A·SAFE®

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.

Tested to the global benchmark in guardrail safety

bsi. PAS 13
Code of Practice for Workplace Safety Guardrails

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Engineered for performance

Hygiene seals remove ingress points.

Memaplex™ advanced strength polymer created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled strength and flexibility.

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

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

Self colored and UV stabilized for continued high visibility and long lasting aesthetics with no repainting.

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

Energy absorption system dissipates impact forces through the guardrail and away from floors and fixings, preventing costly damage.
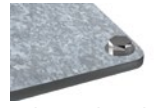
Multi-directional system ensures a streamlined fit around any column shape and any column location.

Zinc nickel, electrophoretic coating on base plates as standard, provides advanced protection against corrosion damage.
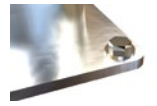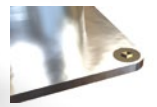
ADDITIONAL BASE OPTIONS

Countersunk Bolts

Galvanized Steel

Stainless Steel 316 Standard

Stainless Steel 316 Countersunk

Technical Information

Impact Test	Impact Angle on 59 inch Post Centers			
	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

Deflection at Max Energy
12⅜ inches

12⅜

Force to Bolt
9kN

Post

Ground

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

* Weathering scale 1 is very poor and 5 is excellent
** Light stability scale 1 is very poor and 8 is excellent

Dimensions (inches)

Base
7
7
Ø⅝

Above
7
23⅜ - 86⅜ (7⅞ increments)

X = Impact Zone
17⅓ - 43⅓

Front
End Post
End Post
44⅞
41⅛
30½
19⅓
5⅛
25⅜
17⅞
4
4
4

Color Combinations

Post Options

Standard Black
RAL 9005*
PANTONE Black

Standard Yellow
RAL 1007*
PANTONE 7548*

Rail Options

Standard Yellow
RAL 1007*
PANTONE 7548*

Standard Black
RAL 9005*
PANTONE Black

Standard Grey
RAL 9007*
PANTONE Cool Grey 5*
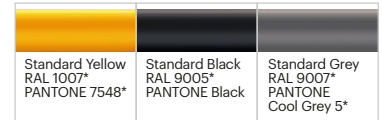
*Please note that the RAL and PANTONE colors listed are the closest match to standard A-SAFE colors, but may not be exact matches of the actual product color and should be used for guidance only.

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