



iFlex Anti-Climb Car Park Barrier

Designed to segregate and protect pedestrian walkways and vulnerable car park infrastructure from vehicle impacts.

This heavy-duty anti-climb barrier has been purpose engineered to provide the ultimate physical protection in car park environments. Ultra-low maintenance polymer barriers and posts flex and fully recover from multiple low-speed vehicle impacts, without causing damage to floors and surface substrates. A robust anti-climb mesh further reduces the risk of accidents by preventing pedestrians from climbing on barriers or taking dangerous shortcuts across active traffic routes.



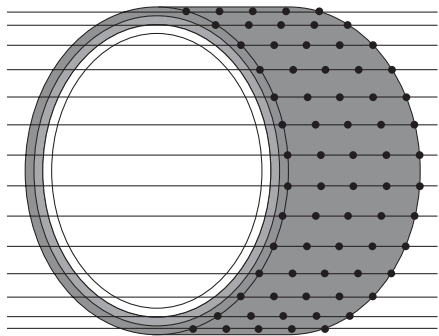
MEMAPLEX™

Ultimate strength polymer

created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled strength and flexibility.

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

Suitability

Vehicle



Car



Mini Van

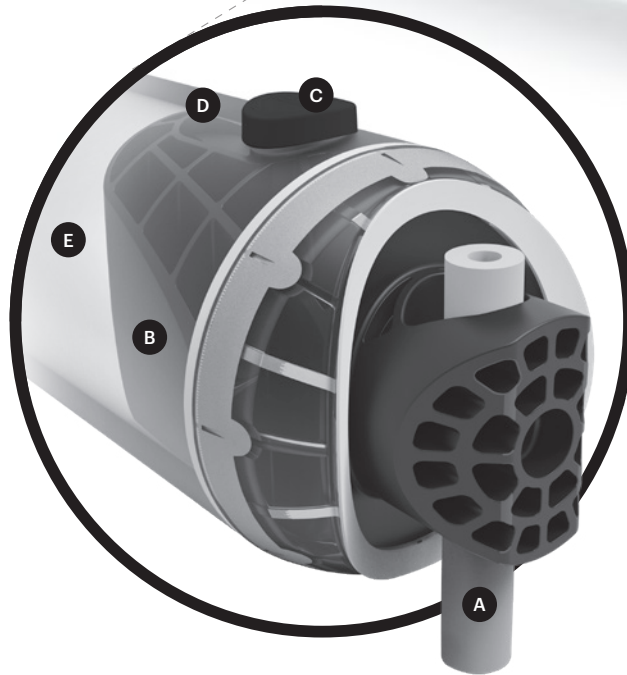
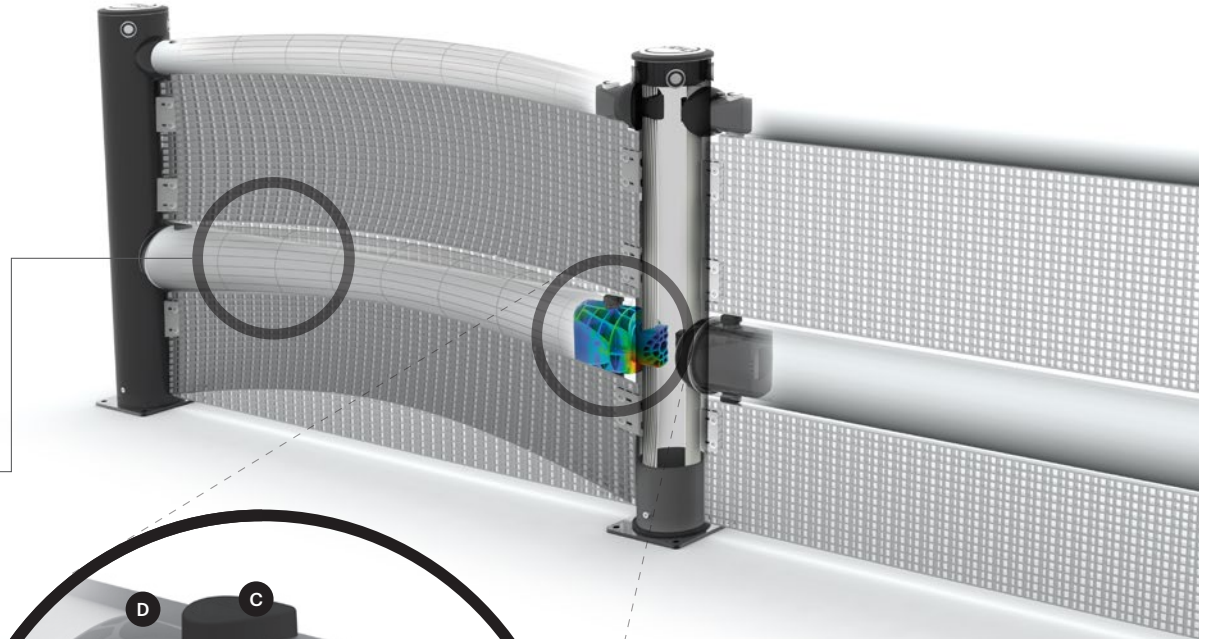


