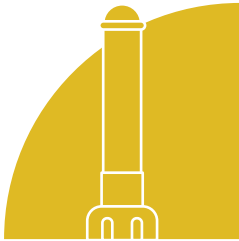


**IMPACT  
RECOVERY™**

Engineered to Protect  
What Matters





**PROTECTIVE GUARDING**

## Meeting the Needs of Our Customers Globally

**Serving clients worldwide, we have established a global footprint enabling us to meet the product needs of our customers with versatility and efficiency.**

Founded in 1991 in San Antonio, Texas, and operating from our European headquarters in Aarschot, Belgium, we've evolved into a thriving international company, manufacturing high-performance products that are designed and engineered to protect people and property around the world.

### **A Passion For Innovation**

From high-speed delineators like OmegaPost to our unique SlowStop® steel bollard, Impact Recovery sets the industry standard for high performance.

### **Durability You Can Depend On**

There's a reason our products have been installed in some of the most punishing locations in the world.

### **A Better Product Experience**

Solve your toughest safety challenges with our hands-on, tailored approach to planning, procurement, and installation.

## Protecting People, Property, and Your Reputation

Our job is to solve your safety challenges, and we do that by designing the strongest, longest-lasting safety products in the world – backed by a full range of responsive, hands-on training and support.

To ensure we meet our clients' expectations and comply with all product specifications, we use a thorough quality management system that includes a materials inspection, an in-process inspection, and a final inspection.



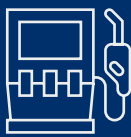
Through our vast array of durable, high-performance products, we serve the safety needs of many markets, including:



**Airport**



**Automotive**



**Convenience  
& Fuel**



**Government  
& Municipal**



**Retail**



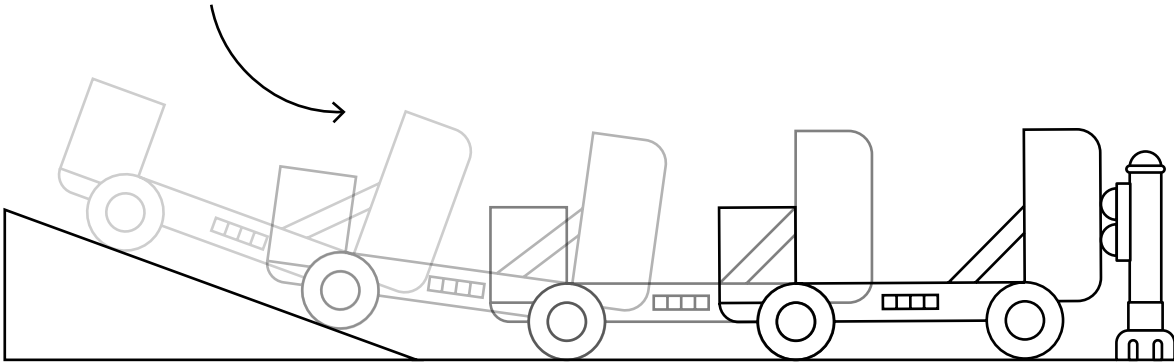
**Transit  
Systems**



**Warehouse  
& Storage**



**Work Zone  
Construction**



## Pushing the Limits of Performance

**We are committed to making investments in research and development, and are continuously testing, creating, and adapting our family of traffic and protective guarding products to bring our customers the highest quality and rugged durability they expect from us.**

Our products are designed to save lives and protect critical assets. This means failure is not an option, which is why we continuously test everything we make in an ongoing process of continuous improvement.

From day-to-day hits to preventing worst-case scenario accidents, we focus on recreating conditions our products could experience in the real world. With our in-house capabilities and independent third-party testing partners, we use dynamic, iterative testing protocols that go beyond industry standards to ensure our products deliver maximum performance throughout their lifetime.

This focus on innovation ensures Impact Recovery's<sup>SM</sup> patent portfolio is aligned closely with the needs of the industries we serve. Our patent portfolio is recognized around the world. With a keen understanding of the industries we serve, we continue to innovate and improve.

### Engineered to Meet the Highest Standards in the World

The following certifications represent the specific standards and requirements our products have been tested and certified to meet. These marks are issued by independent third-party organizations, and our compliance with these rigorous performance standards demonstrates our commitment to quality and safety.



