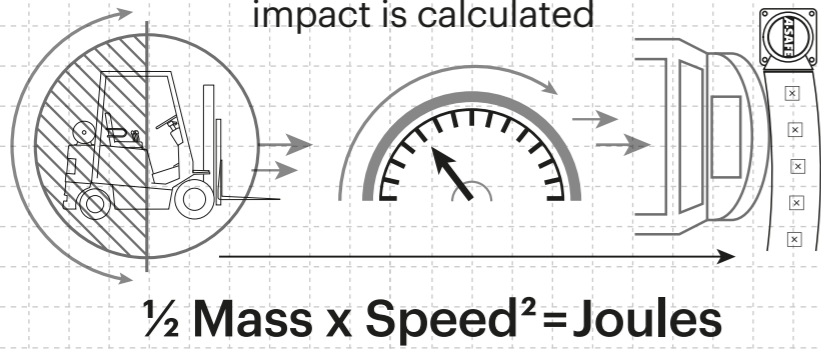


Technical Information

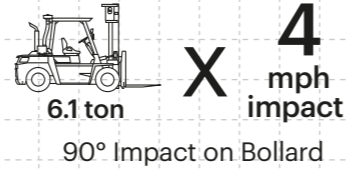
How the energy from a vehicle impact is calculated



Tested Impact Energy

8,800 Joules

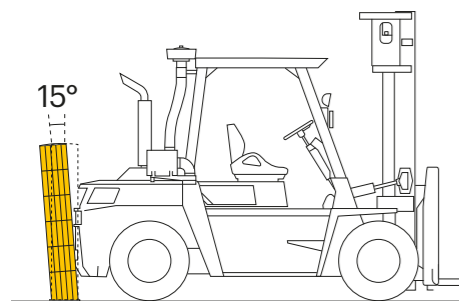
Equivalent vehicle and speed



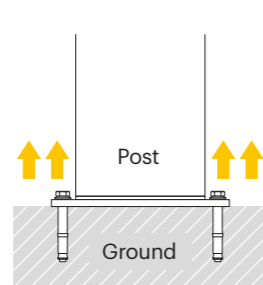
Impact Test

Max Energy (Joules) at 90° **8,800**

Deflection at Max Energy
15° Lean



Force to Bolt
35kN



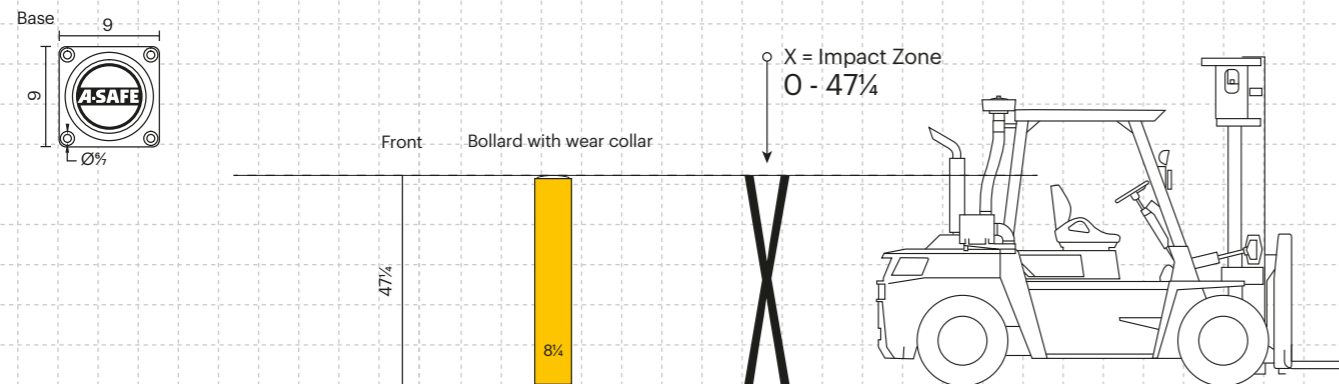
Material Properties

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	No

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

Dimensions (inches)



Bollard Options



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.



iFlex™

Heavy Duty Bollard

A-SAFE



Designed to protect against damage caused by heavier weight vehicles or in higher speed environments.

