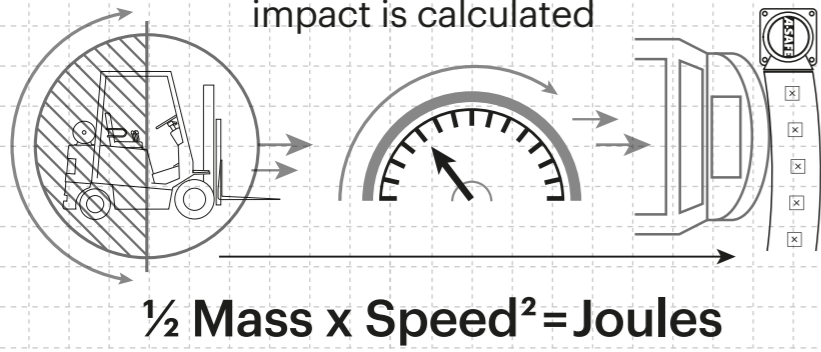


# Technical Information

How the energy from a vehicle impact is calculated



**Tested Impact Energy**  
**1,000 Joules**  
 Equivalent vehicle and speed  
 3 tonne **X** 1.8 mph impact  
 90° Impact on RackGuard

**Impact Test**  
 Max Energy (Joules) **1,000**  
 Deflection at Max Energy 20mm

| Material Properties                 | MEMAPLEX <sup>TM</sup> 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

**Racking Profiles**

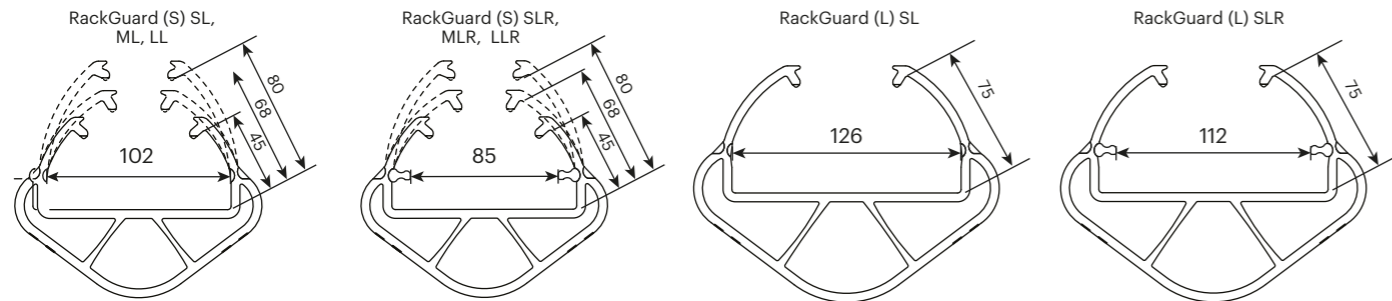
**Dimensions (mm)**  
 X = Impact Zone 0 - 1000mm

