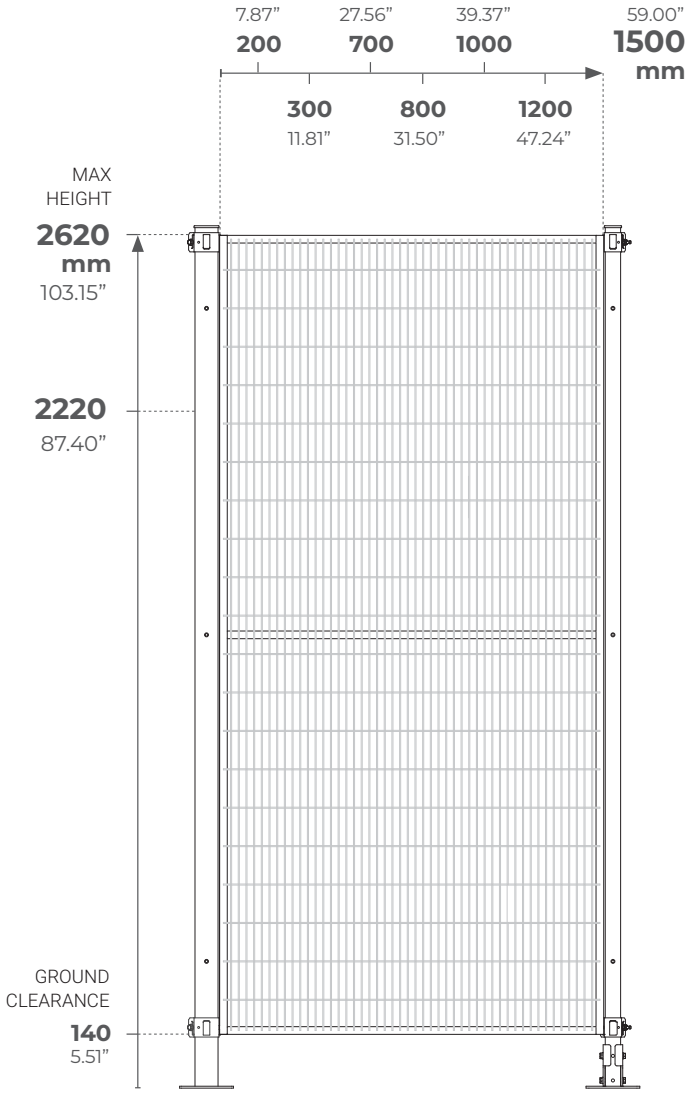
NEW SYSTEM

Easy**Guard**

Handiness

The functional and ergonomic Perimeter Guard

FRAME mm	POST mm	POST mm
20	40	60
	Easy**Guard** 40	Easy**Guard** 60



Practical

Easy**Guard** is a Perimeter Guarding Solution that is **simple and effective**. The new baseplates with 3 anchoring points and the redesigned **Clamp** reduce installation time up to 25%.

Versatile

Easy**Guard** can be completed with a wide range of accessories and doors. Available with **40- or 60 mm posts**, this System is a suitable choice for the protection of most industrial applications.

Panels

20 mm

MESH (mm)	**20 x 100 x 3**	
MESH SLOT (mm)	**17 x 97**	
HEIGHTS (mm)	**2080**	**2480**

Posts

40 mm | 60 mm

BASEPLATES (mm)	**60 mm post: 140 x 140 x 5, welded** **40 mm post: to be assembled (adjustable)**
HEIGHTS (mm)	**2240** **2640**

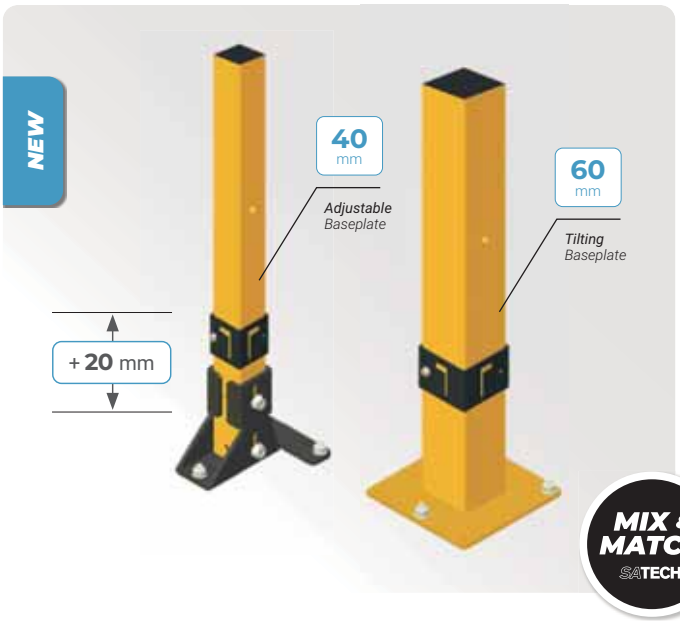
Colors

RAL COLORS	RAL 9005 · RAL 1021	CustomGuard Colors
COATING	**Powder (for indoor use only)**	

A versatile System that is simple and practical.

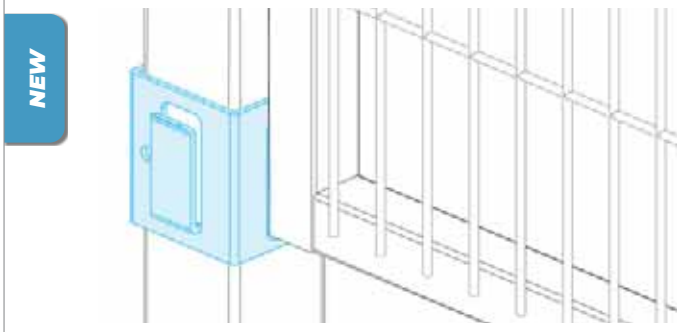
Two post options, two baseplates and the **practical Clamp** assembly make Easy**Guard** a **reliable** Perimeter Guard with **renewed versatility**.

Tested for up to **250 J**



New “Mix & Match” posts

Easy**Guard** ensures seamless interchangeability throughout the layout. Posts come in sections of 40 mm and 60 mm, so as to enhance durability against potential external impacts.



Intuitive Assembly

Easy**Guard**’s new **Clamp** with captive retained screws (2006/42/EC Machinery Directive) and the new posts with 3 anchoring points make assembly easy and reduce time spent installing the Perimeter Guard.

-25%
Assembly Time

Why choose the Easy**Guard** Perimeter Guard?

Price range	$$ / $$$
Speed of assembly	⏱⏱
Min. Distance from Hazard (mm)	120 *(EN ISO 13857)*
Non-mesh Panel options (Full**Steel**, transparent sheet, mixed)	✓

The Easy**Guard** Perimeter Guard is designed and manufactured in compliance with **EN ISO 14120** and meets **Risk Assessment** safety requirements.

