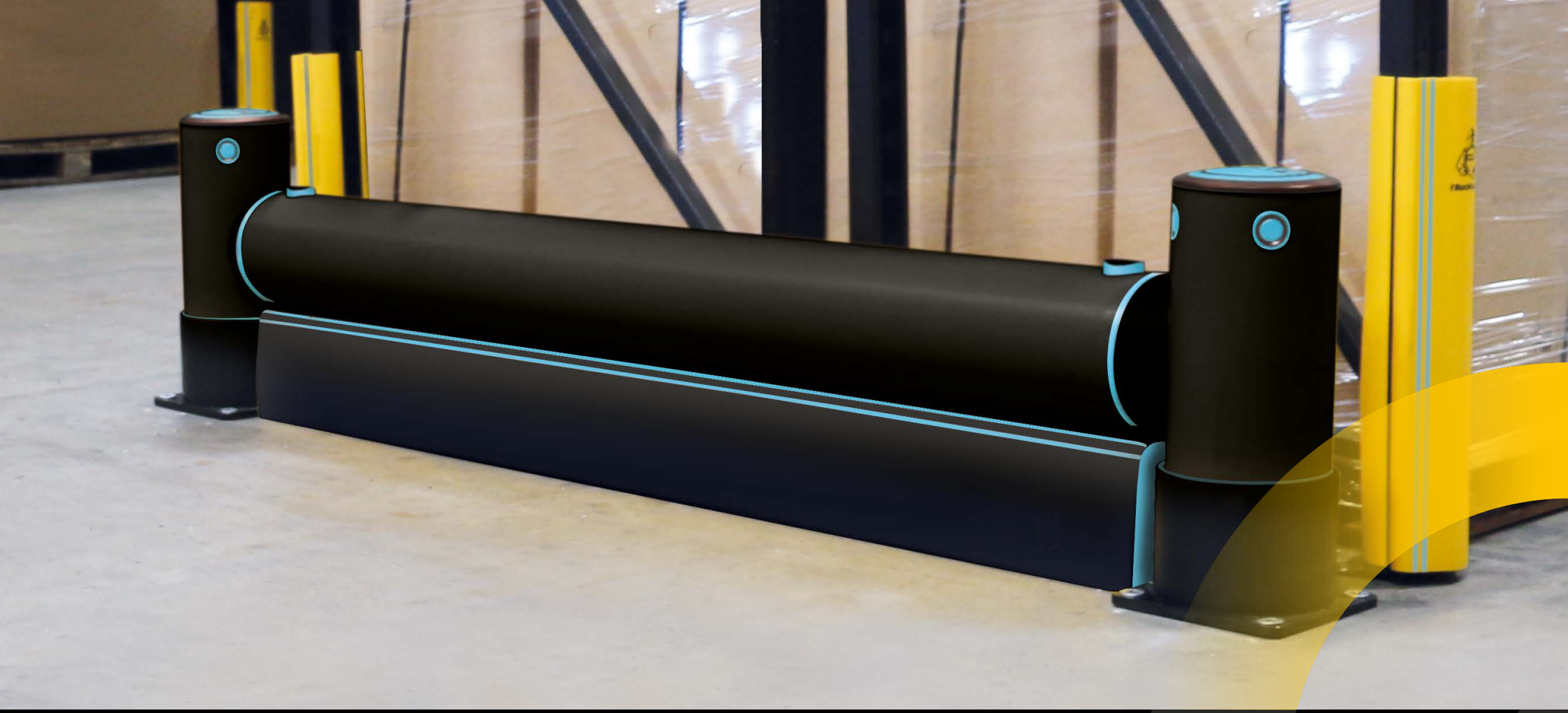


iFlex Single Traffic Barrier Cold Storage

A-SAFE iFlex Cold Storage Single Traffic Barrier is designed to protect buildings and infrastructure from impacts with forklifts and other vehicles. This high-strength barrier has been purpose-engineered for applications within sub-zero environments such as cold storage facilities. It delivers supreme performance in temperatures as low as -30°C.

Manufactured from Memaplex™ Sub-Zero, a unique blend of polymers designed to withstand multiple impacts without cracking or fragmenting, iFlex Cold Storage Single Traffic Barrier provides both guidance and physical protection against vehicle impacts. Ideal for busy sub-zero environments where vehicles are in operation.

