

A photograph of a large industrial machine, possibly a lathe or mill, in a factory setting. The machine is partially enclosed by a SATECH perimeter guarding system. The guarding consists of black metal mesh panels supported by yellow vertical posts. A red emergency stop button is visible on the right side of the guarding. The machine has a large, conical hopper or chute on top. The floor is a light-colored concrete.

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.**

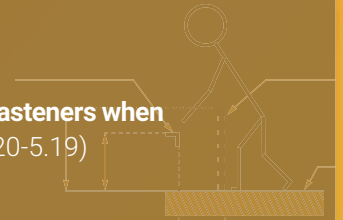
For example, perimeter Guarding must:

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

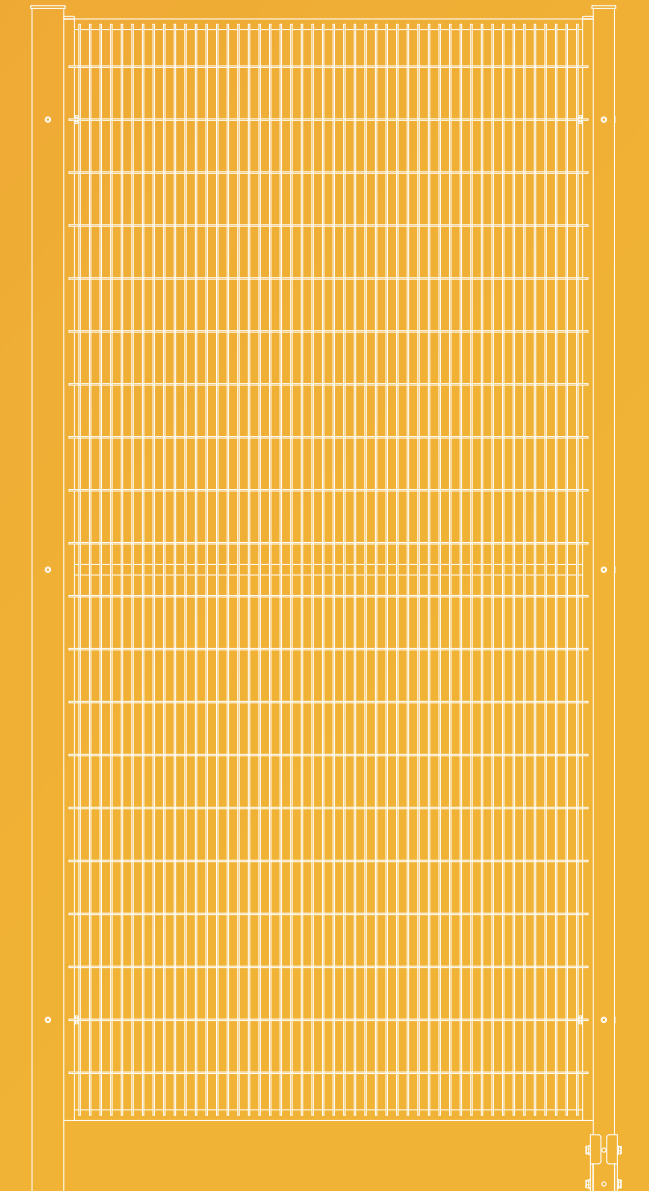
Where necessary, materials shall be selected to provide noise and vibration reduction and (...) minimize effects of resonance which can transmit or amplify noise.

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

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Satech, your ideal partner for Industrial Safety

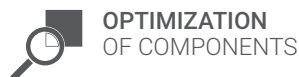
We are the first Italian Company that's specialized in the manufacturing of Standard-compliant Modular Machine Guard Systems. Since 2000, we have been designing Industrial Safety Solutions with high-quality products that are modular and easy to assemble.



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.

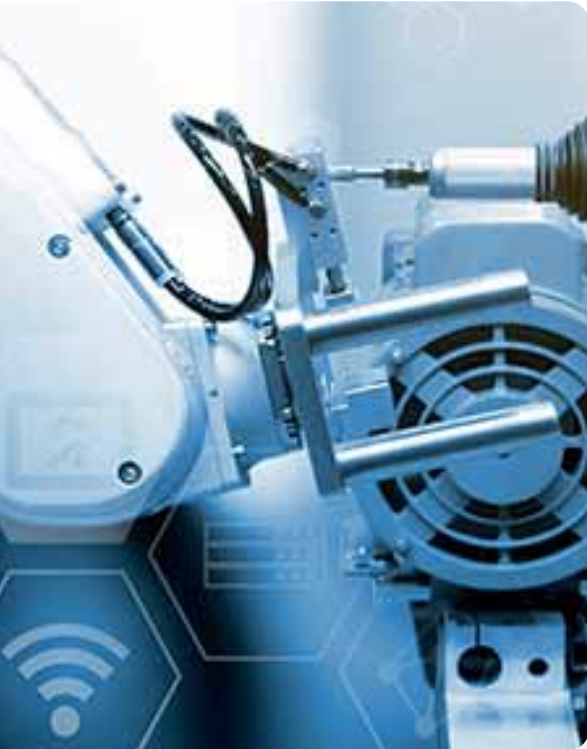


**INTEGRATED MANAGEMENT
OF ALL PROCESSES**

4 **Direct offices**
Between Europe and Japan

5 **Standard Systems**
stock-ready

20K **Square meters**
of production area



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.



ISO 9001
BUREAU VERITAS
Certification



Craftsmanship

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.



ISO 14001
BUREAU VERITAS
Certification



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

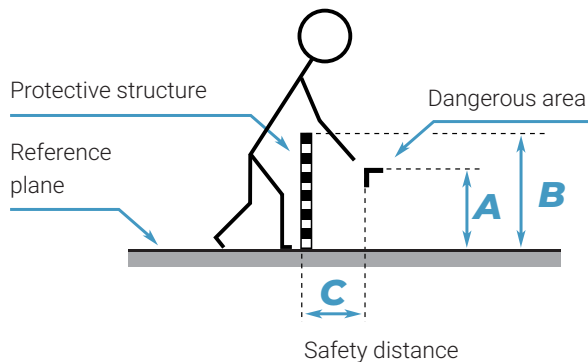


Table 2

dimensions in mm

A	Horizontal distance to hazard zone C										
	B 1000	1200	1400	1600	1800	2000	2200	2400	2500	2700	
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		$e \leq 4$	≥ 2	≥ 2	≥ 2
		$4 < e \leq 6$	≥ 10	≥ 5	≥ 5
Finger up to knuckle joint		$6 < e \leq 8$	≥ 20	≥ 15	≥ 5
		$8 < e \leq 10$	≥ 80	≥ 25	≥ 20
		$10 < e \leq 12$	≥ 100	≥ 80	≥ 80
Hand		$12 < e \leq 20$	≥ 120	≥ 120	≥ 120
		$20 < e \leq 30$	≥ 850 (1)	≥ 120	≥ 120
Arm up to junction with shoulder		$30 < e \leq 40$	≥ 850	≥ 200	≥ 120
		$40 < e \leq 120$	≥ 850	≥ 850	≥ 850

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.

