

**SCY DOOR  
SYSTEMS**



**PRODUCT BROCHURE  
SAFETY BARRIER**



# INTRODUCTION

## Polymer Safety Barrier

The SCY polymer safety barrier is designed to create a safer workplace by providing effective protection for people, helping to save lives. Our goal is to eliminate injuries and fatalities caused by accidents in public spaces and workplaces.

Our barriers are made from advanced polymer materials with self-recovery capabilities. They can absorb, delay, and neutralize the force of impact, then return to their original shape after the impact. The SCY project team tackles complex challenges and pushes the boundaries of innovation to develop safety solutions that protect people and assets.

All SCY barrier strength tests are conducted under the supervision and control of TÜV Rheinland, ensuring that our products meet the highest safety standards.

### Innovative three-layered material

Our barriers are engineered with a cutting-edge 3-layered structure:

1. Core strength from internal structure
2. Central zone for absorbing impact
3. UV-Resistant outer colour layer

#### Advantage



Through molecular reorientation during the manufacturing process, the material develops a unique built-in memory. This feature enables the barrier to fully recover its original shape after impact, ensuring long-term performance and reduced maintenance costs.



# BOLLARD

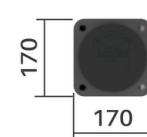
## SCY Safety Bollard

Designed to protect various industrial areas, providing reliable protection for vulnerable spots such as entrance gates, access ways, corners, machinery, structural columns, electrical switchgear, and building facades. Built for strength and durability, its bright yellow colour ensures high visibility to drivers, encouraging safer driving behaviour. The appropriate type of bollard should be selected based on the location's vulnerability and the weight and speed of moving vehicles.

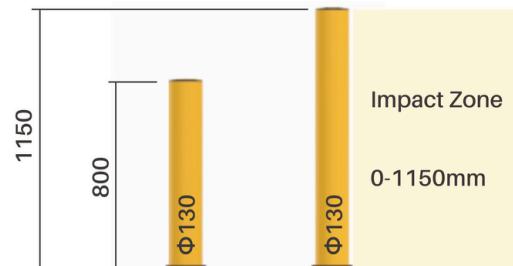


### MODEL SBA113

<b>Height</b>	800/1150mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	3000 J
<b>Colour</b>	RAL 1003, Signal Yellow
<b>Temp</b>	-5 ~ 50 °C

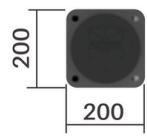


Base  
Electrostatic spraying  
Spray coating on base  
for increased corrosion  
resistance

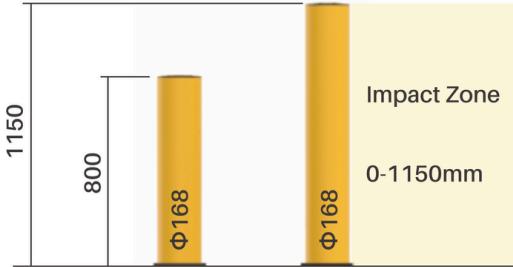


### MODEL SBA117

<b>Height</b>	800/1150mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	3600 J
<b>Colour</b>	RAL 1003, Signal Yellow
<b>Temp</b>	-5 ~ 50 °C

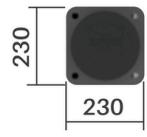


Base  
Electrostatic spraying  
Spray coating on base  
for increased corrosion  
resistance

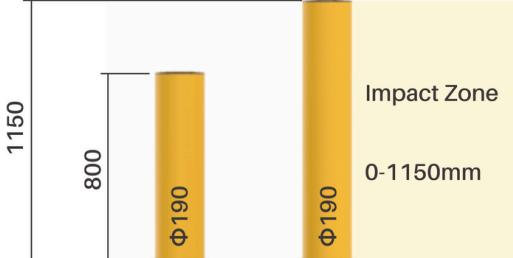


### MODEL SBA119

<b>Height</b>	800/1150mm
<b>Fixing</b>	M12 Included
<b>Impact</b>	6900 J
<b>Colour</b>	RAL 1003, Signal Yellow
<b>Temp</b>	-5 ~ 50 °C



Base  
Electrostatic spraying  
Spray coating on base  
for increased corrosion  
resistance



# BOLLARD

## Application

Protect gates, access ways, corners, pipe, electric box and machinery from:



