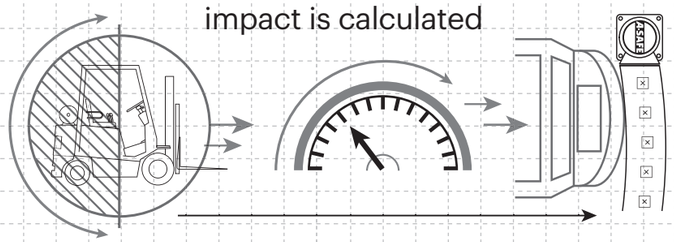
Technical Information

How the energy from a vehicle impact is calculated

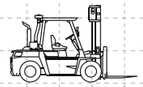


½ Mass x Speed² = Joules

Tested Impact Energy

28,950 Joules

Equivalent vehicle and speed



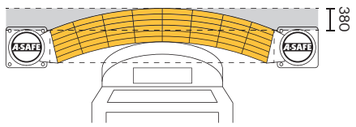
8 tonne X 6 mph impact

Mid Rail 45° Impact on 2000mm Post Centres

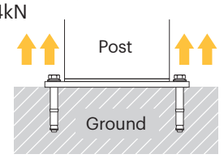
Impact Test	Impact Angle on 2000mm Post Centres			
	90°	45°	22.5°	10°
Mid Rail Max Energy (Joules)	20,500	28,950	53,550	118,000

End Post Max Energy (Joules) - 90°	6,900
Mid Post Max Energy (Joules) - 90°	6,900

Deflection at Max Energy 380mm



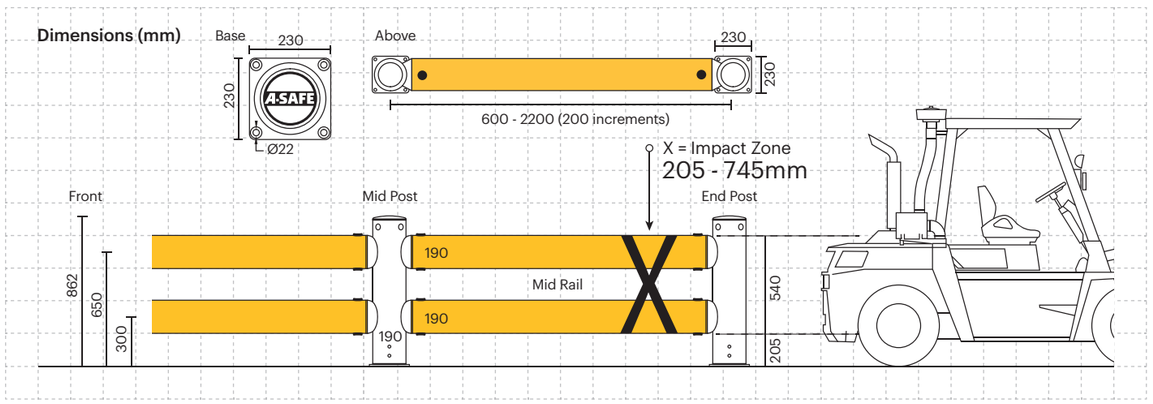
Force to Bolt 34kN



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

Dimensions (mm)



Post Options

Standard Black
RAL 9005*
PANTONE Black

Standard Yellow
RAL 1007*
PANTONE 7548*

Rail Options

Standard Yellow RAL 1007* PANTONE 7548*	Standard Black RAL 9005* PANTONE Black	Standard Grey RAL 9007* PANTONE Cool Grey 5*

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.

A-SAFE Est. 1984

iFlex™

Double Traffic Barrier

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

The Double Rail provides maximum resistance and protection from straying vehicles in high-impact areas.

This flexible, heavy-duty barrier system guides drivers and shields vital assets by absorbing and deflecting heavyweight forces, preventing incidents and avoiding downtime.

Ideal for larger mass vehicle movement and high traffic areas.

