



## 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.



**A-SAFE**  
PIONEERING WORKPLACE SAFETY



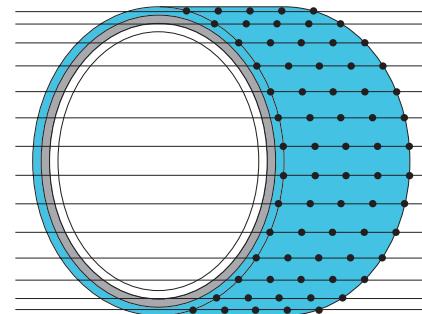
## MEMAPLEX™

### 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 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.



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



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



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 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.

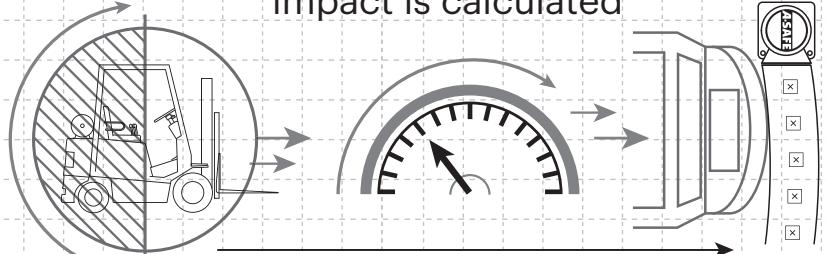


Energy absorbent foam creates permanent contact cushion between the internal and external structures.



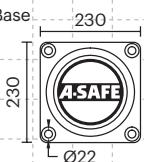
# Technical Information

How the energy from a vehicle impact is calculated



$$\frac{1}{2} \text{ Mass} \times \text{Speed}^2 = \text{Joules}$$

Dimensions (mm)



Front

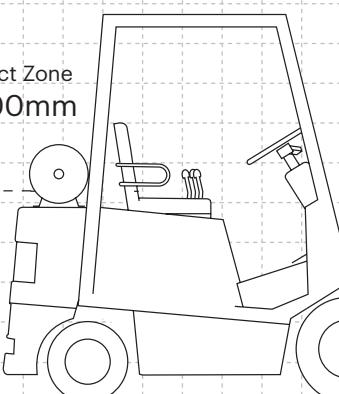
1200

805

190

190

X = Impact Zone  
0 - 1200mm



## Post Options



## 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.

## Tested Impact Energy

**5,800 Joules**

Equivalent vehicle and speed

4.3 tonne X 6,4 km/h impact

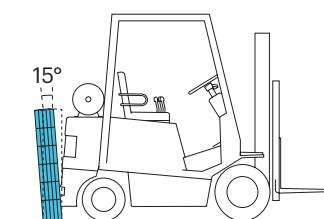
90° Impact on Bollard

## Impact Test

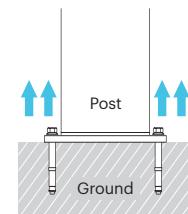
**Max Energy (Joules) at 90°**

**5,800**

Deflection at Max Energy  
15° Lean



Force to Bolt  
33kN



## Material Properties

## MEMAPLEX™

Temperature Range	-30°C to 0°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)	1015 - 1016 Ω

\* Weathering scale 1 is very poor and 5 is excellent

\*\* Light stability scale 1 is very poor and 8 is excellent