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



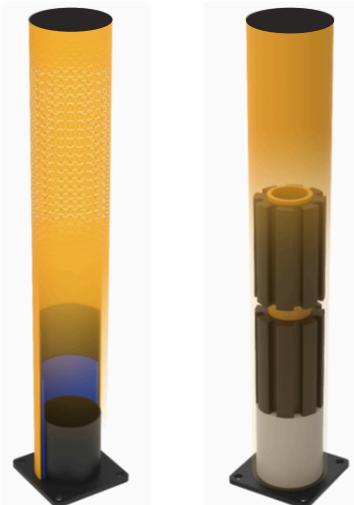
4.Forklift



5.Car



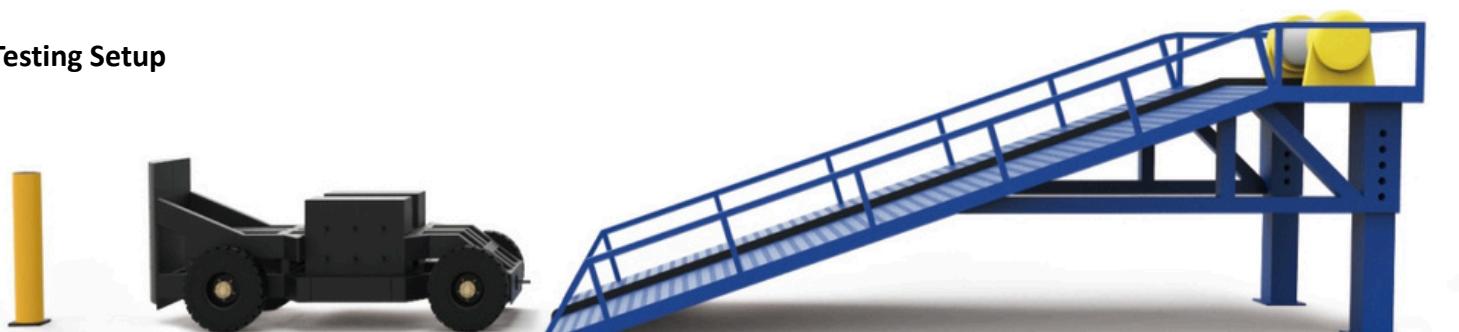
6.Truck



## Certification



## Testing Setup



# SINGLE RAIL FLEXIBLE SAFETY BARRIER

## SCY Single Rail Flexible Safety Barrier

Designed to protect various industrial areas, it offers reliable protection for vulnerable spots such as storage racks, machinery, electrical boxes, conveyors, walls, corners, and building facades. Strong and durable, its bright yellow colour is highly visible to drivers, encouraging safe driving.

### MODEL SBA210



**Height** 300/500mm

**Fixing** M10 Included

**Impact** 3850 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



### MODEL SBA215



**Height** 450mm

**Fixing** M10 Included

**Impact** 14400 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



### MODEL SBA219



**Height** 450mm

**Fixing** M12 Included

**Impact** 21350 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



# SINGLE RAIL FLEXIBLE SAFETY BARRIER

## Application

Protection of storage racks, machinery, electric box, conveyer, walls and corners from:



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift



## Certification



## Testing Setup



# DOUBLE RAIL FLEXIBLE SAFETY BARRIER

## SCY Double Rail Flexible Safety Barrier

Designed to protect various industrial areas, they provide reliable protection for strategic, vulnerable locations such as the front of racks and machinery, electrical boxes, walls, corners, and building facades. Ideal for areas exposed to damage from forklifts and industrial trucks, they are strong and durable. The bright yellow colour ensures high visibility, drawing drivers' attention and promoting safe driving.

### MODEL SBA310



**Height** 500 mm

**Fixing** M10 Included

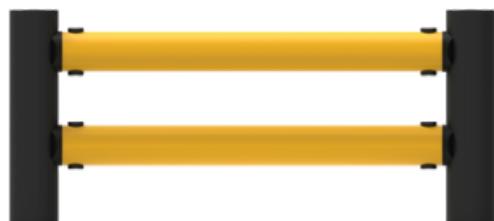
**Impact** 6780 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



### MODEL SBA315



**Height** 800 mm

**Fixing** M10 Included

**Impact** 19000 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



### MODEL SBA319



**Height** 800 mm

**Fixing** M12 Included

**Impact** 21350 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



# DOUBLE RAIL FLEXIBLE SAFETY BARRIER

## Application

Protect front of racks, machinery, electric box, walls, corners and building facades from:



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift



## Certification



## Testing Setup



# TRIPLE RAIL PEDESTRIAN BARRIER

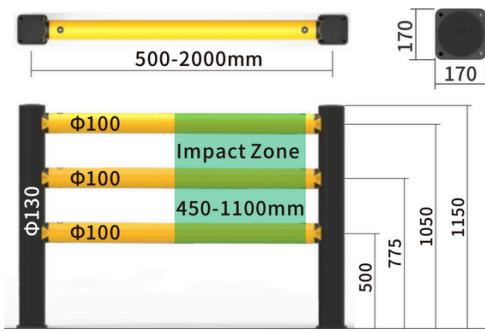
## SCY Triple Rail Pedestrian Barrier

Designed to protect pedestrians, it defines walkways in reception areas, offices, and other facilities, helping to guide both pedestrians and drivers for more organized operations. It prevents pedestrians from accidentally entering vehicle routes or unsafe areas.

## MODEL SBA410



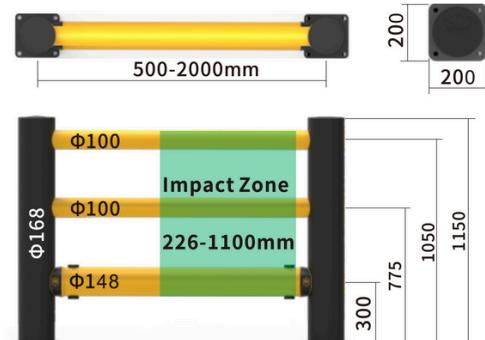
<b>Height</b>	1150 mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	8760 J
<b>Colour</b>	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
<b>Temp</b>	-5 ~ 50 °C



## MODEL SBA415



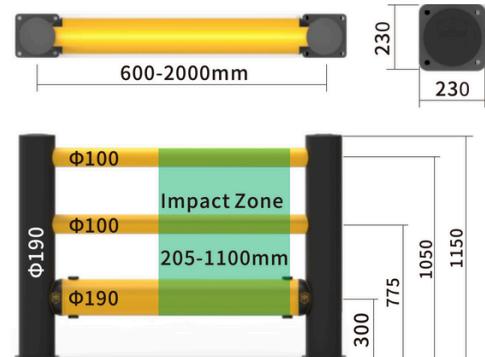
<b>Height</b>	1150 mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	14400 J
<b>Colour</b>	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
<b>Temp</b>	-5 ~ 50 °C



## MODEL SBA419



<b>Height</b>	1150 mm
<b>Fixing</b>	M12 Included
<b>Impact</b>	21350 J
<b>Colour</b>	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
<b>Temp</b>	-5 ~ 50 °C



# TRIPLE RAIL PEDESTRIAN BARRIER

## Application

Protect walk way, access way, office and racking system from:



1. People



2. Pallet Truck



3. Electric Stacker



4. Reach Truck



5. Forklift



## Certification



## Testing Setup



# COLUMN PROTECTION BARRIER

## SCY Column Protection Barrier

Designed to protect columns and building supports of any size and shape, it offers 360° protection against structural and infrastructure damage. The column protection can be installed at various heights using different rails, and product dimensions can be customized to meet site-specific requirements.

## MODEL SBA510



**Height** 1150 mm

**Fixing** M10 Included

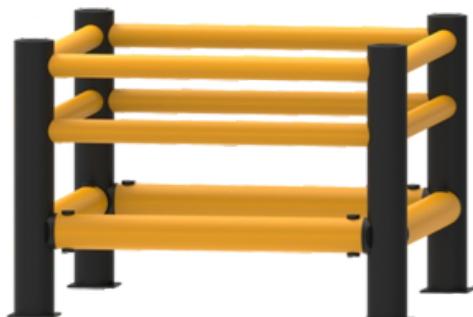
**Impact** 8760 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



