

FlexGuard™



No Single System Fits All

At Barrier Group, we understand that no single safety solution fits every application; that's why we offer a range of purpose-built barrier systems – giving you the flexibility to choose the right protection for your environment.

The FlexGuard™ Polymer Barrier Range is a flexible and modular system designed to protect valuable assets and pedestrians in industrial environments where material handling vehicles and equipment operate. Engineered with workplace safety and durability in mind, the range supports dynamic operations without compromising performance.



Triple-Layer Technology for Superior Impact Absorption

Impact-tested and designed to flex, absorb and rebound, The FlexGuard™ Polymer Barrier range is made from engineered Polymer blends across 3 distinct layers which allows for flexible recovery, enabling it to absorb energy upon impact and return close to its original shape.

This unique material composition helps minimise damage to both the barrier and the impacting vehicle or equipment.

Anti-Aging Layer

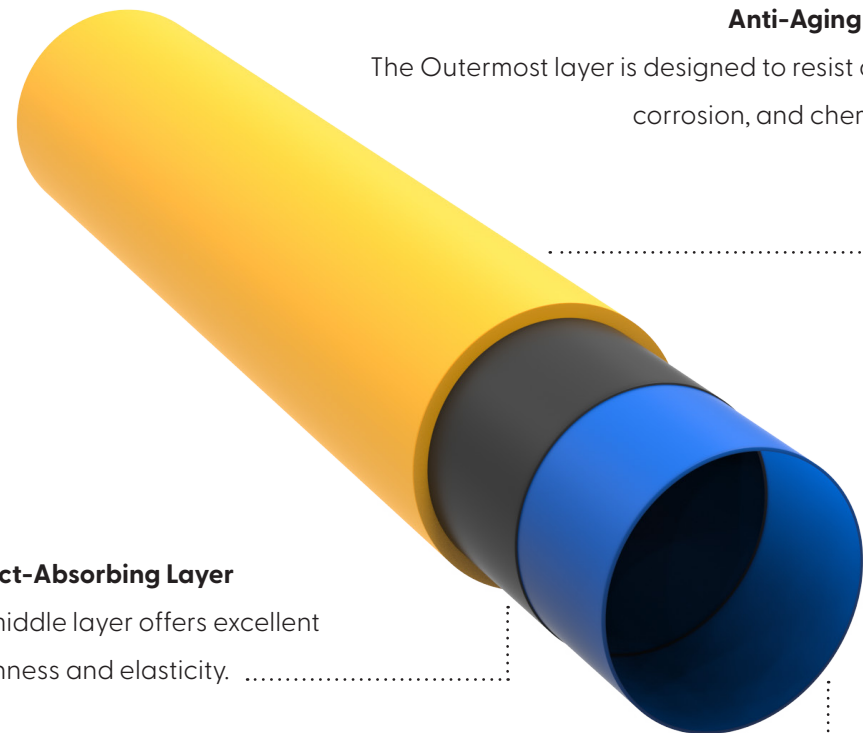
The Outermost layer is designed to resist aging, corrosion, and chemicals.

Impact-Absorbing Layer

The middle layer offers excellent toughness and elasticity.

Support Strengthening Layer

The inner layer provides high resistance to deformation and ensures structural strength and stability for the entire barrier.



Effortless Integration for Comprehensive Traffic and Infrastructure Security

The FlexGuard™ Polymer Barrier range helps delineate and segregate pedestrian and vehicle traffic, shield infrastructure such as buildings, machinery and equipment, and integrate seamlessly with other physical barrier systems to create a robust, turn-key safety solution in the workplace.

Ideal FlexGuard™ Polymer Barrier Applications



Logistics/3PL areas incorporating Automated Guided Vehicle routes, forklift lanes, stacking zones, and pedestrian zoning.



Manufacturing where areas have heavy vehicle movement and shock-absorbing protection is needed.



Food and beverage environments where corrosion resistance and non-food contact hygiene are critical.



Warehousing environments that require scalable/flexible layouts, adaptable barriers, and shelving/pallet protection.



Distribution centres, loading docks, and retail/event back-of-house zones where the convergence of people, vehicles, and goods can create potential hazards.



Cold/chilled storage/environment facilities where temperature tolerance is essential.



Airports that require protection in controlled-zones airside and baggage handling areas.



And many others where reliable and impact-absorbing barriers are required.



