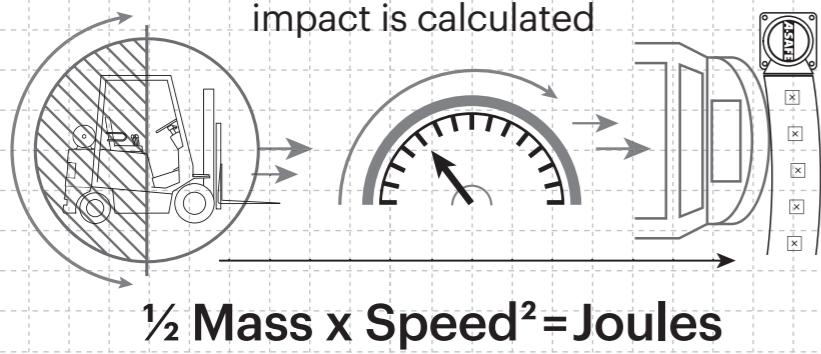


# Technical Information

How the energy from a vehicle impact is calculated



**Tested Impact Energy**  
**19,000 Joules**  
 Equivalent vehicle and speed

**5.2 tonne** X **6 mph impact**

Mid Rail 45° Impact on 2000mm Post Centres

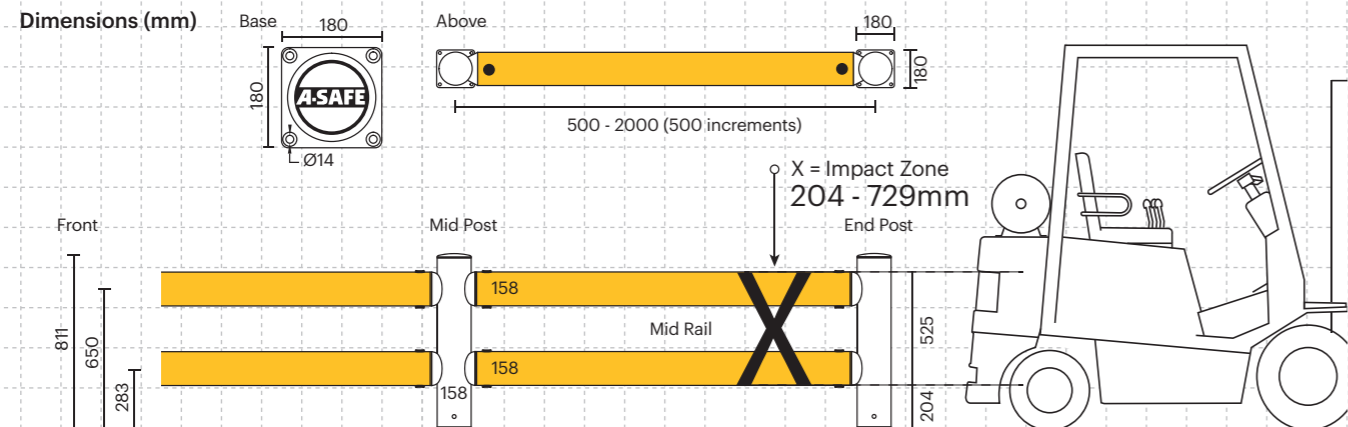
Impact Test	Impact Angle on 2000mm Post Centres			
	90°	45°	22.5°	10°
Mid Rail Max Energy (Joules)	13,500	19,000	35,200	77,700
End Post Max Energy (Joules) - 90°	3,600			
Mid Post Max Energy (Joules) - 90°	3,600			

Deflection at Max Energy 370mm	Force to Bolt 29.5kN
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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	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
Standard Black RAL 9005* PANTONE Black	Standard Yellow RAL 1007* PANTONE 7548*	Standard Black RAL 9005* PANTONE Black