## MODEL SBA515



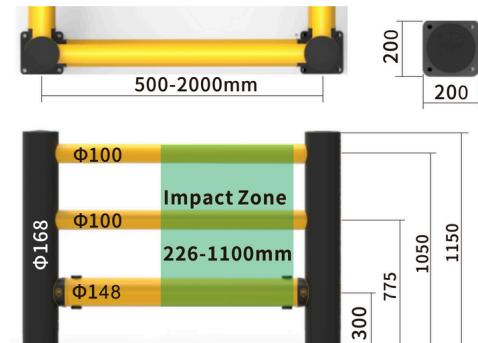
**Height** 1150 mm

**Fixing** M10 Included

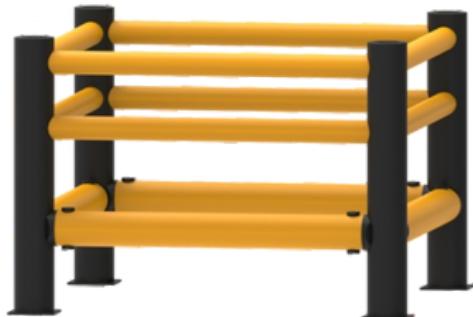
**Impact** 14400 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



## MODEL SBA519



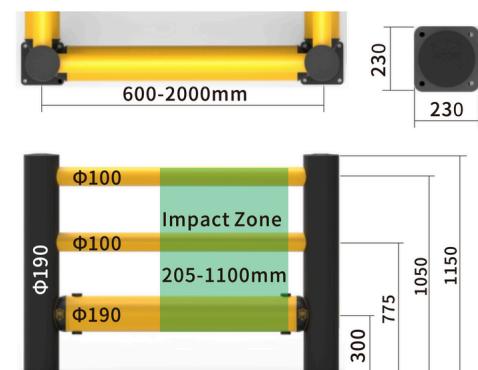
**Height** 1150 mm

**Fixing** M12 Included

**Impact** 21350 J

**Colour** Rail: RAL 1003, Signal Yellow  
Post: RAL 9005, Jet Black

**Temp** -5 ~ 50 °C



# COLUMN PROTECTION BARRIER

## Application

Protect columns and infrastructure from:



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift



## Certification



## Testing Setup



# GROUND PROTECTION BARRIER

## SCY Ground Protection Barrier

Designed to protect against vehicle forks, it safeguards walls, AGV zones, charging stations, rack fronts, bulk pallet areas, loading bays, storage spaces, and critical ground-level structures and equipment. It can also serve as a pallet stop to prevent stored goods from shifting.

## MODEL SBA619



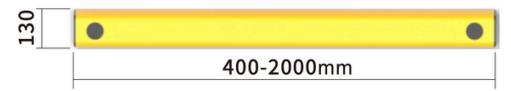
**Height** 190 mm

**Fixing** M20/M16 Included

**Impact** 5800 J

**Colour** Rail: RAL 1003, Signal Yellow

**Temp** -5 ~ 50 °C



## MODEL SBA611



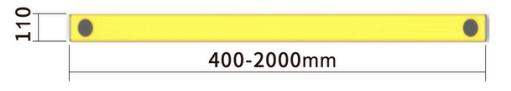
**Height** 110 mm

**Fixing** M20/M16 Included

**Impact** 5800 J

**Colour** Rail: RAL 1003, Signal Yellow

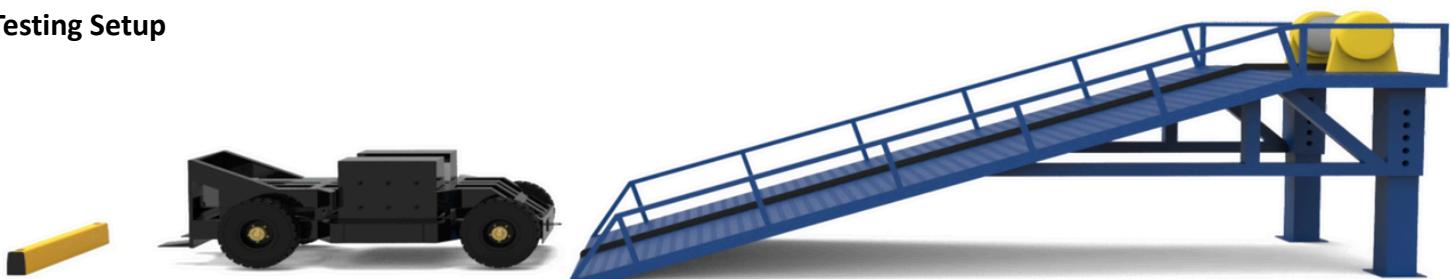
**Temp** -5 ~ 50 °C



## Certification



## Testing Setup



# GROUND PROTECTION BARRIER

## Application:

Protects front of racks, machinery, electric box, walls, corners and building facades from:



1.Pallet Truck



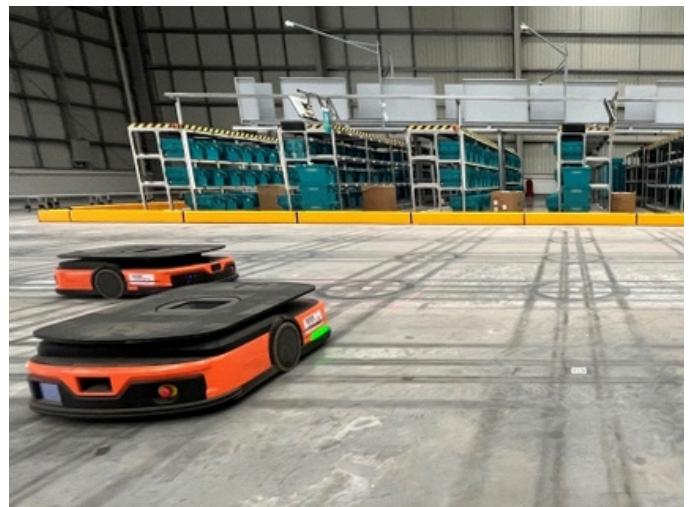
2.Electric Stacker



3.Reach Truck



4.Forklift



# IMPACT RACKSHIELD

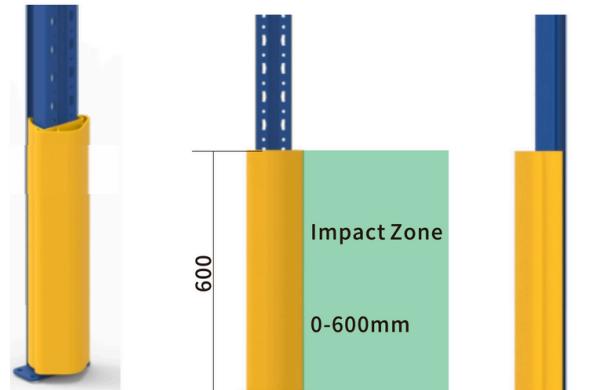
## SCY Impact Rackshield

Designed to protect warehouse racks from damage caused by forklifts or pallets, our full range of polymer materials helps prevent harm to shelving and racking systems.



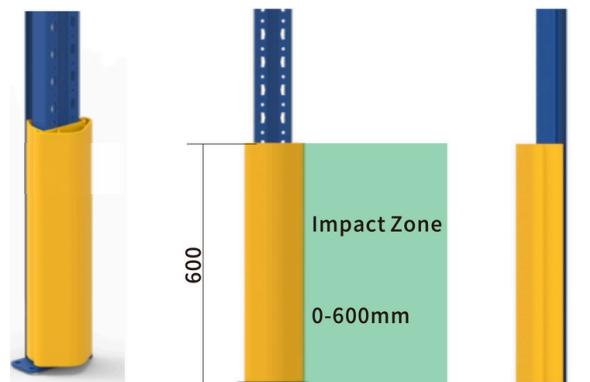
### MODEL SBA710

<b>Height</b>	600 mm
<b>Fixing</b>	No Bolt Needed
<b>Impact</b>	1000 J
<b>Colour</b>	RAL 1003, Signal Yellow Customizable Logo
<b>Temp</b>	-5 ~ 50 °C
<b>Note</b>	For racking upright width: 80 mm ~ 100 mm

