



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

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.

Advantage



Durable



Strong wear resistance



Strong weather resistance



Safe and non-toxic



Strong chemical resistance



No painting required



Recoverability and Memorability



Modular combination



BOLLARD

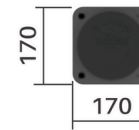
SCY Safety Bollard

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.

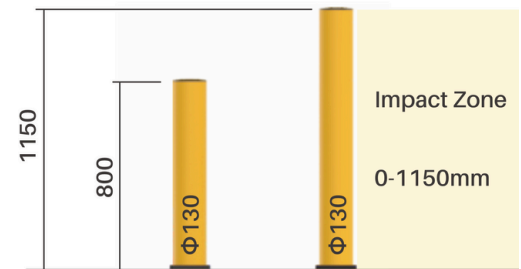


MODEL SBA113

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

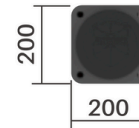


Base
Electrostatic spraying
Spray coating on base
for increased corrosion
resistance

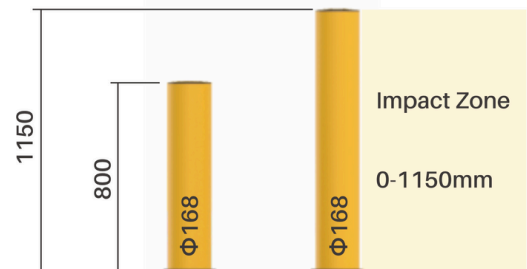


MODEL SBA117

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

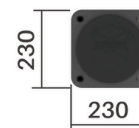


Base
Electrostatic spraying
Spray coating on base
for increased corrosion
resistance

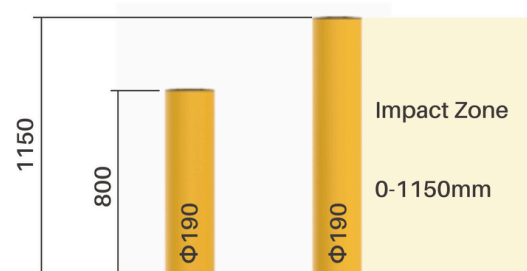


MODEL SBA119

Height	800/1150mm
Fixing	M12 Included
Impact	6900 J
Colour	RAL 1003, Signal Yellow
Temp	-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