- ***Modular and universal***
- ***Easy and intuitive assembly***
- ***Compatibile with all accessories and doors***
- ***Wide range of panel options***

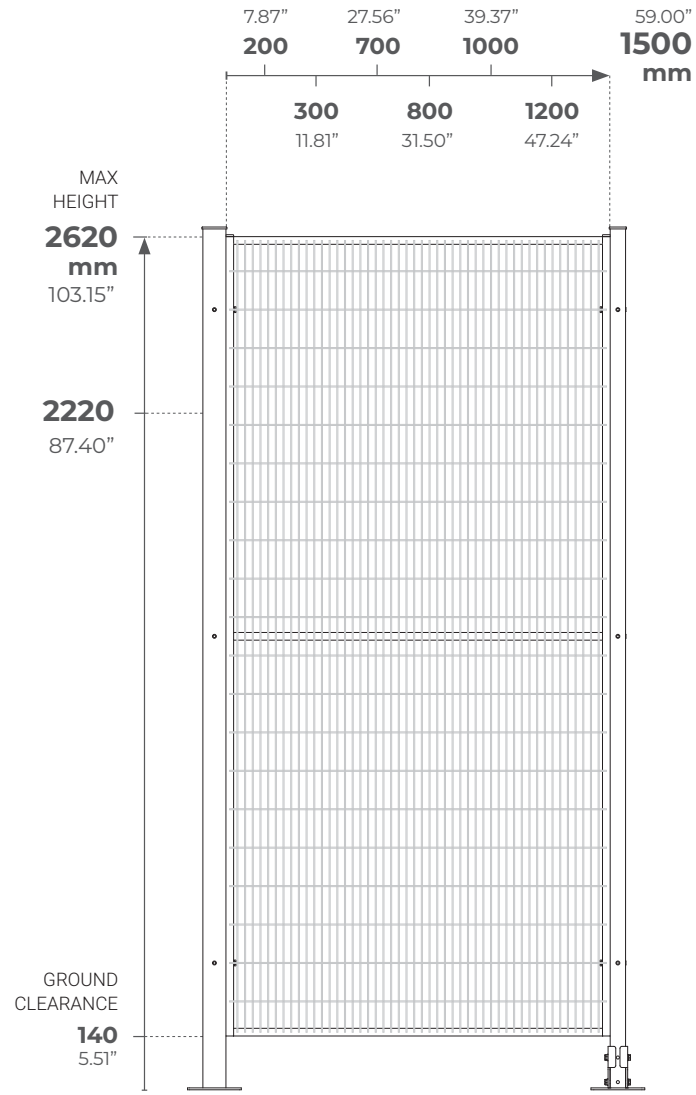
NEW SYSTEM

Impact**Guard**

Robustness and Durability

The sturdiest and most durable Perimeter Guard

FRAME mm	POST mm	POST mm
20	40	60
	Impact**Guard** 40	Impact**Guard** 60



Robust

Impact**Guard** is the **solid and durable** Perimeter Guard Solution. The assembly with captive retained screws and the new baseplates make for a sturdy structure, able to absorb **impacts from the inside up to 2200 J**.

Versatile

Available with 40- or 60 mm "Mix & Match" posts, Impact**Guard** is **compatible with all Satech panels, accessories and doors**. Designed to be long-lasting, this System is ideal for heavy-duty applications, e.g. in the steel industry.

Panels

20 mm

MESH (mm)	**20 x 100 x 3**	
MESH SLOT (mm)	**17 x 97**	
HEIGHTS (mm)	**2080**	**2480**

Posts

40 mm | 60 mm

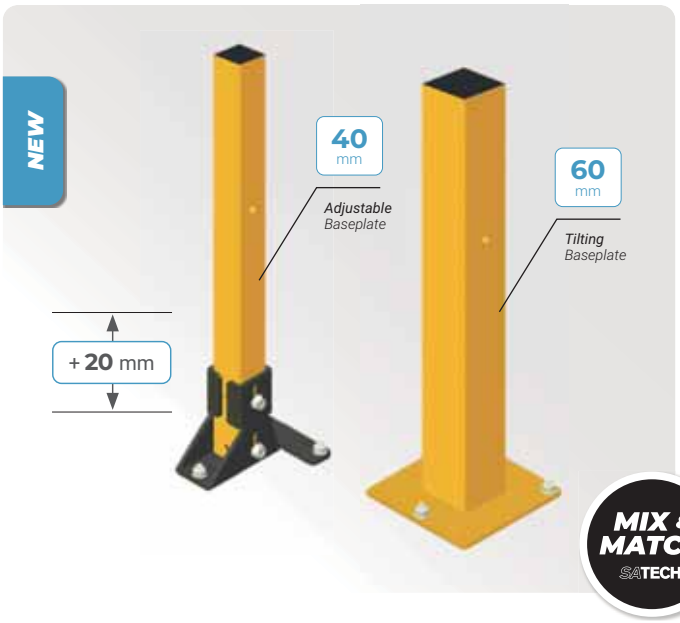
BASEPLATES (mm)	**60 mm post: 140 x 140 x 5, welded** **40 mm post: to be assembled (adjustable)**
HEIGHTS (mm)	**2240** **2640**

Colors

RAL COLORS	RAL 9005 · RAL 1021	CustomGuard Colors
COATING	**Powder (for indoor use only)**	

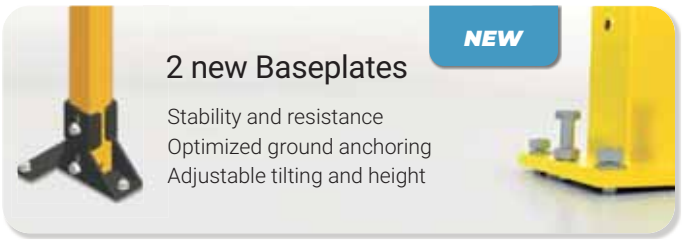
Simple, universal, durable in all conditions.

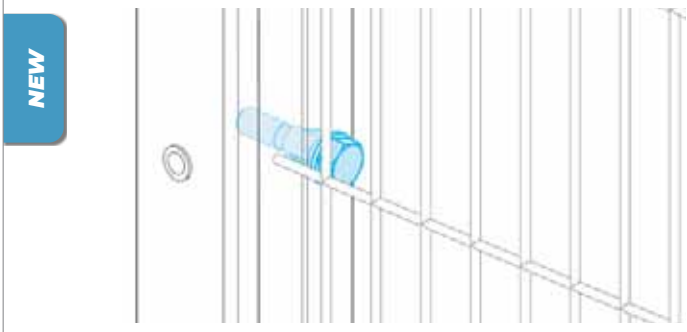
Two options for posts, full compatibility with all Satech products and maximum personalization: Impact**Guard** ensures **unmatched solidity, whichever its configuration might be.**



New “Mix & Match” posts

The new **Universal “Mix & Match” posts** are compatible with all Satech panels, both framed and frameless. Available with 40- or 60 mm sections, they feature **new adjustable 3-anchoring points Baseplates** designed to provide stability and resistance to accidental impacts.





Impact-proof Assembly

The new Impact**Guard** captive fastening (**2006/42/EC** Machinery Directive) features a reduced number of components that optimizes assembly time while ensuring **excellent impact resistance** (Impact Test, **EN ISO 14120**).

Tested for up to
2200 J

Why choose the Impact**Guard** Perimeter Guard?

Price range	$$ / $$$
Speed of assembly	🕒🕒🕒
Min. Distance from Hazard (mm)	120 *(EN ISO 13857)*
Non-mesh Panel options (Full**Steel**, transparent sheet, mixed)	✓

The Impact**Guard** Perimeter Guard is designed and manufactured in compliance with **EN ISO 14120** and meets **Risk Assessment** safety requirements.

