

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

30,200 Joules

Equivalent vehicle and speed

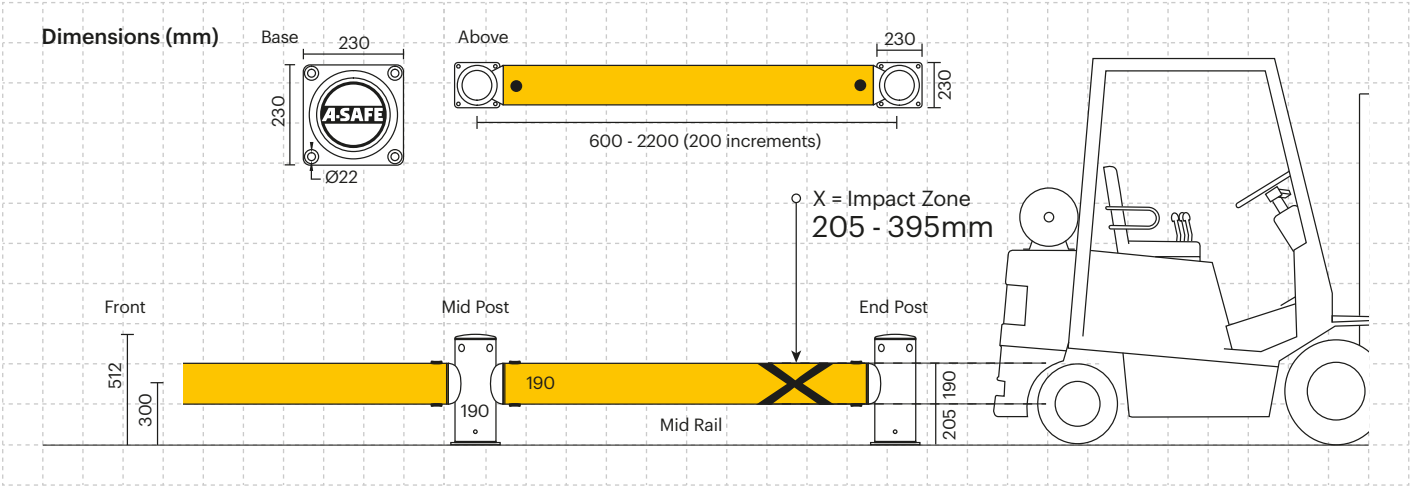
8.4 tonne X **6 mph impact**

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				
		<p>Force to Bolt 24kN</p>		

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.



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.

Ultimate 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.

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

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

Post, Post Pin, Coupling, Rail Pin, Compression Pocket, Rail

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.