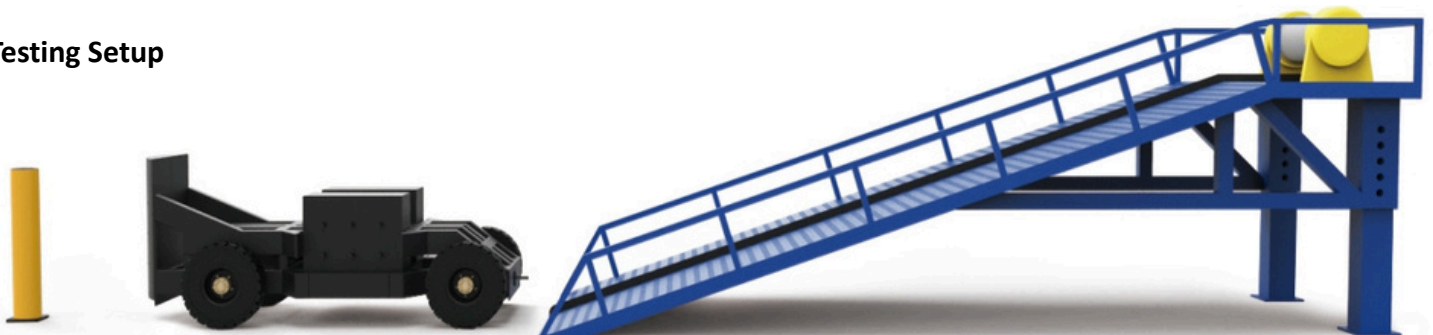
6.Truck



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



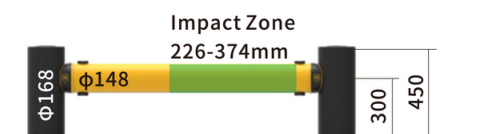
Height 450mm

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



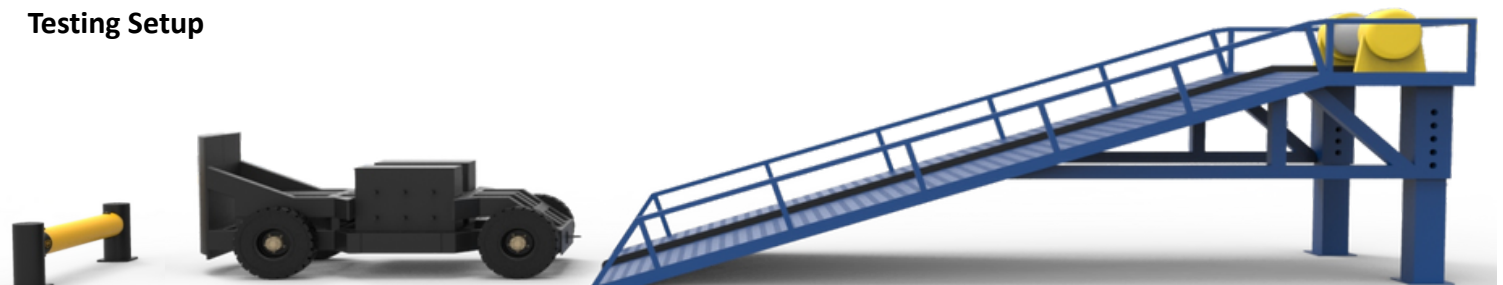
4. Forklift



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



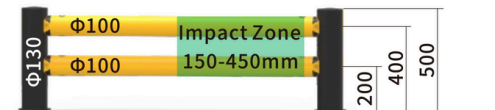
Height 500 mm

Fixing M10 Included

Impact 6780 J

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

Temp -5 ~ 50 °C



MODEL SBA315



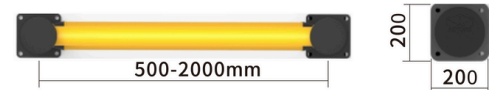
Height 800 mm

Fixing M10 Included

Impact 19000 J

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

Temp -5 ~ 50 °C



MODEL SBA319



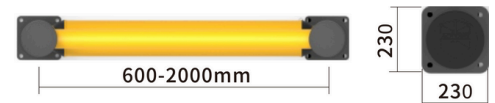
Height 800 mm

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