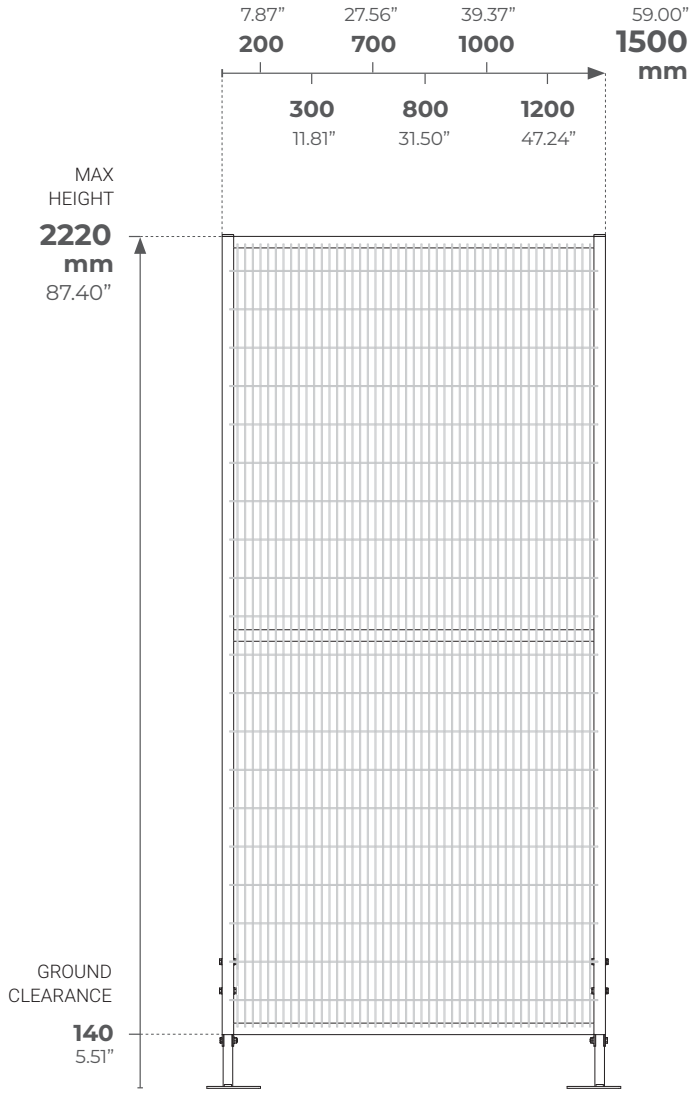
- ✓ ***Modular and robust, even for heavy-duty applications***
- ✓ ***2 “Mix & Match” post options***
- ✓ ***Compatibile with all accessories and doors***
- ✓ ***Wide range of panel options***

Fast**Guard**

1,2,3 Done!

The Safety Fence with the quickest assembly

FRAME
mm
20



Fast

The Fast**Guard** Safety Fences allow a much faster installation than traditional systems. Fast**Guard** is ideal for the **partitioning of areas** as well as for protection alongside **conveyor belts** of automatic lines.

Simple

Fast**Guard** is the System without posts combining simplicity, convenience and versatility. Like all Satech Solutions, it can be **complemented** by our range of doors and accessories.

Panels

20
mm

MESH (mm)	**20 x 100 x 3**
MESH SLOT (mm)	**17 x 97**
HEIGHTS (mm)	**2080**

Baseplates

TYPES	**Linear and terminal**
SIZE (mm)	**140 x 140 x 5** **welded, with 3 anchoring points**

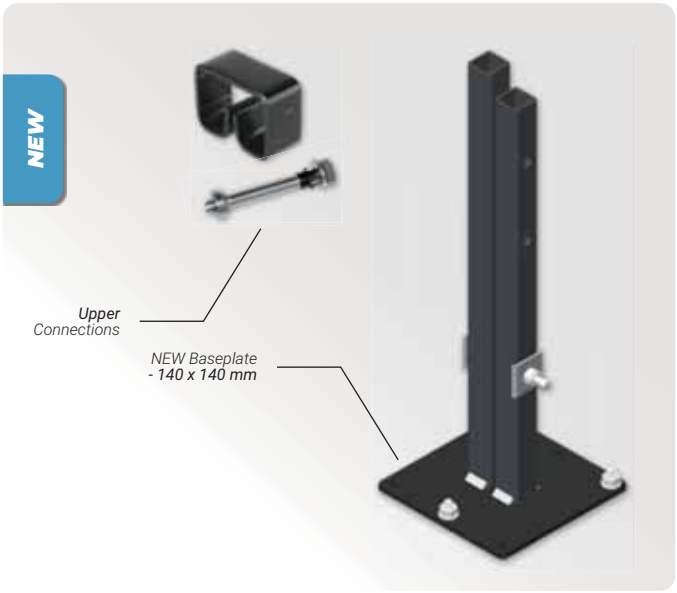
Colors

RAL COLORS	RAL 9005 | Custom**Guard** Colors
COATING	**Powder (for indoor use only)**

Great time saving, maximum effectiveness

FastGuard saves up to **70% assembly time** while ensuring a minimum resistance to impacts of **390 J**.

tested for up to **390 J**



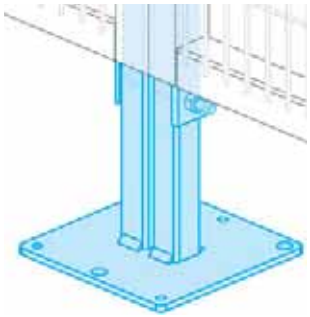
Simplicity and stability

The new **tiltable baseplates** with **3-anchoring point locking forks** connect modular panels in the lower part. For additional stability, the upper part is connected either by **captive retained Nuts and Bolts** or by an **elastic shaped joint**.

NEW

140x140 Baseplate

Stability and resistance
Optimized ground anchoring
Adjustable tilting



1. Place the multi-function baseplates on the ground
2. Insert the panel from above
3. Tighten the captive built-in fastenings

Assembly **in 3 easy steps**

Panels are supported and kept in place by baseplates, while an upper connection keeps them aligned. Assembling FastGuard is incredibly easy and can be carried out effortlessly by **a single operator**.

-70% Assembly Time

Why choose FastGuard Safety Fence?

Price range	$
Speed of assembly	
Min. Distance from Hazard (mm)	120 *(EN ISO 13857)*
Non-mesh Panel options (Full**Steel**, transparent sheet, mixed)	-

The FastGuard Safety Fence is designed and manufactured in compliance with **EN ISO 14120** and meets **Risk Assessment** safety requirements.