A photograph of an industrial testing facility. In the foreground, a yellow and black metal structure, likely part of an impact testing rig, is visible. A large black tire is mounted on a silver metal wheel. A camera is mounted on a brown tripod in the lower right corner. The background is a dark, industrial setting.

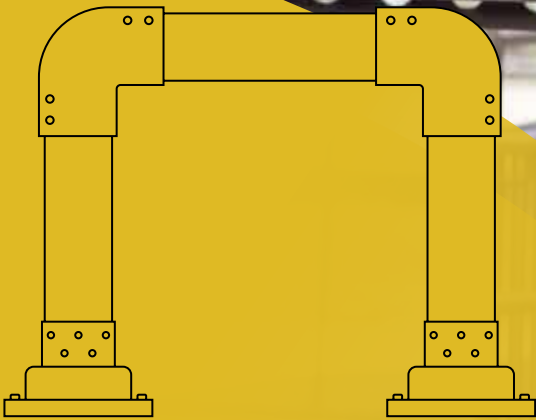
### In-House Testing

Impact Recovery has consistently set the benchmark for product performance through rigorous, ongoing testing and development. Our on-site testing capabilities utilize an inclined vehicle guidance ramp in conjunction with a variable mass testing vehicle that allows us to recreate repeated, highly precise impacts. In addition, our in-house testing follows primary test protocols including the National Transportation Product Evaluation Program, the Manual for Assessing Safety Hardware, and ANSI MH31.2.

We are committed to designing, engineering, and manufacturing products that protect people and property, making the world a safer place to live and work.

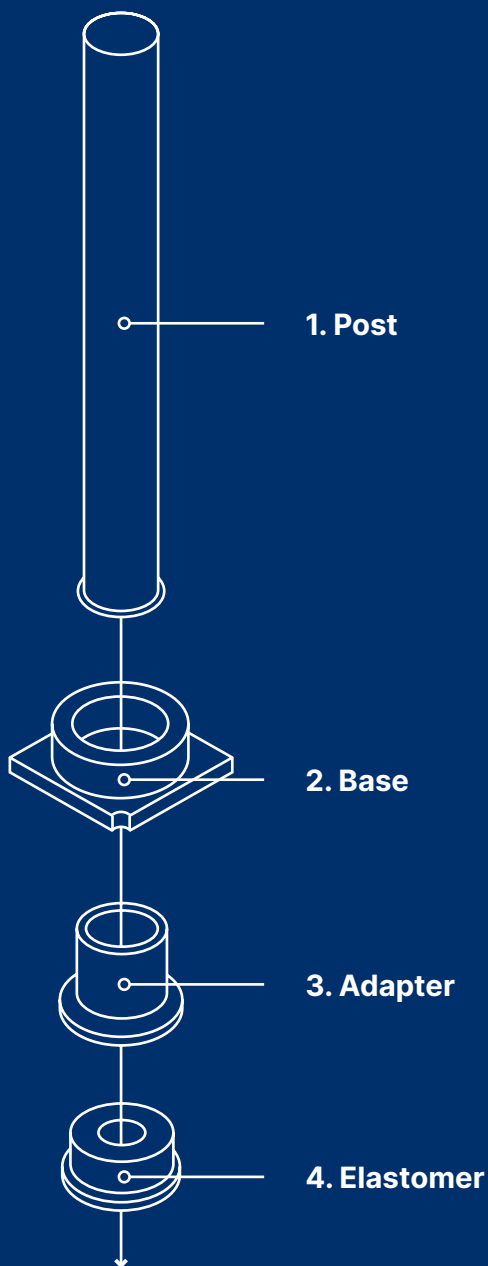
### Independent Third-Party Assessments

Impact Recovery<sup>SM</sup> partners with independent facilities to evaluate cutting-edge transportation safety and security devices that will not only meet but exceed industry standards. In addition, we have worked hand in hand with industry leaders, the Protective Guarding Manufacturers Association (part of the Material Handling Institute), and the Texas A&M Transportation Institute to create a standard testing methodologies specifically for the materials handling industry. This crucial, objective testing ensures that a barrier works just as intended — to save people's lives.



## SlowStop®: Our Revolutionary Energy-Absorbing System

Offering the strongest flexible protection available on the market, SlowStop is an energy-absorbing steel guarding system that protects your most valuable assets.



