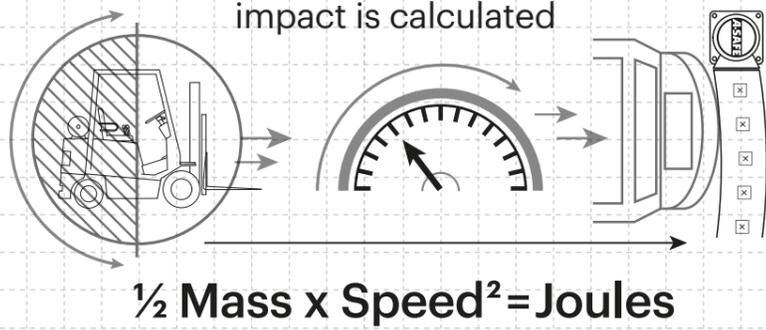


# Technical Information

How the energy from a vehicle impact is calculated



**Tested Impact Energy**  
**27,000 Joules**  
 Equivalent vehicle and speed

**8.3 ton** X **6 mph impact**

Mid Rail 45° Impact on 78 1/4 inch Post Centers

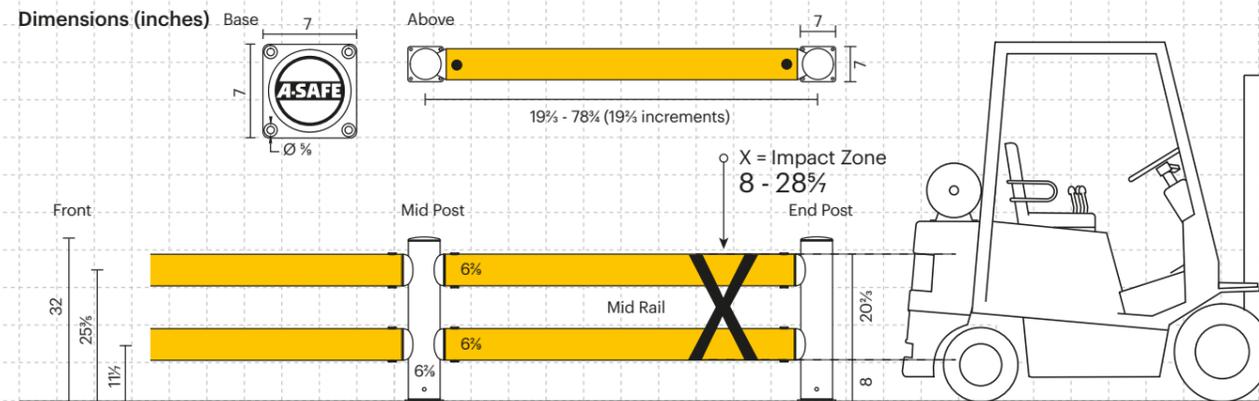
Impact Test	Impact Angle on 78 1/4 inch Post Centers			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	13,500	15,816	27,000	92,184
End Post Max Energy (Joules) - 90°	3,600			
Mid Post Max Energy (Joules) - 90°	3,600			

Deflection at Max Energy 14 1/4 inches	Force to Bolt 29.5kN
---	-------------------------

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

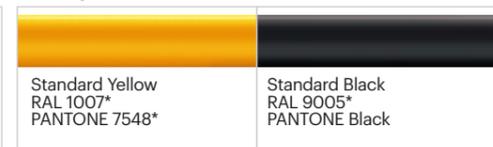
\* Weathering scale 1 is very poor and 5 is excellent  
 \*\* Light stability scale 1 is very poor and 8 is excellent



### 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™

Double Traffic Guardrail

# A-SAFE



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

The Double Rail increases the height and strength of the impact zone to provide greater resistance from straying vehicles than the Single Rail.