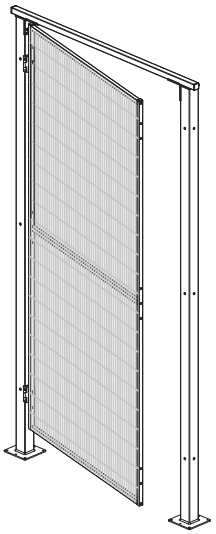
- ***Modular, Extra-rapid and convenient***
- ***Self-supporting, without posts***
- ***Compatibile with all accessories and doors***
- ***Wide range of panel options***

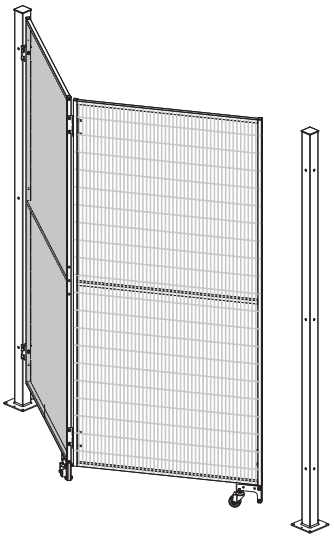
Door in a box
everything you need in a box

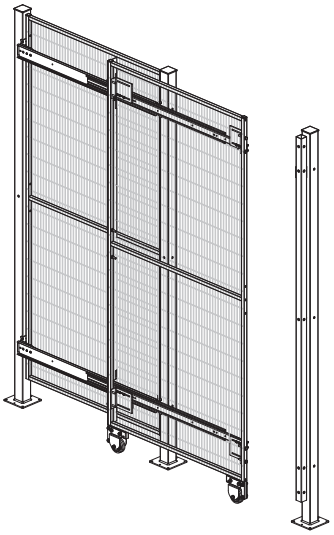
To reduce your efforts and **save you valuable time** we have packaged all the components needed to assemble our doors in “Door-in-a-box” kits, prepared by our Kit Department and carefully checked by the Satech Quality System.

Standard Doors
A complete and versatile range of openings

We provide a range of **Standard Doors** Solutions to access your Safety Perimeter. 3 types of movement, openings from 700 to 8700 mm, 2 different post sections and a variety of panels. **Upon request,** our Custom**Guard Doors can feature vertical movement, wider openings and be motorized.**







Simple and functional
Customizable with several panel options

Simple, solid and durable, Satech doors are built with our modular components and are easy to assemble. They can be made with any type of framed panel option (ful mesh, transparent sheet, mixed) or with Full**Steel** sheet metal panels.

Hinged, folding or open passage?
The right door for your need

Our Standard doors - hinged, folding, with guides, or with open passage - are designed to enable machinery access to **people, goods, pallet trucks and various types of heavy loads**.

PEOPLE

PEOPLE AND GOODS

HEAVY LOADS

More than 150 Lock Solutions

Locking systems suitable for any Performance Level (PLr)

Each Satech door can be completed with a **wide range of locks**, from simple magnet locks to mechanical ones and interlocks, according to the **Performance Level required (PLr)**. We also design and manufacture brackets for your own locks.

NEW

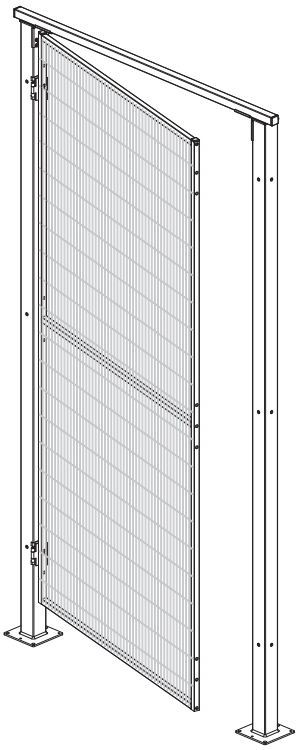
Hinged Door

For man passage

POST mm 40

POST mm 60

6 MIN. ORDER PREPARATION TIME: **6 BUSINESS DAYS**



Simple door for man passage equipped with hinges that guide the movement of the panel. It can be ordered pre-assembled with an interlock.

VERSIONS AVAILABLE

- ✓ Single leaf
- ✓ *Double leaf

OPENINGS

700 to 3000* mm

IDEAL FOR

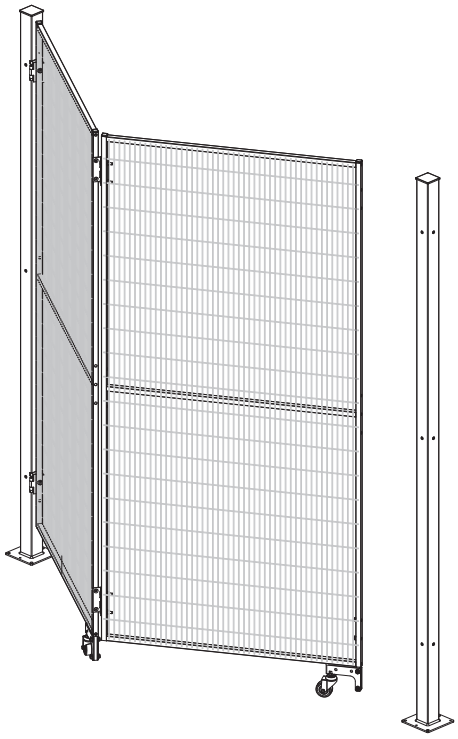
NEW

Folding Door

Space saving

POST mm 60

STANDARD NON-STOCK MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**



Door designed to save space when opened. The two panels fold over each other to reduce the space occupied, while a swivel wheel provides stability throughout the movement.

VERSIONS AVAILABLE

- ✓ Single
- ✓ *Opposed

OPENINGS

1400 to 6000* mm

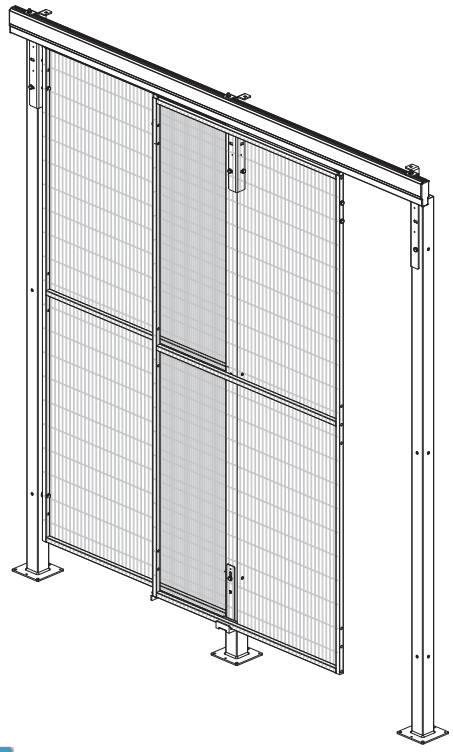
IDEAL FOR

NEW

Sliding Door
Upper Guide

POST mm 40 | POST mm 60

6 MIN. ORDER PREPARATION TIME: **6 BUSINESS DAYS**



Sliding door suspended by means of a new generation upper guide. Ergonomic and functional, it is simple to assemble and ensures a smooth opening movement.