Small Van

Application



Protects parking structures



Energy Absorption System

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

- 1 Memaplex™ rail flexes to absorb impact, initiating the rail pin to slide forward and transfer load energy to the compression pocket.
- 2 Compression of the pocket continues to disperse energy as the coupling rotates around the post pin to activate further absorption.
- 3 At peak energy, the coupling twists further, engaging the post pin and instigating torsion of the post to dispel remaining forces.

A Post Pin

B Coupling

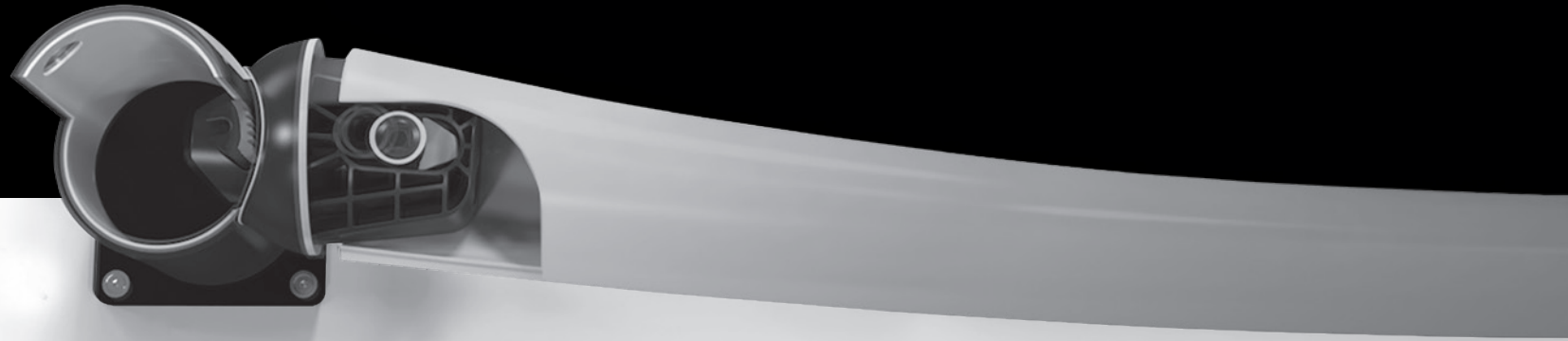
C Rail Pin

D Compression Pocket

E Rail



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.

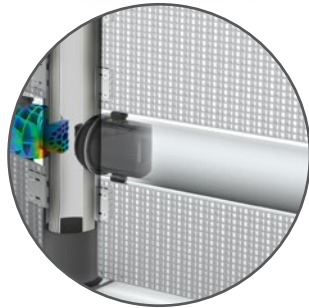


Huge return on investment from incident prevention and downtime avoidance as barriers, vehicles, floors and equipment do not need replacing or repair.

Features and benefits



Multi-directional system ensures a streamlined fit into any operation 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.



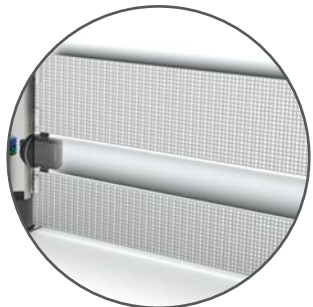
Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent barrier sections.



Seals reduce the risk of water ingress.



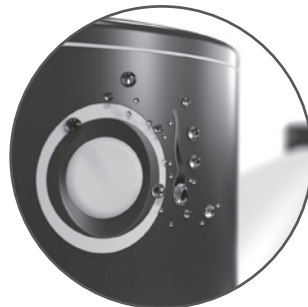
Zinc nickel, electrophoretic coating on base plates as standard, provides advanced protection against corrosion damage.



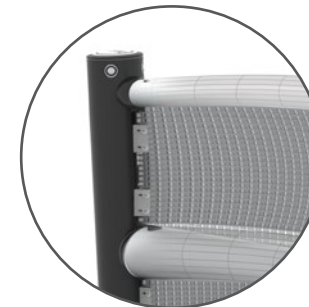
Robust anti-climb mesh between barrier rails prevents pedestrians from climbing over barriers and taking hazardous shortcuts.



