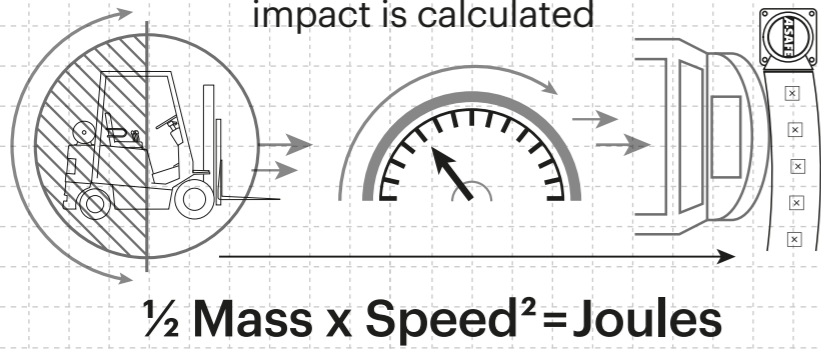


Technical Information

How the energy from a vehicle impact is calculated



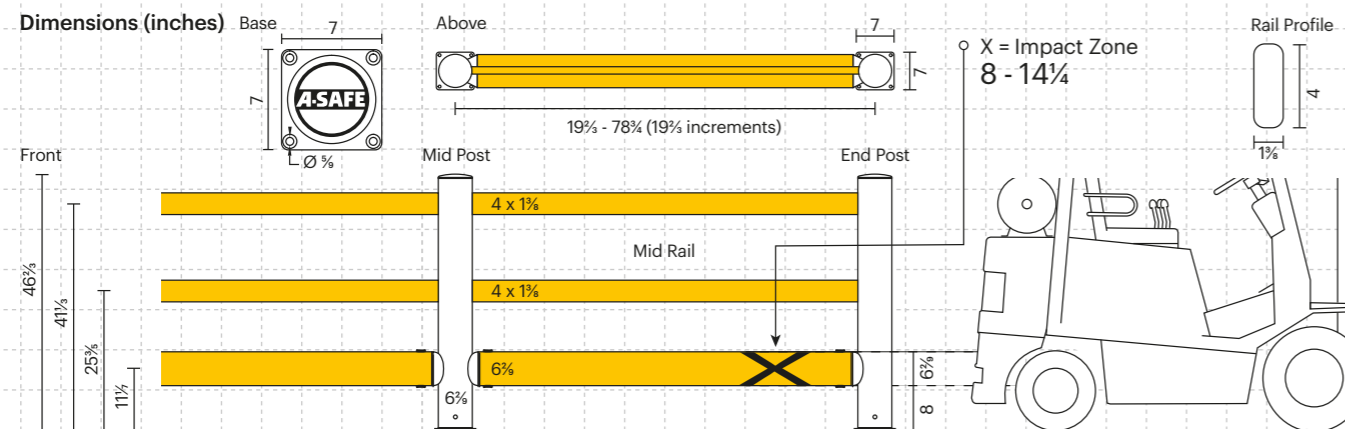
Tested Impact Energy
20,400 Joules
 Equivalent vehicle and speed
6.2 ton X **6 mph impact**
 Mid Rail 45° Impact on 78 1/4 inch Post Centers

Impact Test	Impact Angle on 78 1/4 inch Post Centers			
	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 17 1/4 inches	Force to Bolt 13kN
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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	No

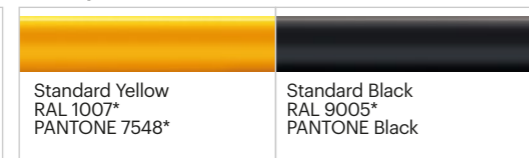
* Weathering scale 1 is very poor and 5 is excellent
 ** Light stability scale 1 is very poor and 8 is excellent



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.



eFlex™
Single Traffic Guardrail+

A-SAFE



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

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

Ideal for mid-traffic areas where people and vehicles mix, and for build base specifications.