## How It Works

During a collision, the kinetic energy of the impact is absorbed by an elastomer in the base of the vertical post. This allows the post to tilt approximately 20° as it progressively absorbs energy, softening the impact. After the impact, the post returns upright, leaving the guard intact and ready to perform again.

SlowStop is designed as an easily maintained modular system that prevents damage. Modular connectors create fences, corner guards, column protectors, rack end guards, and so much more!

## The system is made up of four main components (pictured left):

1. Post (standard schedule 40 / ISO pipe or equivalent)
2. Base
3. Adapter
4. Elastomer (energy absorbing)

## Benefits

Increased personnel and pedestrian safety

Reduced damage to assets, equipment, and pedestrians

Simple installation and instantly operational

Modular system and custom fencing/barriers

Easy relocation and retrofitting

## Rebounding Steel Bollards

Our SlowStop® rebounding steel bollards are successfully used in commercial locations, industrial environments, logistic sites, and for traffic control situations. Their strength rivals that of traditional embedded bollards with lower costs and less hassle. Our bollards are surface mounted in approximately 15 minutes and are immediately ready for use once installed.

### Type 1 - Bollard



Light duty

**7,000 Joules**

5 tonnes at 6 km/h

Equipment and storage rack guarding

Fuel and utility protection

Pedestrian safety

Access denial

### Type 2 - Bollard



Medium duty

**10,200 Joules**

6 tonnes at 6.6 km/h

Door and wall protection

Parking facilities

Fuel and utility protection

Pedestrian safety

Access denial

### Type 2.5 - Bollard



Heavy duty

**18,000 Joules**

10 tonnes at 5.9 km/h

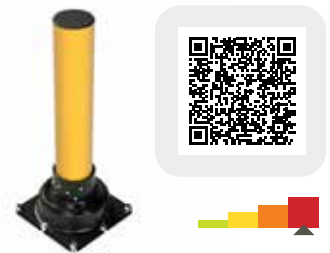
Door and wall protection

Parking facilities

Fuel and utility protection

Access denial

### Type 3 - Bollard



Ultra heavy duty

**26,700 Joules**

20 tonnes at 5,9 km/h

Door and wall protection

Parking facilities

Fuel and utility protection

Access denial

## Fork Protection Plates

SlowStop® Fork Protection Plates are the optimal solution for preventing fork damage beyond protective barriers. Using the same high-quality materials, you have come to expect from us, we have created fork prevention plates that can protect your employees while avoiding asset loss. Our guarding systems are modular, which allows us to create standard sizing or customizable pieces.

### Type 1



Light to medium duty

**10,900 Joules** - 5 tonnes at 7.5 km/h (90°)

**43,600 Joules** - 5 tonnes at 15 km/h (30°)

Pedestrian protection

Electric PIT charging stations

Rack ends

Wall protection

Anywhere fork intrusion can cause injury or facility damage

### Type 2



Medium to heavy duty

**20,000 Joules** - 6 tonnes at 9.3 km/h (90°)

**80,000 Joules** - 6 tonnes at 18.6 km/h (30°)

Pedestrian protection

Electric PIT charging stations

Rack ends

Wall protection

Anywhere fork intrusion can cause injury or facility damage

# Horseshoe Bollards and Railings

Our guarding systems are modular and expandable to meet protection needs. With our cast-iron SlowStop® elbow, tee, and cross-shaped tubular joints, we can easily configure custom guarding such as u-shaped brackets, safety railings, protection buffers, fences, and guardrail systems. Our IronFlex SlowStop® horseshoe bollards have twice the stopping power of single rebounding bollards.