FlexGuard™ Triple Rail

The FlexGuard™ Triple Rail Polymer Traffic Barrier is engineered to safeguard pedestrians, assets and infrastructure from potential impacts by forklifts and other vehicles. The FlexGuard™ Traffic Barrier helps delineate and segregate pedestrian and vehicle traffic, shield infrastructure such as buildings, machinery and equipment, and integrate seamlessly with other physical barrier systems to create a robust, turn-key safety solution in the workplace.



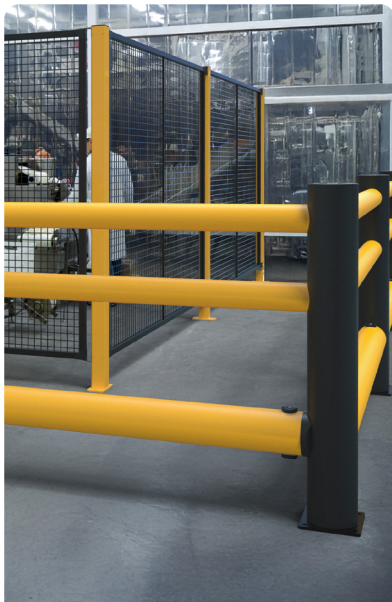
PAS 13 is the leading global Code of Practice for safety barriers, developed by the British Standards Institution (BSI). Our FlexGuard™ barriers are tested using dynamic, real-world simulations to ensure they consistently meet performance standards. TÜV is one of the world's most respected independent testing organisations - our FlexGuard™ barriers demonstrate proven compliance.





Ideal Applications

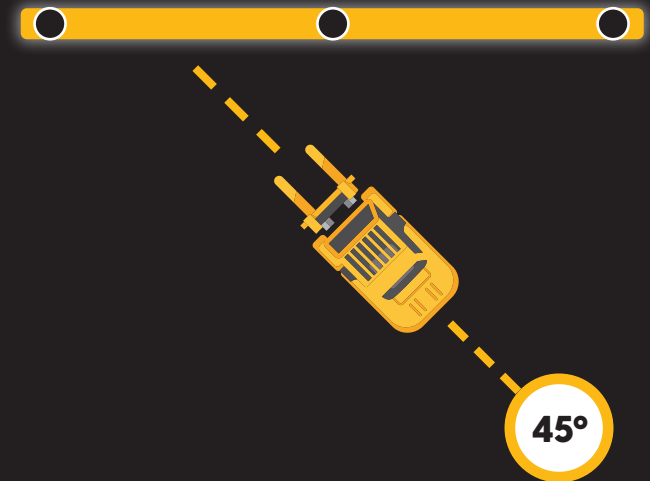
FlexGuard™ Triple Rail is perfect for high-traffic environments requiring pedestrian protection, vehicle segregation, or impact protection. Common applications include defining and segregating walkways in warehouses, distribution hubs and industrial facilities.



Easy Maintenance and Rapid Installation

Designed for easy specification, our barriers offer straightforward installation and minimal downtime if replacements are needed. Their modular design allows simple part swaps without specialist tools.

