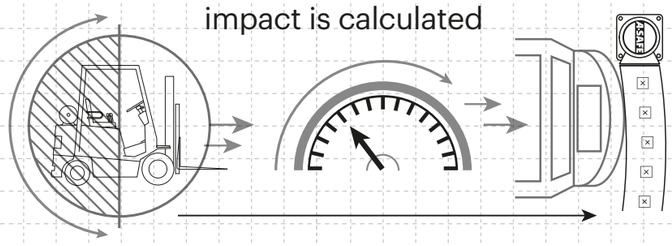
Technical Information

How the energy from a vehicle impact is calculated



½ Mass x Speed² = Joules

Tested Impact Energy

11,600 Joules

Equivalent vehicle and speed

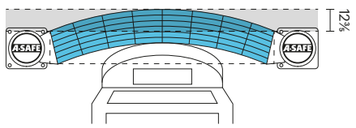
5.1 ton X 5 mph impact

Mid Rail 45° Impact on 59 inch Post Centers

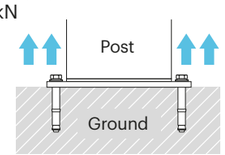
Impact Test	Impact Angle on 59 inch Post Centers			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	5,800	6,795	11,600	39,605

End Post Max Energy (Joules) - 90°	3,700
Mid Post Max Energy (Joules) - 90°	2,700

Deflection at Max Energy
12⅜ inches



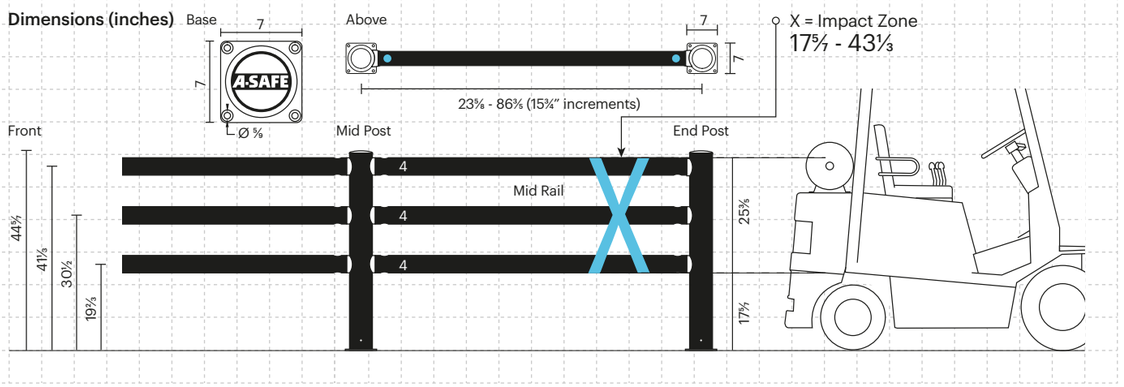
Force to Bolt
9kN



Material Properties	
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	Yes

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

Dimensions (inches)



Post

Standard Black
RAL 9005*
PANTONE Black

Rail

Standard Black
RAL 9005*
PANTONE Black

Color Combination

*Please note that the RAL and PANTONE color 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.

A-SAFE Inc
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iFlex™

Cold Storage Pedestrian Guardrail 3 Rail

A-SAFE iFlex Cold Storage Pedestrian Guardrail 3 Rail is designed to segregate pedestrians from active forklift trucks and other workplace hazards. This ergonomic 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 -22°F.

Manufactured from Memaplex™ Sub-Zero, a unique blend of polymers designed to withstand multiple impacts without cracking or fragmenting, iFlex Cold Storage Pedestrian Guardrail 3 Rail provides visual guidance by defining walkways, while also segregating pedestrians from traffic such as forklift trucks.

Ideal for busy sub-zero environments where vehicles are in operation and there is a risk of collision.

Tested to the global benchmark in guardrail safety
bsi. PAS 13
Code of Practice for Workplace Safety Guardrails

ROBUST & EFFECTIVE TO -22°F

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.

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 barriers, vehicles, floors and equipment do not need replacing or repair.

Multi-directional system ensures a streamlined fit into any facility and the removal of hard angles.

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

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

Energy Absorption System

Patented system dissipates impact forces through the barrier and away from floors and fixings, preventing costly damage.

Hygiene seals remove ingress points.

Ergonomic design with no sharp edges.

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

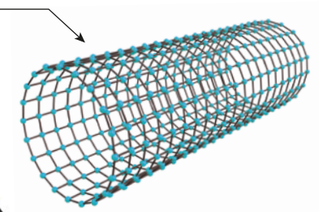
Environmentally friendly and 100% recyclable.

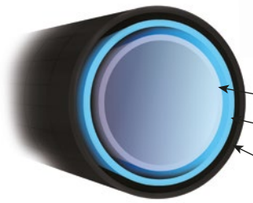
Self colored for enduring high visibility and long-lasting aesthetics with no need for repainting.

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

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 stabilized color layer

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