



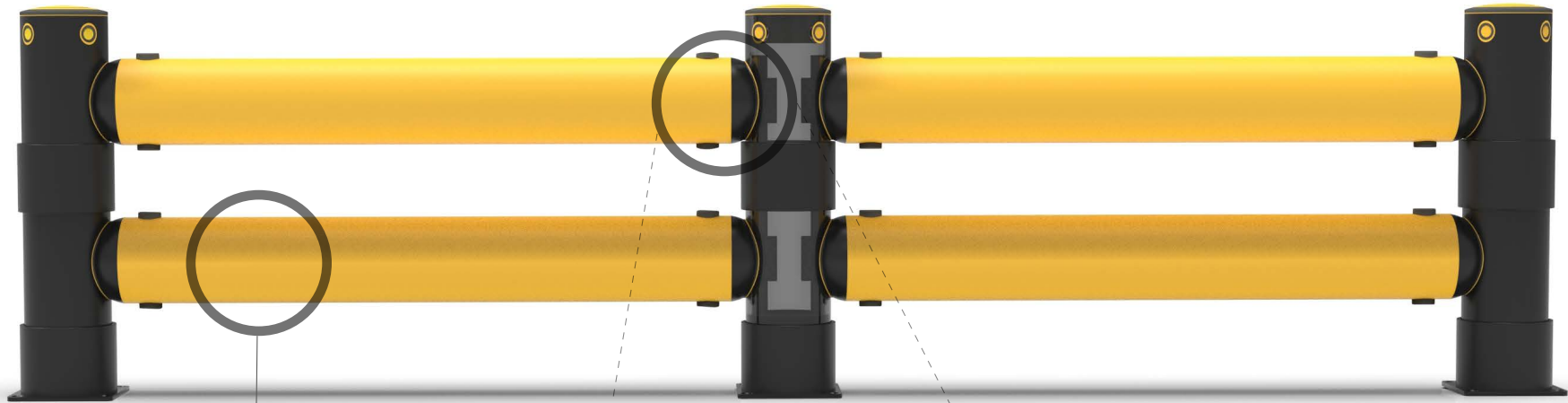
Atlas Double Traffic Guardrail

Developed specifically for airports with input from the British Airports Authority, Atlas Guardrails provide the ultimate in safety and protection for demanding conditions and large operations.

Designed to be highly resilient to the toughest of climates and with the strongest tolerance to impact damage, this very heavy-duty solution can withstand repeated impacts from some of the largest and heaviest workplace vehicles.

Typically used to protect baggage conveyors, flood light masts, pier and charging units, Atlas Guardrails are ideal for any heavy-duty environment requiring unrivalled safety.





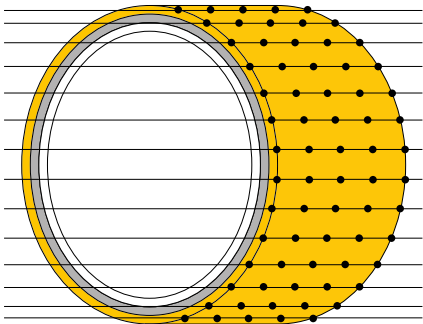
MEMAPLEX™

Ultimate strength polymer

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

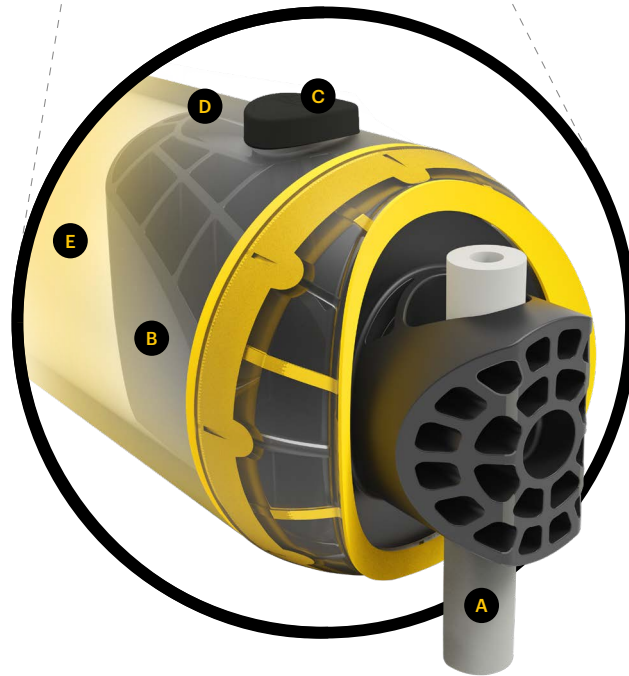
Advanced Engineering Molecular

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 color 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 | D Compression Pocket |
| B Coupling | E Rail |
| C Rail Pin | |

Vehicle



Charlotte Airport Baggage Truck



Linde Airport Baggage Truck



Push Back Tug



Unit Load Device



Electric Tow Tractor

Application



Protects structures

8T+

Suitable for heavier vehicles



Suitable for busy areas



Protects machinery



Suitable for airports



Unrivalled recovery through a unique built-in memory that allows the guardrail 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 guardrails, vehicles, floors and equipment do not need replacing or repair.