Impact Tested



 **8 km/h**  **8.3 T**

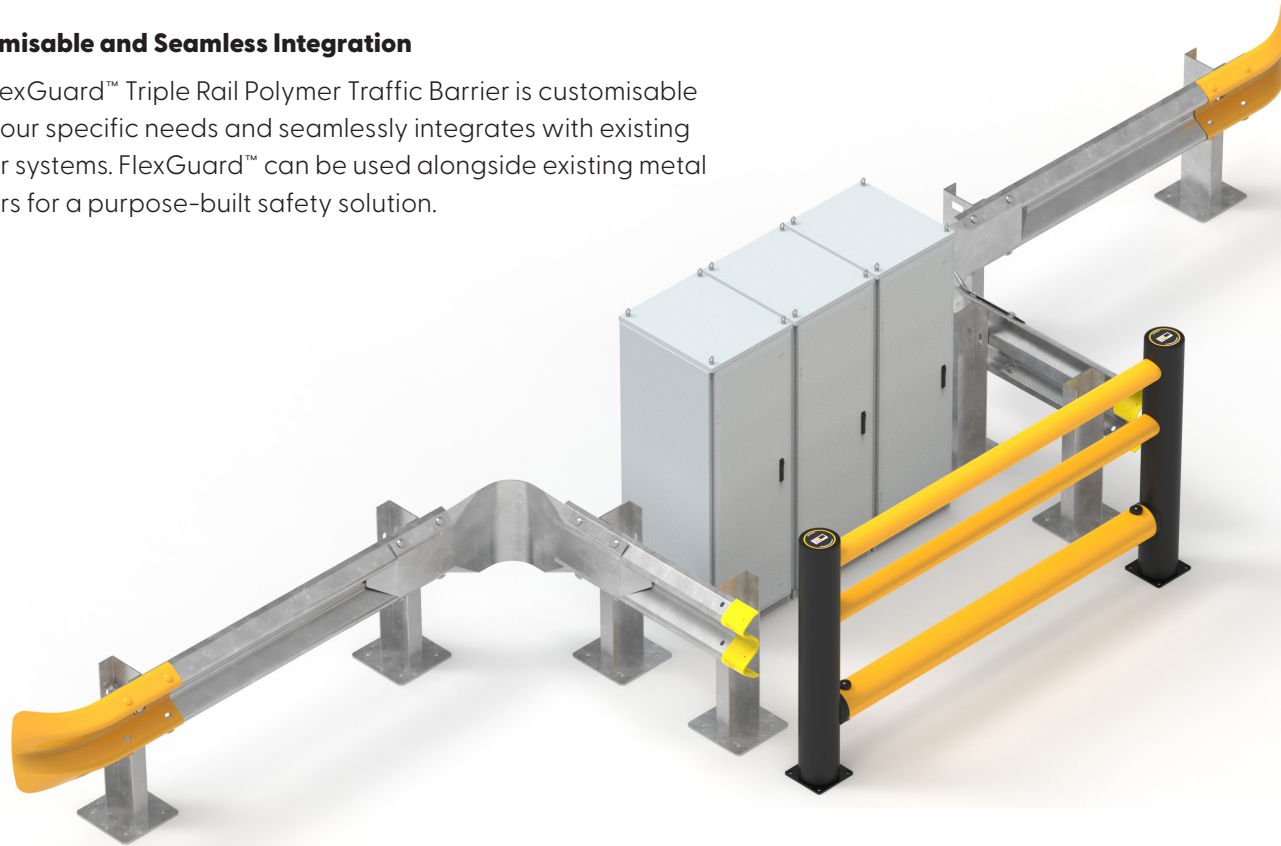
FlexGuard™ Triple Rail

Impact-tested to absorb energy and return to its original shape after a 10,200-joule impact. This is equivalent to an 8.3 tonne weight impact travelling at 8 km/h at a 45-degree angle.

Deflection at Max Energy: 430mm.

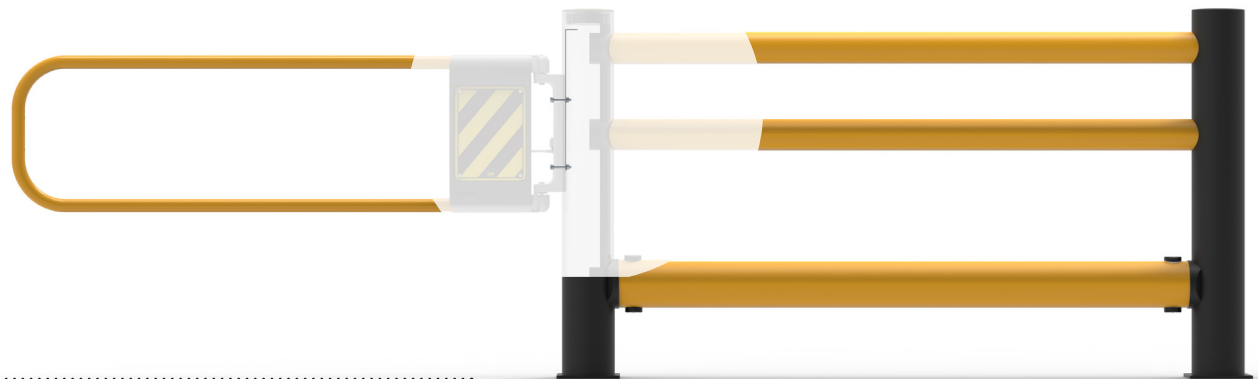
Customisable and Seamless Integration

Our FlexGuard™ Triple Rail Polymer Traffic Barrier is customisable to fit your specific needs and seamlessly integrates with existing barrier systems. FlexGuard™ can be used alongside existing metal barriers for a purpose-built safety solution.



