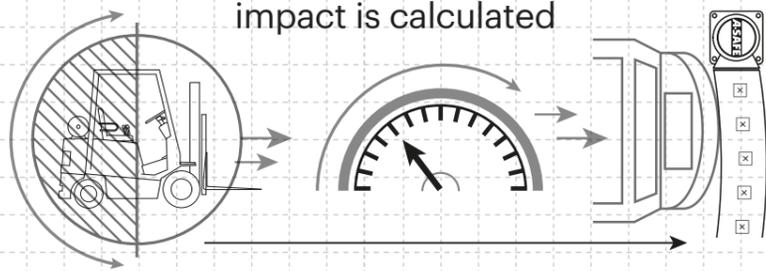


# Technical Information

How the energy from a vehicle impact is calculated

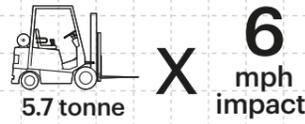


$$\frac{1}{2} \text{ Mass} \times \text{Speed}^2 = \text{Joules}$$

Tested Impact Energy

**20,400 Joules**

Equivalent vehicle and speed

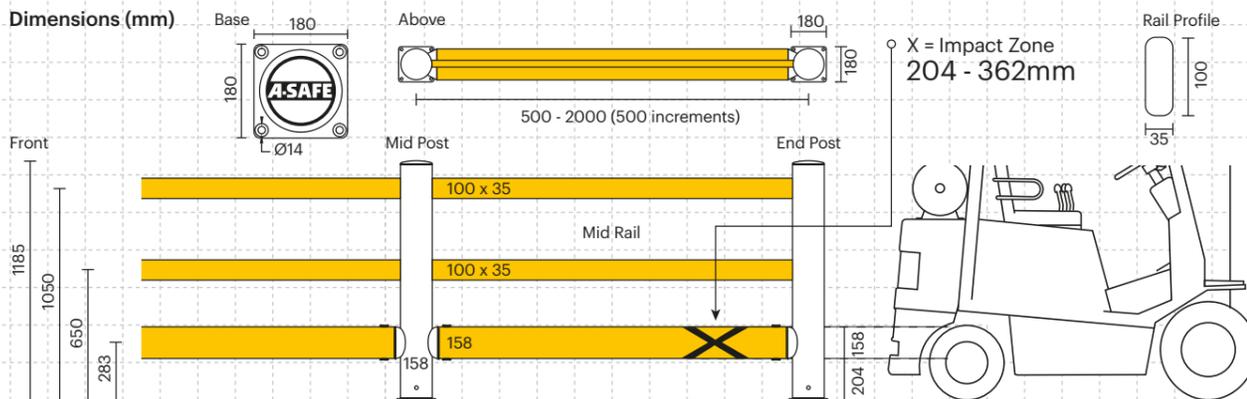
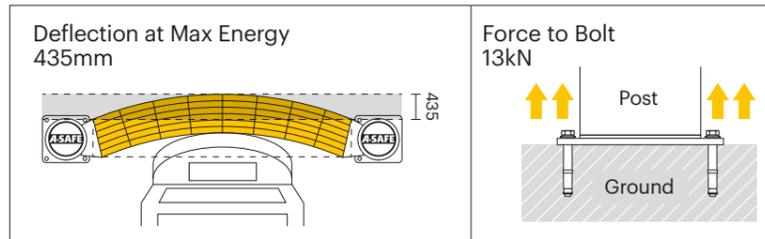


Mid Rail 45° Impact on 2000mm Post Centres

Impact Test	Impact Angle on 2000mm Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	10,200	11,950	20,400	69,650
End Post Max Energy (Joules) - 90°	3,600			
Mid Post Max Energy (Joules) - 90°	3,600			

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	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



### 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.



**eFlex™**  
Single Traffic Barrier+

# A-SAFE



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

The mid-strength, dual-function barrier 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.

