eFlex Single Traffic Guardrail

Designed to shield buildings, machinery and equipment from damage caused by vehicle collisions both inside and out.

This flexible mid-strength guardrail provides visual guidance to drivers and physical protection for assets by absorbing and deflecting impact forces, preventing incidents and avoiding downtime.

Ideal for mid-traffic areas and for equipping build base specifications.

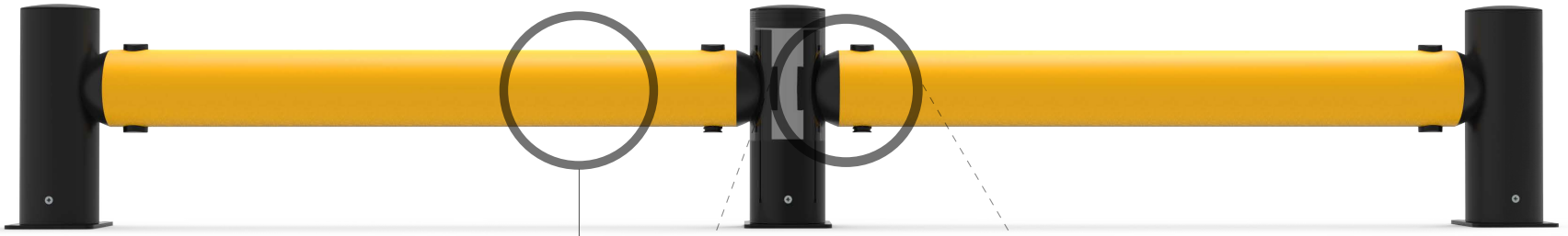
Tested to the global benchmark in barrier safety

bsi. PAS 13

Code of Practice for Workplace Safety Barriers

A-SAFE

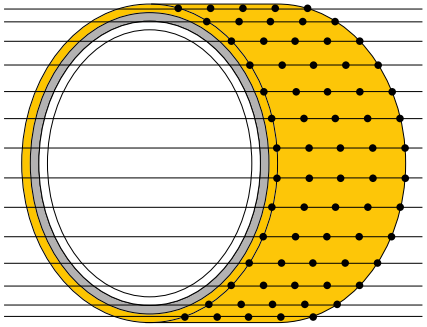
PIONEERING WORKPLACE SAFETY



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.

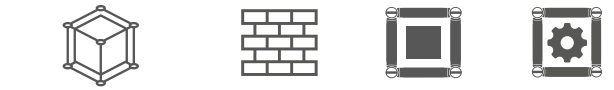
- A Post Pin
- B Coupling
- C Rail Pin
- D Compression Pocket
- E Rail

Suitability

Vehicle

Engine counterbalance heavy duty FLT | Heavy duty counterbalance FLT | Electric high reach truck | Horitzontal Order Picker

Application



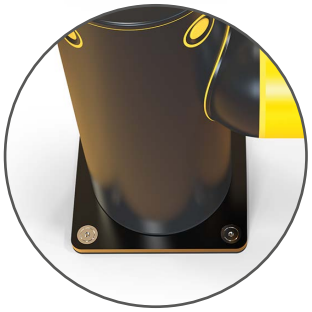
Building and equipment protection | Corridor and wall protection | Column protection | Protects machinery

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

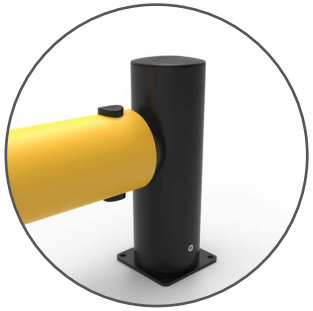
Multi-directional system ensures a streamlined fit into any operation and the removal of hard angles.



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.

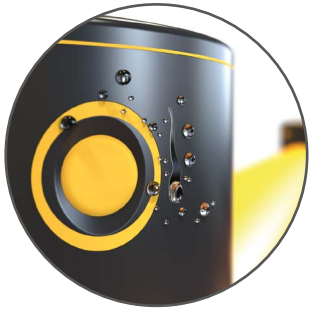
Seals reduce the risk of water ingress.