VERSIONS AVAILABLE

- ✓ Single
- ✓ Alternate
- ✓ *Opposed

OPENINGS

700 to 3000* mm

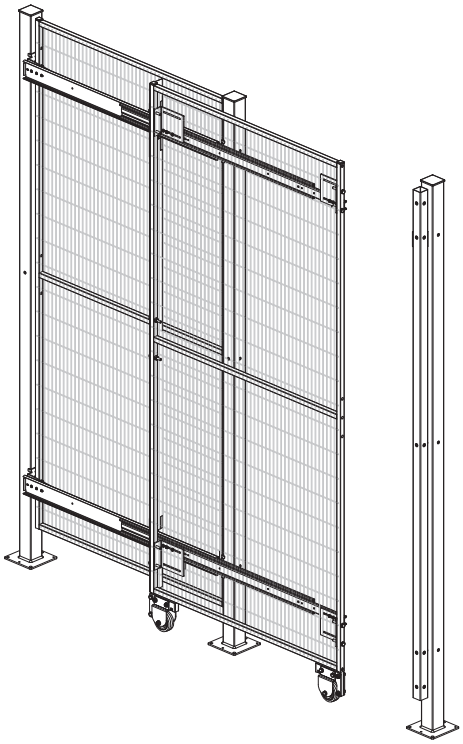
IDEAL FOR

NEW

Sliding Door
Open Passage TX

POST mm 40 | POST mm 60

6 MIN. ORDER PREPARATION TIME: **6 BUSINESS DAYS**



Sliding doors with a low-friction telescopic guide for panel stability and smooth sliding. Also available in the multistage version, designed for large openings.

VERSIONS AVAILABLE

- ✓ Single
- ✓ Opposed
- ✓ *Multistage

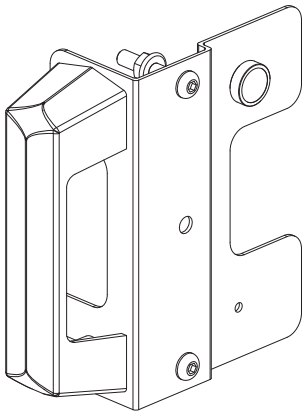
OPENINGS

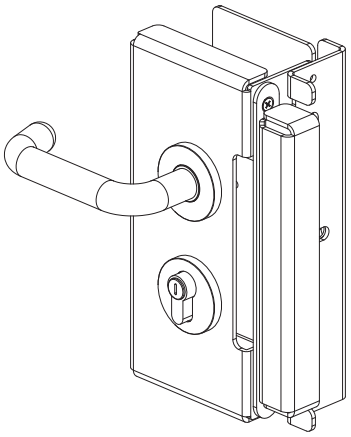
700 to 8700* mm

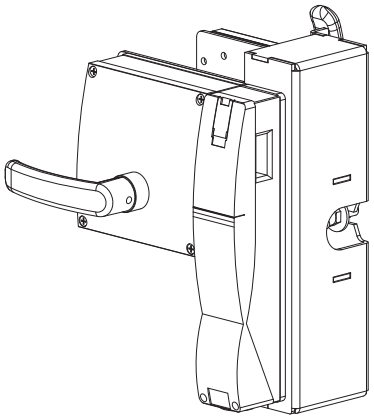
IDEAL FOR

Locking Systems
Safe Access at any Level

Satech doors can be completed by over **150 models of locks** with different mechanisms, so as to reach the **Performance Level required (PLr)** for control systems.







GET TO KNOW MORE

Which lock is right for you?
Control sytems and Performance Level Required

+150 **Locking Solutions** available

The **EN ISO 13849-1 Standard** defines the requirements to design and construct **control systems and their parts for the safety of machinery**. Among these, **locks installed on the Guards** are part of control systems.

Determining the safety functions performed by control systems is an important step for risk reduction. Each safety function is associated to a **Performance Level Required** (**PLr**), i.e. the Performance Level to be reached in order to achieve the required risk reduction for each safety function. Performance Levels are determined by the following: **severity of injury**, **frequency and/or exposure to a hazard** and the **possibility of avoiding hazard or limiting harm**.

The greater the amount of risk reduction required, the higher the PLr must be. It is for this reason that **different locks fulfill different safety needs**.

PERFORMANCE LEVEL **REQUIRED** (*PLr*)	A	B	C	D	E

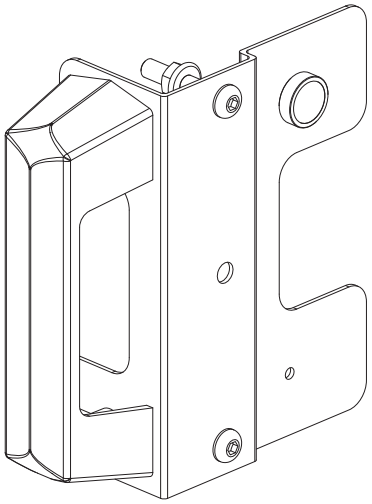
Low risk → **High** Risk

IMPORTANT

Risk assessment as well as the determination of safety functions and performance levels are the sole responsibility of the customer. Satech is limited to the sale of products and assumes no responsibility if the locking system purchased covers a Performance Level that is not appropriate for the corresponding control system.

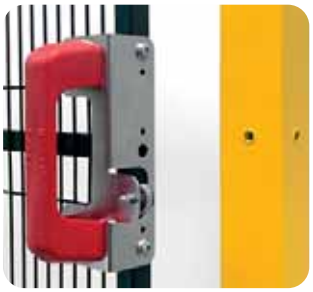
Proper risk assessment conducted by experienced and qualified professionals will tell you which locking system is the right choice for you.

Magnet Lock
Ergonomics and safety



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Lock consisting of a plate with a high-visibility ergonomic handle and a supermagnet that secures the door in place. Ideal when there is **no risk** involved.



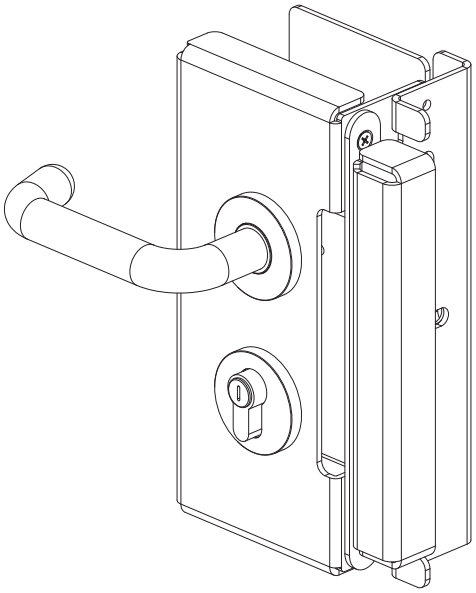
VERSIONS AVAILABLE

- ✔ Magnet

MAX. PLr

Not applicable

Mechanical Locks
Versatility and functionality



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Locks suitable for situations where **the risk is low**, e.g. for the partitioning of areas. They provide perfect integration with brackets and Safety Switches.

VERSIONS AVAILABLE

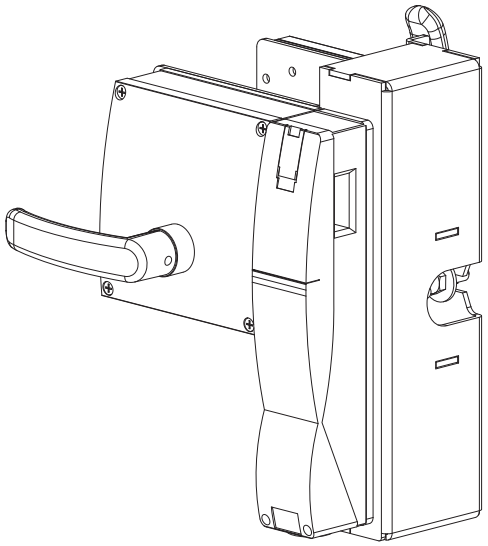
- ✔ With key
- ✔ With panic handle

MAX. PLr

Not applicable

Interlocks

Maximum protection of operators and processes



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Device connected to the machine control system. When in open position, it stops the machine from working. Suitable in the presence of **high risk**.