## Type 1 - Horseshoe



Light to medium duty

**10,900 Joules** - 5 t at 7.5 km/h (90°)

**43,600 Joules** - 5 t at 15 km/h (30°)

Pedestrian protection

Rack and equipment guarding

Access denial

Operator protection

## Type 2 - Horseshoe



Medium to heavy duty

**20,000 Joules** - 6 t at 9.3 km/h (90°)

**80,000 Joules** - 6 t at 18.6 km/h (30°)

Pedestrian protection

Rack and equipment guarding

Access denial

Utility and fuel protection

Conveyer loading

## Type 3 - Horseshoe



Ultra heavy duty

**65,000 Joules** - 20 t at 9.2 km/h (90°)

**260,000 Joules** - 20 t at 18.4 km/h (30°)

Utility and fuel protection

Access denial

Conveyer loading

## Type 1 - Single Rail



Light to medium duty

**10,200 Joules** - 5 tonnes at 7.3 km/h (90°)

**40,800 Joules** - 5 tonnes at 14.5 km/h (30°)

Building structures

Equipment protection

Operator protection

## Type 2 - Single Rail



Medium to heavy duty

**20,000 Joules** - 6 tonnes at 9.3 km/h (90°)

**80,000 Joules** - 6 tonnes at 18.6 km/h (30°)

Building structures

Equipment protection

Operator protection

## Type 1 - Double Rail



Light to medium duty

**10,200 Joules** - 5 tonnes at 7.3 km/h (90°)

**40,800 Joules** - 5 tonnes at 14.5 km/h (30°)

Building structures

Equipment protection

Operator protection

Utility guarding

Pedestrian aisles

## Type 2 - Double Rail



Medium to heavy duty

**20,000 Joules** - 6 tonnes at 9.3 km/h (90°)

**80,000 Joules** - 6 tonnes at 18.6 km/h (30°)

Building structures

Equipment protection

Operator protection

Utility guarding

Pedestrian aisles

## Handrails

SlowStop® now offers a barrier that combines all the toughness of Type 2 SlowStop® IronFlex railings with the profile and cost effectiveness of a handrail system above the impact zone. For areas where pallets will be at floor level and pedestrian barriers are desired, this is a perfect option to maintain the safety of our sturdy IronFlex railing system while reducing costs. Lighter to ship and easy to assemble, this option provides all the protection while keeping pedestrians from climbing over barriers.

### Type 2



Medium to heavy duty

**20,000 Joules** - 6 tonnes at 9.3 km/h (90°)

**80,000 Joules** - 6 tonnes at 18.6 km/h (30°)

Building structures

Equipment protection

Operator protection

Pedestrian aisles

## Column Protection

SlowStop® column protectors utilize our patented rebounding guarding technology to combine four bollards into a complete barrier that protects critical columns from potential catastrophic failure. Compared to plastic alternatives that directly wrap onto the column itself, our all-steel construction barrier stands away from the column, allowing for greater strength and durability, while eliminating any impact to the building structure. Our column protectors can be configured for a large range of column sizes as well as vehicle masses and speeds.

### Column Protection



Heavy to ultra heavy duty

From **24,000 Joules** to **427,000 Joules** depending on the type  
Maximum 20 tonnes at 23.5 km/h (30°)

Guard columns

Vertical members

## Guardrails

The SlowStop® Composite FlexRail attaches to SlowStop® bollards to create highly visible barriers. The flexible material can withstand 110 kN of frontal force without any permanent deflection. It returns to its original shape after impact. The FlexRail is recessed to allow overlapping of multiple lengths. End caps attach to standard 2m sections of SlowStop® FlexRail to provide an end impact zone.



Can be used with Type 1 or Type 2 bollards



Medium to heavy duty

**17,000 Joules** - 6 tonnes at 8.6 km/h (90°)

**68,000 Joules** - 6 tonnes at 17.1 km/h (30°)

Industrial equipment protection

Pedestrian aisle ways

Utility guarding

Access denial

Office protection

Computer desks and terminals

Parking perimeters

## Rack End Protection

Our SlowStop rack end protection is made to offer the strongest protection. Specially designed for common pallet rack sizes, these IronFlex guards protect your rack ends from damage while resisting damage themselves. Our rack ends are stronger than any welded bolt-down guard and will prevent damage, maintenance, and replacements.