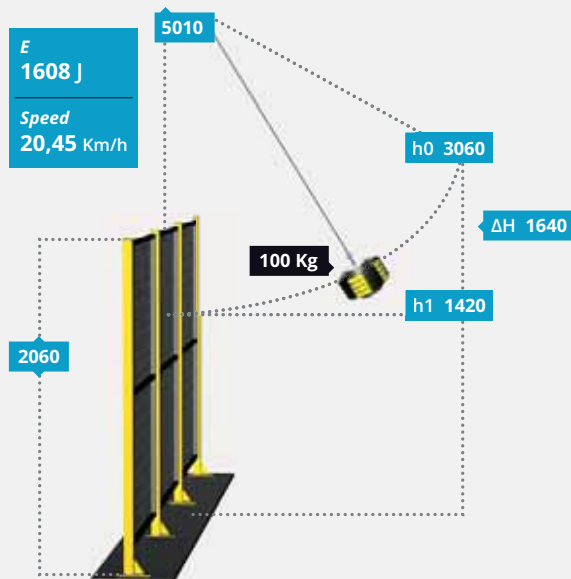
Table 7

dimensions in mm

Part of lower limb	Illustration	Opening	Safety distance S_r Slot Square or round	
Toe tip		$e \leq 5$	0	0
		$5 < e \leq 15$	≥ 10	0
Toe		$15 < e \leq 35$	≥ 80 (1)	≥ 25
		$35 < e \leq 60$	≥ 180	≥ 80
Foot		$60 < e \leq 80$	≥ 650	≥ 180
		$80 < e \leq 95$	≥ 1100	≥ 650
Leg (toe tip to knee)		$95 < e \leq 180$	≥ 1100	≥ 1100
		$180 < e \leq 240$	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



DECLARATION OF
CONFORMITY
EN ISO 14120



Visibility

EN ISO 14120-5.9

The vertical mesh shape ensures excellent machinery visibility



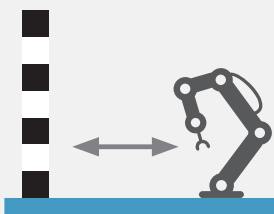
Anti-climbing

EN ISO 14120-5.18

The horizontal wires welded on the inside prevent climbing

Less distance, more space saved

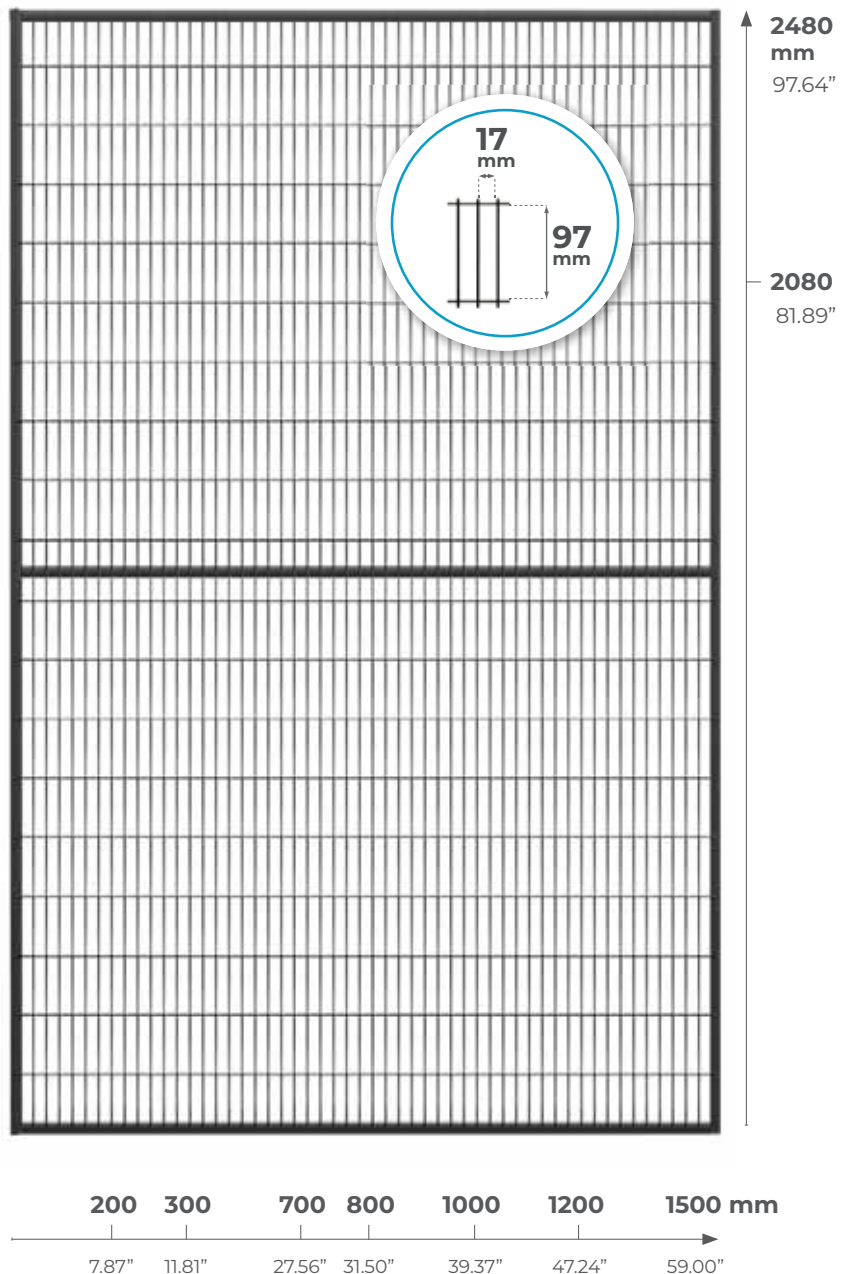
The **17x97 mm** mesh slot allows to install the Guard only **120 mm** from hazard (EN ISO 13857), reducing the **amount of space** occupied by the safety perimeter.



120 mm

The Satech Modular Framed Panel

7 standard widths and 2 standard heights



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.

FullSteel

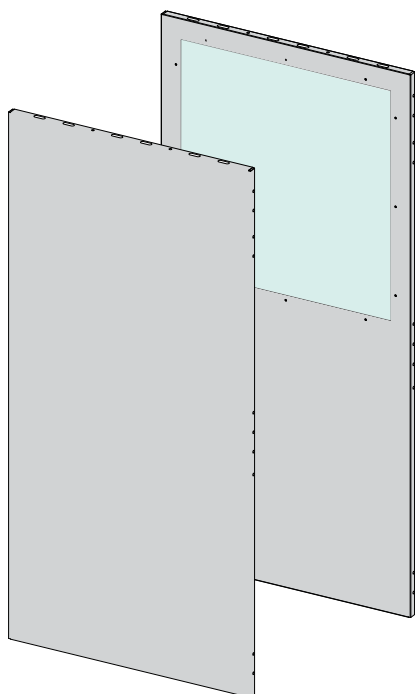
Maximum Robustness and Privacy



STANDARD
NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP

FullSteel 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

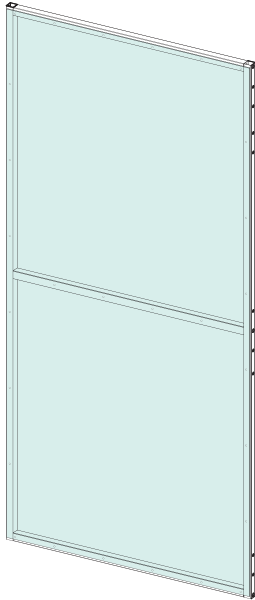
Sheet metal
1,2 mm thickness

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

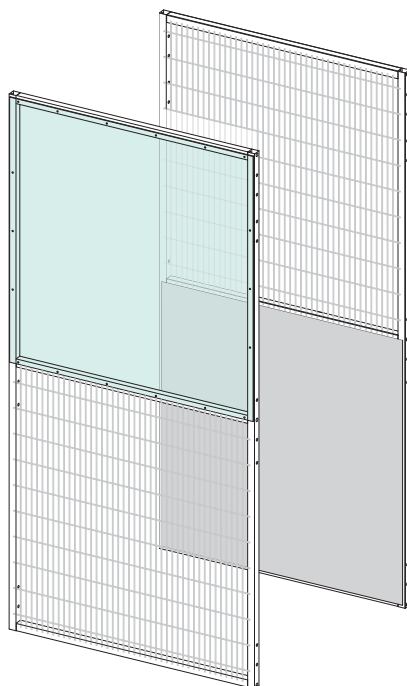
- ✓ "Easy" assembly - Quick Clamp
- ✓ "Impact" assembly - Captive Nuts and Bolts