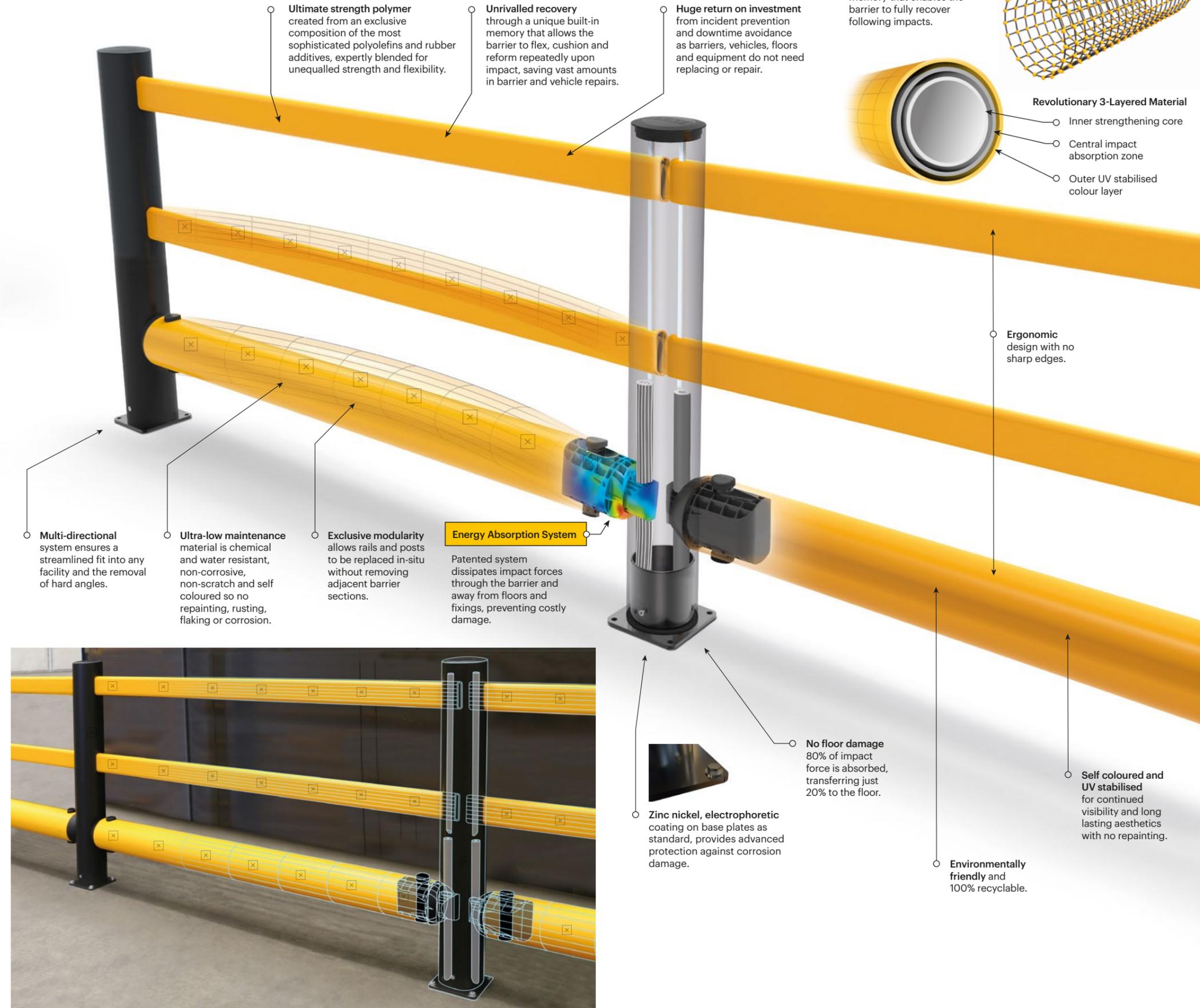
Tested to the global benchmark in barrier safety

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



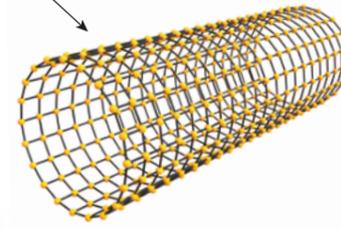
# Engineered for performance

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.

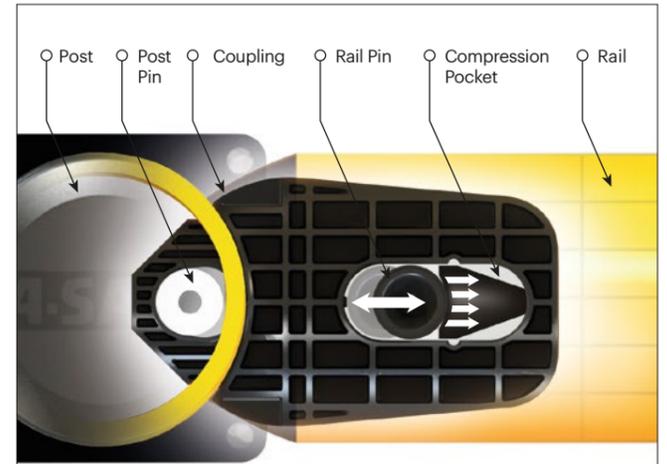


### Revolutionary 3-Layered Material

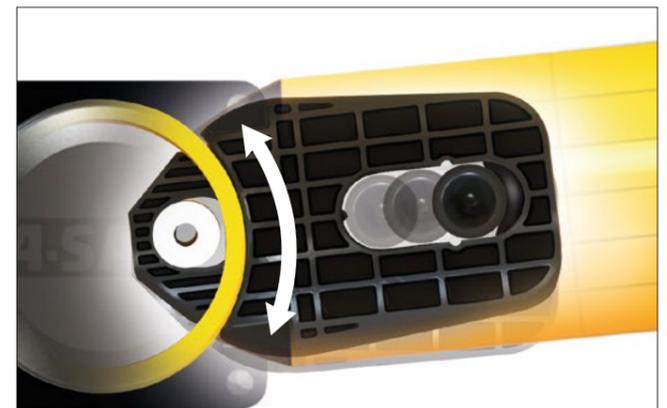
- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilised colour layer

## 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.