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.



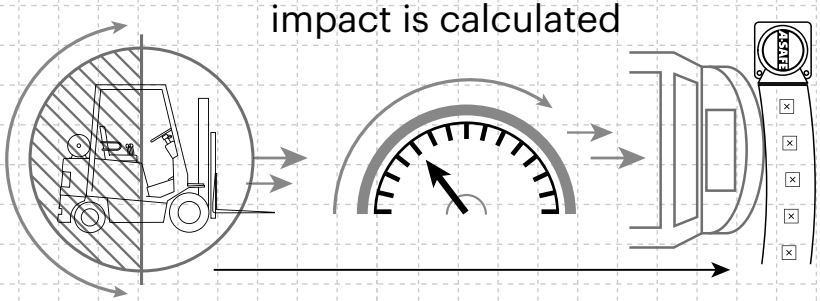
Wipe-clean, water resistant surface.

Ergonomic design with no sharp edges.

Environmentally friendly and 100% recyclable.

Technical Information

How the energy from a vehicle impact is calculated



½ Mass x Speed² =Joules

Tested Impact Energy

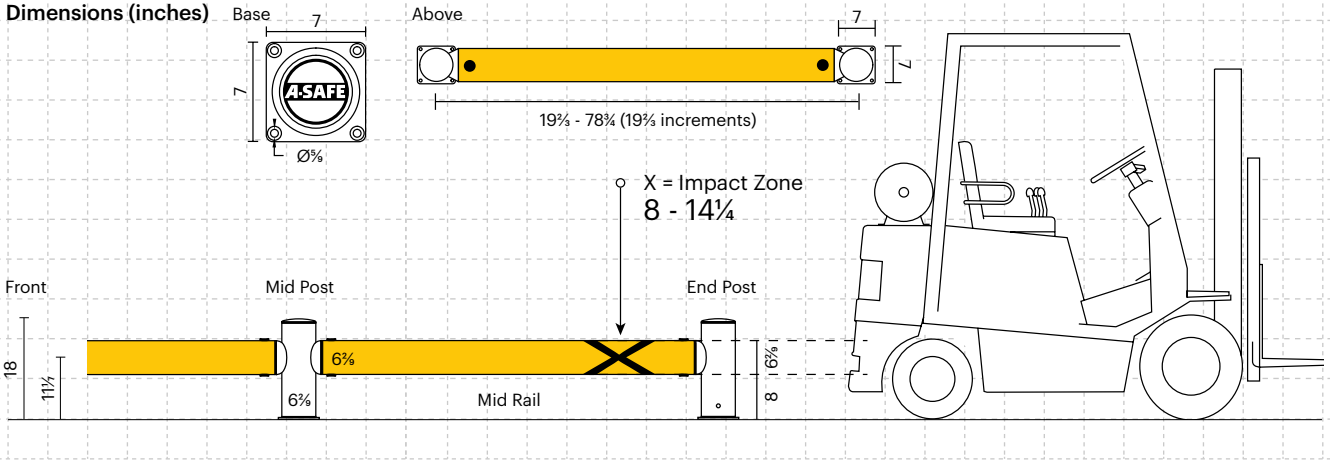
20,400 Joules

Equivalent vehicle and speed

6.2 ton X **6 mph impact**

Mid Rail 45° Impact on 78¾ Post Centres

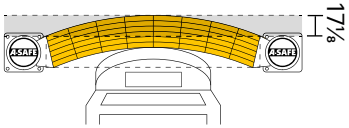
Dimensions (inches)



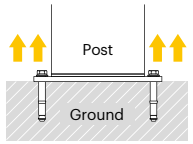
Impact Test	Impact Angle on 78¾ Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	10,200	11,950	20,400	69,650

End Post Max Energy (Joules) - 90°	3,600
Mid Post Max Energy (Joules) - 90°	3,600

Deflection at Max Energy
17⅛



Force to Bolt
13kN



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

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

Post Options

Standard Black
RAL 9005*
PANTONE Black

Rail Options

Standard Yellow	Standard Black
RAL 1007*	RAL 9005*
PANTONE 7548*	PANTONE Black

Colour 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.

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