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



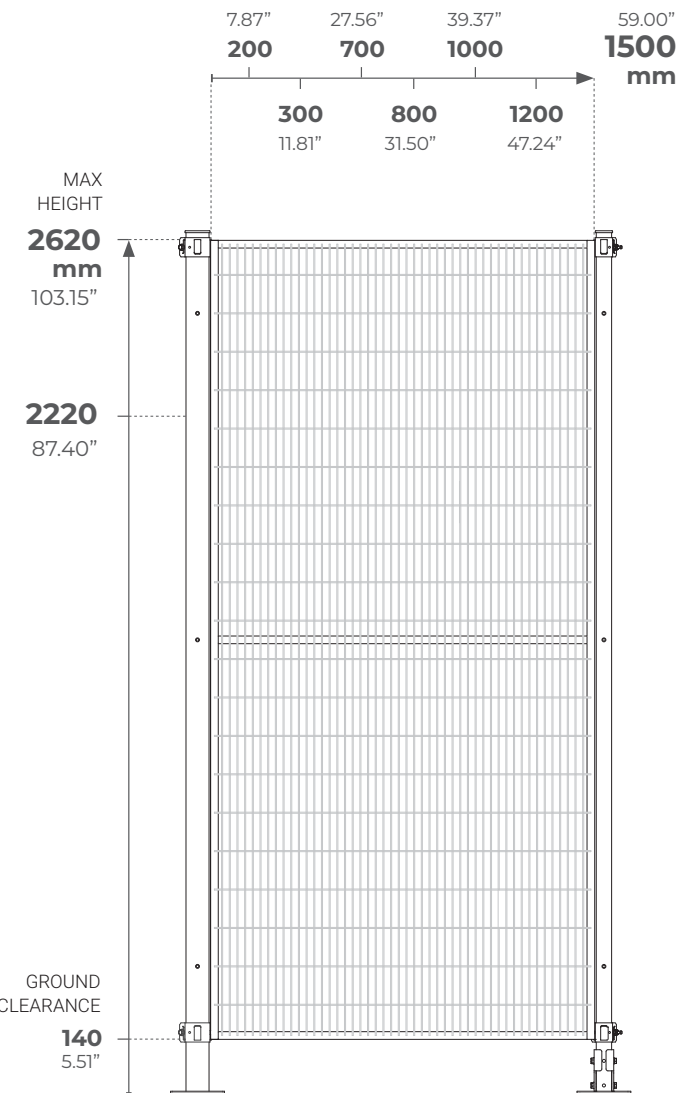
NEW SYSTEM

EasyGuard

Handiness

The functional and ergonomic Perimeter Guard

FRAME mm	POST mm	POST mm
20	40	60
	EasyGuard 40	EasyGuard 60



Practical

EasyGuard 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

EasyGuard 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

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

Posts

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	<div>● RAL 9005</div> <div>● RAL 1021</div>	<div>● CustomGuard Colors</div>
COATING	Powder (for indoor use only)	

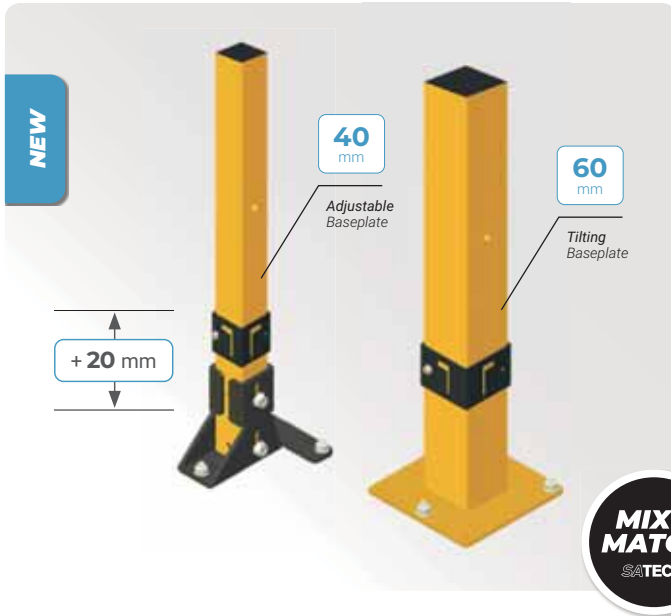


A versatile System that is simple and practical.

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

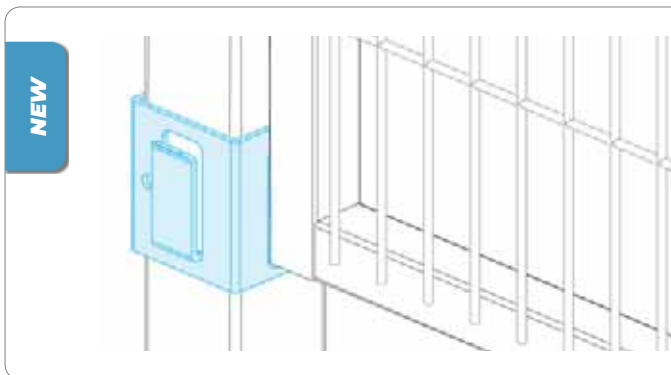
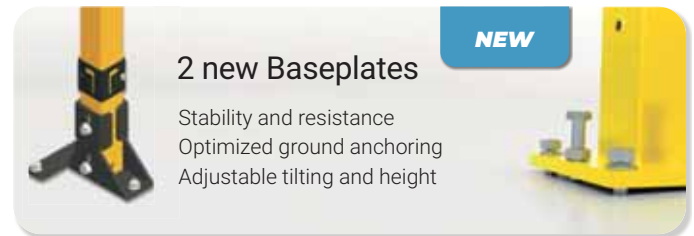


Tested for up to
250 J



New “Mix & Match” posts

EasyGuard 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

EasyGuard'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 EasyGuard Perimeter Guard?



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

Price range

\$\$ / \$\$\$

Speed of assembly



Min. Distance from Hazard (mm)

120
(EN ISO 13857)

Non-mesh Panel options
(FullSteel, transparent sheet, mixed)