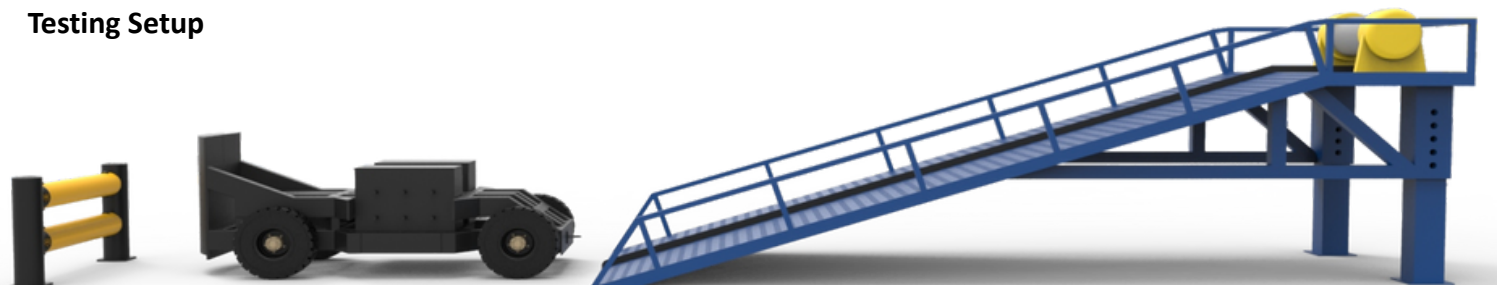
4. Forklift



Certification



Testing Setup



TRIPLE RAIL PEDESTRIAN BARRIER

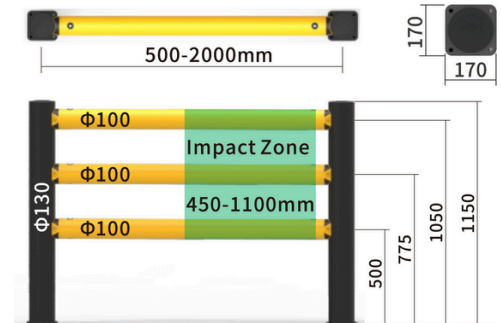
SCY Triple Rail Pedestrian Barrier

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



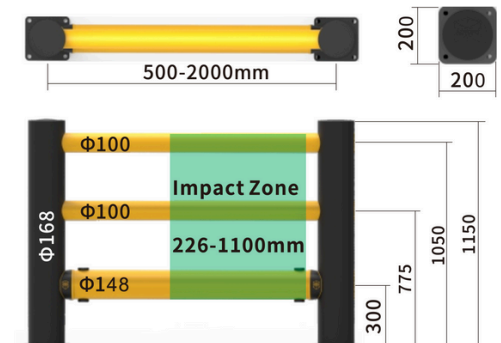
Height	1150 mm
Fixing	M10 Included
Impact	8760 J
Colour	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
Temp	-5 ~ 50 °C



MODEL SBA415



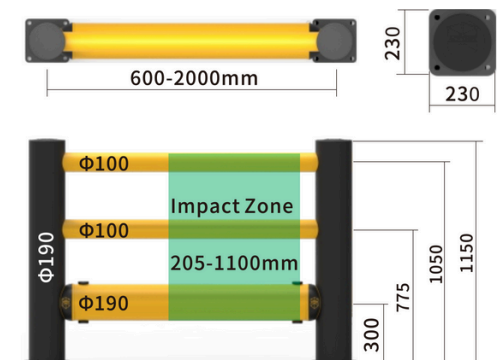
Height	1150 mm
Fixing	M10 Included
Impact	14400 J
Colour	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
Temp	-5 ~ 50 °C



MODEL SBA419



Height	1150 mm
Fixing	M12 Included
Impact	21350 J
Colour	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
Temp	-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



