



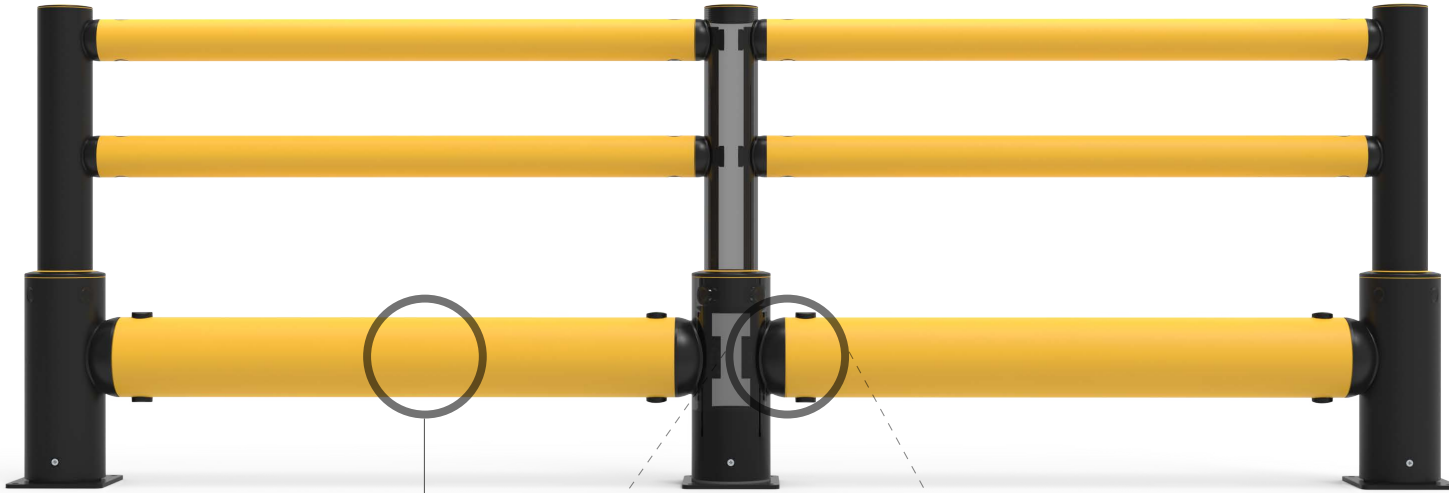
# iFlex Single Traffic Barrier+

Designed to protect people from injury, and safeguard buildings and equipment from damage both inside and out.

The high-strength, dual-function guardrail isolates vehicles whilst also guiding pedestrians. The traffic rail provides heavy-duty resistance to impacts. The addition of an ergonomic handrail increases the height to segregate pedestrians and prevent falls.

Ideal for busy environments and high traffic areas where people and vehicles mix.





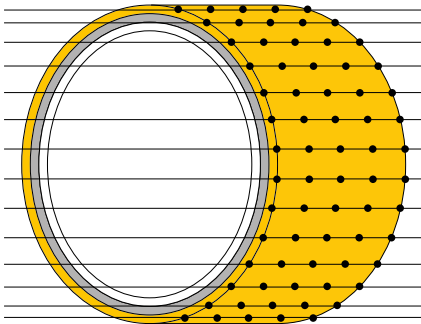
## MEMAPLEX™

### 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.

- |                   |                             |
|-------------------|-----------------------------|
| <b>A</b> Post Pin | <b>D</b> Compression Pocket |
| <b>B</b> Coupling | <b>E</b> Rail               |
| <b>C</b> Rail Pin |                             |

## 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



Protects pedestrians



Traffic and pedestrian segregation





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.

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



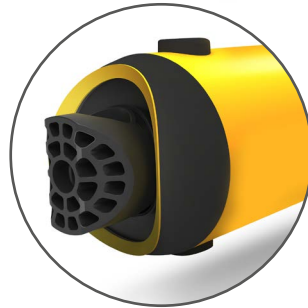
## Features and benefits



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.



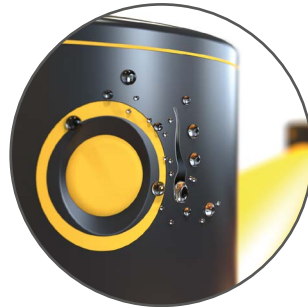
Ultra-low maintenance material is chemical and water resistant, non-corrosive, non-scratch and self coloured so no repainting, rusting, flaking or corrosion.