Modular and universal



Easy and intuitive assembly



Compatible with all accessories and doors



Wide range of panel options



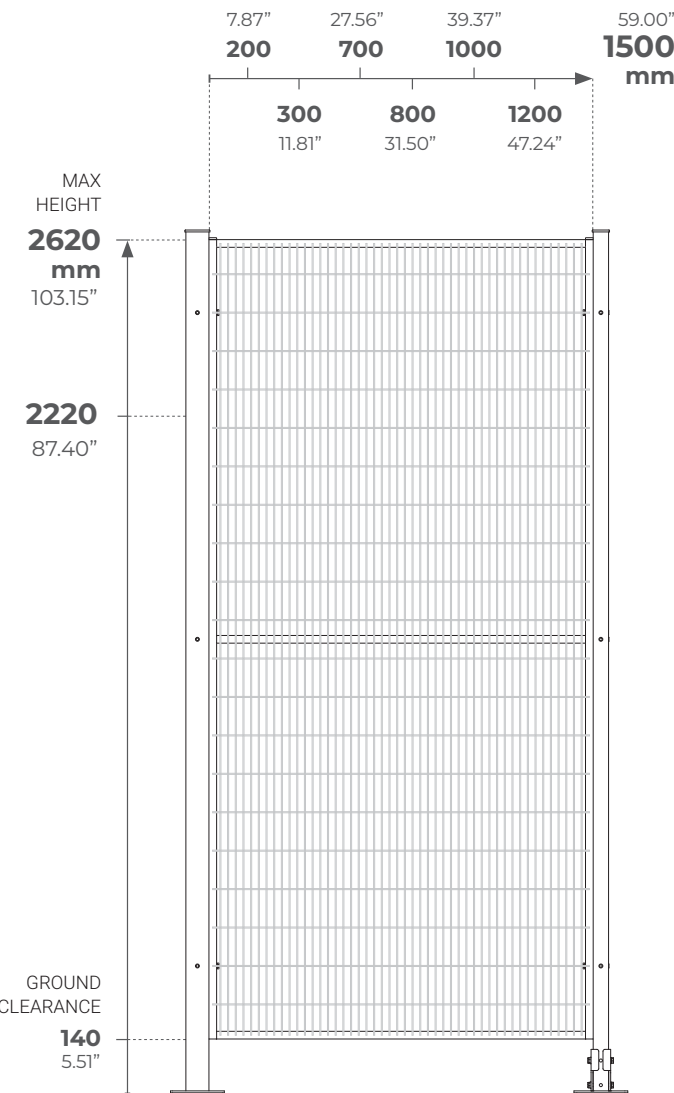
NEW SYSTEM

ImpactGuard

Robustness and Durability

The sturdiest and most durable Perimeter Guard

FRAME mm	POST mm	POST mm
20	40	60
	ImpactGuard 40	ImpactGuard 60



Robust

ImpactGuard 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, ImpactGuard 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

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

Posts

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

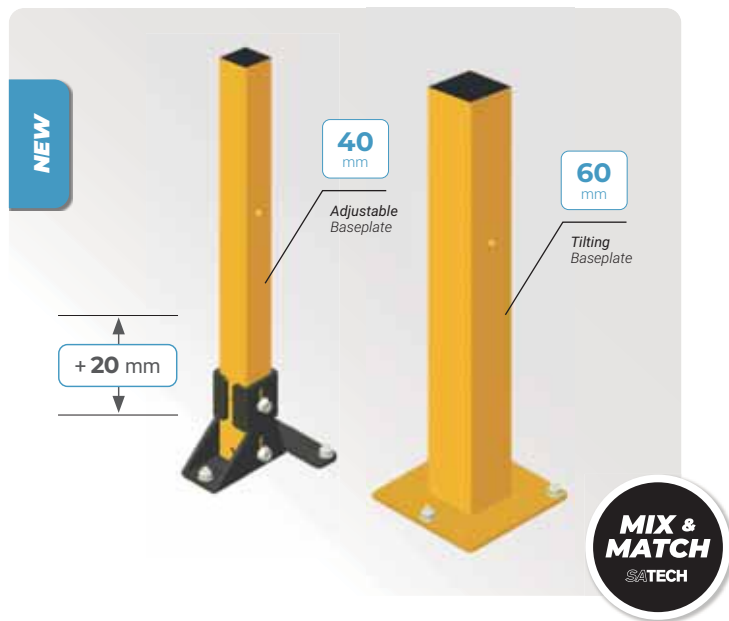
Colors

RAL COLORS	RAL 9005	RAL 1021	
COATING	Powder (for indoor use only)		



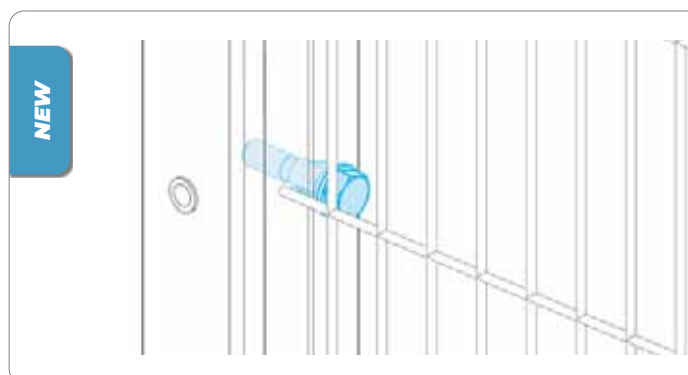
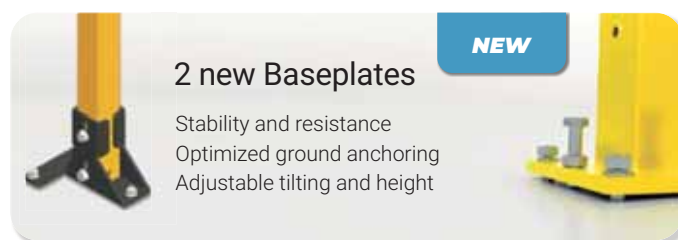
Simple, universal, durable in all conditions.

Two options for posts, full compatibility with all Satech products and maximum personalization: ImpactGuard 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 ImpactGuard 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 ImpactGuard Perimeter Guard?



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

Price range

\$\$ / \$\$\$

Speed of assembly



Min. Distance from Hazard (mm)

120
(EN ISO 13857)

Non-mesh Panel options
(FullSteel, transparent sheet, mixed)



**Modular and robust,
even for heavy-duty applications**



2 “Mix & Match” post options



**Compatible with all
accessories and doors**



Wide range of panel options



FastGuard

1,2,3 Done!