Enhanced Flexibility with 168mm Slide Plates & Swing Gate Kits

Our FlexGuard™ Triple Rail Polymer Traffic Barrier can be easily converted into a removable option using our 168mm slide plates, allowing for flexible and adaptable safety solutions. Swing Gate Kits such as BFSG-FG allow the Ball Fence Swing Gate to be installed onto a FlexGuard post.



FlexGuard™ Bollards

The FlexGuard™ Bollards are engineered to safeguard equipment and machinery, provide traffic guidance and visual warning, and provide impact-absorbing protection against potential collision damage caused by forklifts and other material handling vehicles within industrial environments such as doorways, corners, entry and exit points.



Two Diameters, Engineered for Your Needs

FlexGuard™ bollards are available in two diameters, offering different levels of protection to suit specific needs. Choose the standard option for a visual guide in lower-traffic areas, or the larger, more robust bollard for enhanced safety in high-risk zones.







FlexGuard™ 168 Bollard

Designed to provide a visual warning and guidance, it's perfect for use in lower-traffic areas and sensitive zones where a less aggressive level of protection is needed.



FlexGuard™ 190 Bollard

This robust bollard offers enhanced protection for high-risk zones, making it the ideal choice for safeguarding doorways, entry points, and busy corners.



FGSP168

Make It Removable with FlexGuard Slide Plate

Our FlexGuard™ 168 Bollard can be easily converted into a removable option using 168mm slide plates, allowing for flexible and adaptable safety solutions.

Impact Tested

168 Bollard

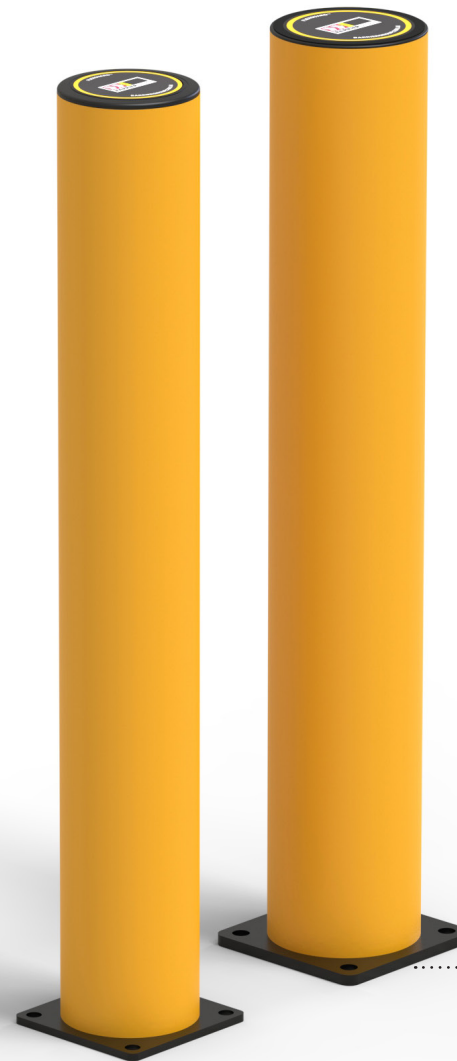


Impact-tested to absorb energy and return to its original shape after a 3,600-joule impact. This is equivalent to an 1.9-tonne impact travelling at 7 km/h. Deflects 15° or 300mm at max energy.

190 Bollard

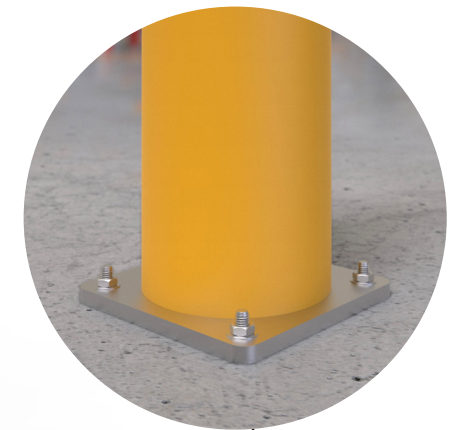


Impact-tested to absorb energy and return to its original shape after a 6,900-joule impact. This is equivalent to an 3.65-tonne impact travelling at 7 km/h. Deflects 15° or 300mm at max energy.



