

# iFlexRail Column Guard

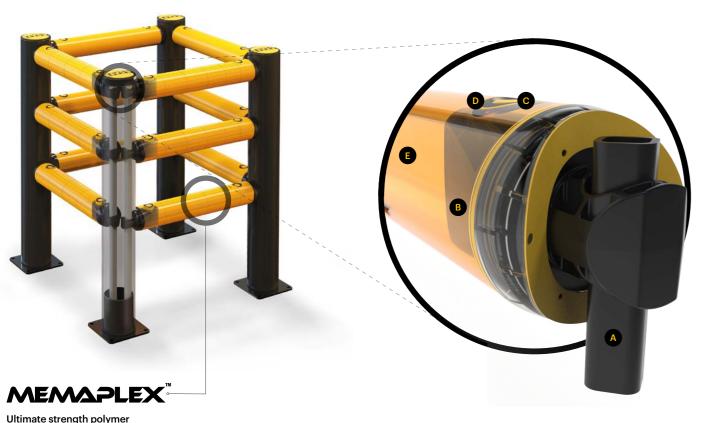
Designed to provide bespoke protection of columns, building supports and structures of any size and with any section shape; square, rectangular, circular or irregular.

This impact-resisting guardrail system provides visual guidance to drivers and a robust physical shield for vulnerable structures. The rails are set apart from the column to isolate and absorb collision forces away from uprights.

Fully modular and adaptable, the guardrails can also be supplied as two or three sided units to safeguard columns located at the corner of two walls or in front of walls.







## **Energy Absorption System**

A patented 3-phase system that activates sequentially for unparalleled energy absorption.

- 1 Memaplex™ rail flexes to absorb impact, initiating the rail pin to slide forward and transfer load energy to the compression pocket.
- Compression of the pocket continues to disperse energy as the coupling rotates around the post pin to activate further absorption.
- 3 At peak energy, the coupling twists further, engaging the post pin and instigating torsion of the post to dispel remaining forces.

- Compression Pocket
- Coupling

## C Rail Pin

### Features and benefits



Multi-directional system ensures a streamlined fit around any column shape and any column location.



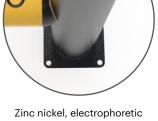
Ultra-low maintenance material is chemical and water resistant, non-corrosive, non-scratch and self coloured so no repainting, rusting, flaking or corrosion.



Unrivalled recovery through a unique built-in memory that allows the barrier to flex, cushion and reform repeatedly upon impact, saving vast amounts in guardrail and vehicle repairs.



Hygiene seals remove ingress points.



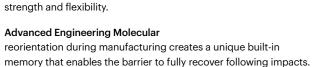
coating on base plates as standard, provides advanced protection against corrosion damage.



Self coloured and UV stabilised for continued visibility and long lasting aesthetics with no repainting.

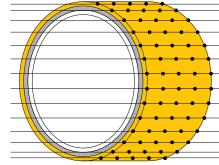


Huge return on investment from incident prevention and downtime avoidance as guardrails, vehicles, floors and equipment do not need replacing or repair.





created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled



3-Layered Material

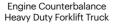
- strengthening core
- Central impact absorption zone
- Outer UV stabilised colour laver

## Suitability





Segregation







Pedestrian Truck

Horitzontal Order Picker



Column protection

Building and equipment protection





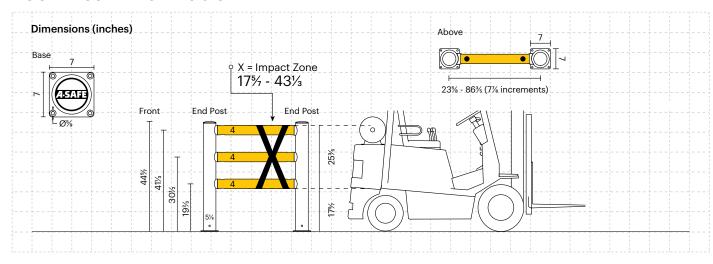








## **Technical Information**



#### **Post Options**



### **Rail Options**

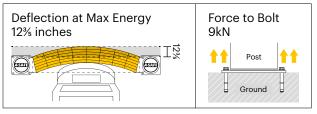
Standard Yellow RAL 1007* PANTONE 7548*	Standard Black RAL 9005* PANTONE Black	Standard Grey RAL 9007* PANTONE Cool Grey 5*

#### **Color Combinations**

\*Please note that the RAL and PANTONE colors listed are the closest match to standard A-SAFE colors, but may not be exact matches of the actual product color and should be used for guidance only.

Impact Test	Impact Angle on 59 inch Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	5,800	6,795	11,600	39,605

End Post Max Energy (Joules) - 90°	3,000
Mid Post Max Energy (Joules) - 90°	3,000



Material Properties	MEMAPLEX"
Temperature Range	14°F to 122°F
Ignition Temperature	698°F to 734°F
Flash Point	662°F to 698°F
Toxicity	Not Hazardous
Chemical Resistance	Excellent - ISO/TR 10358
Weathering Stability (Grey Scale)	5/5*
Light Stability (Blue Wool Scale)	7/8**
Static Rating (Surface Resistivity)	1015 - 1016 Ω
Hygiene Seals	Yes

<sup>\*</sup> Weathering scale 1 is very poor and 5 is excellent



<sup>\*\*</sup> Light stability scale 1 is very poor and 8 is excellent