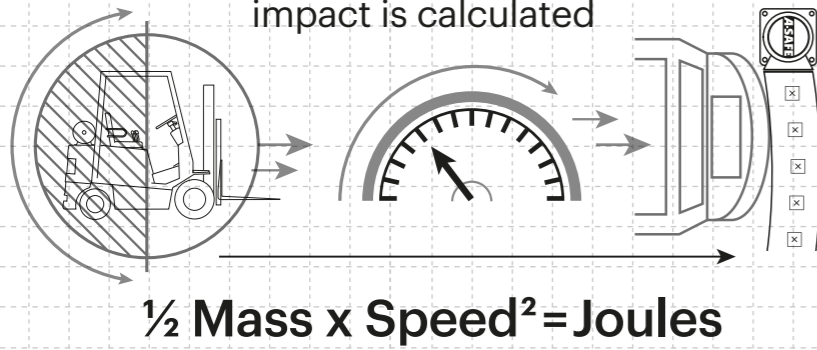


# Technical Information

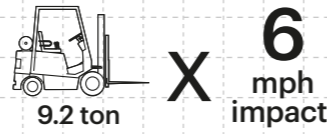
How the energy from a vehicle impact is calculated



Tested Impact Energy

**30,200 Joules**

Equivalent vehicle and speed

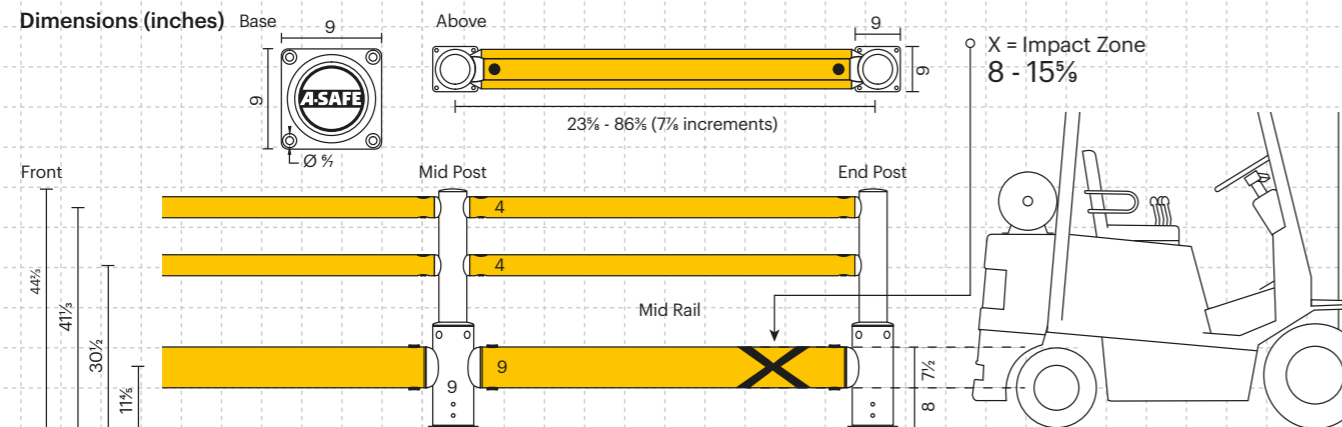
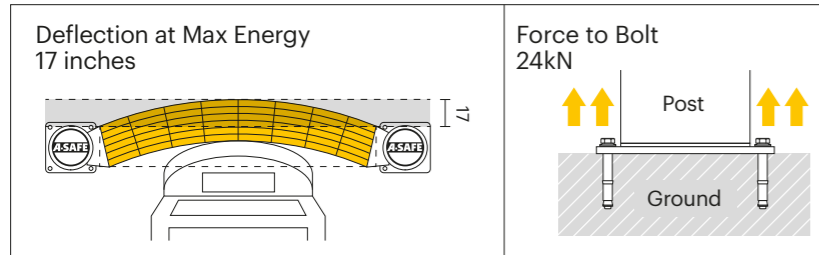


Mid Rail 45° Impact on 78¼ Post Centers

Impact Test	Impact Angle on 78¼ inch Post Centers			
	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
Hygiene Seals	Yes

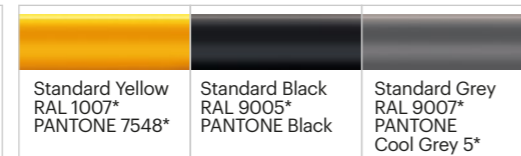
\* Weathering scale 1 is very poor and 5 is excellent  
\*\* Light stability scale 1 is very poor and 8 is excellent



## 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.



iFlex™

Single Traffic Guardrail+

A-SAFE



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.

