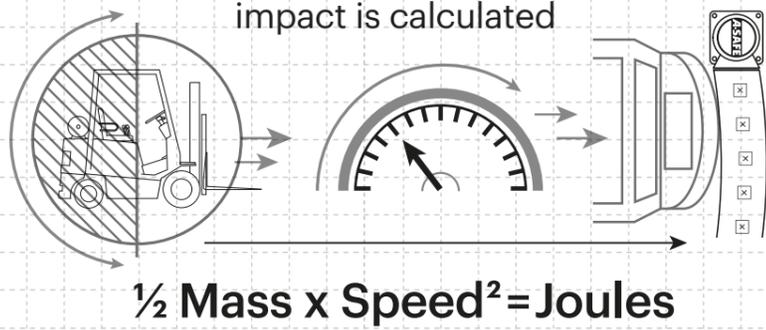


# Technical Information

How the energy from a vehicle impact is calculated



**Tested Impact Energy**  
**30,200 Joules**  
 Equivalent vehicle and speed

**8.4 tonne** X **6 mph impact**

Mid Rail 45° Impact on 2000mm Post Centres

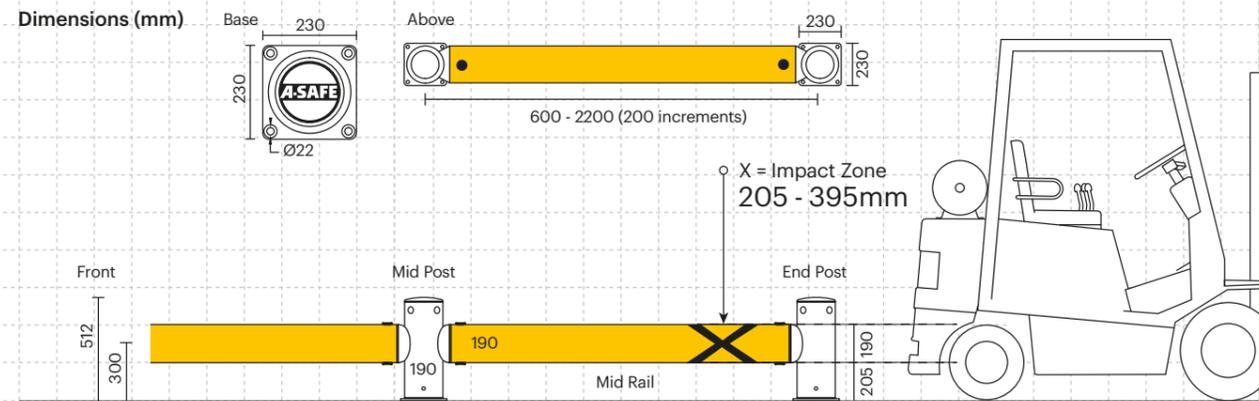
Impact Test	Impact Angle on 2000mm Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109
End Post Max Energy (Joules) - 90°	6,900			
Mid Post Max Energy (Joules) - 90°	6,900			

Deflection at Max Energy 430mm	Force to Bolt 24kN
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Material Properties	MEMAPLEX™
Temperature Range	-10°C to 50°C
Ignition Temperature	370°C to 390°C
Flash Point	350°C to 370°C
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

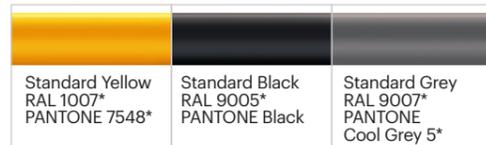
\* Weathering scale 1 is very poor and 5 is excellent  
 \*\* Light stability scale 1 is very poor and 8 is excellent



### Post Options



### Rail Options



### Colour Combinations

\*Please note that the RAL and PANTONE colours listed are the closest match to standard A-SAFE colours, but may not be exact matches of the actual product colour and should be used for guidance only.



iFlex™

Single Traffic Barrier

# A-SAFE



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.