**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™**  
**Double Traffic Barrier**

# A-SAFE

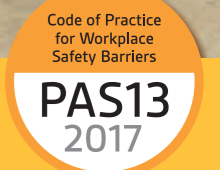
Est. 1984



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

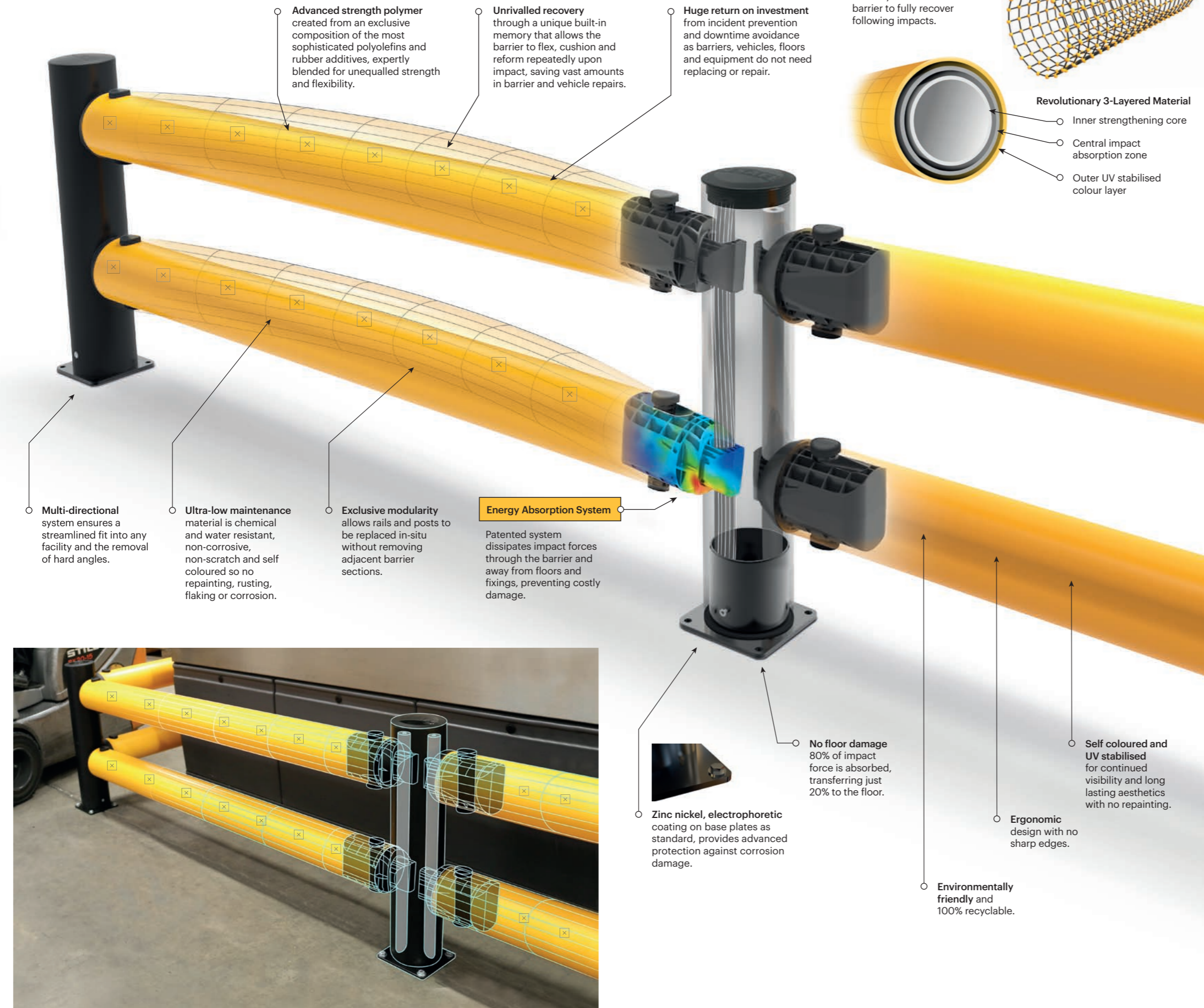
The Double Rail increases the height and strength of the impact zone to provide greater resistance from straying vehicles than the Single Rail.

