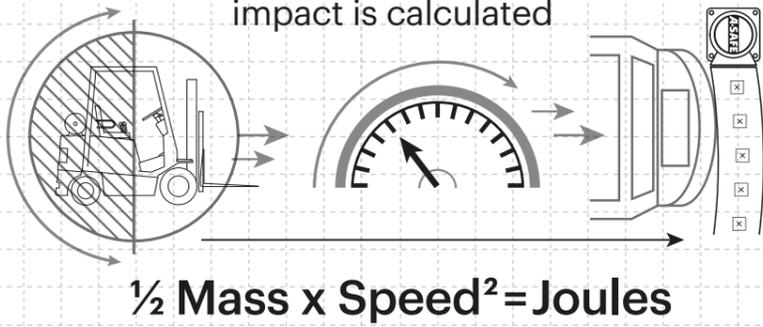


Technical Information

How the energy from a vehicle impact is calculated



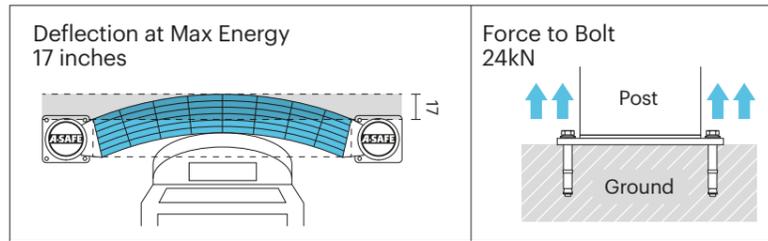
Tested Impact Energy
30,200 Joules
 Equivalent vehicle and speed

9.2 ton X **6 mph impact**

Mid Rail 45° Impact on 78¼ Post Centers

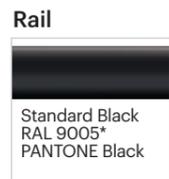
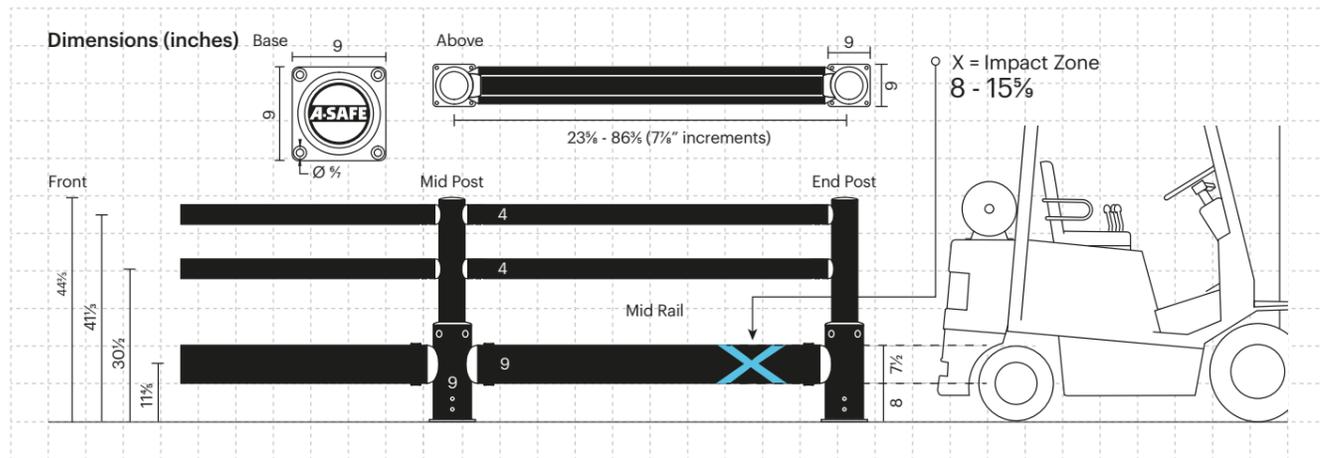
Impact Test	Impact Angle on 78¼ inch Post Centers			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	15,100	17,691	30,200	103,109

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



Material Properties	MEMAPLEX TM SUB-ZERO
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



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.



iFlexTM

Cold Storage Single Traffic Guardrail+



A-SAFE iFlex Cold Storage Single Traffic Guardrail+ is designed to protect people, buildings and infrastructure from impacts with forklifts and other vehicles. This high-strength dual-function 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°C.