Tested to the global benchmark in barrier safety

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

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

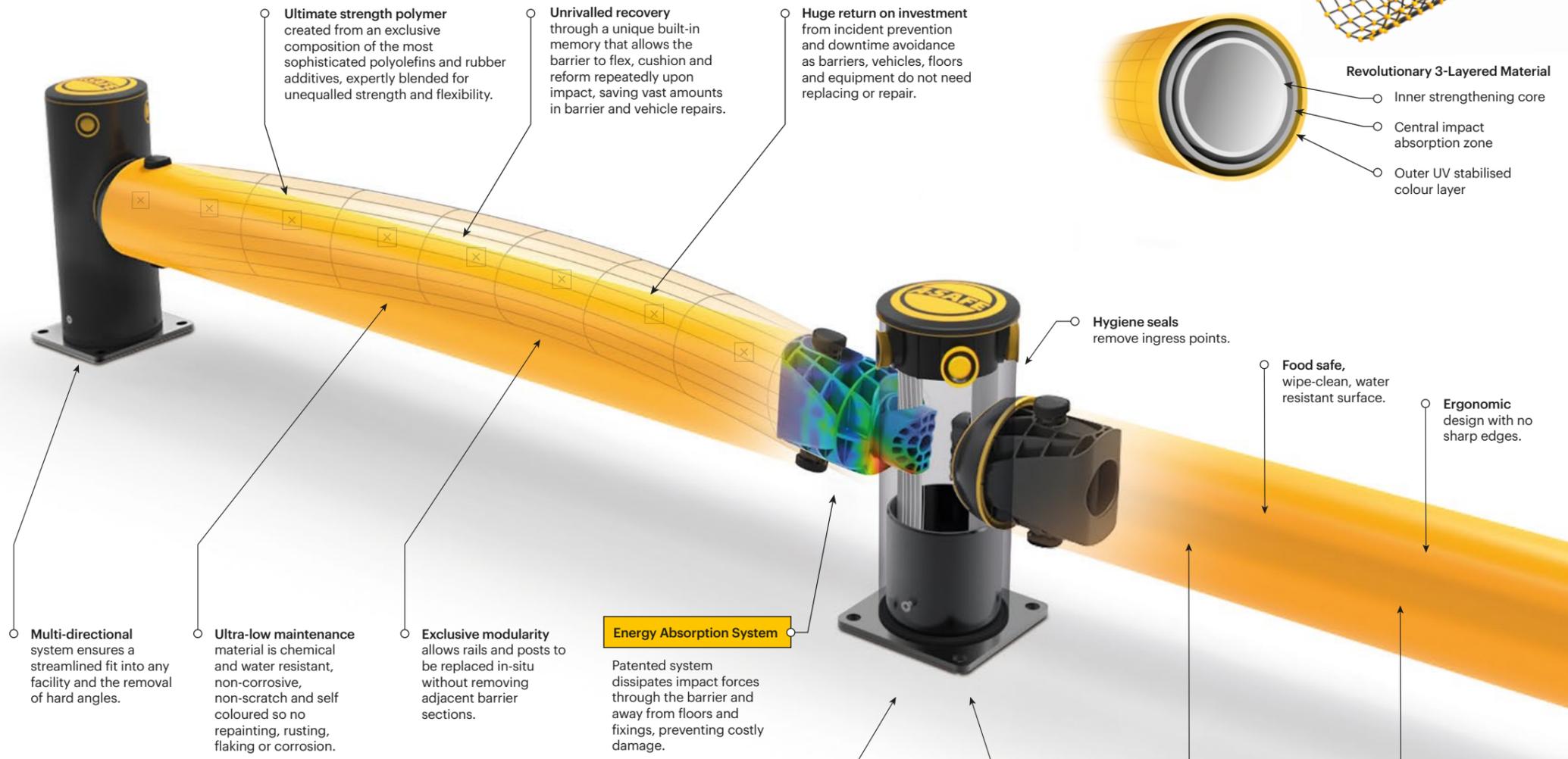
- PAS 13, Sec. 7.7 (Sted and Ramp Impact test)
- PAS 13, Sec. 7.8 (Pass and Fail Criteria)

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



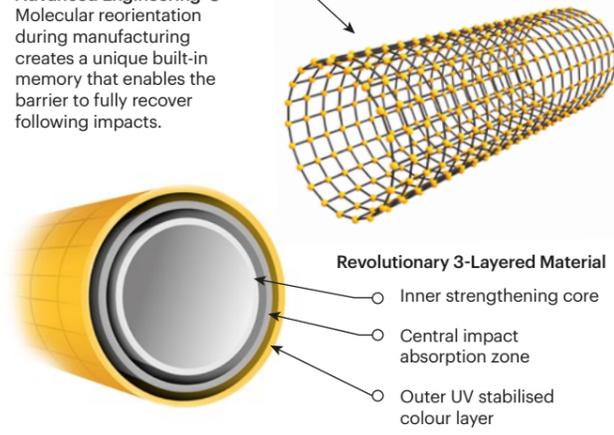
# Engineered for performance

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.



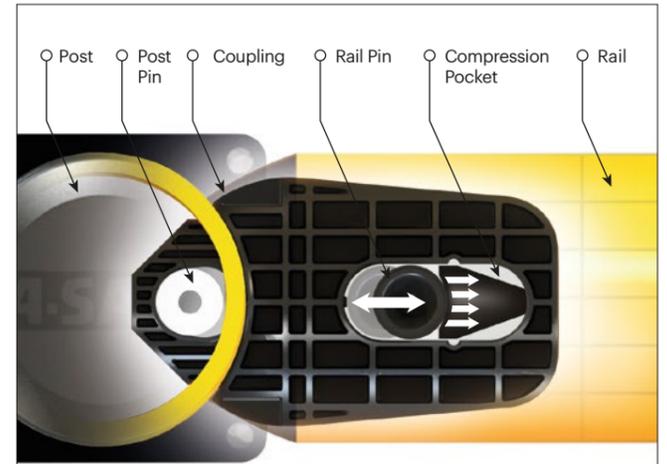
## MEMAPLEX™

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

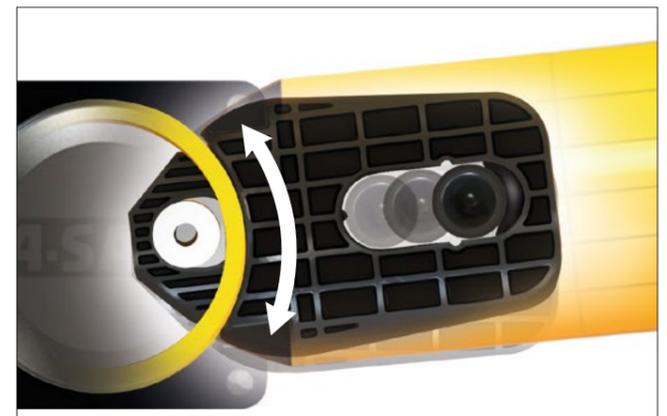


## Energy Absorption System

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.

### ADDITIONAL BASE OPTIONS

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