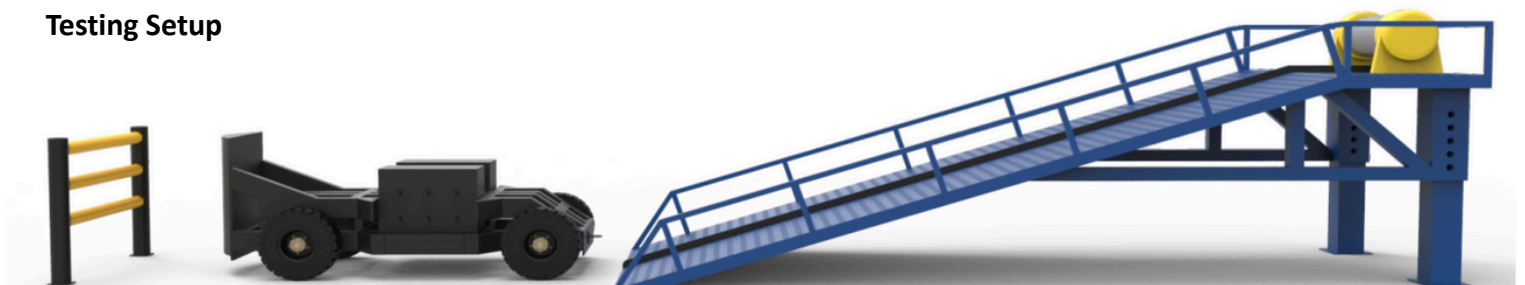
5.Forklift



Certification



Testing Setup



COLUMN PROTECTION BARRIER

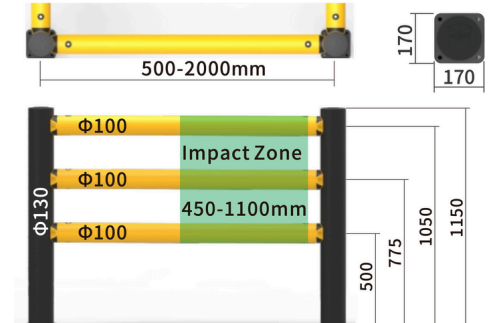
SCY Column Protection Barrier

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.

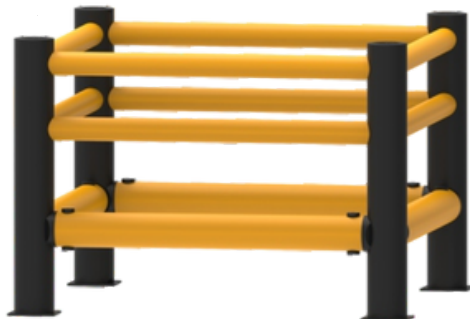
MODEL SBA510



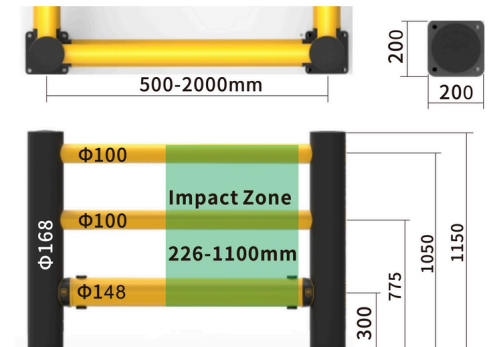
Height	1150 mm
Fixing	M10 Included
Impact	8760 J
Colour	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
Temp	-5 ~ 50 °C



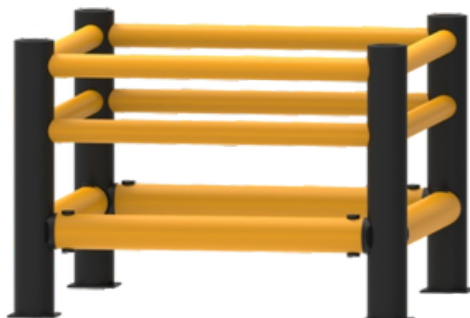
MODEL SBA515



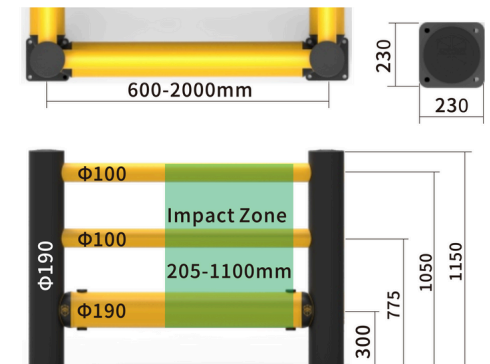
Height	1150 mm
Fixing	M10 Included
Impact	14400 J
Colour	Rail: RAL 1003, Signal Yellow Post: RAL 9005, Jet Black
Temp	-5 ~ 50 °C