Flexible and Adaptable

For areas where corrosion is a concern, stainless steel base plate and fixings are available via special request.



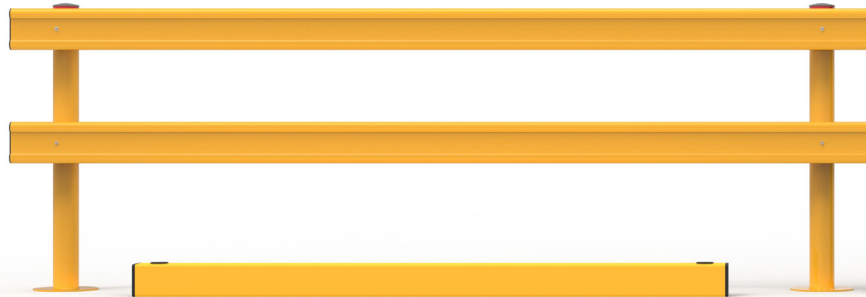
FlexGuard™ Floor Guard

The FlexGuard™ Floor Guard provides low-level protection for walls, AGV zones, charging stations, staging areas, racking ends, physical infrastructure, and equipment perimeters. Stainless steel base plate and fixing options are available via special request.



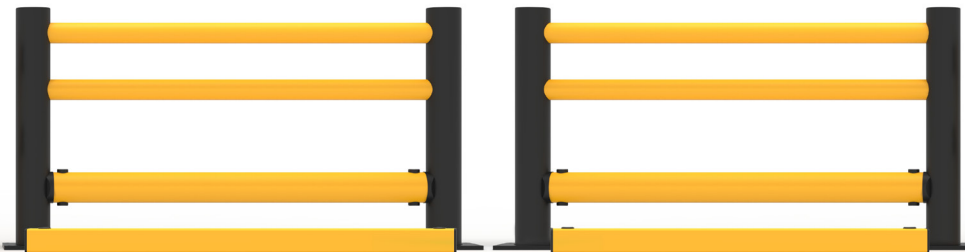
Added Layer of Protection

The FlexGuard™ Floor Guard can be used as an added layer of protection alongside existing metal guardrails and safety infrastructure.



Customisation Made Simple

The FlexGuard™ Floor Guard can be easily cut down on site to fit your specific low-level protection requirements.



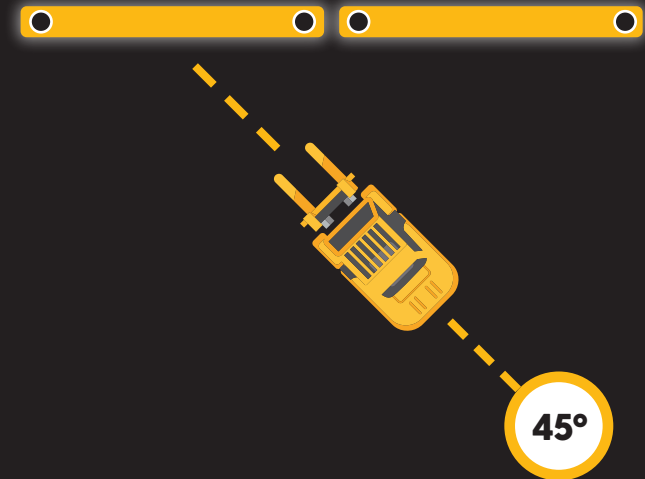
Option 1:

Position to be in front of the barrier.

Option 2:

Shorten to fit between the posts.

Impact Tested



 **8 km/h**  **4.7 T**

FlexGuard™ Floor Guard

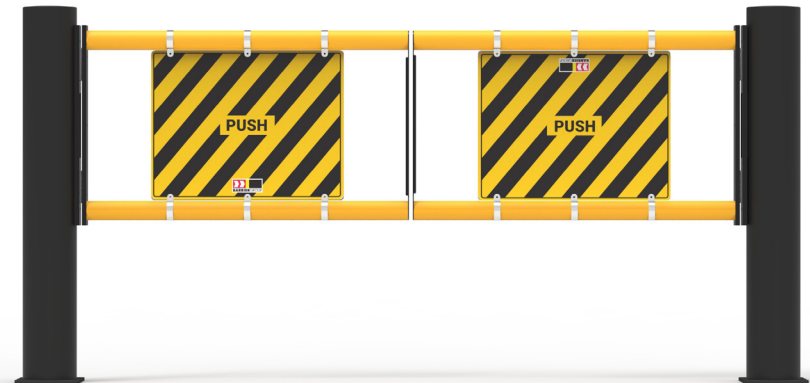
Impact-tested to absorb energy and return to its original shape after a 5,800-joule impact. This is equivalent to an 4.7 tonne weight impact travelling at 8 km/h at a 45-degree angle.
Deflection at Max Energy: 370mm.

