iFlex Single Traffic Barrier

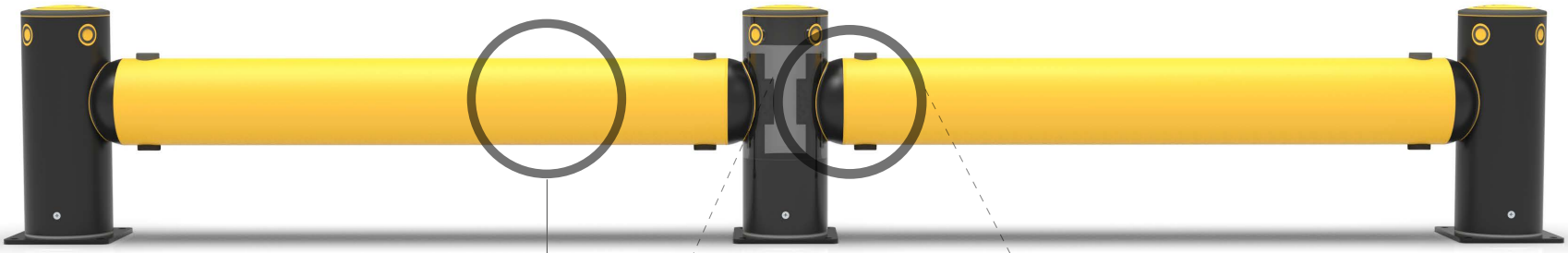
Designed to shield buildings, machinery and equipment from damage caused by vehicle collisions both inside and out.

This flexible heavy-duty barrier provides visual guidance to drivers and physical protection for vital assets by absorbing and deflecting high-impact forces, preventing incidents and avoiding downtime. Ideal for high traffic areas.

TÜV NORD
TÜV NORD Systems GmbH & Co. KG
Determination of the Product Type
Testing Criteria to determine essential Product Properties:
PAS 13: 2017 sec. 7/7.8

Tested to the global benchmark in barrier safety
bsi. PAS 13
Code of Practice for Workplace Safety Barriers

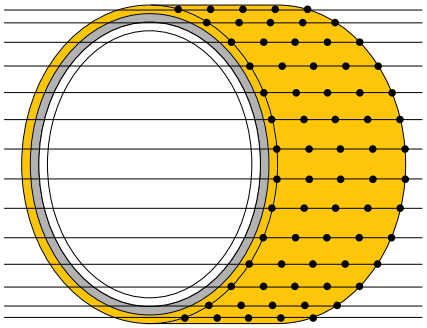
A-SAFE
PIONEERING WORKPLACE SAFETY



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.

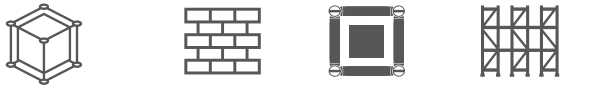
- **A** Post Pin
- **B** Coupling
- **C** Rail Pin
- **D** Compression Pocket
- **E** Rail

Suitability

Vehicle

Lightweight counterbalance FLT | Electric high reach truck | Electric Pedestrian Truck | Manual Pallet Truck | Electric Pedestrian Stacker

Application



Building and equipment protection | Corridor and wall protection | Column protection | Racking and Storage 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 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.

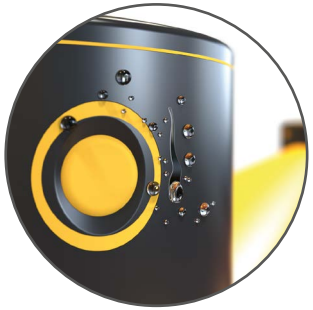
Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent guardrail sections.

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.



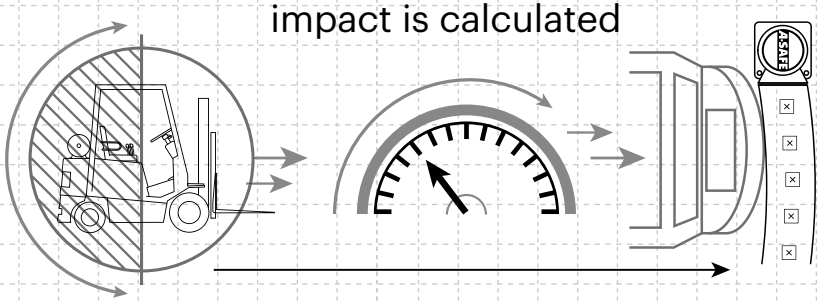
Wipe-clean, water resistant surface.

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

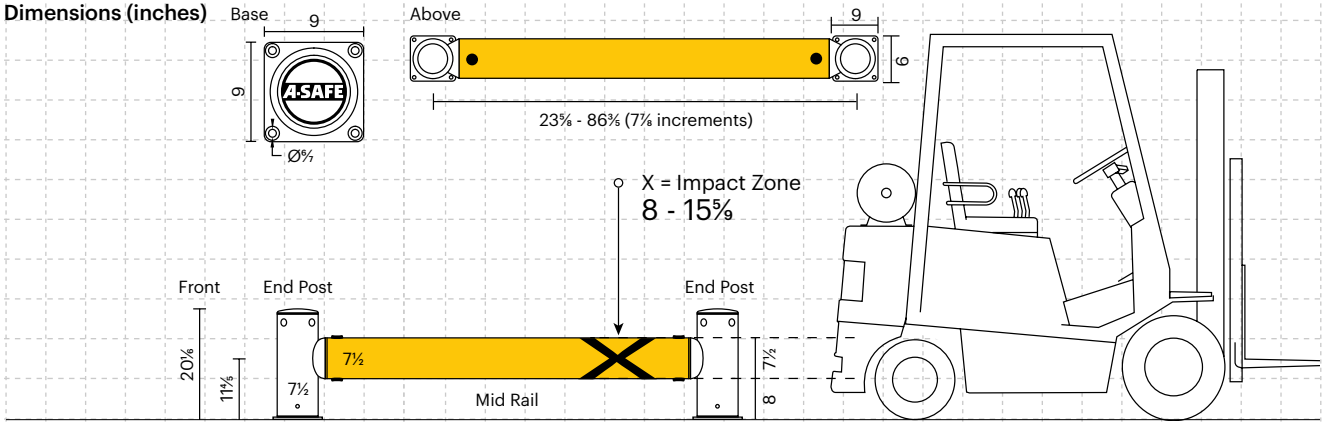
30,200 Joules

Equivalent vehicle and speed

9.2 ton X **6 mph impact**

Mid Rail 45° Impact on 78¾ Post Centres

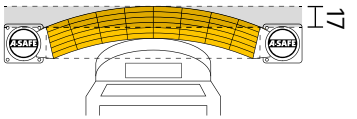
Dimensions (inches)



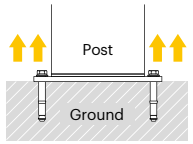
Impact Test	Impact Angle on 78¾ Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109

End Post Max Energy (Joules) - 90°	6,900
Mid Post Max Energy (Joules) - 90°	6,900

Deflection at Max Energy
17 inches



Force to Bolt
24kN



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

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*

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.

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