TÜV NORD — TÜV NORD Systems GmbH & Co. KG — Freiwillige Prüfung — 28.01.2019 — A-SAFE PENDULUM IMPACT TESTER

Code of Practice for Workplace Safety Barriers PAS13 2017

A-SAFE Headquarters
Habergham Works, Ainleys Industrial Estate, Elland, HX5 9JP, West Yorkshire, United Kingdom.
www.asafe.com

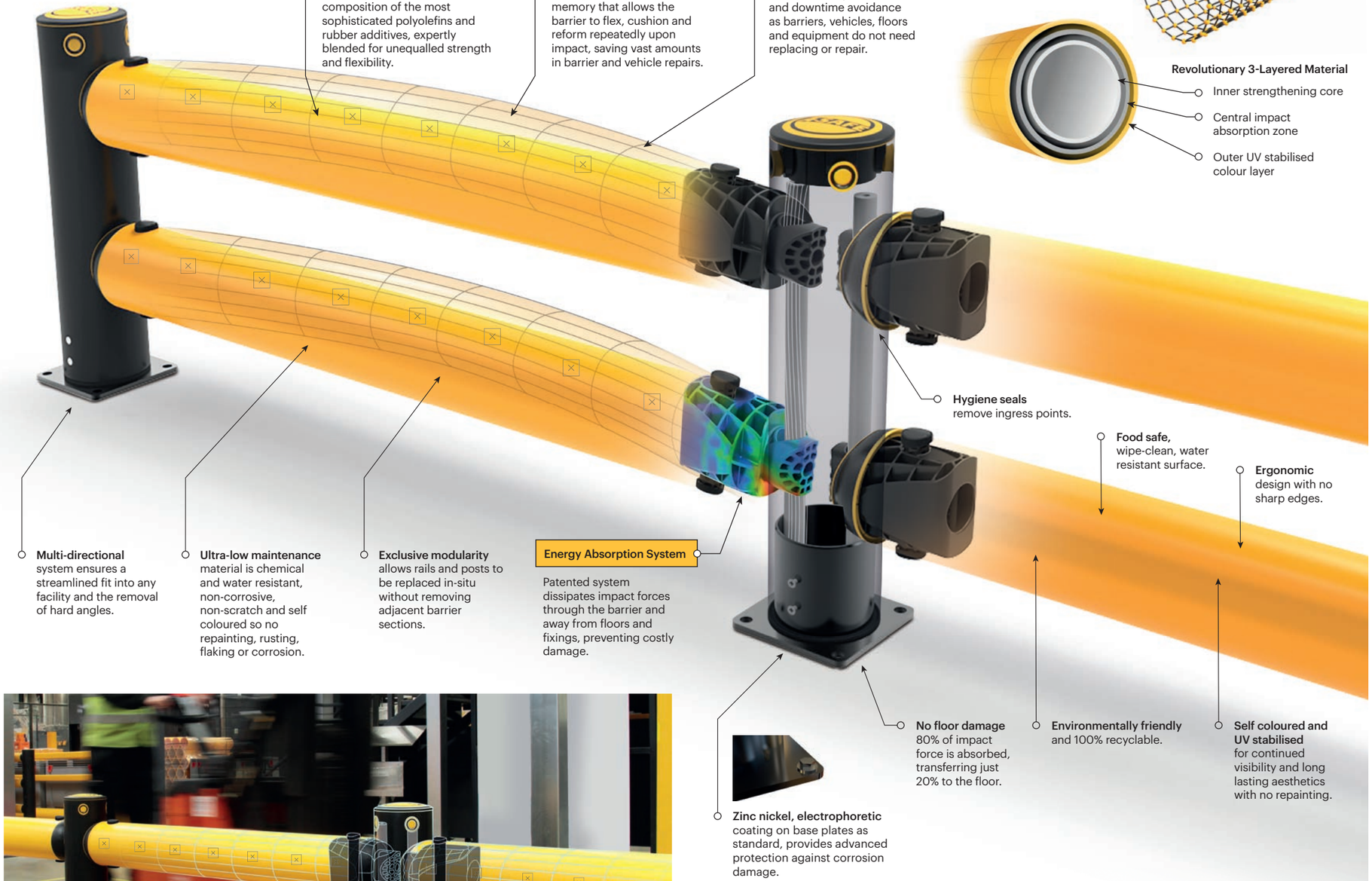
Engineered for performance

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.