Tested to the global benchmark in guardrail safety

**bsi. PAS 13**  
Code of Practice for Workplace Safety Guardrails



Testing Criteria to determine essential Product Properties of Collision Protection Systems:

- PAS 13, Sec. 7.7 (Sted and Ramp Impact test)
- PAS 13, Sec. 7.8 (Pass and Fail Criteria)

For further information: [www.tuv-nord.de](http://www.tuv-nord.de)



# 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 guardrails, 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.

**Hygiene seals** remove ingress points.

**Food safe, wipe-clean, water resistant surface.**

**Ergonomic design** with no sharp edges.

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

**Environmentally friendly** and 100% recyclable.

**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.

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

**Revolutionary 3-Layered Material**

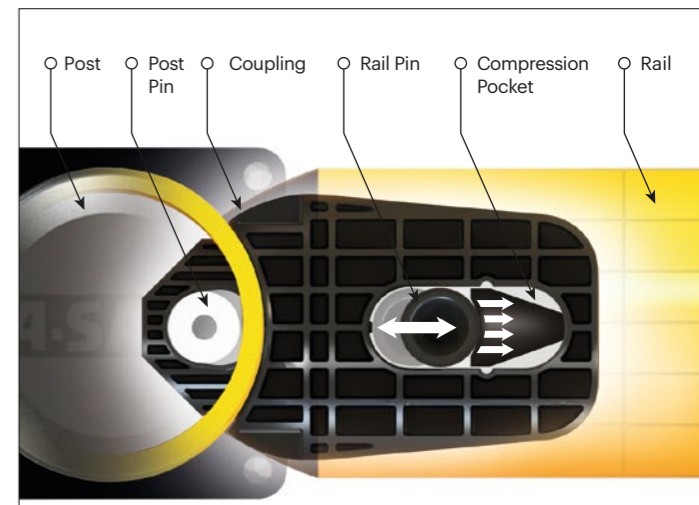
- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilized color layer

**ADDITIONAL BASE OPTIONS**

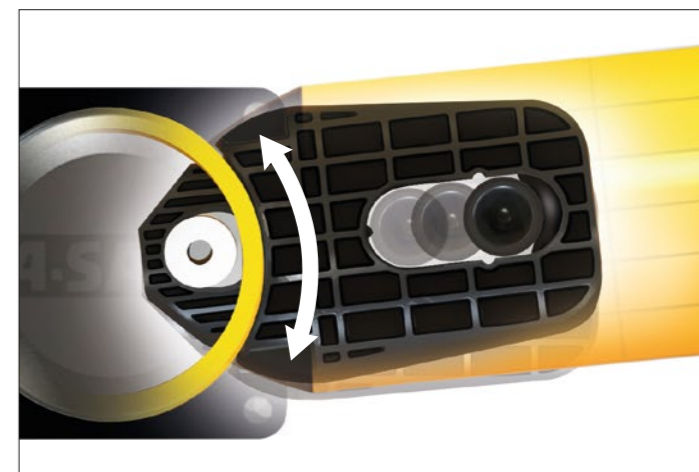
<b>Countersunk Bolts</b> Creates a flat surface, preventing tyre damage where vehicles are in close proximity.	<b>Galvanized Steel</b> Increased weather resistance for outdoor use and harsh climate environments.	<b>Stainless Steel 316 Standard</b> Ultimate performance option, no corrosion or rusting and resistant to powerful cleaning agents. Ideal for hygiene environments.	<b>Stainless Steel 316 Countersunk</b>

## 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.