The Safety Fence with the quickest assembly

FRAME
mm
20

Fast

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

Simple

FastGuard 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

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

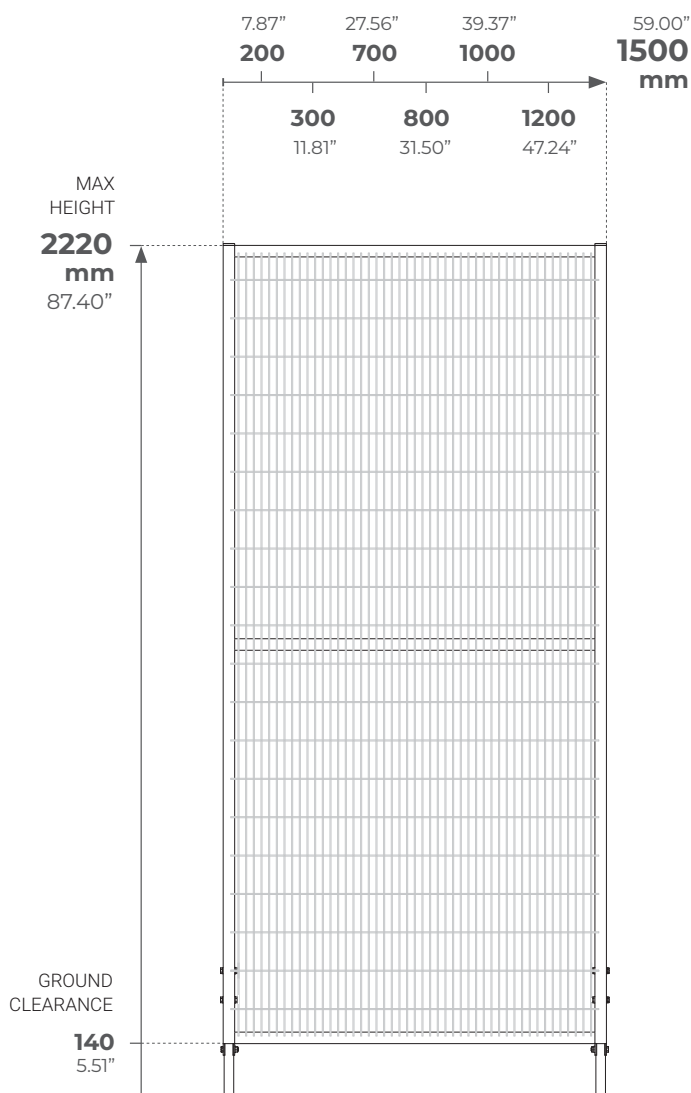
20
mm

Baseplates

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

Colors

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



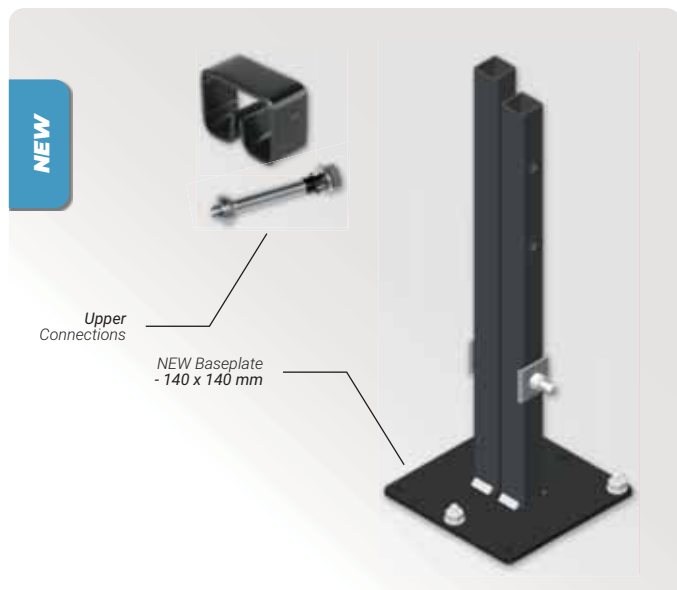


Great time saving, maximum effectiveness

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



tested for up to
390 J



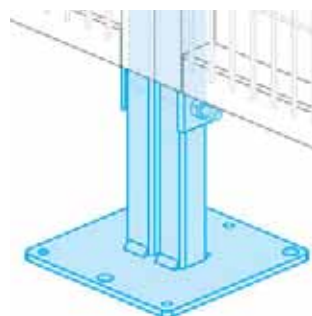
Simplicity and stability

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**.



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?



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

Price range

\$

Speed of assembly



Min. Distance from Hazard (mm)

120
(EN ISO 13857)

Non-mesh Panel options
(FullSteel, transparent sheet, mixed)

-



Modular, Extra-rapid and convenient



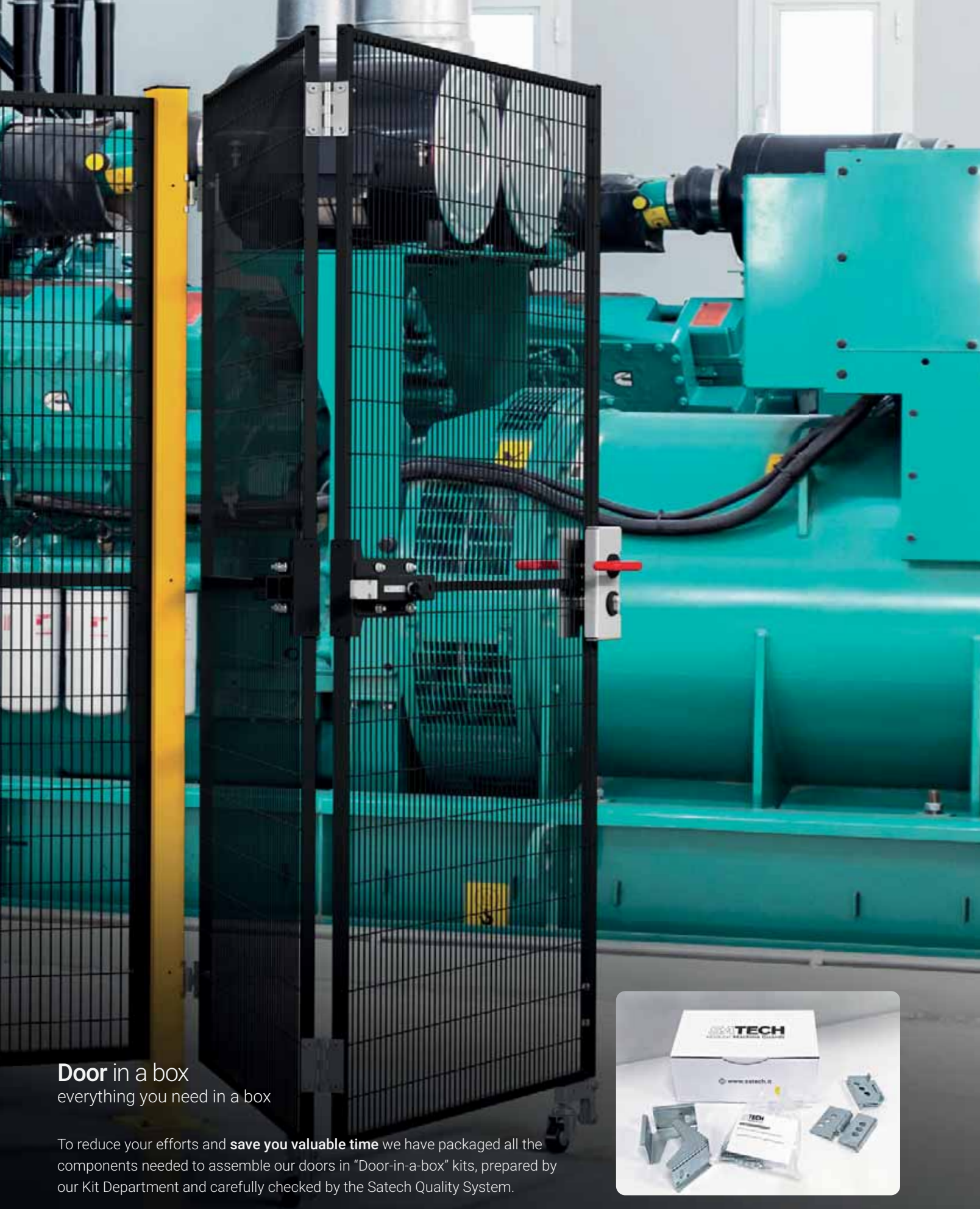
Self-supporting, without posts



Compatible with all accessories and doors



Wide range of panel options



Door in a box
everything you need in a box

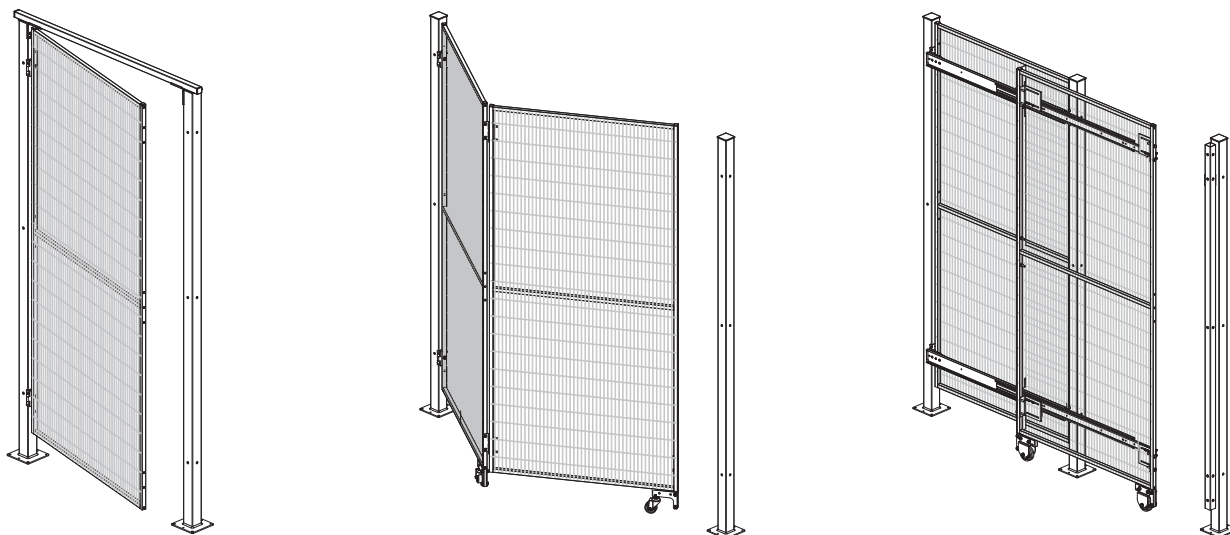
To reduce your efforts and **save you valuable time** we have packaged all the components needed to assemble our doors in “Door-in-a-box” kits, prepared by our Kit Department and carefully checked by the Satech Quality System.