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



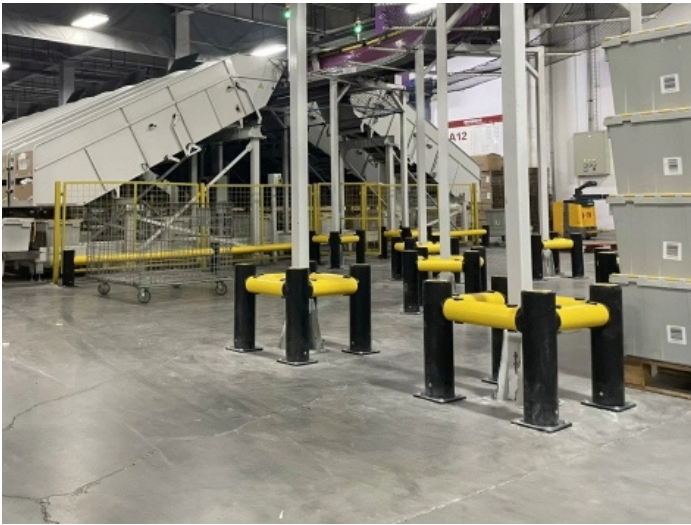
2.Electric Stacker



3.Reach Truck



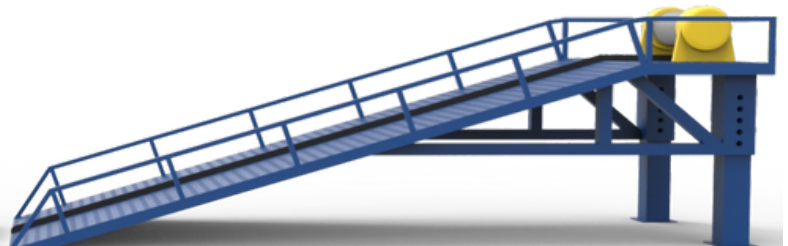
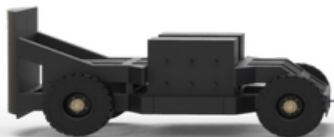
4.Forklift



Certification



Testing Setup



GROUND PROTECTION BARRIER

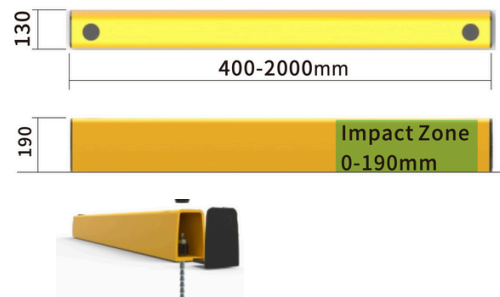
SCY Ground Protection Barrier

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



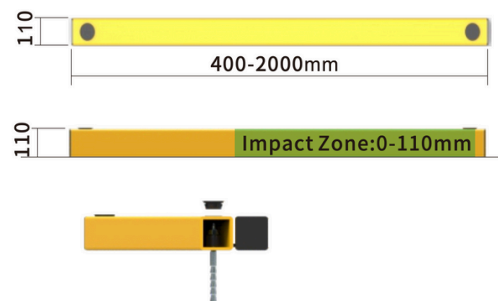
Height	190 mm
Fixing	M20/M16 Included
Impact	5800 J
Colour	Rail: RAL 1003, Signal Yellow
Temp	-5 ~ 50 °C



MODEL SBA611



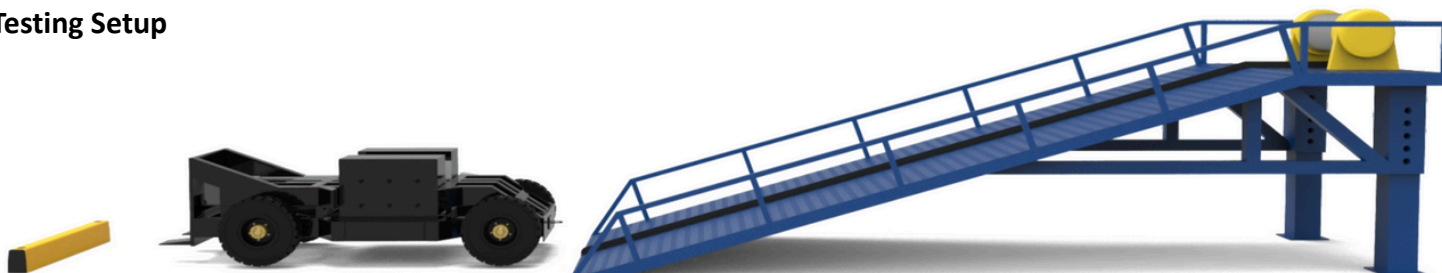
Height	110 mm
Fixing	M20/M16 Included
Impact	5800 J
Colour	Rail: RAL 1003, Signal Yellow
Temp	-5 ~ 50 °C



