



iFlex Single RackEnd Guardrail

Designed to protect the end of racking aisles where turning vehicles and equipment can impact vulnerable racking structures.

This RackEnd guardrail provides heavy duty protection to shield racking systems from high impact accidents and prevent damage.

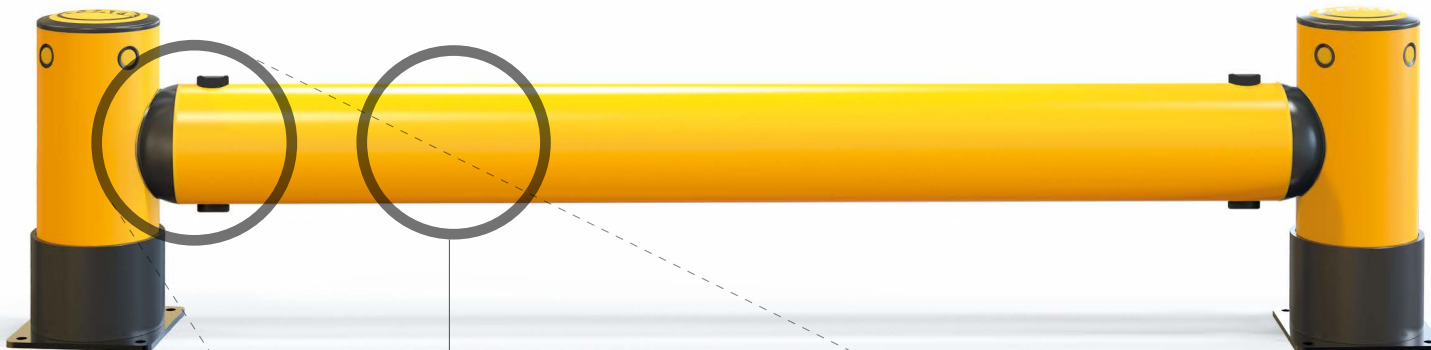
The circular end posts provide enhanced protection at the guardrail ends which are most susceptible to impact. Innovative spinning collars further deflect and dissipate impact forces.



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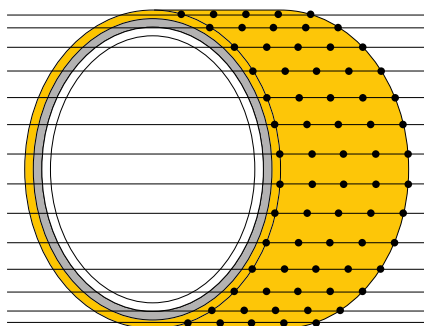
MEMAPLEX™

Ultimate strength polymer

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

Advanced Engineering Molecular

reorientation during manufacturing creates a unique built-in memory that enables the guardrail to fully recover following impacts.



Revolutionary 3-Layered Material

- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilised colour layer



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.
- 2 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.

- | | |
|-------------------|-----------------------------|
| A Post Pin | D Compression Pocket |
| B Coupling | E Rail |
| C Rail Pin | |

Suitability

Vehicle



Heavy duty counterbalance FLT



High rack stacker



Electric high reach truck



Horizontal Order Picker

Application



Racking Protection



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.

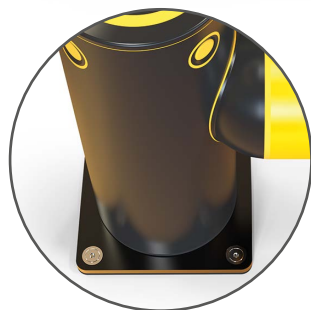
Huge return on investment from incident prevention and downtime avoidance as guardrails, vehicles, floors and equipment do not need replacing or repair.



Features and benefits



Rotating wear collars deflect force from repeat glancing blows preventing expensive on-going maintenance costs.



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



Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent guardrail sections.



Seals reduce the risk of water ingress.