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 CustomGuard 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 (full mesh, transparent sheet, mixed) or with FullSteel 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

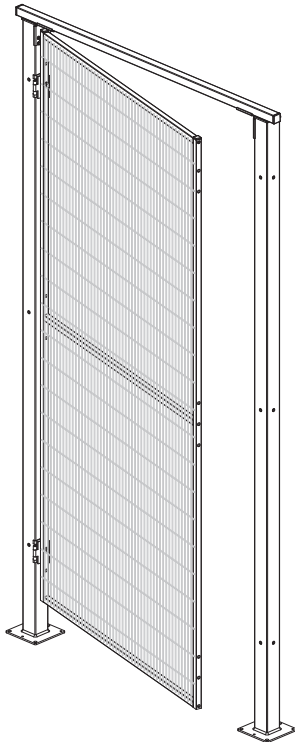
For man passage

POST
mm
40

POST
mm
60



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

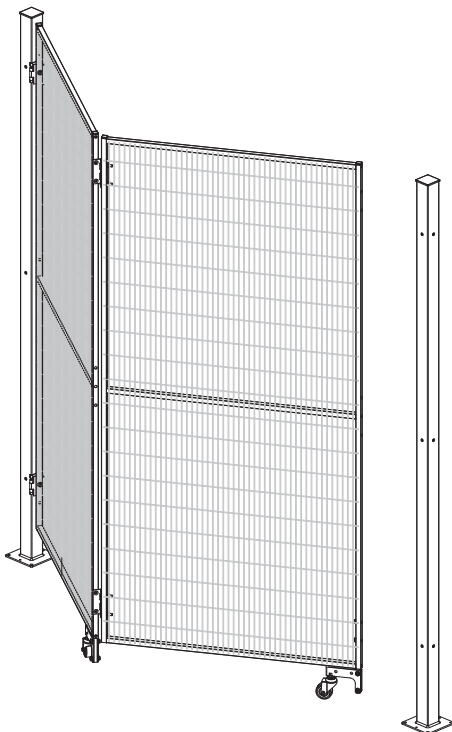
Space saving

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

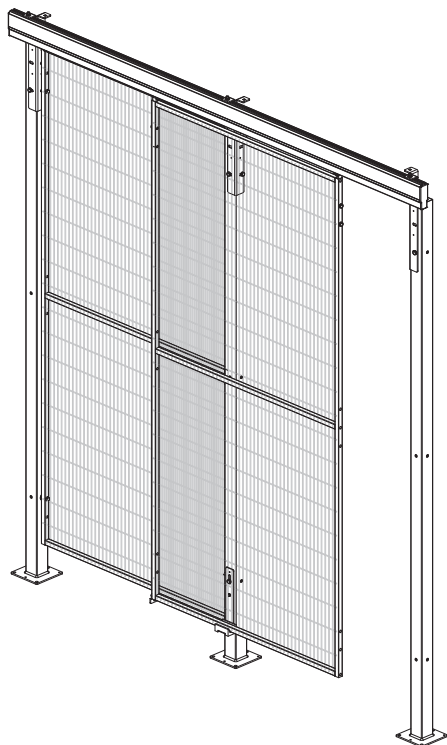


NEW

Sliding Door

Upper Guide

 POST
mm
40

 POST
mm
60

 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

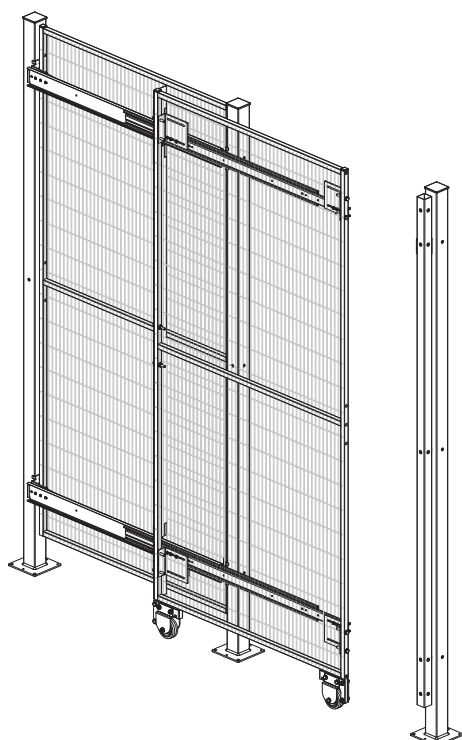
IDEAL FOR

**NEW**

Sliding Door

Open Passage TX

 POST
mm
40

 POST
mm
60

 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

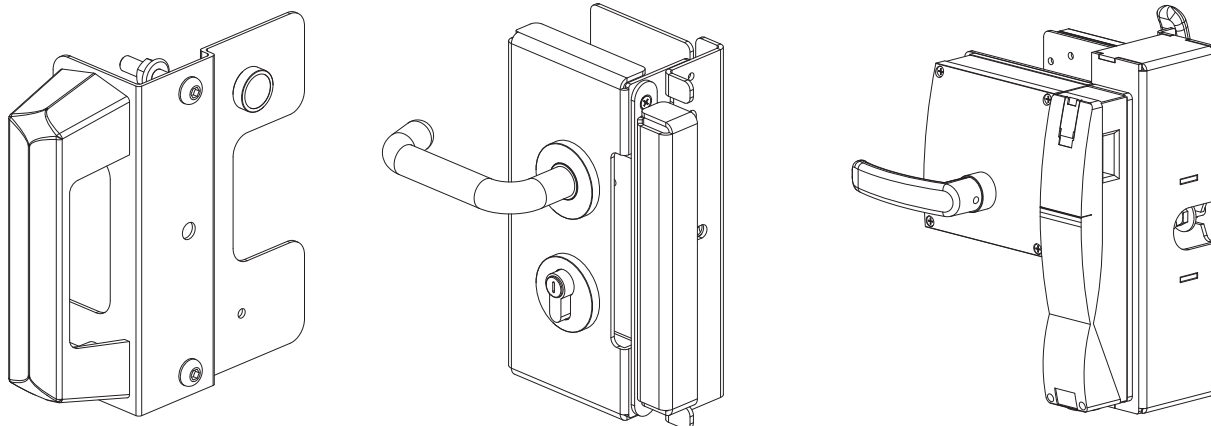




Locking Systems

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 systems and Performance Level Required

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

+150 Locking Solutions available

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**.



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.