Tested to the global benchmark in guardrail safety

bsi. PAS 13
 Code of Practice for Workplace Safety Guardrails



Engineered for performance

Whether in the resilience, flexibility and in-built memory of our exclusive Memaplex™ material or the unrivalled energy absorption of our unique 3-phase coupling system, a wealth of technical ingenuity goes into every A-SAFE product to ensure that it performs perfectly every time you need it to. We are continuously innovating to solve the greatest workplace safety challenges on behalf of our customers and our numerous patents attest to our industry-leading commitment to research and development.

Ultimate 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 guardrail, vehicles, floors and equipment do not need replacing or repair.

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

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

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

Energy Absorption System
Patented system dissipates impact forces through the guardrail and away from floors and fixings, preventing costly damage.

Advanced Engineering
Molecular reorientation during manufacturing creates a unique built-in memory that enables the barrier to fully recover following impacts.

MEMAPLEX™

Revolutionary 3-Layered Material

- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilized color layer

Ergonomic design with no sharp edges.

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

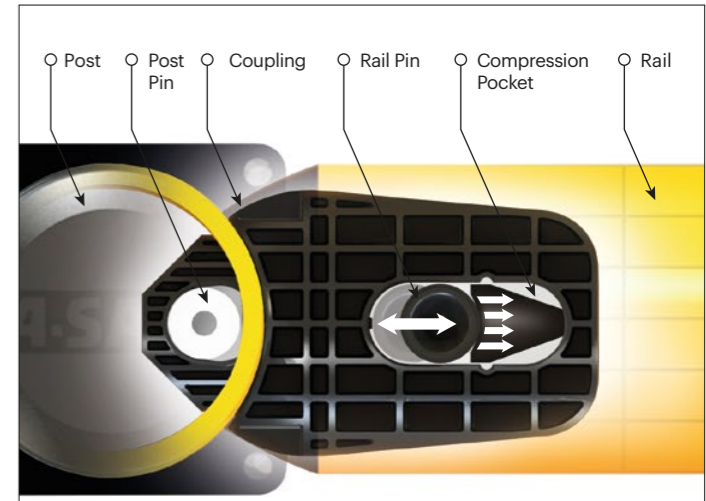
Zinc nickel, electrophoretic coating on base plates as standard, provides advanced protection against corrosion damage.

Environmentally friendly and 100% recyclable.

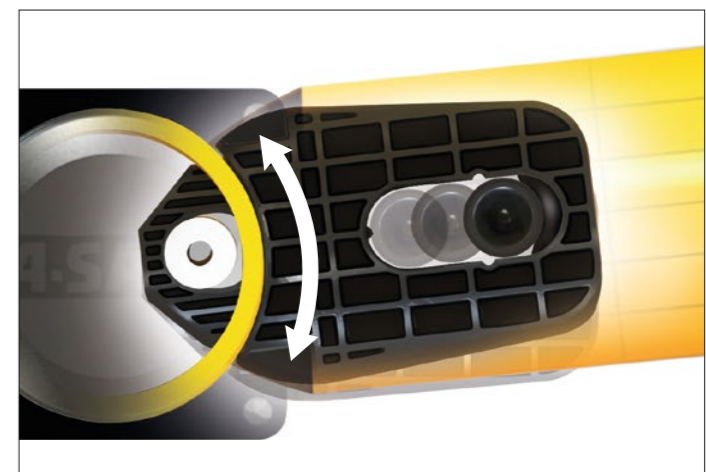
Self colored and UV stabilized for continued visibility and long lasting aesthetics with no repainting.

Energy Absorption System

A patented 3-phase system that activates sequentially for unparalleled energy absorption



PHASE 1: Memaplex™ rail flexes to absorb impact, initiating the rail pin to slide forward and transfer load energy to the compression pocket.



PHASE 2: Compression of the pocket continues to disperse energy as the coupling rotates around the post pin to activate further absorption.



PHASE 3: At peak energy, the coupling twists further, engaging the post pin and instigating torsion of the post to dispel remaining forces.