Certification



Testing Setup



GROUND PROTECTION BARRIER

Application:

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



1.Pallet Truck



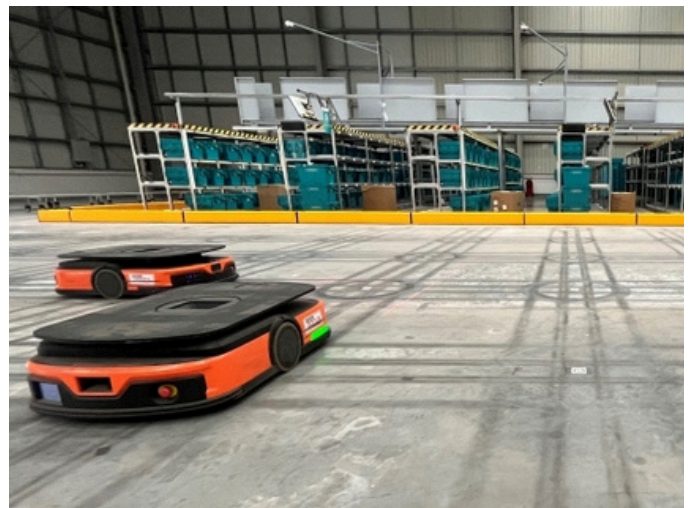
2.Electric Stacker



3.Reach Truck



4.Forklift



IMPACT RACKSHIELD

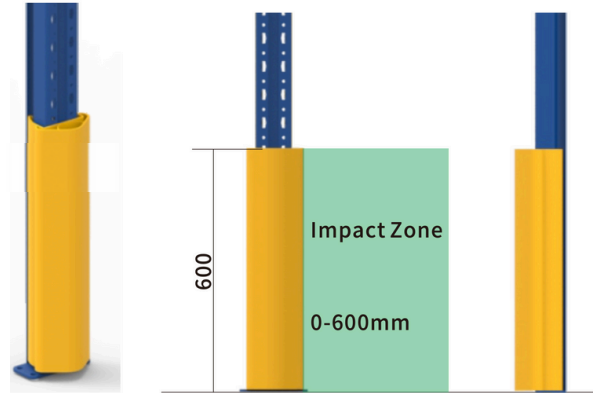
SCY Impact Rackshield

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.