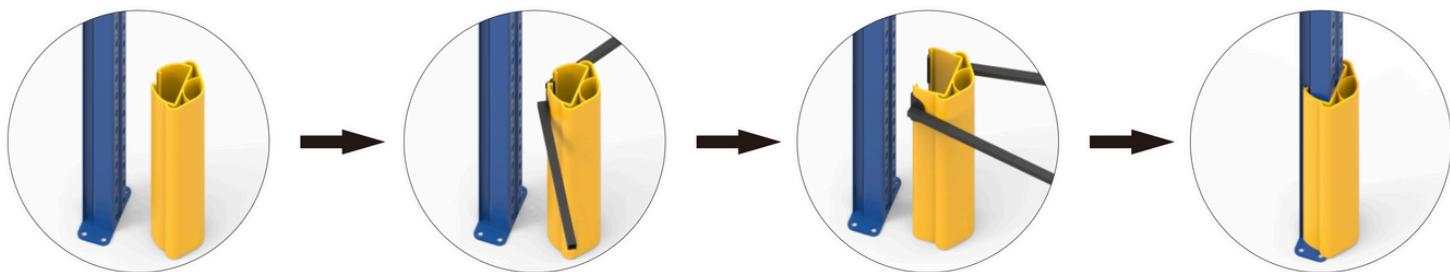


### MODEL SBA712

<b>Height</b>	600 mm
<b>Fixing</b>	No Bolt Needed
<b>Impact</b>	1000 J
<b>Colour</b>	RAL 1003, Signal Yellow Customizable Logo
<b>Temp</b>	-5 ~ 50 °C
<b>Note</b>	For racking upright width: 100 mm ~ 120 mm



## Installation



# IMPACT RACKSHIELD

## Application

Protect racking system from:



1.Pallet Truck



2.Electric Stacker



3.Reach Truck



4.Forklift



## Certification



# LOADING BAY PROTECTOR

## SCY Loading Bay Protection

Designed to protect employees and forklifts from falls during loading, it keeps employees safe and loading bays free from damage.

### MODEL SBA817



<b>Height</b>	600 mm
<b>Diameter</b>	Rail: 168 mm Post: 168 mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	12000 J
<b>Colour</b>	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
<b>Temp</b>	-5 ~ 50 °C



Closed State



Open State

## Application

Protect loading bays from:



1.Pallet Truck



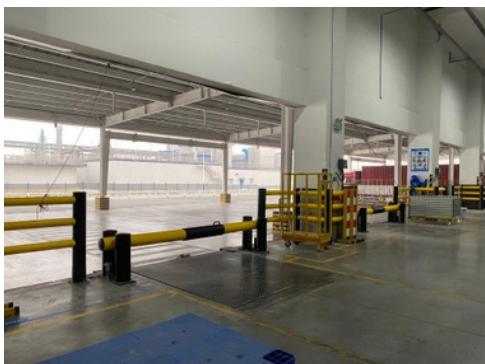
2.Electric Stacker



3.Reach Truck



4.Forklift



## Certification

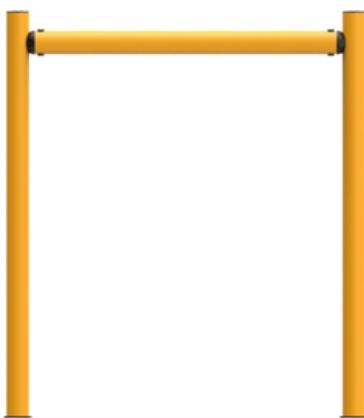


# HEIGHT RESTRICTOR

## SCY Height Restrictor

Designed to provide functional protection for exit gates and industrial doors, these guards can be adapted to fit any door or passageway. They protect against accidental damage from vehicles striking door frames on either side and prevent height collisions, as well as impacts to doorway edges from vehicles and loads.

## MODEL SBA915



<b>Height</b>	Max. 5200 mm
<b>Length</b>	Max. 6000 mm
<b>Diameter</b>	Post: 168 mm Rail: 148 mm
<b>Fixing</b>	M10 Included
<b>Impact</b>	12000 J
<b>Colour</b>	Rail: RAL 1003, Signal Yellow Post: RAL 1003, Signal Yellow
<b>Temp</b>	-5 ~ 50 °C

## Certification



# SWING GATE

## SCY Swing Gate

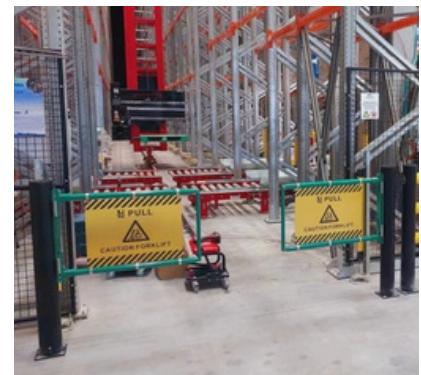
Designed to provide safe access to the safety area floor.