**RackGuard Sizes**

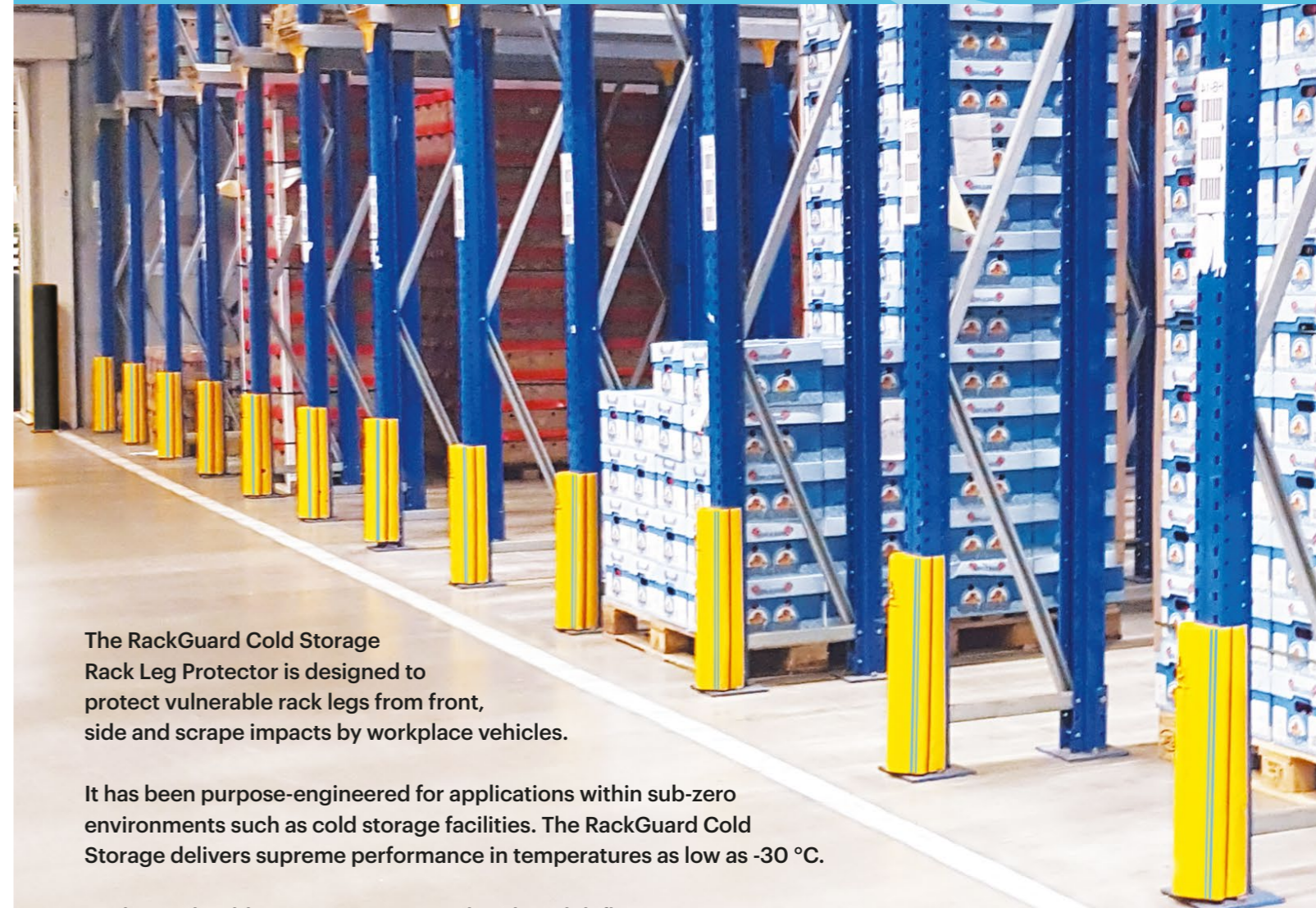
| Description       | A-Rack width (max) | B-Rack depth (max) |
|-------------------|--------------------|--------------------|
| RackGuard (S) SL  | 102                | 45                 |
| RackGuard (S) ML  | 102                | 68                 |
| RackGuard (S) LL  | 102                | 80                 |
| RackGuard (S) SLR | 85                 | 45                 |
| RackGuard (S) MLR | 85                 | 68                 |
| RackGuard (S) LLR | 85                 | 80                 |
| RackGuard (L) SL  | 126                | 75                 |
| RackGuard (L) SLR | 112                | 75                 |

All RackGuards are available in 400, 600 and 1000mm heights.

Compression hinges have various widths to fit a range of racking profiles.



## RackGuard Cold Storage Rack Leg Protector



The RackGuard Cold Storage Rack Leg Protector is designed to protect vulnerable rack legs from front, side and scrape impacts by workplace vehicles.

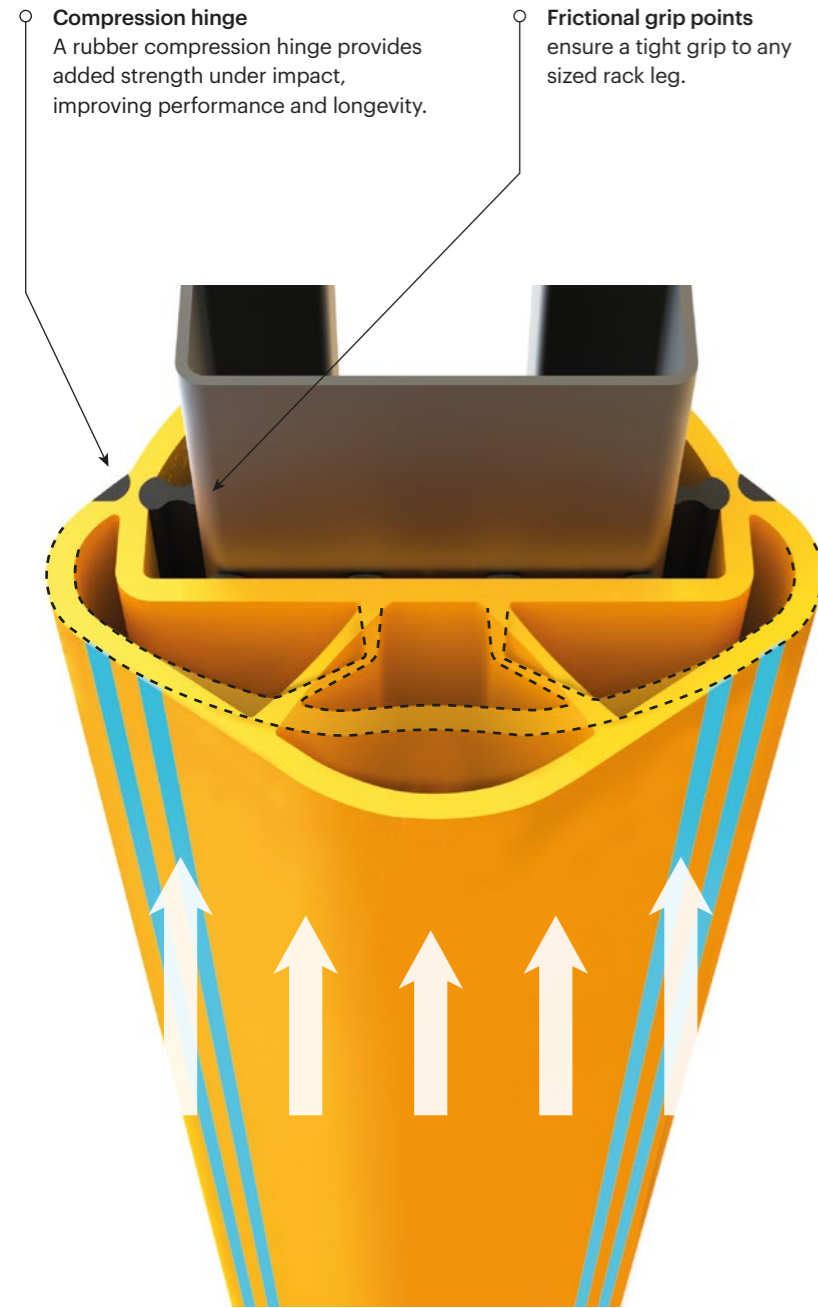
It has been purpose-engineered for applications within sub-zero environments such as cold storage facilities. The RackGuard Cold Storage delivers supreme performance in temperatures as low as -30 °C.