Advanced 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 barrier to flex, cushion and reform repeatedly upon impact, saving vast amounts in barrier and vehicle repairs.

Huge return on investment from incident prevention and downtime avoidance as barriers, 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 coloured so no repainting, rusting, flaking or corrosion.

Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent barrier sections.

Energy Absorption System

Patented system dissipates impact forces through the barrier 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.

No floor damage 80% of impact force is absorbed, transferring just 20% to the floor.

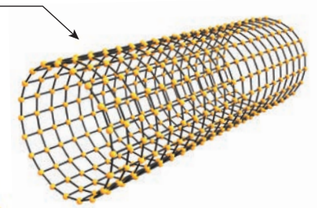
Environmentally friendly and 100% recyclable.

Self coloured and UV stabilised for continued visibility and long lasting aesthetics with no repainting.

Zinc nickel, electrophoretic coating on base plates as standard, provides advanced protection against corrosion damage.

MEMAPLEX™

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



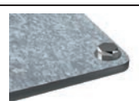
Revolutionary 3-Layered Material

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

ADDITIONAL BASE OPTIONS

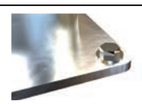
Countersunk Bolts

Creates a flat surface, preventing tyre damage where vehicles are in close proximity.



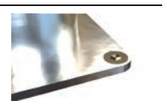
Galvanised Steel

Increased weather resistance for outdoor use and harsh climate environments.



Stainless Steel 316 Standard

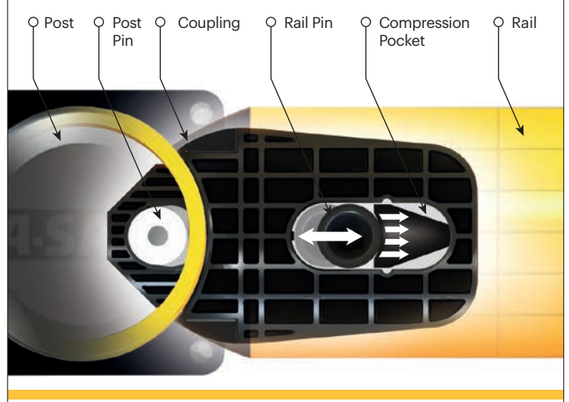
Ultimate performance option, no corrosion or rusting and resistant to powerful cleaning agents. Ideal for hygiene environments.



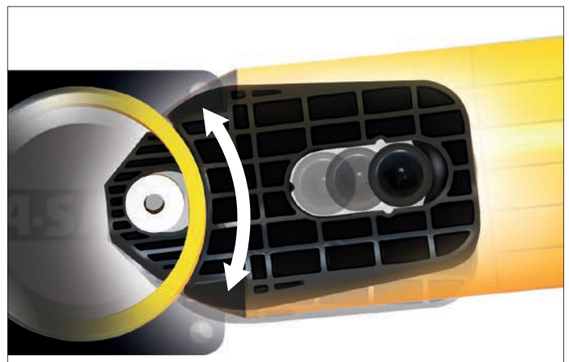
Stainless Steel 316 Countersunk

Energy Absorption System

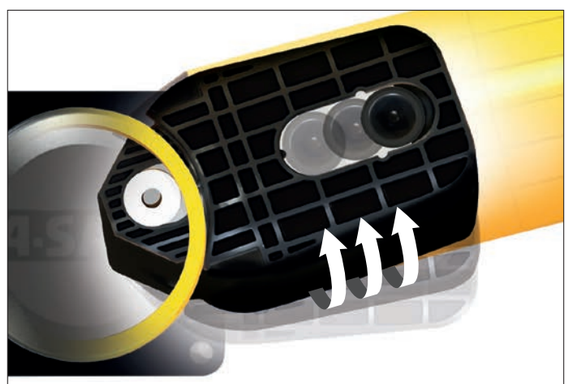
A patented 3-phase system that activates sequentially for unparalleled energy absorption



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.