FlexGuard™ Swing Gate



The FlexGuard™ Swing Gate provides secure and controlled access for pedestrians in both indoor and outdoor industrial settings. Engineered to enhance site safety and ensure effective traffic separation, this swing gate is equipped with a spring-assisted mechanism that automatically returns it to its original position after use. This feature minimises the risk of human error and prevents gates from being inadvertently left open.

The vibrant safety yellow colour and distinctive hazard panel serve as a clear visual cue, reminding pedestrians to remain vigilant in areas where moving vehicles are present.



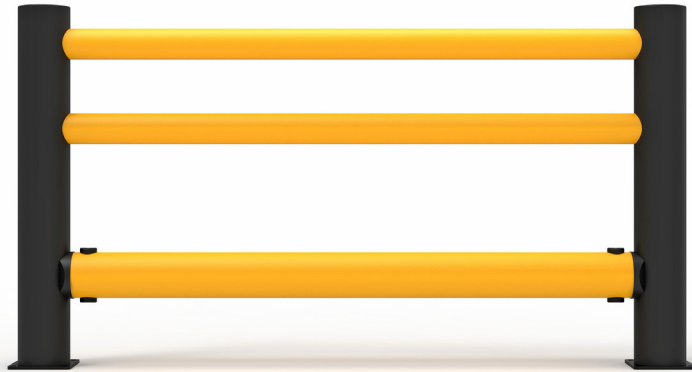
By pairing two gates together, you can effortlessly create a double gate configuration, offering expanded access and versatility.



Versatile Installation

The FlexGuard™ Swing Gate is designed for versatile installation, capable of being mounted on any suitable post. It is shown here on an optional, separately sold steel bollard, providing flexibility in configuring your safety barrier system.





FlexGuard™ Triple Rail

FGTTP168, FGTEP168, FGTCPI68, FGTRCKIT

Diameter: Post 168mm with 10mm WT, Beam 100mm with 7mm WT and 148mm with 7.5mm WT

Height: Post 1150mm, Top of Rail 1100mm

Base Plate: 200mm powder-coated steel square x 10mm thick

Fixings: M10 expansion bolts included

Use Case: Walkway and traffic segregation



FlexGuard™ 168mm Bollard

FGB168Y

Outside Diameter: 168mm with 9mm WT

Height: 1150mm

Base Plate: 200mm powder-coated steel

Fixings: M10 expansion bolts included

Deflection: 15 ° lean or 300mm

Use Case: Doorways, corners, entrances



FlexGuard™ 190mm Bollard

FGB190Y

Outside Diameter: 190mm with 11mm WT

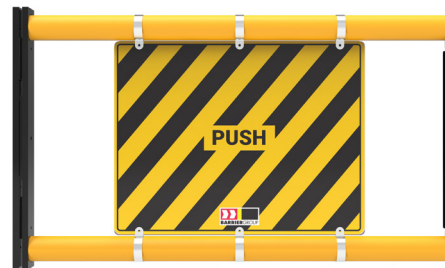
Height: 1150mm

Base Plate: 230mm powder-coated steel

Fixings: M12 expansion bolts included

Deflection: 15 ° lean or 300mm

Use Case: Doorways, corners, entrances



FlexGuard™ Swing Gate

FGSSG

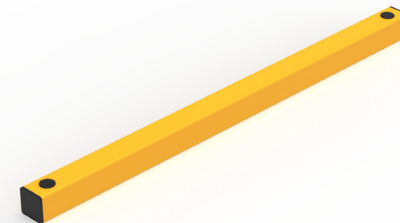
Outside Diameter: 60mm with 5mm WT

Width: 1000mm

Height: 590mm

Fixings: Included

Use Case: Controlled access points



FlexGuard™ Floor Guard

FGFG1102Y

Length: 2000mm (can be shortened)

Cap: Powder-coated steel end cap

Height: 110mm with 8mm WT

Fixing Points: 2

Fixings: M12 expansion bolts included

Use Case: Walls, AGV Area, charging station, staging areas

FAQs

What is a Polymer Barrier and how is it different from other physical barriers?