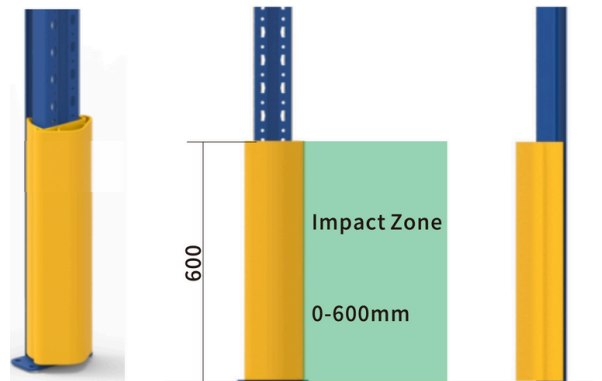
MODEL SBA710

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

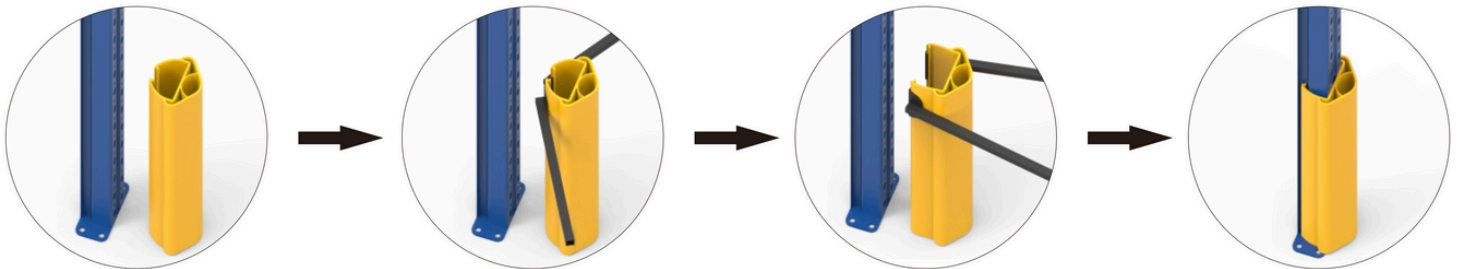


MODEL SBA712

Height	600 mm
Fixing	No Bolt Needed
Impact	1000 J
Colour	RAL 1003, Signal Yellow Customizable Logo
Temp	-5 ~ 50 °C
Note	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



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



Closed State



Open State

Application

Protect loading bays from:



1. Pallet Truck



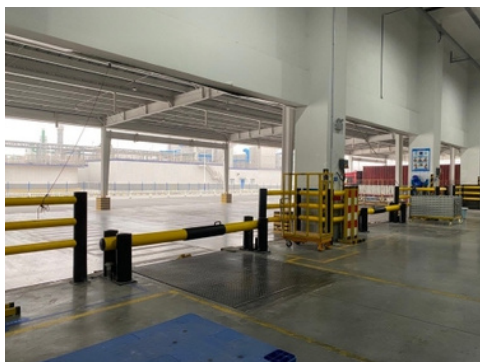
2. Electric Stacker



3. Reach Truck



4. Forklift



Certification



HEIGHT RESTRICTOR

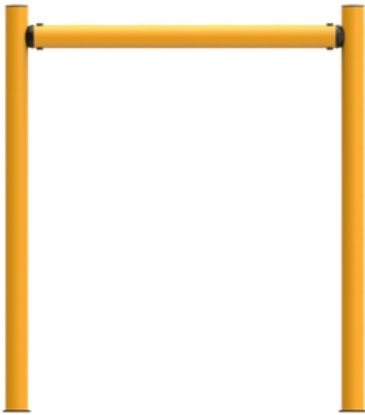
SCY Height Restrictor

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.

Certification



MODEL SBA915



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



SWING GATE

SCY Swing Gate

Designed to provide safe access to the safety area floor.

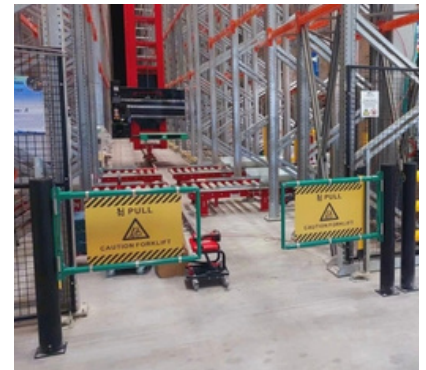
Certification



MODEL SBA013

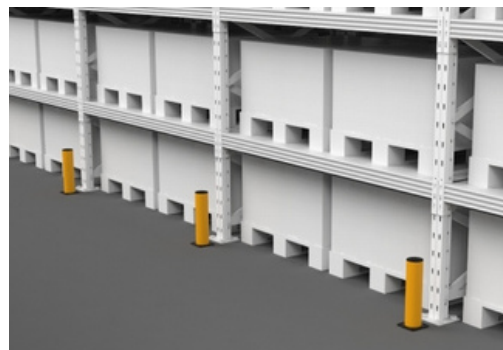


Height	1150 mm
Length	800 ~ 1000 mm
Diameter	Post: 130 mm
Fixing	M10 Included
Colour	Gate frame: RAL 6024, Traffic Green Post: RAL 9005, Jet Black Customizable pattern
Temp	-5 ~ 50 °C



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.