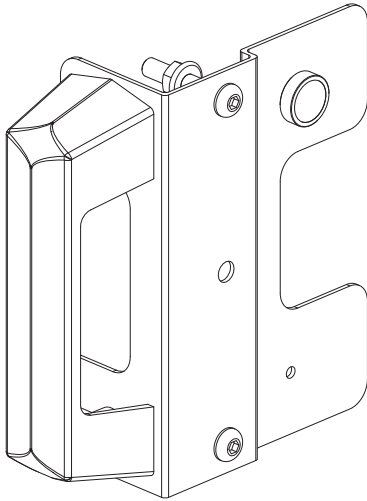
Magnet Lock

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

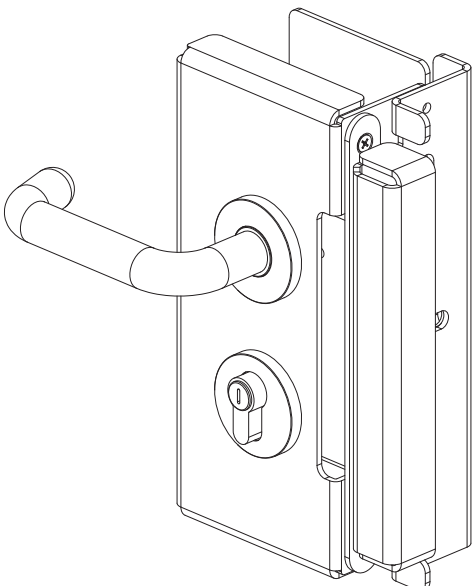
Mechanical Locks

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

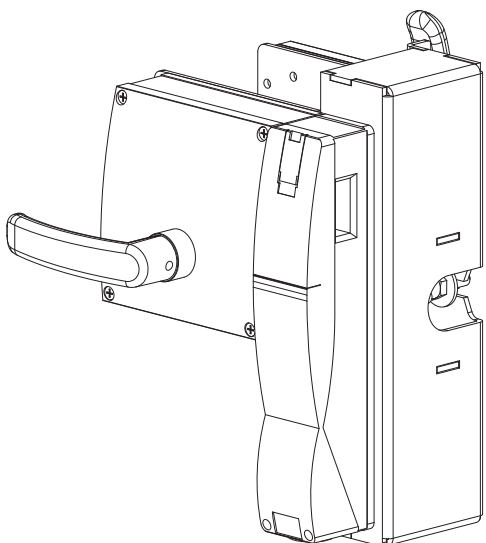
✓ With panic handle

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.



www.schmersalusa.com/products



MIN. ORDER PREPARATION TIME:
6 BUSINESS DAYS

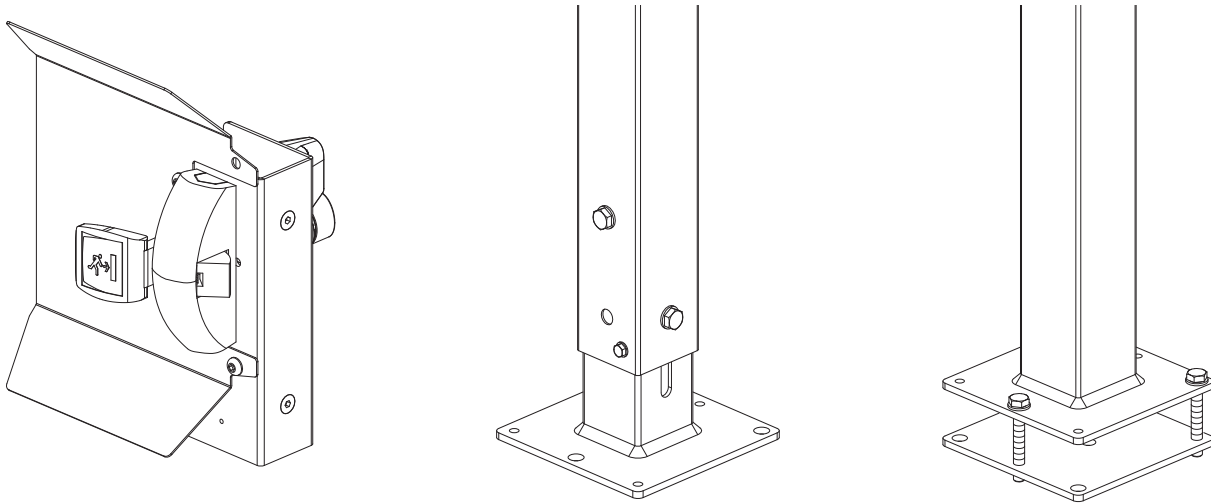




Accessories and Brackets

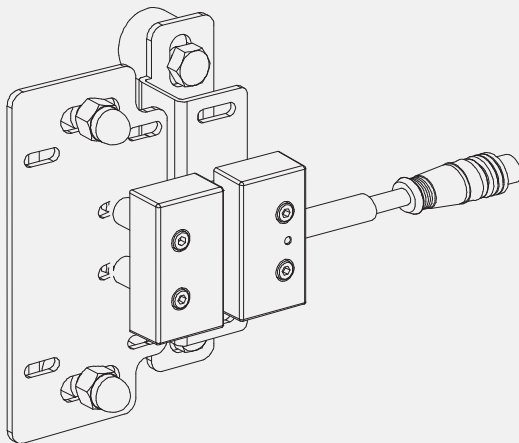
Personalization and functionality

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



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. CustomGuard brackets, on the other hand, are custom designed for any type of Safety Switch, lock and interlock.

VERSIONS AVAILABLE

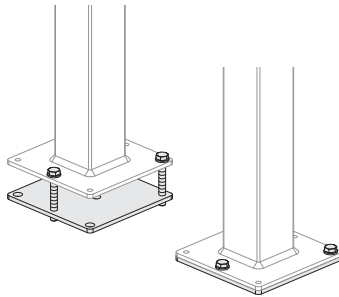
- ✓ All major brands
- ✓ CustomGuard (custom design)

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

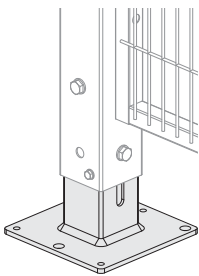
- ✓ galvanized (for gratings)
- ✓ steel (for welding)

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

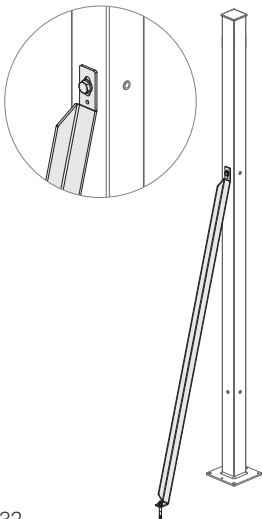
- ✓ 40 x 40 mm
- ✓ 60 x 60 mm

COMPATIBILITY

POST
mm
40

POST
mm
60

Stabilizing Post support strut



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

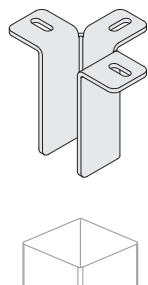
- ✓ 40 x 40 mm

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.

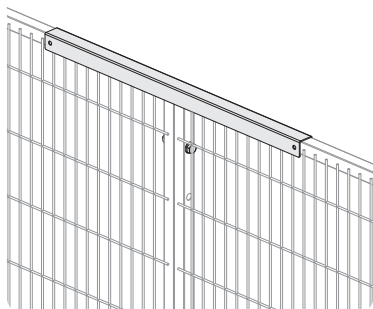
VERSIONS AVAILABLE

- ✓ 40 x 40 mm
- ✓ 60 x 60 mm

COMPATIBILITY



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.