Multi-directional system ensures a streamlined fit into any operation and the removal of hard angles.



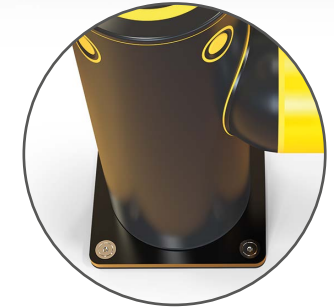
Ultra-low maintenance material is chemical and water resistant, non-corrosive, non-scratch and self coloured so no repainting, rusting, flaking or corrosion.



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



Seals reduce the risk of water ingress.



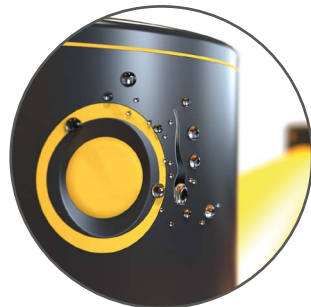
Zinc nickel, electrophoretic coating on base plates as standard, provides advanced protection against corrosion damage.



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



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.

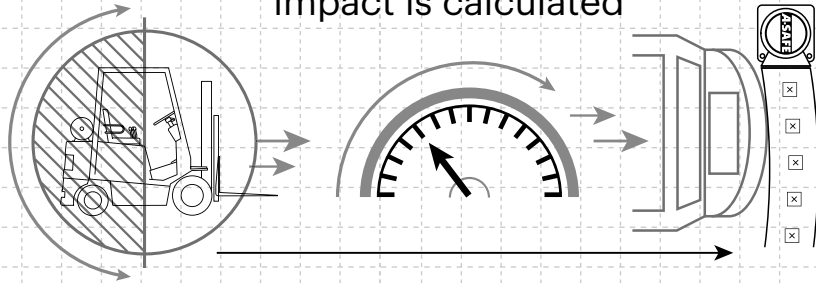


Environmentally friendly and 100% recyclable.



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

41,000 Joules

Equivalent vehicle and speed

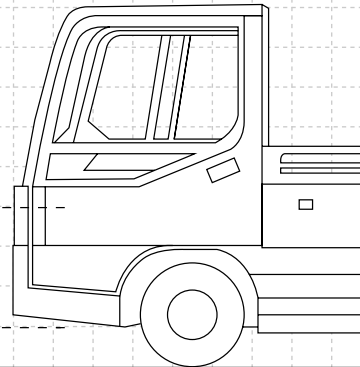
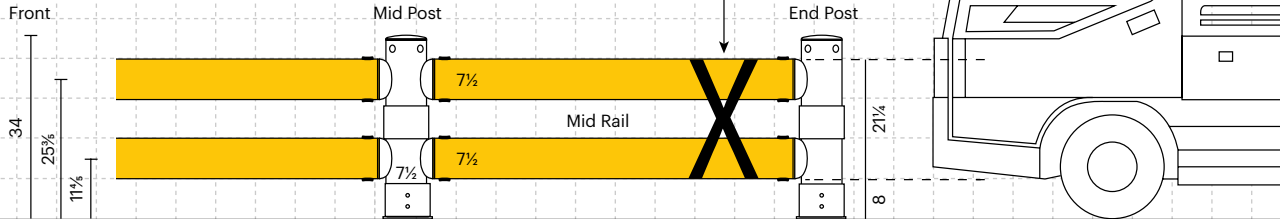
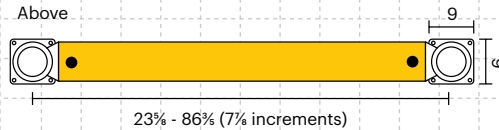
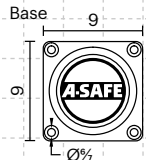


12.5 ton

X 6 mph impact

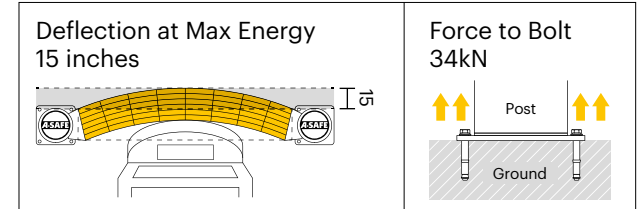
Mid Rail 45° Impact on 78¼ inch Post Centres

Dimensions (inches)



Impact Test	Impact Angle on 78¼ Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	20,500	24,017	41,000	139,983

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

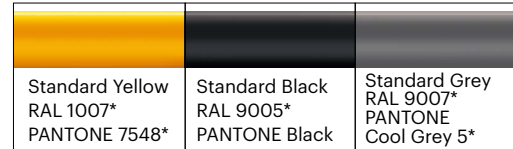


Material Properties	MEMAPLEX™
Temperature Range	14°F to 122°F
Ignition Temperature	698°F to 734°F
Flash Point	662°F to 698°F
Toxicity	Not Hazardous
Chemical Resistance	Excellent - ISO/TR 10358
Weathering Stability (Grey Scale)	5/5*
Light Stability (Blue Wool Scale)	7/8**
Static Rating (Surface Resistivity)	1015 - 1016 Ω

Post Options



Rail Options



Color Combinations

*Please note that the RAL and PANTONE colours 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.

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