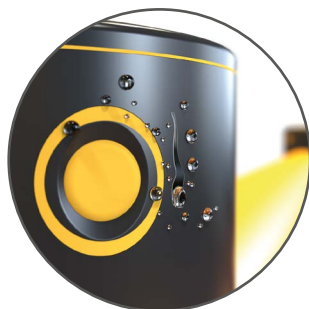
Ultra-low maintenance material is chemical and water resistant, non-corrosive, non-scratch and self coloured so no repainting, rusting, flaking or corrosion.



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



No floor damage 80% of impact force is absorbed, transferring just 20% to the floor.



Wipe-clean, water resistant surface.



Ergonomic design with no sharp edges.

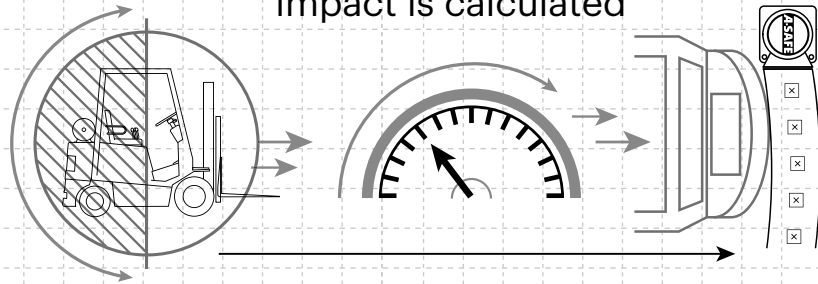


Environmentally friendly and 100% recyclable.



Technical Information

How the energy from a vehicle impact is calculated



$$\frac{1}{2} \text{ Mass} \times \text{Speed}^2 = \text{Joules}$$

Tested Impact Energy

30,200 Joules

Equivalent vehicle and speed

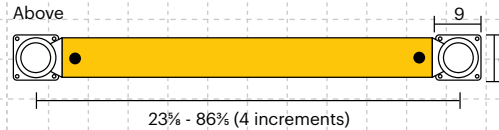
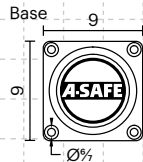


13.3 Ton

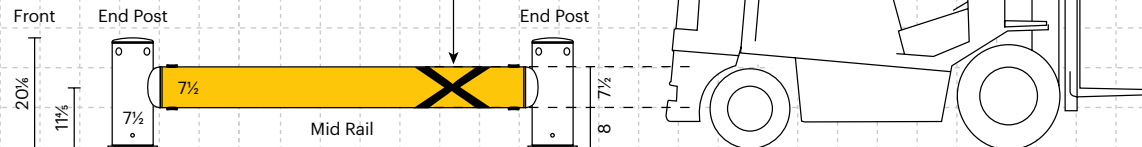
5 mph impact

Mid Rail 45° Impact on 78% inch Post Centres

Dimensions (inches)



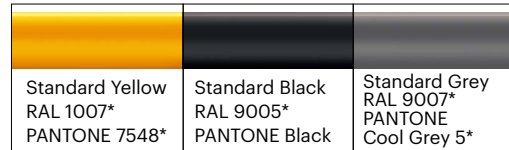
X = Impact Zone
8 - 15%



Post Options



Rail Options

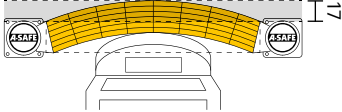
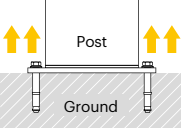


Color Combinations

*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 78% inch Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109

End Post Max Energy (Joules) - 90°	6,900
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Deflection at Max Energy 17 inches	Force to Bolt 24kN
	

Material Properties	MEMAPLEX™
Temperature Range	-10°C to 50°C
Ignition Temperature	370°C to 390°C
Flash Point	350°C to 370°C
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

* Weathering scale 1 is very poor and 5 is excellent

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



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