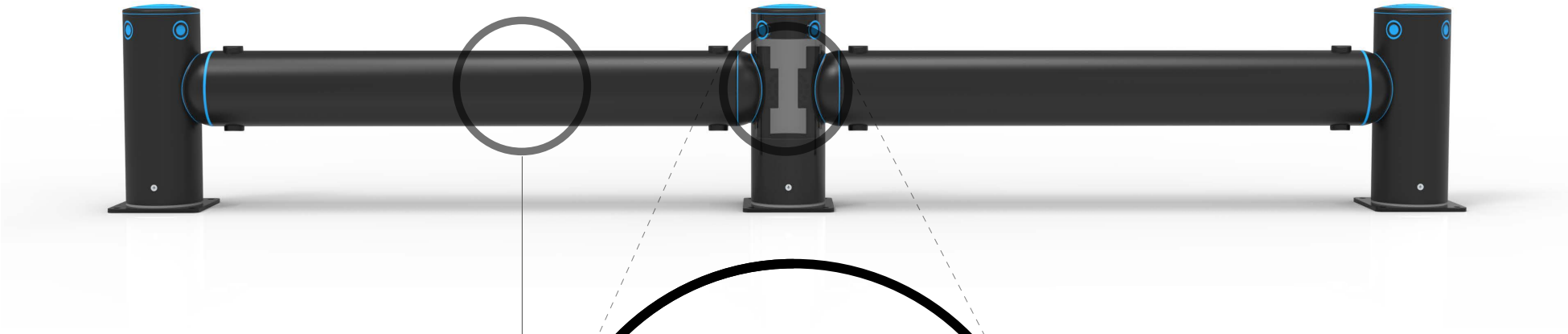
Tested to the global benchmark in barrier safety

bsi. PAS 13

Code of Practice for Workplace Safety Barriers

A-SAFE

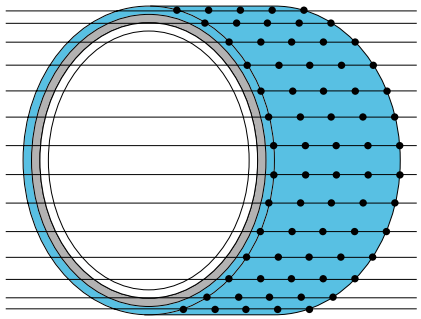
PIONEERING WORKPLACE SAFETY



MEMAPLEX™

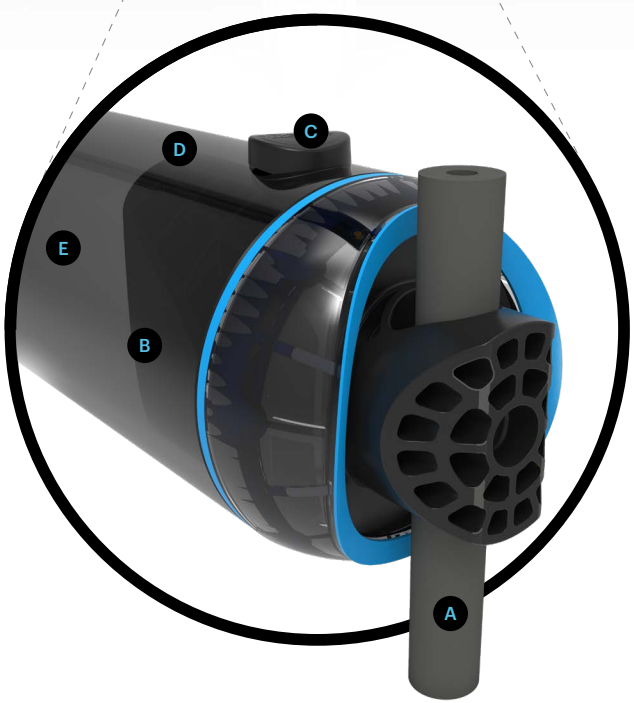
Ultimate strength polymer
created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled strength and flexibility.

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

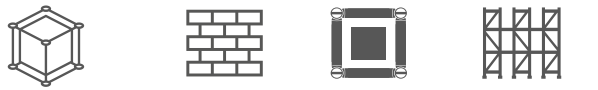
- **A** Post Pin
- **B** Coupling
- **C** Rail Pin
- **D** Compression Pocket
- **E** Rail

Suitability

Vehicle

Lightweight counterbalance FLT | Electric high reach truck | Electric Pedestrian Truck | Manual Pallet Truck | Electric Pedestrian Stacker

Application



Building and equipment protection | Corridor and wall protection | Column protection | Racking and Storage Protection

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.