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



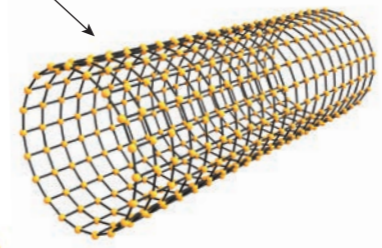
# Engineered for performance

A-SAFE's state of the art products are meticulously engineered to deliver the highest performance. Designed, developed, tested and manufactured in-house at our cutting-edge facility, each unique component is carefully crafted and purpose-built to play a vital role in the product's performance.



## MEMAPLEX™

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

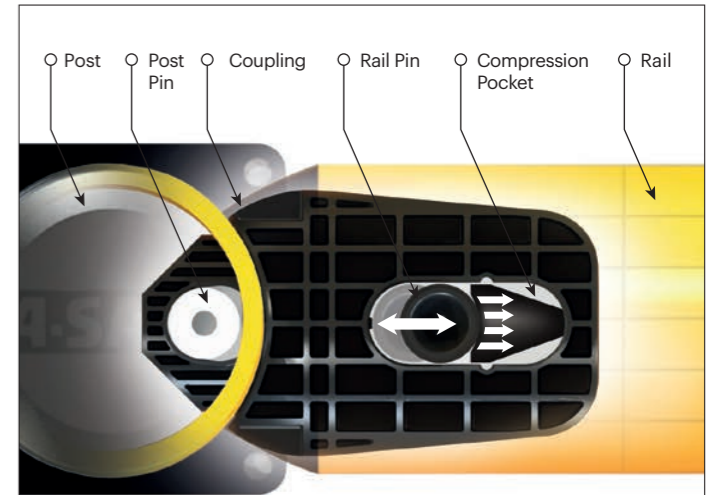


**Revolutionary 3-Layered Material**

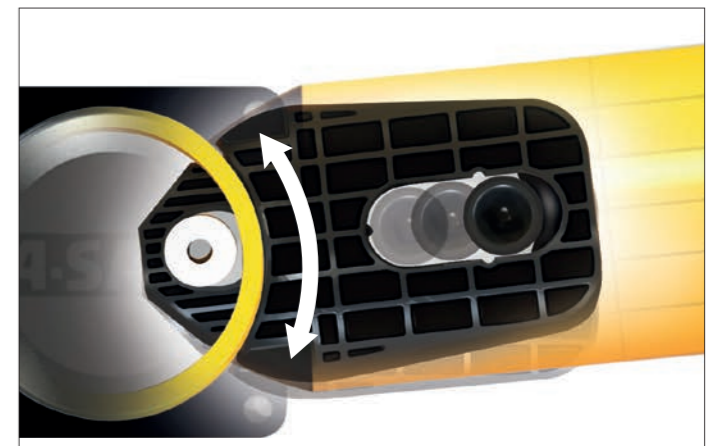
- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilised colour layer

## Energy Absorption System

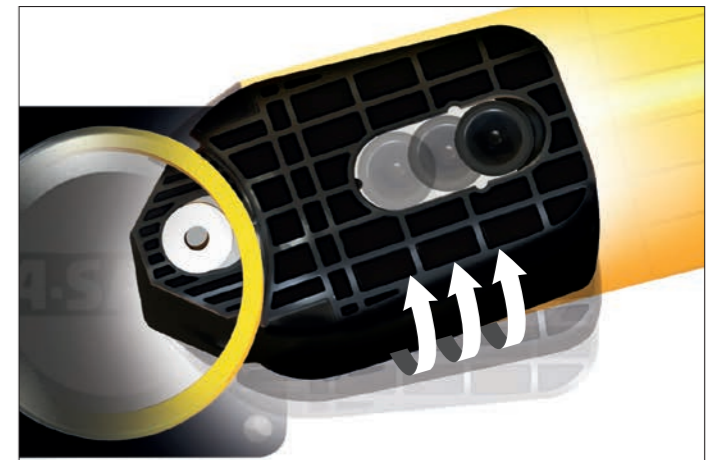
A patented 3-phase system that activates sequentially for unparalleled energy absorption



**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.