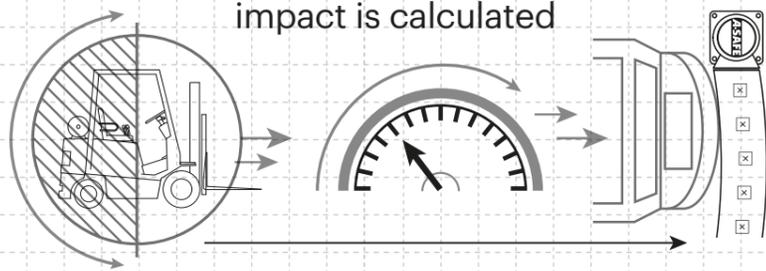


Technical Information

How the energy from a vehicle impact is calculated

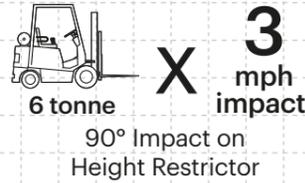


$$\frac{1}{2} \text{ Mass} \times \text{Speed}^2 = \text{Joules}$$

Tested Impact Energy

5,400 Joules

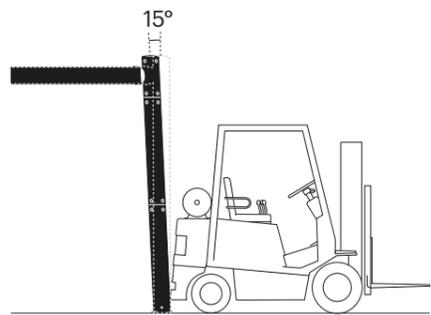
Equivalent vehicle and speed



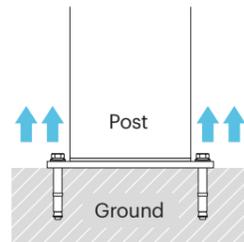
Impact Test

Max Energy (Joules) at 90° **5,400**

Deflection at Max Energy
15° Lean



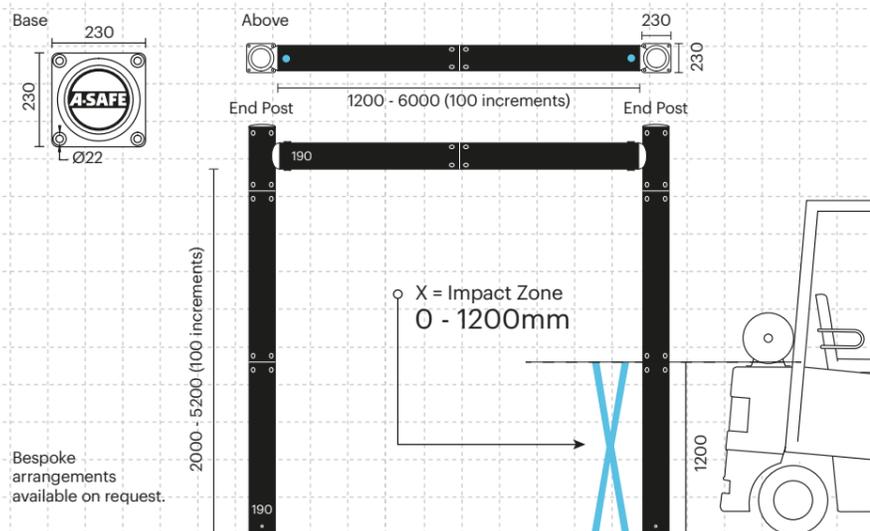
Force to Bolt
24kN



Material Properties	MEMAPLEX TM SUB-ZERO
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
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 (mm)



Colour



*Please note that the RAL and PANTONE colour 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.



iFlexTM

Cold Storage Height Restrictor



A-SAFE iFlex Cold Storage Height Restrictors are designed to protect the edges of doorways and prevent high-level vehicle impact damage within sub-zero environments such as cold storage facilities. They are purpose engineered to deliver supreme performance in temperatures as low as -30°C.

Manufactured from MemaplexTM Sub-Zero, a unique blend of polymers designed to withstand multiple impacts without cracking or fragmenting, Cold Storage Height Restrictors provide both guidance and physical protection. They stop vehicles and loads from making contact with doorway edges and roller shutter door channels.

Where there is a high risk of collision with overhead walkways, cable trays or ductwork, Cold Storage Height Restrictors will prevent disruptive and expensive damage. They will also serve as a visual warning to drivers if their vehicle or load is too high.



Engineered for performance

A-SAFE Cold Storage products are state of the art and have been precision engineered to deliver the highest levels of performance in extreme sub-zero environments. Designed, developed, tested and manufactured in-house at our cutting-edge facility, every component is purpose-built to function flawlessly and deliver the ultimate in durability.

Energy Absorption System
Patented system connects posts and rail, absorbing impact forces in 3 phases to diffuse energy and prevent damage.

Unique sub-zero material science
specially developed to perform in very cold conditions, Memaplex™ Sub-Zero is an exclusive composition of the most sophisticated polyolefins and rubber additives, blended for unequalled strength and flexibility.

Unrivalled resilience
through a unique built-in memory that allows material to flex, cushion and reform repeatedly after impacts, saving vast amounts in repairs.

Huge return on investment
from incident prevention and downtime avoidance as height restrictor, infrastructure and overhead equipment does not need replacing or repair.

Modular & versatile
in-line coupling, ensure a tailored fit to meet specific customer size requirements.

No floor damage
80% of impact force is absorbed, transferring just 20% to the floor.

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

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
for enduring high visibility and long-lasting aesthetics with no need for repainting.