The iFlex Heavy Duty Bollard is designed to protect structures and equipment from impact damage. Providing a robust physical presence to prevent access and guide vehicles.

Strong, durable and highly visible, A-SAFE Heavy Duty Bollards permanently reinforce a driver's attention to safe driving and provide enhanced protection against significant damage to property.

Tested to the global benchmark in guardrail safety

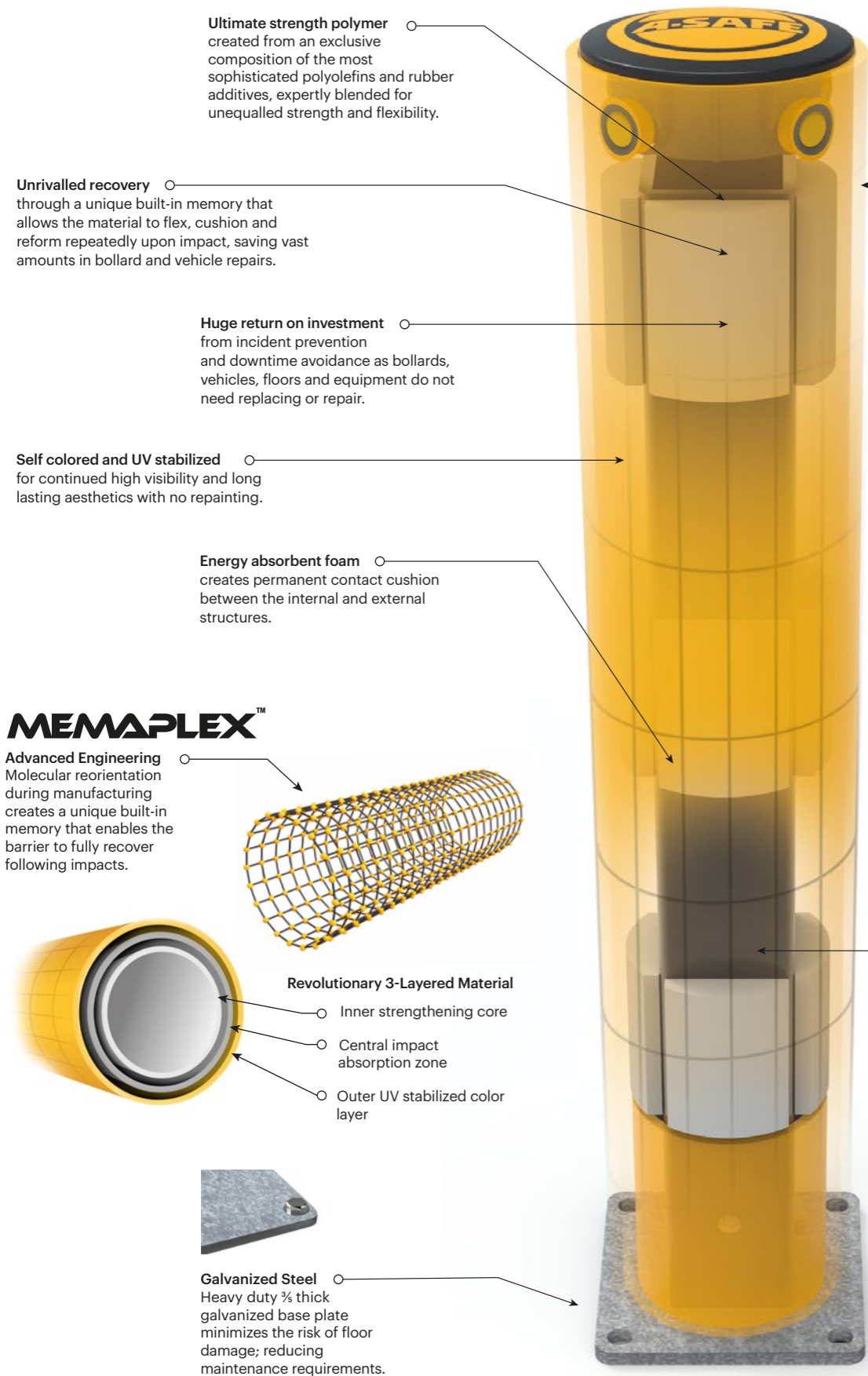
bsi. PAS 13

Code of Practice for Workplace Safety Guardrails



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.



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

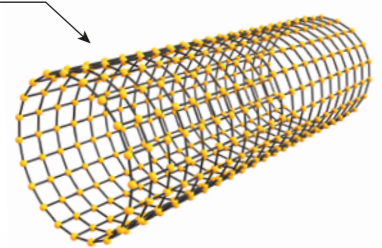
Huge return on investment from incident prevention and downtime avoidance as bollards, vehicles, floors and equipment do not need replacing or repair.

Self colored and UV stabilized for continued high visibility and long lasting aesthetics with no repainting.

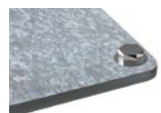
Energy absorbent foam creates permanent contact cushion between the internal and external structures.

MEMAPLEX™

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



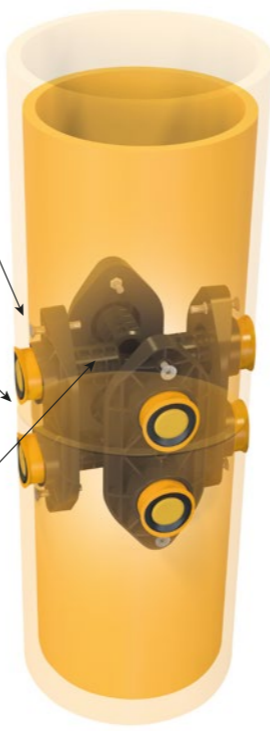
- Revolutionary 3-Layered Material**
- Inner strengthening core
 - Central impact absorption zone
 - Outer UV stabilized color layer