## MODEL SBA013



<b>Height</b>	1150 mm
<b>Length</b>	800 ~ 1000 mm
<b>Diameter</b>	Post: 130 mm
<b>Fixing</b>	M10 Included
<b>Colour</b>	Gate frame: RAL 6024, Traffic Green Post: RAL 9005, Jet Black Customizable pattern
<b>Temp</b>	-5 ~ 50 °C

## Certification



# CASE PRESENTATION

## Racking System Protection



### The risks to warehouse racking include:

- Vehicles striking racks while loading or unloading stock
- Vehicles hitting rack ends when turning into racking aisles
- Forklift forks puncturing stock or denting racks
- Minor scrapes and bumps that weaken racks over time

When protecting a racking system, it's important to understand the potential risks in the facility, relevant regulations, and the types of protection available. SCY offers a comprehensive range of racking system protection solutions, providing the perfect safeguard for your racks.



MODEL SBA710



MODEL SBA215



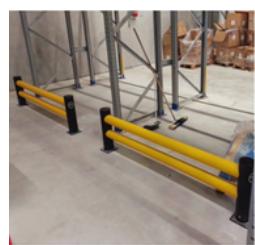
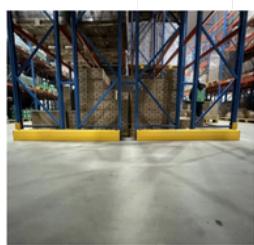
MODEL SBA619



MODEL SBA119

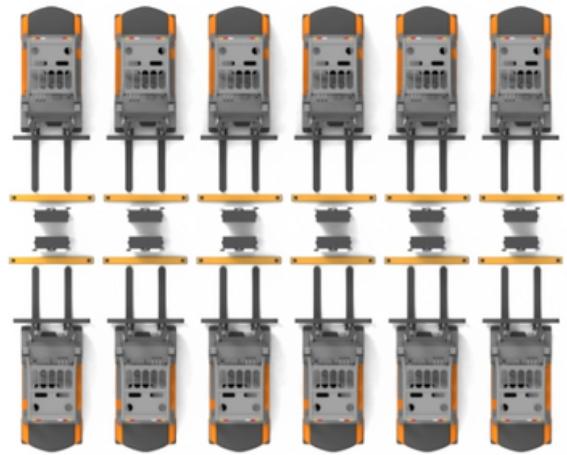


MODEL SBA315/310



# CASE PRESENTATION

## Charging Station Protection



The rise in electric forklifts has led to more forklift battery charging stations. Damage to these chargers can cause operational delays, increase maintenance costs and create safety risks for employees. It is essential for companies to protect their charging equipment, forklifts, and workforce.



MODEL SBA415



MODEL SBA215



MODEL SBA619



# CASE PRESENTATION

## Mezzanine Floor Protection



## Electric Box / Pipe / Fire Cabinet Protection



## Sunken Loading Area Protection



## Applications In Various Industries



# MAINTENANCE GUIDELINE

## **Note:**

This manual provides essential maintenance guidance for SCY polymer safety barrier. Following these procedures will help ensure optimal performance and prolong the product's service life.

### **1. Cleaning**

- Clean the exterior of the product regularly to prevent surface damage caused by stains, dust and debris. Use a soft, dry towel for wiping. Avoid harsh chemicals or abrasive materials during cleaning, as these can damage the product. Cleaning is recommended at least once a month, depending on the environment.

### **2. Periodic Checking**

- Regularly inspect the safety barrier, focusing on fixing bolts, connecting parts and end posts. For products with collision marks or those prone to impact, manually push and shake the components to ensure they are securely connected. Any damage or looseness should be promptly repaired or replaced. Inspections are recommended at least once every six months.

### **3. Check bolt preload**

- Regularly check the preload of fixing bolts. Set the torque wrench to the specified torque setting and verify the tightening force of the mounting bolts: M10 bolts should be tightened to at least 50 Nm, and M12 bolts to 80 Nm. This procedure applies only to expansion bolts; chemical anchors do not require checking. Inspection is recommended once a year.

### **4. Troubleshooting tips**

- Check for any collisions
- Ensure bolts are securely fixed to the ground
- Verify connecting parts are firmly attached between beams and posts
- Inspect and count any damaged parts
- Contact our company for after-sales service if needed

### **5. Others**

- Complimentary accessories are available throughout the warranty period



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