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

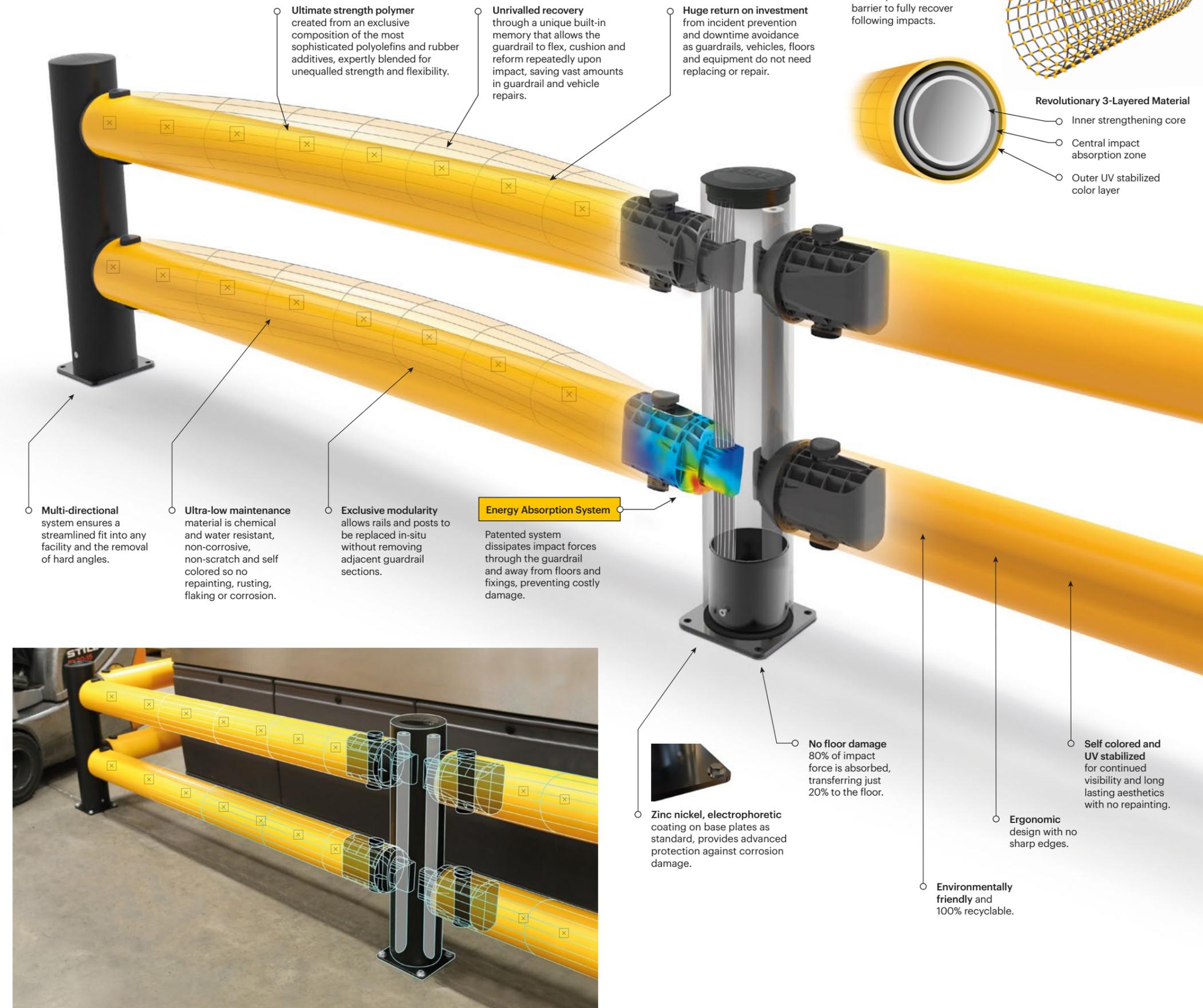
Tested to the global benchmark in guardrail safety

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



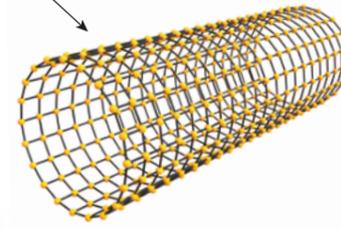
# Engineered for performance

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.



## MEMAPLEX™

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

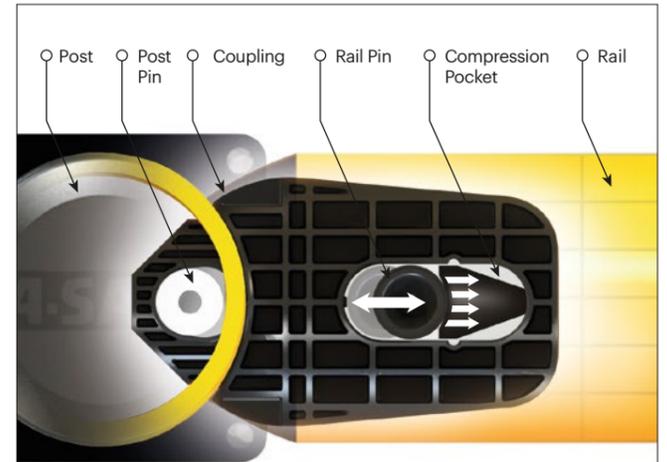


### Revolutionary 3-Layered Material

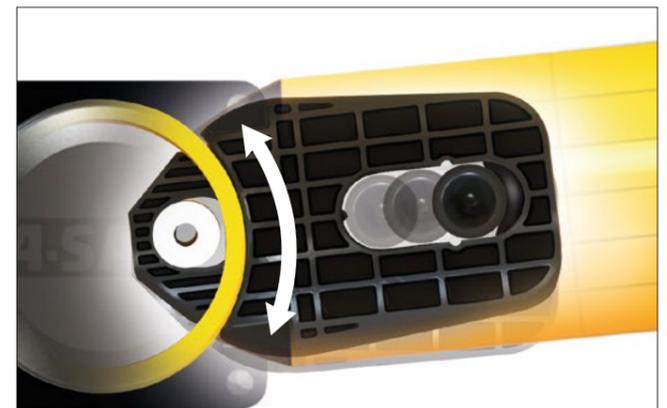
- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilized color layer

## 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.