



iFlex Bollard Cold Storage

A-SAFE iFlex Cold Storage Bollards provide both guidance and robust impact protection within sub-zero environments such as cold storage facilities. Ideal for multiple applications, including infrastructure protection, traffic management and pedestrian segregation, they are purpose-engineered to deliver supreme performance in temperatures as low as -30°C .

iFlex Cold Storage Bollards are manufactured from Memaplex™ Sub-Zero, a unique three-layer blend of polymers designed to withstand multiple impacts without cracking or fragmenting.

Strong, durable and highly visible, A-SAFE bollards provide supreme protection for pedestrians, cold storage facility infrastructure and equipment, while also providing highly visible guidance along pedestrian and vehicle traffic routes.

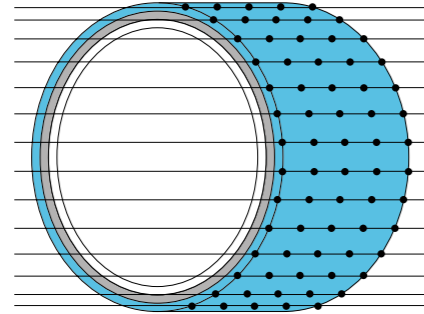




MEMAPLEX™

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 bollard to fully recover following impacts.



Revolutionary 3-Layered Material

- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilised colour layer



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 join**
enables easy stacking of top and bottom bollard sections.
- **Moulded pins**
lock securely into the internal layer with a quarter turn.

Suitability

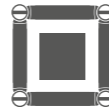
Application



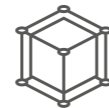
Suitable for pedestrians



Car Park protection



Column protection



Building and equipment protection



Industrial door protection



Cold Storage Protection

Vehicle



Heavy Duty Counterbalance FLT



Engine Counterbalance Heavy Duty Forklift Truck



Electric Pedestrian Truck



Horizontal Order Picker



Car

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

Features and benefits



Highly versatile, A-SAFE Cold Storage Bollards can be installed to protect vulnerable insulated roller doors and other essential cold storage infrastructure.



The rotating 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.



A-SAFE cold storage products are dynamically impact-tested to PAS 13 standards under realistic climate conditions to ensure they perform perfectly everytime.



A-SAFE Cold Storage Bollards are part of a suite of products specifically designed to protect personnel, infrastructure, goods and equipment from impacts with forklifts and other cold storage warehouse equipment.



Self-coloured and ultra-low maintenance for continued high visibility and long lasting aesthetics with no repainting.

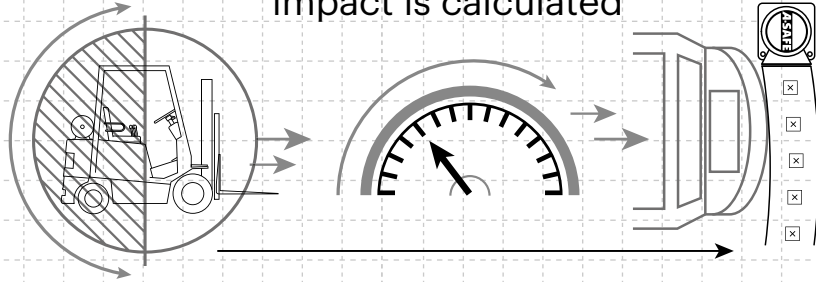


Energy absorbent foam creates permanent contact cushion between the internal and external structures.



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

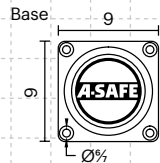
5,800 Joules

Equivalent vehicle and speed

4.7 Ton **X** 4 mph impact

90° Impact on Bollard

Dimensions (mm)



Front

X = Impact Zone
0 - 47¼

47¼

32¾

7½

7½

Post Options



Standard Black
RAL 9005*
PANTONE Black

Colour Combinations

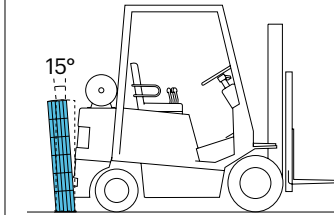
*Please note that the RAL and PANTONE colours listed are the closest match to standard A-SAFE colours, but may not be exact matches of the actual product colour and should be used for guidance only.

Impact Test

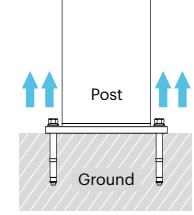
Max Energy (Joules) at 90°

5,800

Deflection at Max Energy
15° Lean



Force to Bolt
33kN



Material Properties

MEMAPLEX™

Temperature Range	-22°F to 32°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

A-SAFE Inc

400 North Zarfoss Drive York, PA 17404

Tel: (443) 776 3472 Email: sales@asafe.us www.asafe.com