### Type 1



Light to medium duty

**10,900 Joules** - 5 tonnes at 7.5 km/h (90°)  
**43,600 Joules** - 5 tonnes at 15 km/h (30°)

Pallet and storage rack ends

Pallet stops

Electric panel protection

Wall guards

Loading dock bays

Conveyor loading/unloading

### Type 2



Medium to heavy duty

**20,000 Joules** - 6 tonnes at 9.3 km/h (90°)  
**80,000 Joules** - 6 tonnes at 18.6 km/h (30°)

Pallet and storage rack ends

Pallet stops

Electric panel protection

Wall guards

Loading dock bays

Conveyor loading/unloading

## Dock Bumper

Introducing the quietest dock bumper on the market, using our exclusive sound absorbing cavity. Eliminate the complaints from building rattling docking. Most don't realize, but rubber, like water, isn't compressible. We've designed the ultimate dock bumper using SlowStop® technology to allow for compression, eliminating the jarring and noise your employees and neighbors' dread. The curved design allows for air ride lorries to ride up and down without tearing the bumper off the dock.



Protect loading docks

Forklift floor mounted wheel stop

Where air suspension tears traditional bumper

Where impact noise is a concern

### SlowStop® Protective Guarding Products

Bollards

Handrails

Column Protectors

Rack End Protectors

Guardrails

Forklift Protection Plates



[View Full Product Catalog](#)

# Safety is Your Priority. Protection is Ours.

**Our engineering expertise and responsive product support are always there when needed, which is why our customers know they can count on us at every step of the way.**



### Product Demos

One of the most valuable services Impact Recovery<sup>SM</sup> offers is the opportunity to request a demo onsite. This hands-on approach allows us to meet with you in person and demonstrate firsthand the capabilities of our products. We don't just say our products are easy to install, we mean it.



### Expertise You Can Count On

Everything we sell comes backed by our deep engineering expertise and responsive field services. We take a holistic approach to ensure that we are meeting or exceeding compliance and safety guidelines.



### Installation Consultations

Impact Recovery often partners with our customers to guide them through the installation process, providing clear instructions and answering questions in the moment. That's why many of our customers prefer we train their teams personally instead of hiring installers.



### Warranties

All of our products have a comprehensive warranty backed by years of experience. With our efficient design, stronger materials, rigorous third-party testing, and quality assurance protocols, we are confident that our products have been manufactured and tested to the highest quality standards.





### **Delivering a Better Product Experience**

Our top priority is taking care of our customers at every step of the journey. Through a hands-on, tailored approach to planning, procurement, and installation, we help you solve your toughest safety challenges. Whether it's through our knowledgeable sales team, engineering expertise, responsive customer service, or other product support, our team is always there when you need them.

If you have questions about products, would like to connect with one of our sales team members, or have general inquiries, we invite you to reach out to our customer service team. They would be happy to assist you.

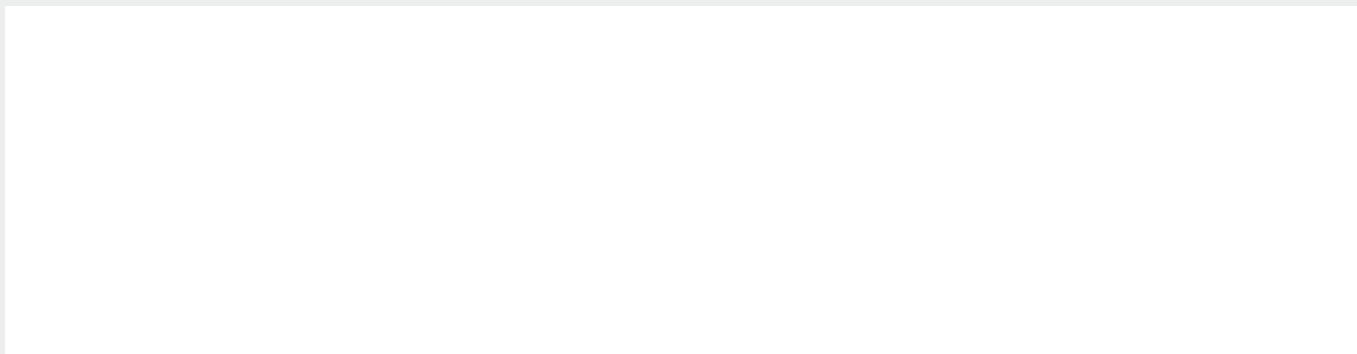


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The products mentioned in this document are covered by the following U.S. and International patents: 7,195,422 | 7,621,691 | D937,700 | D620,823 | D620,824 | D620,825 | EP 2 267 225 | EP 2 888 412 | 9,938,677 | 11,136,735 | D932,875. Other U.S. and International patents pending.