Galvanized Steel Heavy duty 3/8 thick galvanized base plate minimizes the risk of floor damage; reducing maintenance requirements.

In-line coupling for height flexibility

The iFlex in-line coupling introduces a new level of modularity to the vertical height of a range of A-SAFE products. The coupling enables customers to take the standard 1200mm bollard up to 2000mm.



Four pin positioning to top and bottom sections gives increased rigidity and stability.

Seamless joint enables easy stacking of top and bottom bollard sections.

Molded pins lock securely into the internal layer with a quarter turn.

Rotating wear collar for advanced deflection

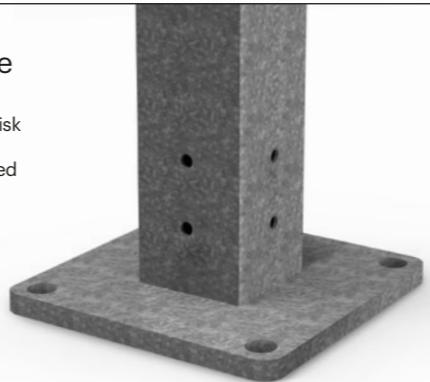
The wear collar adds an extra layer of protection along the full height of the bollard.

The rotating action deflects force from repeat glancing blows. Preventing expensive on-going maintenance costs.



High impact core

Heavy duty or high speed vehicles present greater risk of impact damage. The extended height galvanized core provides enhanced impact protection.



Higher level bollards give a strong visual alert for reversing HGV drivers, preventing costly damage to service yard infrastructure.



Ideal for use on vehicle routes with sharp angle turns such as car parks.



Protect vulnerable access points where heavy duty vehicles are in operation.