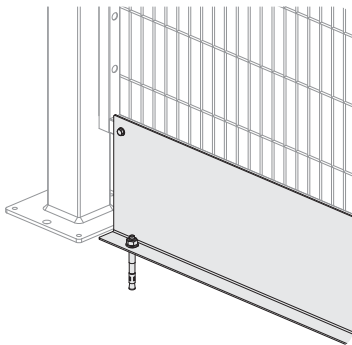
VERSIONS AVAILABLE


- ✓ 20 x 20 mm

COMPATIBILITY



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

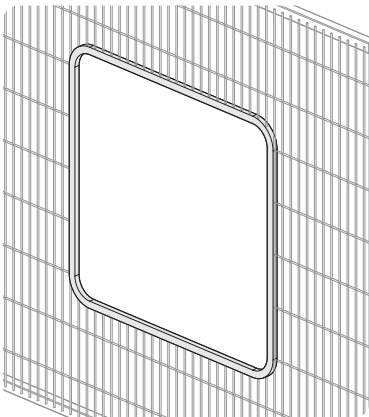
- ✓ For framed panels

COMPATIBILITY

FRAME
mm

20

Rubber Profile





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

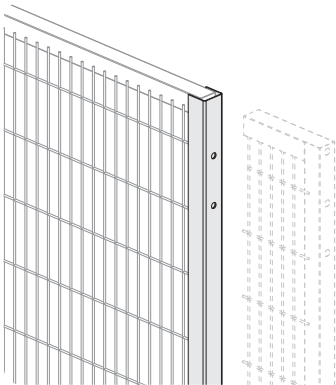
- ✓ Universal - different sizes available

COMPATIBILITY

FRAME
mm

20

Cutting Kit for framed panels





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

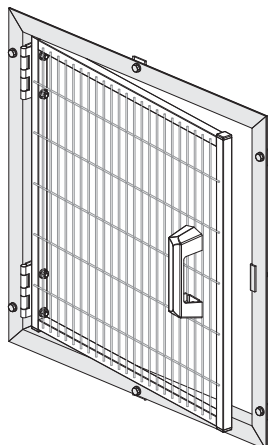
- ✓ Different sizes available

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.

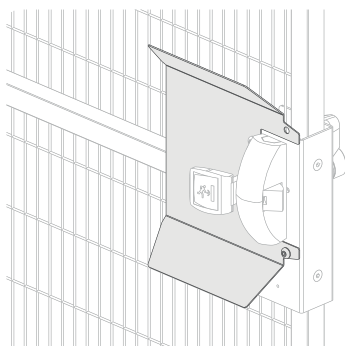
VERSIONS AVAILABLE

- ✓ 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.

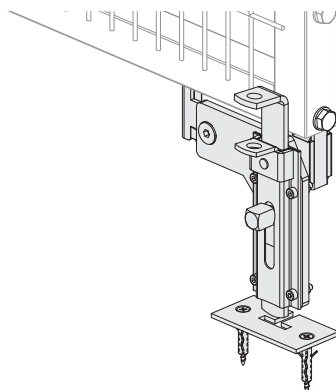
VERSIONS AVAILABLE

- ✓ Universal

COMPATIBILITY

FRAME
mm
20

Ground latch for doors



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



CustomGuard

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 CustomGuard 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**.

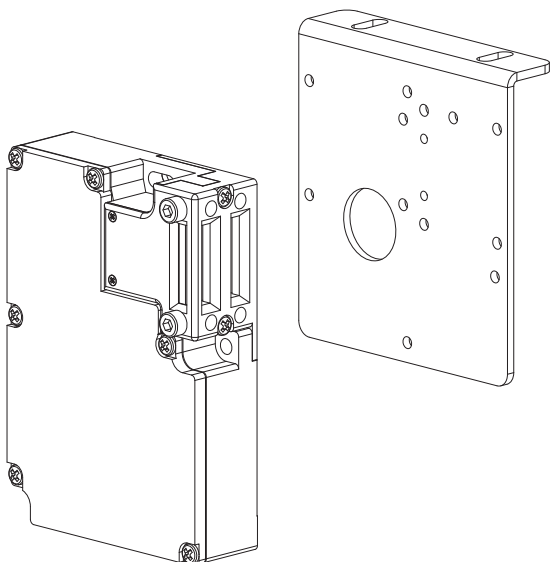


STANDARD
NON-STOCK

MIN. ORDER PREPARATION TIME:
ASK YOUR LOCAL SALES REP



CustomGuard Brackets



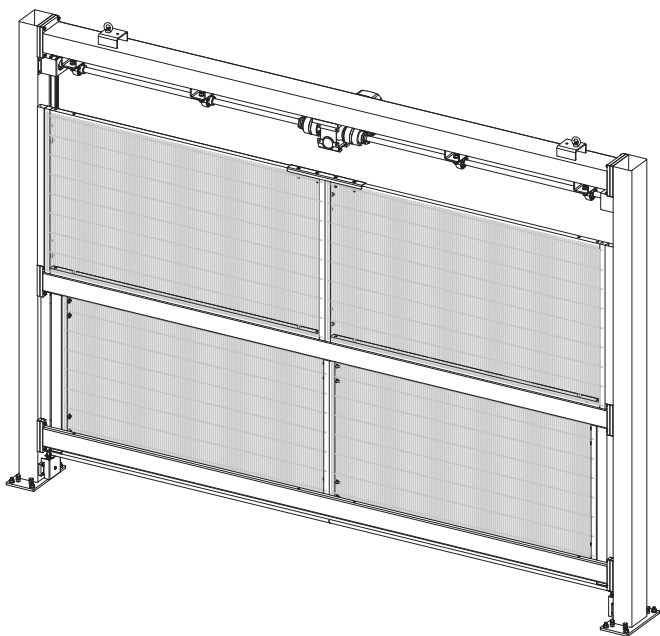
14

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.



CustomGuard Doors



25-35

MIN. ORDER PREPARATION TIME:
25 TO 35 BUSINESS DAYS

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



OPTIONS AVAILABLE

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

OPENINGS

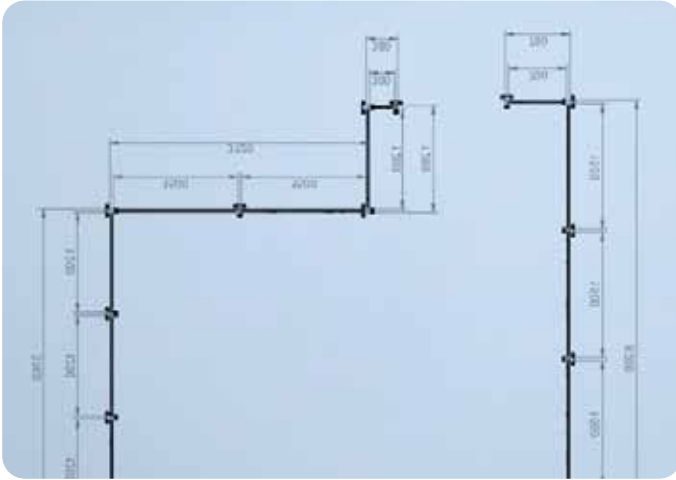
upon request -
up to 15 meters

IDEAL FOR



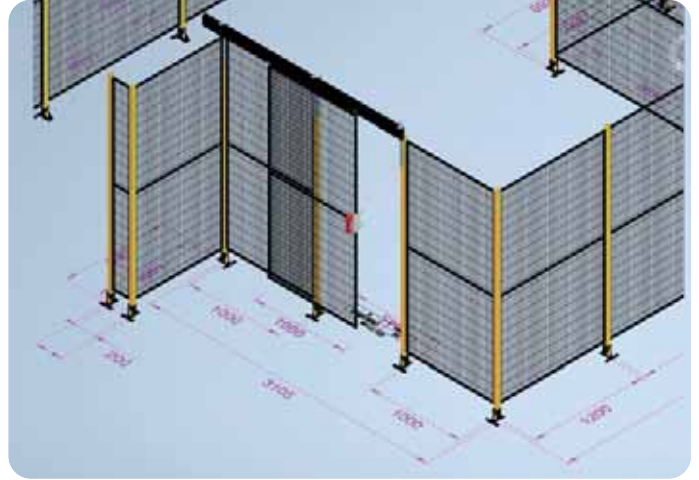
Autocad® and Inventor Design Solutions tailor-made for you

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.



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.



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



Download it for free!



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



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, 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?

If you're looking for an **obligation-free offer**
or a **free consultation**, drop us a line on

USAMachineGuards
www.usamachineguards.com

Get an offer **NOW !**



SATECH
Modular Machine Guards

Satech Safety Technology SpA

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Phone +39 031 86230 11