VERSIONS AVAILABLE

- Keyed Interlocks, solenoid locks, electronic safety switches and sensors

MAX. PLr

E

Guard monitoring and controls

for your safety fence

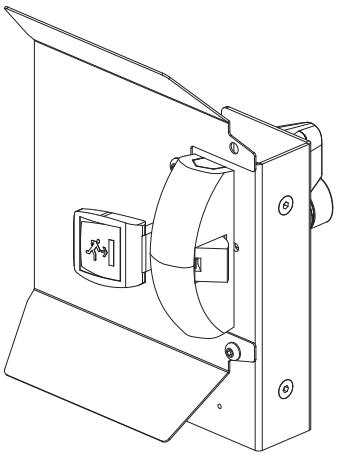
Satech partners with market leader **Schmersal** to provide any possible solution for your needs. Today the Schmersal product portfolio contains **over 25,000 products**, such as keyed interlocks, solenoid locks, electronic safety switches and sensors, coded magnet sensors, safety hinge switches, safety light curtains, safety rated limit switches, safety edges and mats, and a wide assortment of safety controllers.

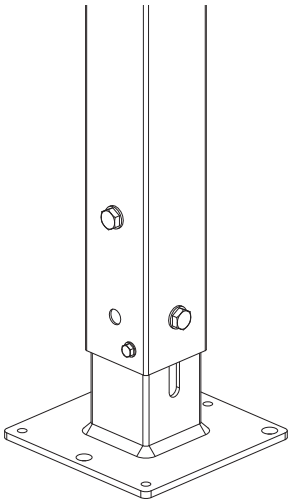
MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

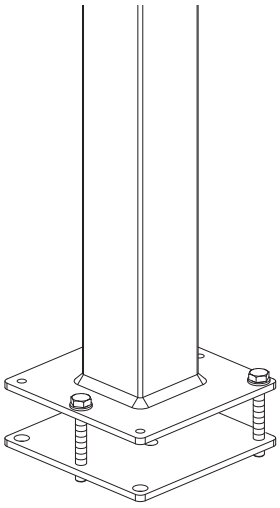
www.schmersalusa.com/products

Accessories and Brackets
Personalization and functionality

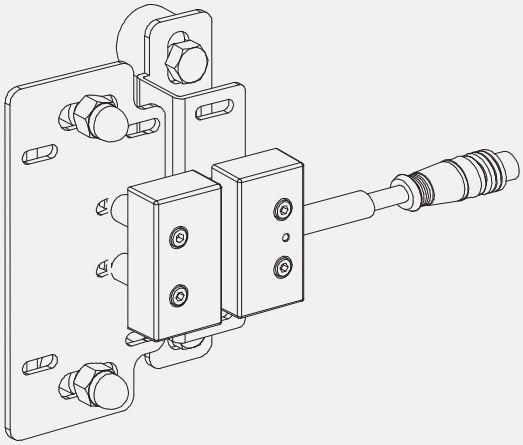
A complete range of accessories and assembly complements designed for the completion and personalization of your Perimeter Guard. On top of that, a choice of over 90 brackets for Safety Switches, Locks and Interlocks compatible with systems from leading manufacturers.







Brackets
for Safety Switches
and Locking Systems



+90 Models available

6-20

MIN. ORDER PREPARATION TIME:
6 TO 20 BUSINESS DAYS

More than 60 types of brackets for **type 2** (key) and **type 4** (magnet) **Safety Switches**. Compatible with products from leading manufacturers such as Allen Bradley, Bernstein, Leuze, Omron, Pilz, Pizzato, Schmersal, Sick, Siemens, Telemecanique-Schneider, etc. Our catalog of **brackets for locking systems and safety interlocks** features more than 30 standard models, designed for products by Allen Bradley, Dold, Euchner, Fortress, Guard Master, Omron, Pilz, Pizzato, Rockwell, Schmersal, Siemens, Sick, Telemecanique-Schneider, etc.
Custom**Guard** brackets, on the other hand, are custom designed for any type of Safety Switch, lock and interlock.

VERSIONS AVAILABLE

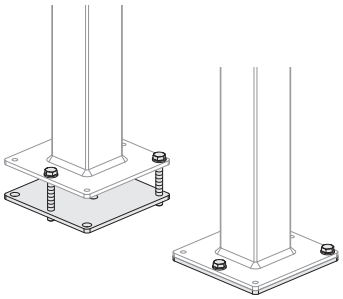
- ✓ All major brands
- ✓ Custom**Guard** (custom design)

COMPATIBILITY

Hinged doors, folding doors, sliding doors (linear and vertical opening movement)

NEW

Ground
Counterplate



STANDARD NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP

Plate for counter-fixing posts to non-drillable metal surfaces or grating floors (max. thickness 30 mm).

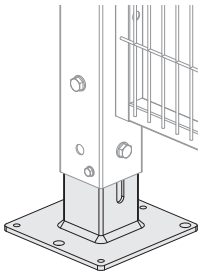
VERSIONS AVAILABLE

- ✓ galvanized (for gratings)
- ✓ steel (for welding)

COMPATIBILITY

POST mm 40 | POST mm 60

Adjustable
Baseplate



STANDARD NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP

Designed to adjust posts footing for uneven floors in industrial settings. Adjustable up to 100 mm, for all types of posts.

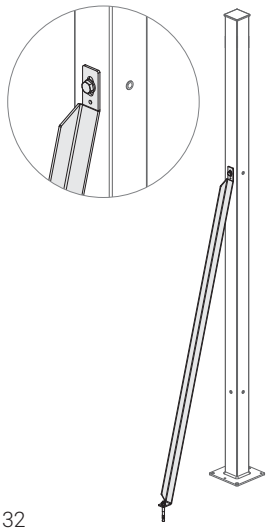
VERSIONS AVAILABLE

- ✓ 40 x 40 mm
- ✓ 60 x 60 mm

COMPATIBILITY

POST mm 40 | POST mm 60

Stabilizing
Post support strut



6

MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

The support strut helps reinforcing posts subjected to significant horizontal dynamic loads as well as the ones that are placed in critical layout positions.

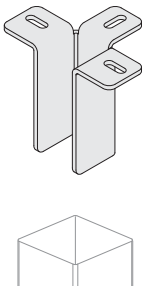
VERSIONS AVAILABLE

- ✓ 40 x 40 mm

COMPATIBILITY

POST mm 40 | POST mm 60

Cable Duct **Support**



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Fast-coupling cable duct support to fasten the cable duct directly to the post. Ergonomically shaped with no sharp edges for improved safety.

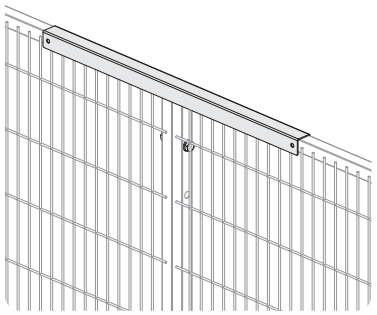
VERSIONS AVAILABLE

- ✔ 40 x 40 mm
- ✔ 60 x 60 mm

COMPATIBILITY

POST mm 40 | POST mm 60

Reinforced linear **Junction**



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Joins two panels without using a central post, e.g. in the presence of obstructions (cables, pipes, etc.), optimizing assembly and material costs.