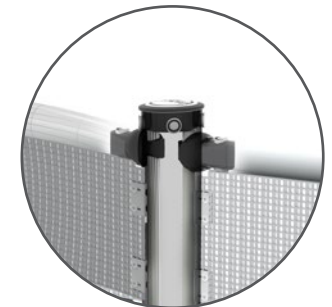
No floor damage 80% of impact force is absorbed, transferring just 20% to the floor.



Wipe-clean, water resistant surface.



Ergonomic design with no sharp edges.

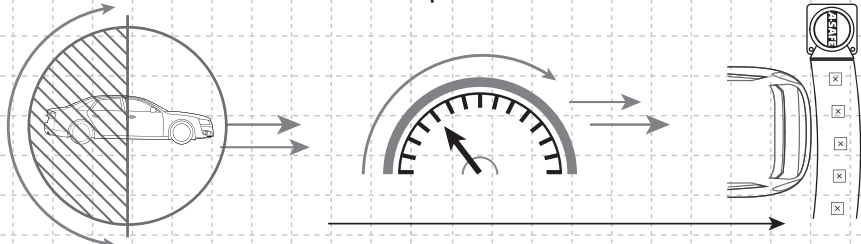


Environmentally friendly and 100% recyclable.



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

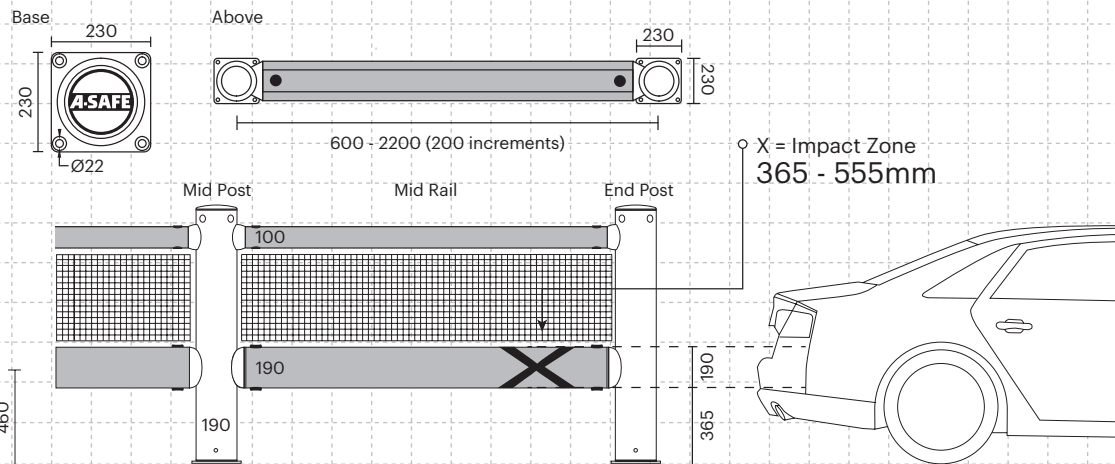
15,100 Joules

Equivalent vehicle and speed

 **X 10 mph impact**
3 tonne

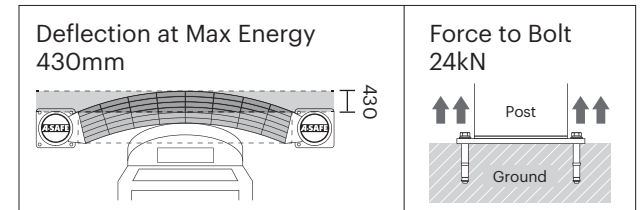
Mid Rail 90° Impact on 2000mm Post Centres

Dimensions (mm)



| 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 |

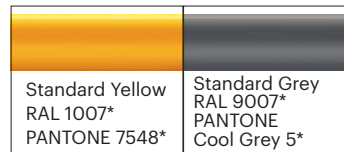


| Material Properties | MEMAPLEX™ |
|-------------------------------------|--------------------------|
| Temperature Range | -10°C to 50°C |
| Ignition Temperature | 370°C to 390°C |
| Flash Point | 350°C to 370°C |
| Toxicity | Not Hazardous |
| Chemical Resistance | Excellent - ISO/TR 10358 |
| Weathering Stability (Grey Scale) | 5/5* |
| Light Stability (Blue Wool Scale) | 7/8** |
| Static Rating (Surface Resistivity) | 1015 - 1016 Ω |

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.

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