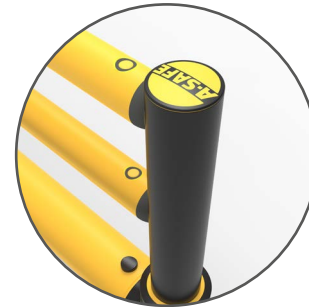
Self coloured and UV stabilised for continued visibility and long lasting aesthetics with no repainting.



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.

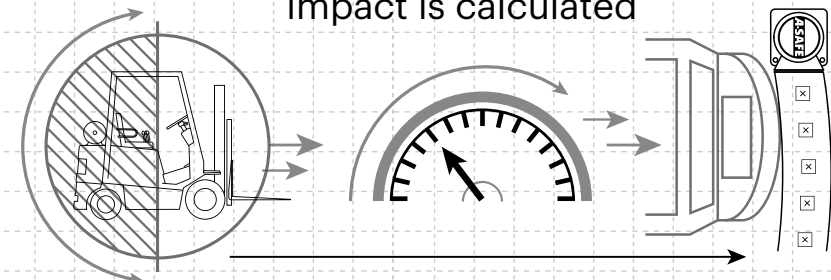


Environmentally friendly and 100% recyclable.



# Technical Information

How the energy from a vehicle impact is calculated




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

## Tested Impact Energy

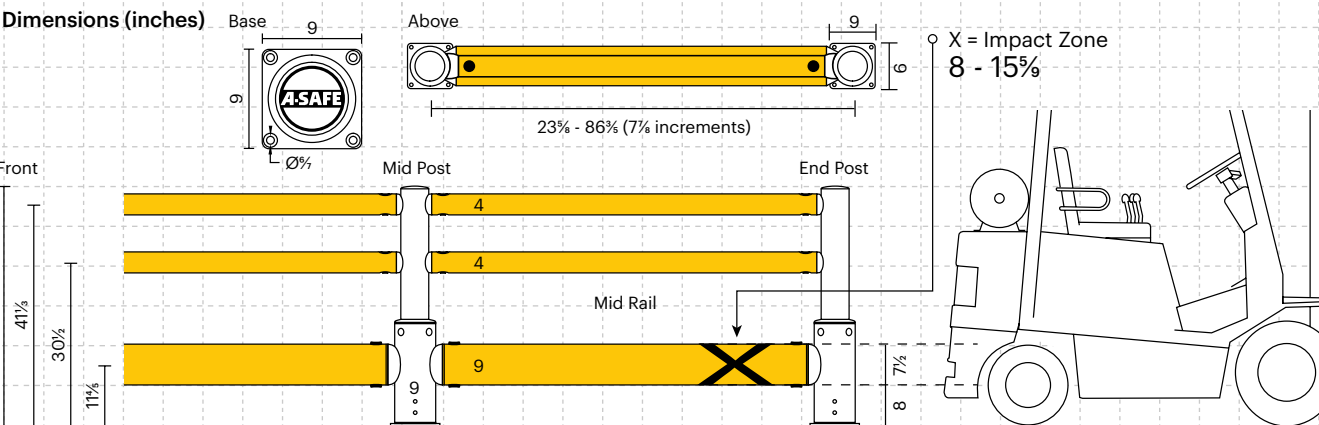
**30,200 Joules**

Equivalent vehicle and speed

 **X** **6 mph**  
**9.2 ton impact**

Mid Rail 45° Impact on  
78% Post Centres

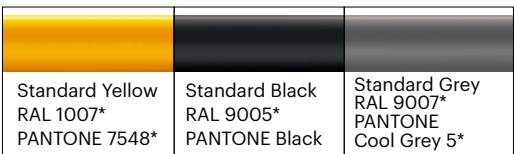
### Dimensions (inches)



### Post Options



### Rail Options

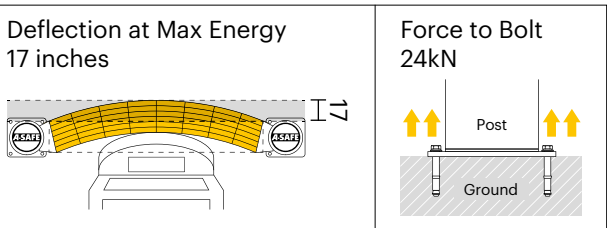


### Color Combinations

\*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% 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



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

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