Flexible barriers (like polymer) absorb force; rigid barriers (like steel) resist it. Each has its place – flexible systems help reduce damage upon impact, while rigid ones provide strong containment in static zones. Our FlexGuard™ Polymer barriers are made from high-performance, impact-absorbing blended polymers across 3 distinct layers; designed to flex upon impact and return close to its original shape. Polymer barriers absorb energy and reduce damage to both the barrier and the vehicle or asset that collides with it.

How does FlexGuard™ absorb impact energy?

When a forklift collides with an object, its motion doesn't just stop – it transfers its movement energy, known as kinetic energy, to whatever it hits. To bring the forklift to a stop, that object has to resist it over a certain distance. A more flexible traffic barrier, like FlexGuard™, slows the forklift, or other material handling equipment, down over a longer distance, reducing the intensity of the impact.

Is the FlexGuard™ system suitable for multi-level facilities, mezzanines or heights above 1m?

Our system is designed specifically for ground-level use only.

Is FlexGuard™ impact-tested?

Yes, our FlexGuard™ Bollard, Triple Railing, and Floor Guard systems have all undergone rigorous impact testing to meet the durability demands of industrial environments. For detailed performance data, please refer to the individual product specifications and test results. For more information please contact your Account Manager.

Is FlexGuard™ suitable for external/outside environments?

Yes, FlexGuard™ is suitable for external use in non-direct UV exposure areas. Suitable external environments include undercover walkways, sheltered loading docks and material handling vehicle zones.

What happens if I need to replace a FlexGuard™ triple railing post or railing section?

The FlexGuard™ range has been designed for ease of specification and triple rail posts and railing sections can be easily replaced thanks to its modular repair-ability. No welding or specialist tools are needed, simply switch out the damaged parts with new ones and continue operations.

What is the lead time for the FlexGuard™ range?

At Barrier Group we understand that keeping your people safe and operations running smoothly is critical, which is why speed matters! Thanks to the systems modularity, it is easy to install, which keeps installation times short and disruption minimal. We keep product lines in stock locally and can typically dispatch within 1-2 days.

What if our layout changes or we relocate?

FlexGuard™ grows with you! Our barriers are modular and designed specifically with flexibility in mind. If you need to relocate sites or simply relocate your barriers to a different layout configuration, the barrier can be disassembled, packed on pallets and reconfigured at its new site.

Is FlexGuard™ polymer corrosion resistant?

While the polymer material itself is resistant to rust, the base and fixings are made of steel, which can corrode if exposed to chemicals or humid environments. Stainless steel base plates and fixings are available via special request.

I have existing steel safety products, can FlexGuard™ be used alongside these?

Yes, many facilities take a hybrid approach to get the best of both materials.



Comprehensive Support and Fast, Reliable Service

Fast Delivery

With product lines stocked locally, most orders dispatch within 1-2 days, keeping your operations running smoothly.

Continuous Support and Assessment

We provide free on-site safety assessments to tailor solutions to your traffic flow, space constraints, and safety objectives. Contact a Barrier Group Account Manager for personalised guidance.

Tailored Solutions

The FlexGuard™ Triple Rail system can be customised to meet specific application needs with ease. It can be tailored in length to accommodate various installation requirements, and sections can be cut down to the desired size. The system's modular nature ensures adaptability to changing layouts, allowing barriers to be relocated as needed. Barrier Group's in-house design team is available to assist with the design of your layout, ensuring a solution that fits your specific requirements.

Proven Strength and Reliability

FlexGuard™ Triple Rail, Bollard and Floor Guard have undergone rigorous impact testing, ensuring they meet the demanding needs of industrial environments. Consult with our experts to choose the best system for your specific requirements.

Take the First Step Towards a Safer Workplace: Contact Us!

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Barrier Group is Australasia's leading provider of end-to-end safety solutions, protecting people, assets, and infrastructure across industrial and commercial environments. As a fully integrated safety manufacturer, we design, engineer, distribute, and install high-performance safety systems that deliver lasting protection and operational confidence.

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