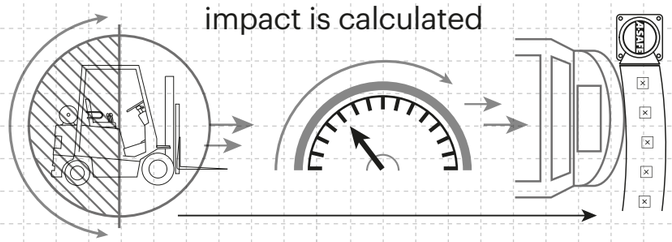
Technical Information

How the energy from a vehicle impact is calculated



½ Mass x Speed² = Joules

Tested Impact Energy

20,400 Joules

Equivalent vehicle and speed

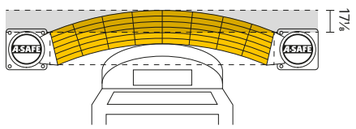
6.2 ton X **6 mph impact**

Mid Rail 45° Impact on 78¾ inch Post Centers

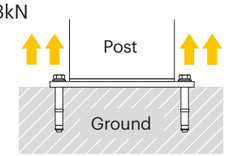
Impact Test	Impact Angle on 78¾ inch Post Centers			
	90°	67.5°	45°	22.5°
Mid Rail Max Energy (Joules)	10,200	11,950	20,400	69,650

End Post Max Energy (Joules) - 90°	3,600
Mid Post Max Energy (Joules) - 90°	3,600

Deflection at Max Energy
17⅛ inches



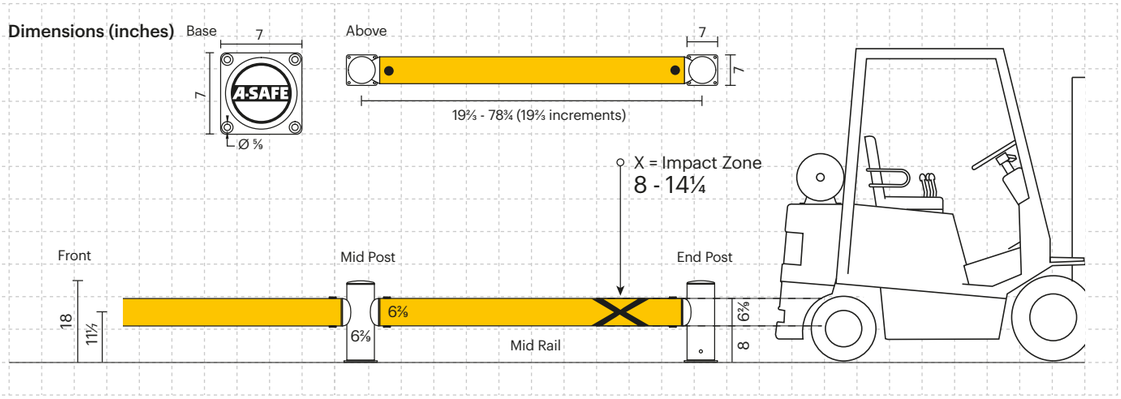
Force to Bolt
13kN



Material Properties	MEMAPLEX™
Temperature Range	14°F to 122°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

Dimensions (inches)



Post Options

Standard Black
RAL 9005*
PANTONE Black

Rail Options

Standard Yellow RAL 1007* PANTONE 7548*	Standard Black RAL 9005* PANTONE Black

Color Combinations

*Please note that the RAL and PANTONE colors 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.

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A-SAFE

eFlex™

Single Traffic Guardrail

Designed to shield buildings, machinery and equipment from damage caused by vehicle collisions both inside and out.

This flexible mid-strength guardrail provides visual guidance to drivers and physical protection for assets by absorbing and deflecting impact forces, preventing incidents and avoiding downtime.

Ideal for mid-traffic areas and for equipping build base specifications.

Tested to the global benchmark in guardrail safety

bsi. PAS 13
Code of Practice for Workplace Safety Guardrails

TÜV NORD
TÜV NORD Systems GmbH & Co. KG
Determination of the Product Type
Voluntary Certification acc. TÜV NORD Standard STH-ZE-KSP-VK-320

