iFlex Anti-Climb Car Park Guardrail

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

This heavy-duty anti-climb guardrail 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.

Tested to the global benchmark in guardrail safety

bsi. PAS 13

Code of Practice for Workplace Safety Guardrails

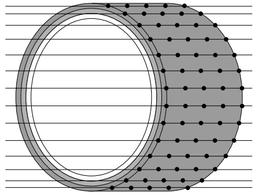
A-SAFE

PIONEERING WORKPLACE SAFETY

MEMAPLEX™

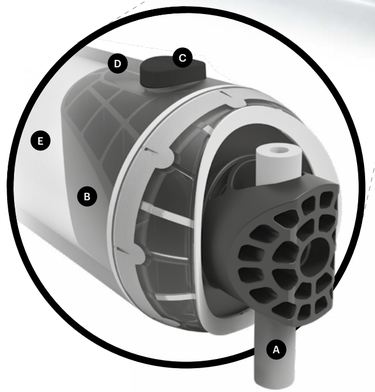
Ultimate strength polymer
created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled strength and flexibility.

Advanced Engineering Molecular
reorientation during manufacturing creates a unique built-in memory that enables the guardrail 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.

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

Suitability

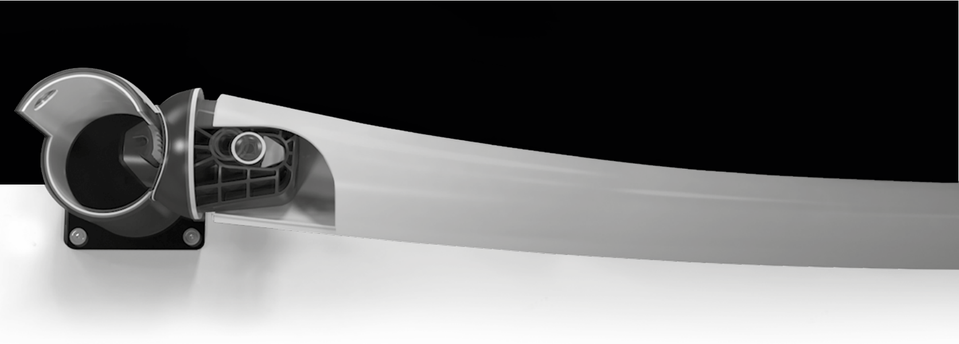
Vehicle

Car | Mini Van | Small Van

Application

Protects parking structures

Unrivalled recovery through a unique built-in memory that allows the barrier to flex, cushion and reform repeatedly upon impact, saving vast amounts in guardrail and vehicle repairs.



Huge return on investment from incident prevention and downtime avoidance as guardrails, 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.

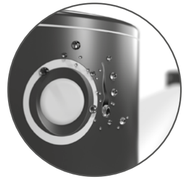
Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent barrier sections.

Hygiene seals remove ingress points.

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.



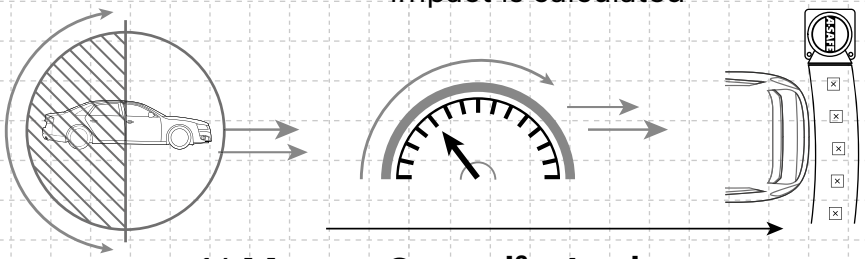
Food safe, wipe-clean, water resistant surface.

Ergonomic design with no sharp edges.

Environmentally friendly and 100% recyclable.

Technical Information

How the energy from a vehicle impact is calculated



½ Mass x Speed² =Joules

Tested Impact Energy

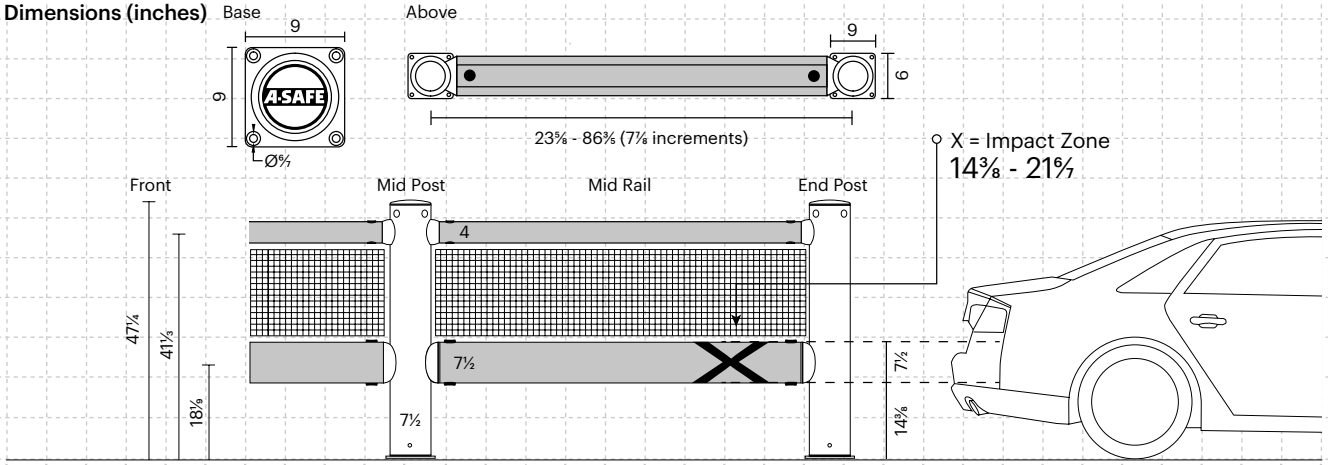
15,100 Joules

Equivalent vehicle and speed

3.3 Ton x **10 mph impact**

Mid Rail 90° Impact on 78¾ inch Post Centres

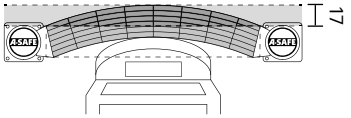
Dimensions (inches)



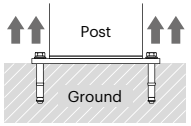
Impact Test	Impact Angle on 78¾ inch Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109

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

Deflection at Max Energy
17 inch



Force to Bolt
24kN



Material Properties	MEMAPLEX™
Temperature Range	14°F to 122°F
Ignition Temperature	698°F to 734°F
Flash Point	662°F to 698°F
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

Standard Black
RAL 9005*
PANTONE Black

Rail Options

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

Color Combinations

*Please note that the RAL and PANTONE colors listed are the closest match to standard A-SAFE colors, but may not be exact matches of the actual product color and should be used for guidance only.

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