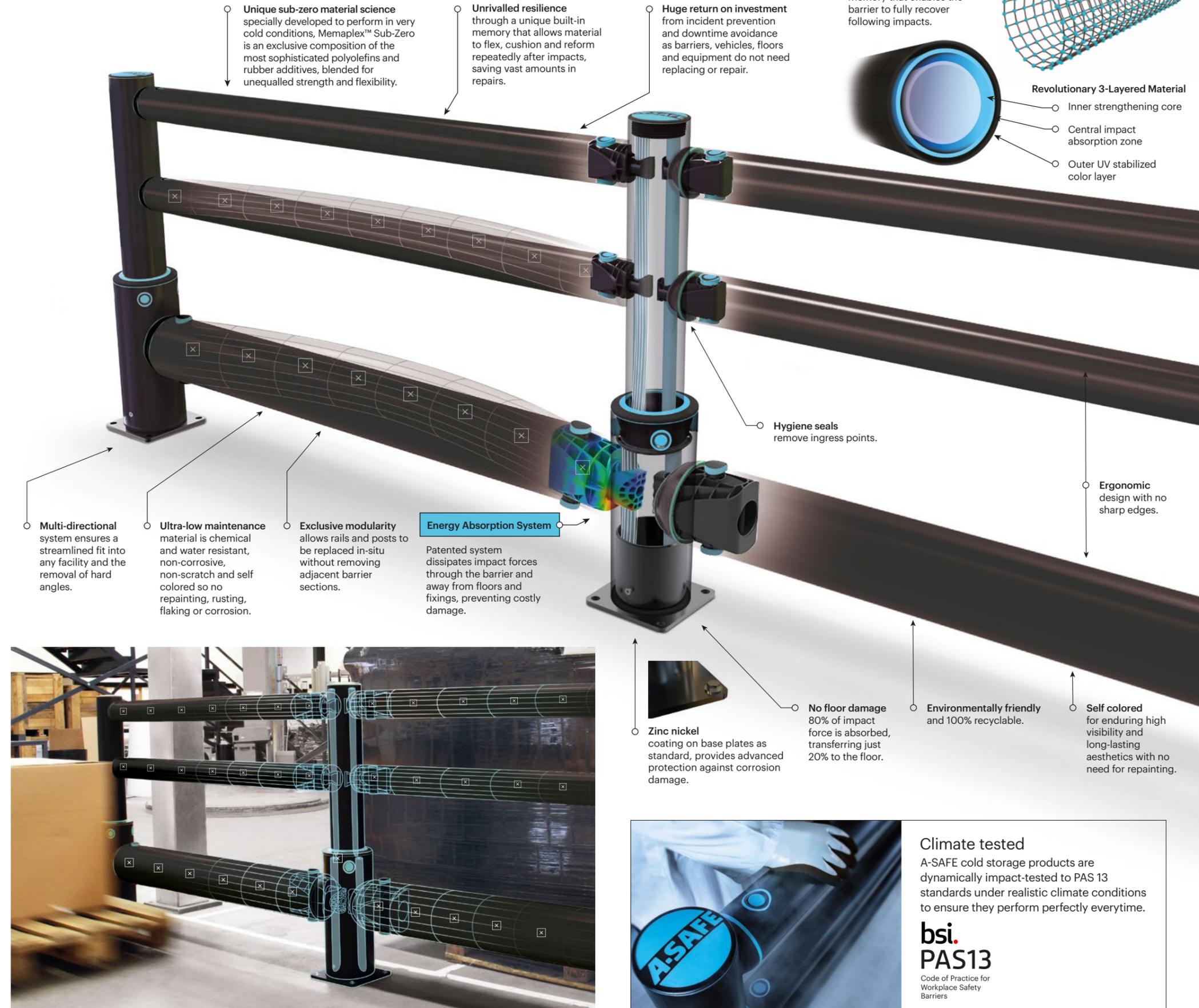
Manufactured from MemaplexTM Sub-Zero, a unique blend of polymers designed to withstand multiple impacts without cracking or fragmenting, iFlex Cold Storage Single Traffic Guardrail+ provides both guidance and physical protection. A heavy-duty traffic rail provides robust resistance against vehicle impacts, while an ergonomic handrail increases the height of the guardrail to segregate pedestrian walkways and prevent falls.