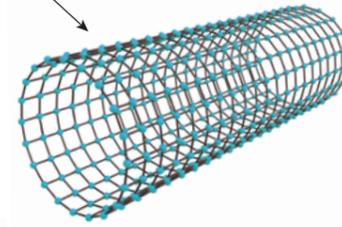
Ease of installation
with modular, interlocking sections.

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

bsi. PAS13
Code of Practice for Workplace Safety Barriers

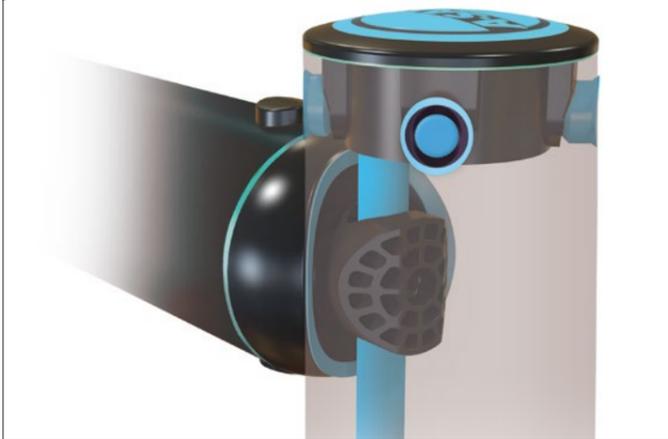
MEMAPLEX™ SUB-ZERO

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



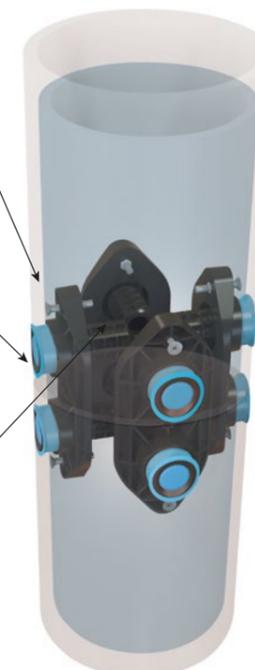
In-line coupling for a complete modular solution

The iFlex in-line coupling introduces a new level of modularity to the A-SAFE product range. The 500mm vertical coupling enables the product to be built up in 100mm increments from 2000mm to 5200mm. The 1000mm horizontal coupling offers widths from 1200mm to 6000mm also in 100mm increments.

Four pin positioning
to adjacent sections gives increased rigidity and stability.

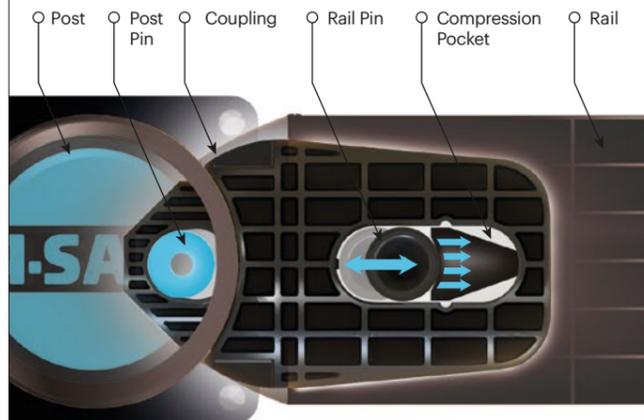
Seamless join
on external edges gives a continuous flush finish along the length.

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

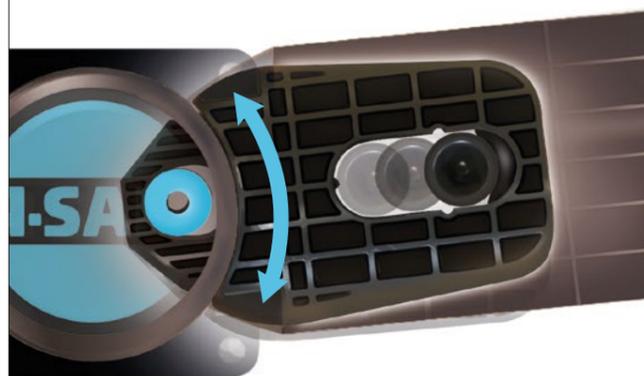


Energy Absorption System

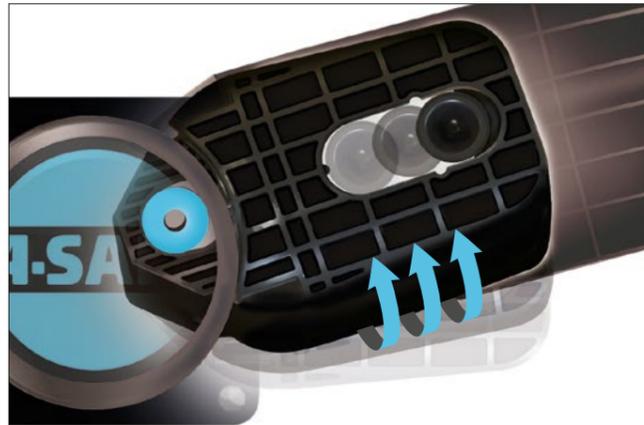
A patented 3-phase system that activates sequentially for unparalleled energy absorption



PHASE 1: Memaplex™ rail flexes to absorb impact, initiating the rail pin to slide forward and transfer load energy to the compression pocket.



PHASE 2: Compression of the pocket continues to disperse energy as the coupling rotates around the post pin to activate further absorption.



PHASE 3: At peak energy, the coupling twists further, engaging the post pin and instigating torsion of the post to disperse remaining forces.