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

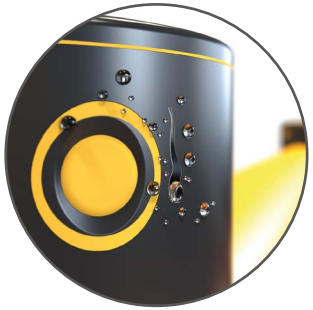
Exclusive modularity allows rails and posts to be replaced in-situ without removing adjacent barrier sections.

Seals reduce the risk of water ingress.

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

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.



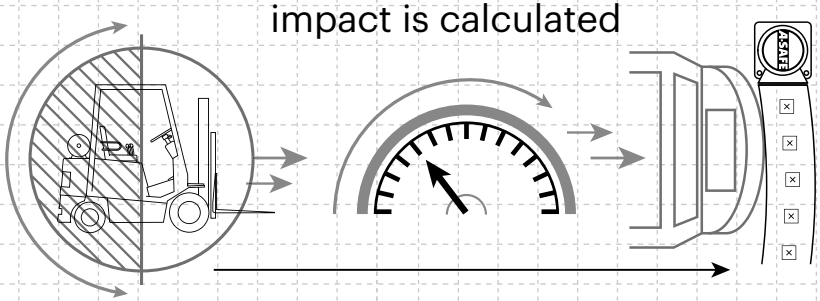
Wipe-clean, water resistant surface.

Ergonomic design with no sharp edges.

Environmentally friendly and 100% recyclable.

Technical Information

How the energy from a vehicle impact is calculated



½ Mass x Speed² =Joules

Tested Impact Energy

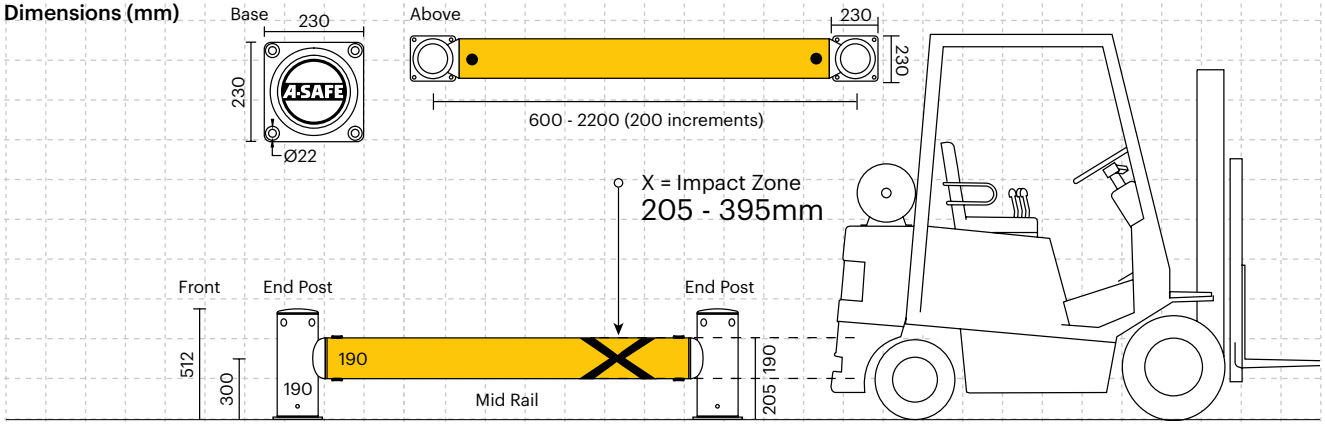
30,200 Joules

Equivalent vehicle and speed

8.4 tonne x **9,6 km/h impact**

Mid Rail 45° Impact on 2000mm Post Centres

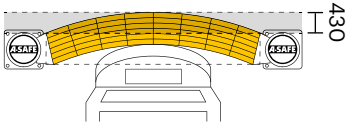
Dimensions (mm)



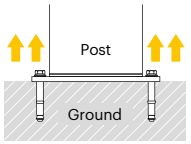
Impact Test	Impact Angle on 2000mm Post Centres			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109

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

Deflection at Max Energy
430mm



Force to Bolt
24kN



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)	10^{15} - 10^{16} Ω/sq

* 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

Standard Yellow
RAL 1007*
PANTONE 7548*

Rail Options

Standard Yellow RAL 1007* PANTONE 7548*	Standard Black RAL 9005* PANTONE Black	Standard Grey RAL 9007* PANTONE Cool Grey 5*

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.

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