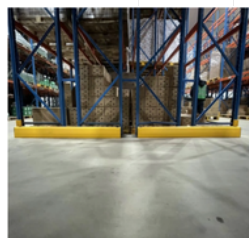
MODEL SBA710



MODEL SBA215



MODEL SBA619



MODEL SBA119

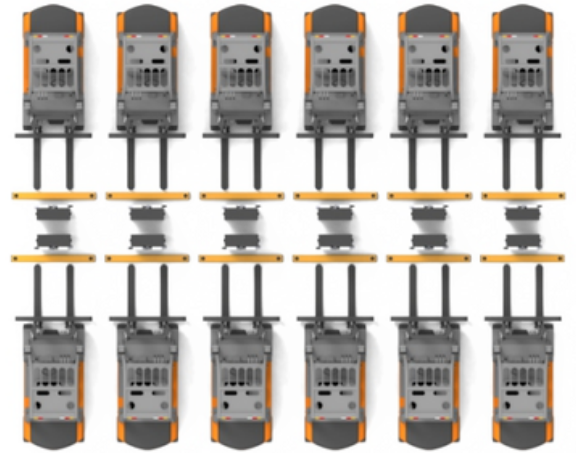
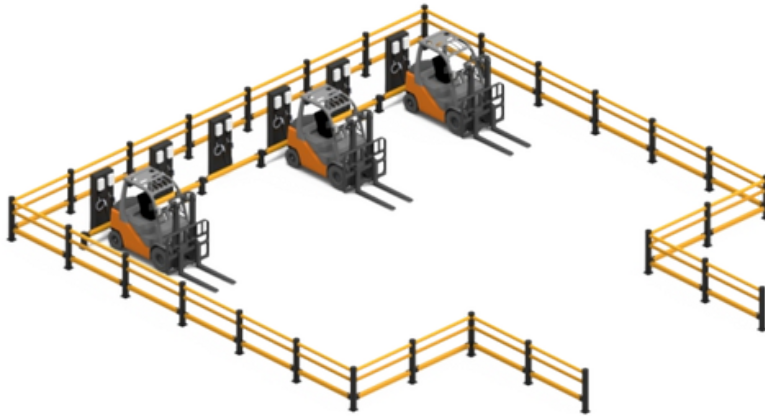


MODEL SBA315/310



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



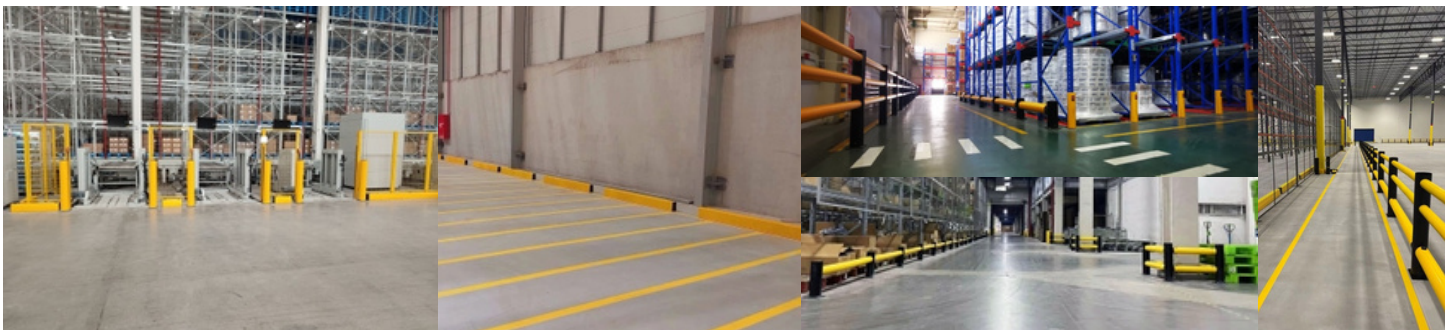
Electric Box / Pipe / Fire Cabinet Protection



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



SCY DOOR
SYSTEMS