RackGuard Cold Storage protectors absorb and deflect impacts, transferring energy around the rack leg rather than through it, preventing damage to uprights and maintaining the structural integrity of racking systems. Frictional grip points ensure a secure fit to any sized rack leg. RackGuard is supplied with specifically developed toolkit for ultra-fast installation.



# Engineered for performance

State-of-the-art products from A-SAFE are meticulously engineered to deliver the highest performance. 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.



**Compression hinge**

A rubber compression hinge provides added strength under impact, improving performance and longevity.

**Frictional grip points**

ensure a tight grip to any sized rack leg.

**Memaplex™ Sub-Zero**

Has been developed by world-class polymer scientists to deliver maximum performance at sub-zero temperatures. Create from a unique blend of polymers, Memaplex Sub-Zero is designed to withstand impacts without cracking or fragmenting.

**Ultra-low maintenance material**

is chemical and water-resistant, non-corroding, non-scratch and self-coloured, so no repainting, rusting, flaking or corrosion.

**Huge return on investment**

through incident prevention and downtime avoidance, thanks to resilient compression features and unique material that can withstand multiple impacts.

**Advanced engineering**

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



**Ergonomically designed**

with a slim profile to limit intrusion into warehouse aisles.

**Self coloured and UV stabilised**

for lasting high visibility, without the need for repainting.

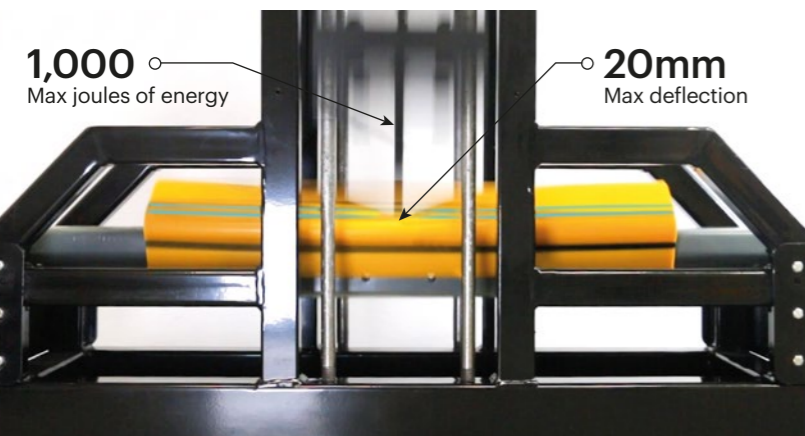
**Food safe**

wipe-clean, water-resistant surface.

**Eco-friendly**

and 100% recyclable.

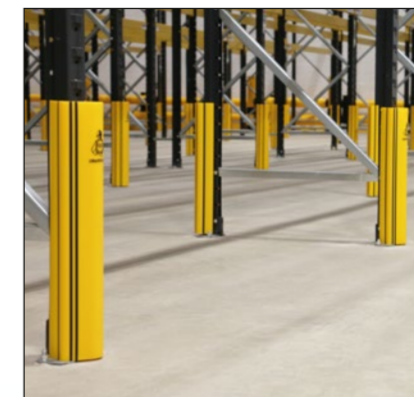
## TESTED TO THE MAXIMUM



RackGuard is supplied with a specially designed toolkit to ensure it can be installed and removed easily.



RackGuards can also be installed above ground level to protect racks from loading and unloading damage.



**Standard RackGuards are also available.**

See separate data sheet for details.



**Dual branding option**

RackGuard can be personalised with your company logo to create a unified branding experience throughout your warehouse facility. Your logo will be prominently printed above the standard A-SAFE logo on every RackGuard.