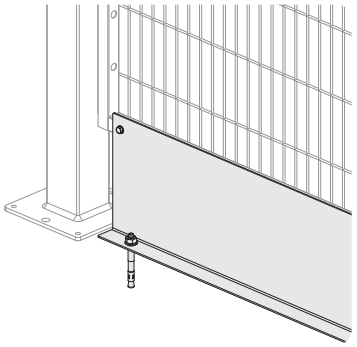
VERSIONS AVAILABLE

- ✔ 20 x 20 mm

COMPATIBILITY

FRAME mm 20

Ground
Kick Plate



STANDARD NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP

Made of 2 mm metal sheet, it fills the gap between the panel and the floor to contain the ejection of residues (waste, scraps...) from production processes.

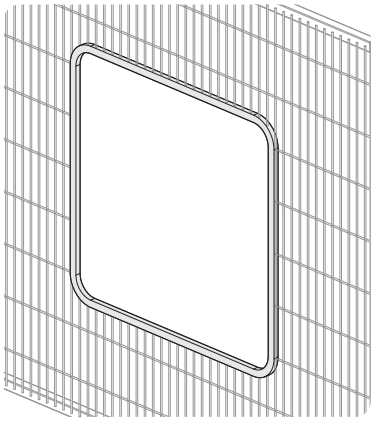
VERSIONS AVAILABLE

- ✔ For framed panels

COMPATIBILITY

FRAME mm **20**

Rubber
Profile



6

MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

A gasket made from a steel-reinforced rubber profile for the finishing of panel cutout shapes made on-site.

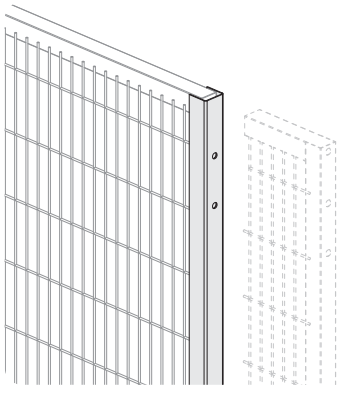
VERSIONS AVAILABLE

- ✔ Universal - different sizes available

COMPATIBILITY

FRAME mm **20**

Cutting Kit
for framed panels



6

MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

Kit for the resizing and trimming of framed panels. It consists of a cut-to-size tube, a U-profile and self-drilling screws.

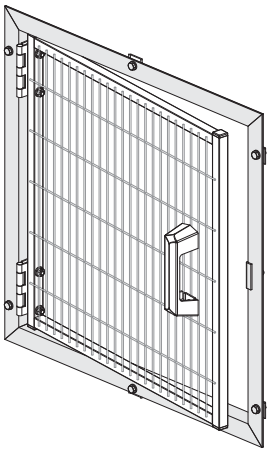
VERSIONS AVAILABLE

- ✔ Different sizes available

COMPATIBILITY

FRAME mm **20**

Insert
with door



STANDARD NON-STOCK MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Openings with inserts for inspections or sampling operations for statistical process control. It can be coupled with Safety Switches or interlocks.

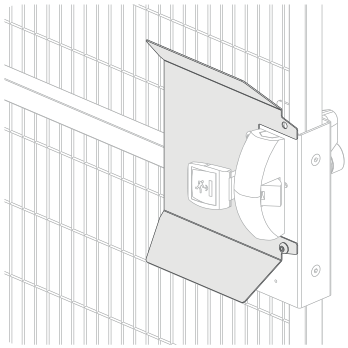
VERSIONS AVAILABLE

- ✔ 400 x 400 mm
- ✔ 600 x 600 mm

COMPATIBILITY

FRAME mm 20

Anti-effraction plate
for panic locks



STANDARD NON-STOCK MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Specifically designed for panic locks, it prevents the access to the emergency release from outside the safety perimeter.

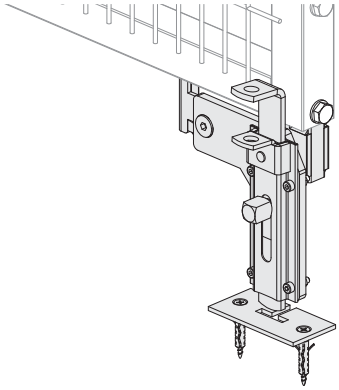
VERSIONS AVAILABLE

- ✔ Universal

COMPATIBILITY

FRAME mm 20

Ground latch
for doors



6 MIN. ORDER PREPARATION TIME: **6 BUSINESS DAYS**

Device designed to provide greater stiffness to doors when closed. Especially suitable for single/double hinged doors as well as for folding doors.

VERSIONS AVAILABLE

- ✔ Universal

COMPATIBILITY

FRAME mm 20

Custom**Guard**
Your personalized Solution

We provide solutions with different levels of customization: colors, finishes, shapes, dimensions, as well as custom-made products such as brackets for accessories or Safety Switches and automated openings. Need adaptations, cuts or cutouts? Our Custom**Guard** Department will do that for you.

Color
An endless choice of hues

Thanks to our three-cabin automated powder coating line we are able to manufacture **panels, posts and accessories in any RAL color**, either with a smooth or pebbled finish. We will also provide you recommendations about the Guard color that best fits your Machinery in accordance with the requirements set by Safety Standards (**EN ISO 14120 - 5.9**).

STANDARD NON-STOCK MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Anti-corrosion Finishes
Galvanizing and Triplex System

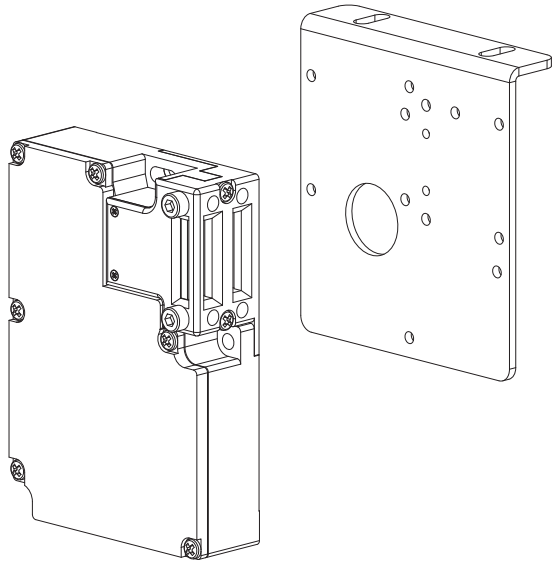
Our Guards can be completed with **hot-dip galvanizing**, a process that extends their life by protecting the steel from corrosion and weathering. To ensure even greater durability, our TRIPLEX System completes the **rustproofing** provided by hot-dip galvanizing with a **powder coating surface finish**.