Ideal for busy sub-zero environments where people and vehicles share space.



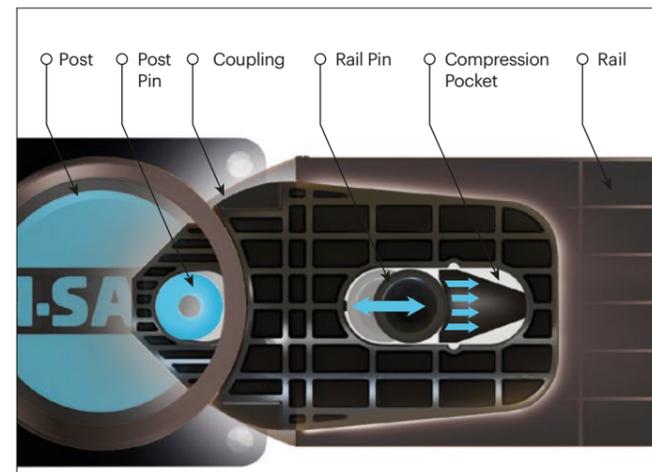
Engineered for performance

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.

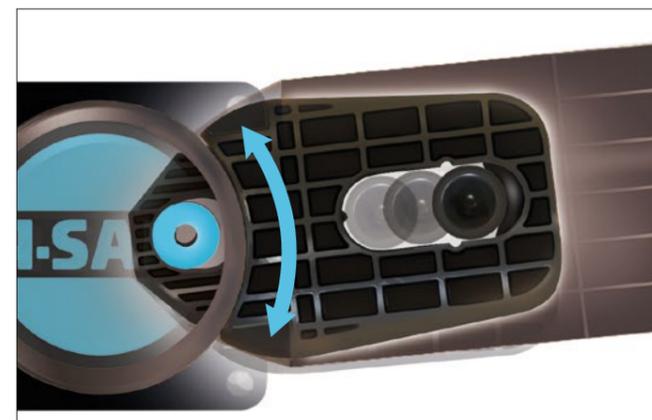


Energy Absorption System

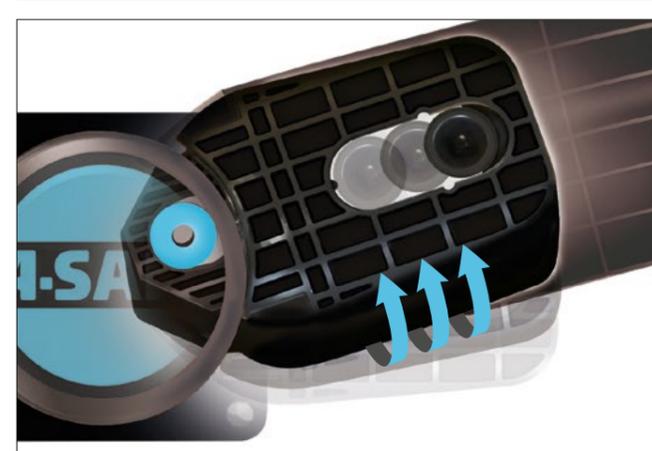
A patented 3-phase system that activates sequentially for unparalleled energy absorption



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 dispel remaining forces.

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