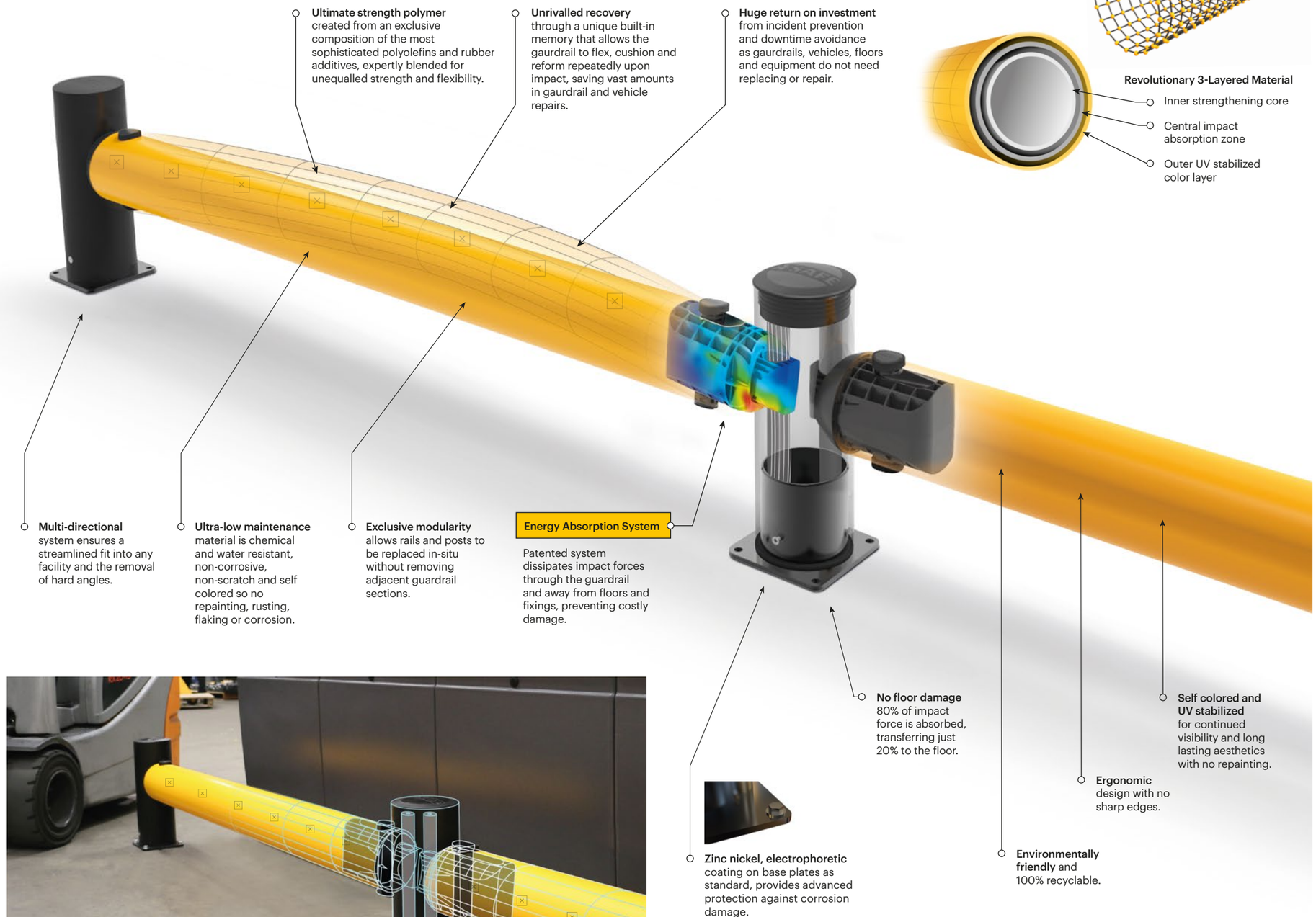
Testing Criteria to determine essential Product Properties of Collision Protection Systems:

- PAS 13, Sec. 7.7 (Sled and Ramp Impact test)
- PAS 13, Sec. 7.8 (Pass and Fail Criteria)

For further information: www.tuev-nord.de

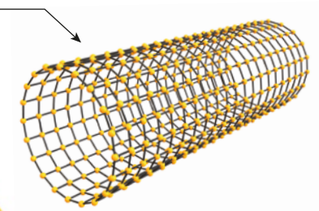
Engineered for performance

Whether in the resilience, flexibility and in-built memory of our exclusive Memaplex™ material or the unrivalled energy absorption of our unique 3-phase coupling system, a wealth of technical ingenuity goes into every A-SAFE product to ensure that it performs perfectly every time you need it to. We are continuously innovating to solve the greatest workplace safety challenges on behalf of our customers and our numerous patents attest to our industry-leading commitment to research and development.



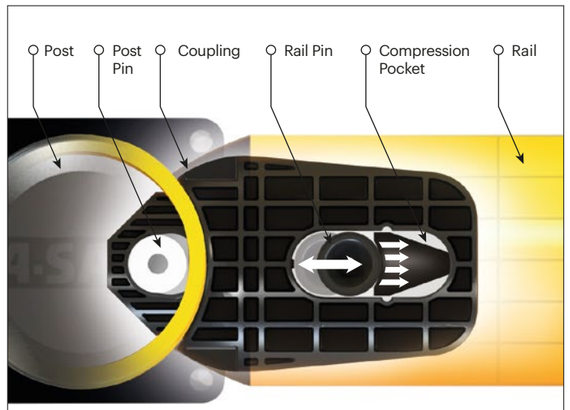
MEMAPLEX™

Advanced Engineering Molecular reorientation during manufacturing creates a unique built-in memory that enables the barrier to fully recover following impacts.

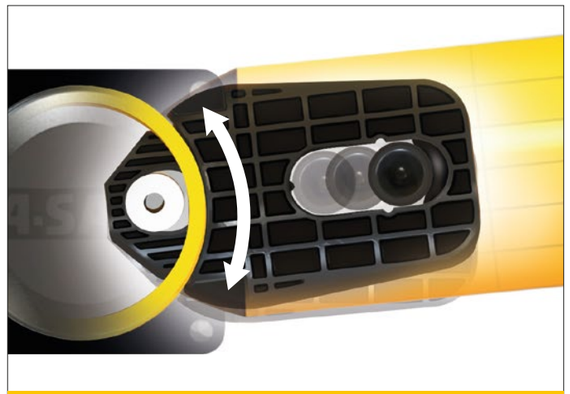


Energy Absorption System

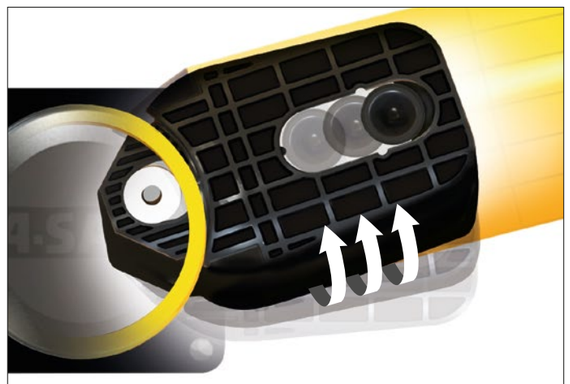
A patented 3-phase system that activates sequentially for unparalleled energy absorption



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.