STANDARD NON-STOCK MIN. ORDER PREPARATION TIME: **ASK YOUR LOCAL SALES REP**

Custom**Guard** **Brackets**

MIN. ORDER PREPARATION TIME:
14 BUSINESS DAYS

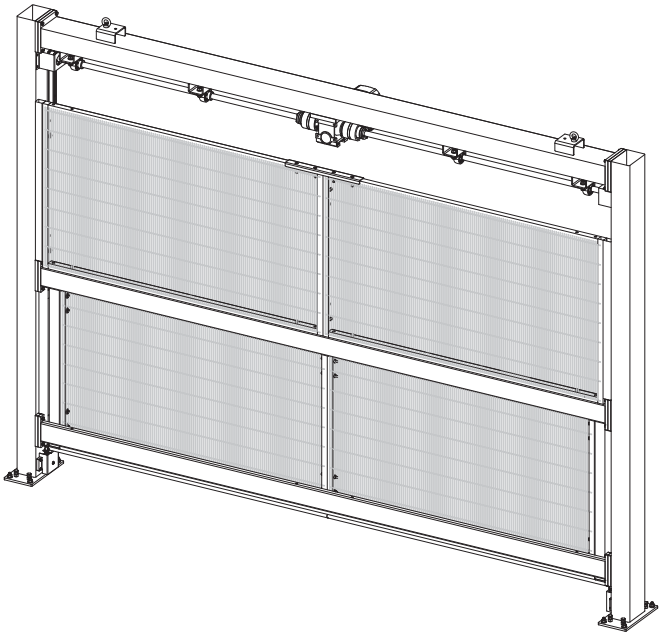
We create **custom brackets** for Safety Switches and interlocks. The database of our personalized Solutions includes several thousand designs, but our mechanical designers are always available to help you create your own bracket.



Custom**Guard** **Doors**

MIN. ORDER PREPARATION TIME:
25 TO 35 BUSINESS DAYS

Vertical-opening solutions for space-saving and **sliding doors** with openings up to 15 meters. Custom**Guard** doors can be manually operated, pneumatic or motorized.



OPTIONS AVAILABLE

- Dimensions
- Types of movement
- Manual
- Pneumatic
- Motorized

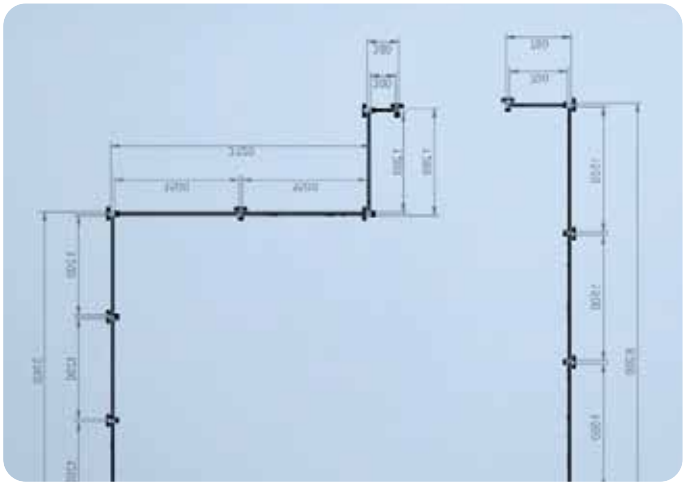
OPENINGS

upon request -
up to 15 meters

IDEAL FOR

Autocad® and Inventor Design
Solutions tailor-made for you

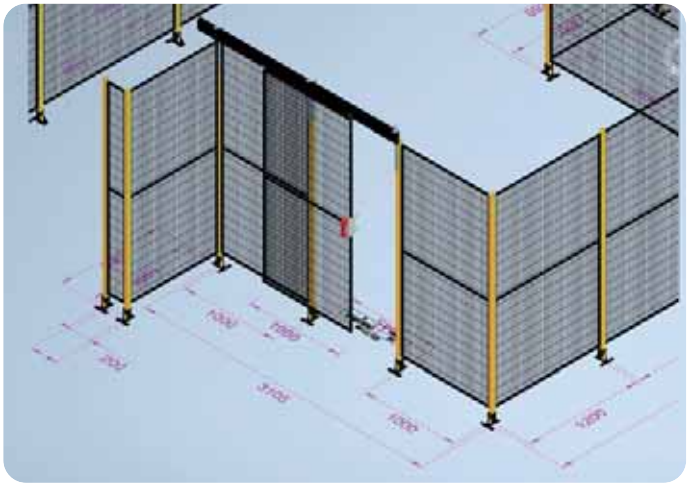
Our Quotations Department specializes in developing industry-dedicated solutions as well as design proposals for different sectors. Satech projects are saved and delivered as DWG format or 3D format (STP) upon request, ensuring full compatibility with all IT standards.



Optimization of Modular Components

Thanks to our customized Autocad® application, we are able to **optimize the choice of modular components** that will be part of your layout.

OPTIMIZATION
OF COSTS



3D Visualization Preview

To get a concrete idea of what your Perimeter Guard will look like, you will be provided with files in DWG and STP formats, fully compatible with all design software.

COMPATIBILITY
WITH ALL SOFTWARE

Disegna *5.0*
your perimeter in 3 easy steps

Disegna is the free design software **for our customers and distributors** that makes it easy to ask for a quote.
You can design starting from a blank page or by importing your existing layout in a standard format (DWG, PDF, etc...). You will get the list of the modules for your quotation **in just 3 steps**!

Save time for your Quote

Stock and **Shipping**

Maximum care in packing and shipments costs' containment

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.

Customer Service

Always by your side

Invoices, delivery notes, Declarations of Conformity, country of origin Declarations, product catalogs and leaflets: we take care of all the documentation you need to complete your order.

Our operators will also provide you with updates on the status of current orders, including expected departure and delivery dates.

Guide to our products

Our Customer Service will guide you in choosing Satech products, clear up any doubts and refer you to our Quotations Department **for a free, no-obligation quote.**

Questions about orders?

Our Customer Service is available to help you with **complete assistance** and to find answers to all your questions.

888-496-5144 (US toll free number)

Modular Machine Guards that fit your needs.

Tailor-made Solutions for the safety of operators and machinery

©Satech 02/2024

Protecting workers and machinery is paramount to create a safe and productive work environment. Satech Machine Guards are made in Italy in compliance with the stringent **EN ISO 14120 Standard**, "General requirements for the design and construction of fixed and movable Guards", corresponding to **ANSI/RIA R.15.06**. You can choose among **3 modular Systems and a complete range of doors and accessories** designed to fulfill your Safety needs.

All Satech products are manufactured with **quality materials** and are highly durable. Mesh panels can be **easily connected to posts** with captive retained fastenings in accordance with 2006/42/EC - Machinery Directive.

In our 20+ years of work we have contributed to the safety of thousands of automated machinery systems millions of people worldwide. Our commitment is to **make your company safer and more productive**.

SCHMERSAL
THE DNA OF SAFETY

Schmersal, Inc. USA

115 E Stevens Avenue,
Suite 208, Valhalla, NY 10595

www.schmersalusa.com

A first-class local team **to serve you anywhere**.

In the US and Canada, we partner with market leader **Schmersal USA** for a widespread distribution and also to complement our machine guarding systems with an extensive array of machine safeguarding locks, automation switches, sensors and control accessories. A **complete offer and capillary distribution** to meet your needs wherever you are.

Need a quotation?

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Modular Machine Guards

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ISO 45001