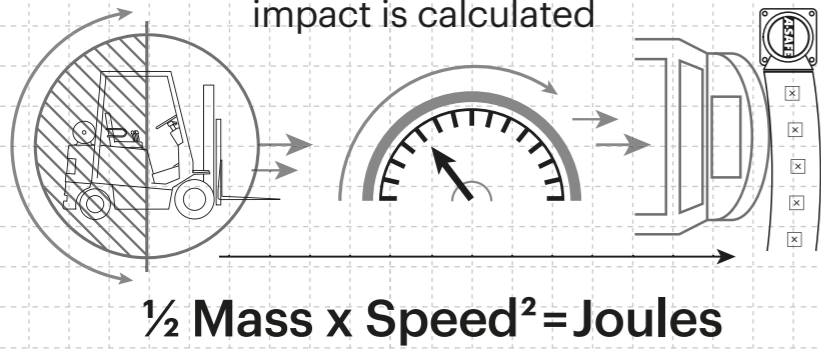


# Technical Information

How the energy from a vehicle impact is calculated



**Tested Impact Energy**  
**12,000 Joules**  
 Equivalent vehicle and speed

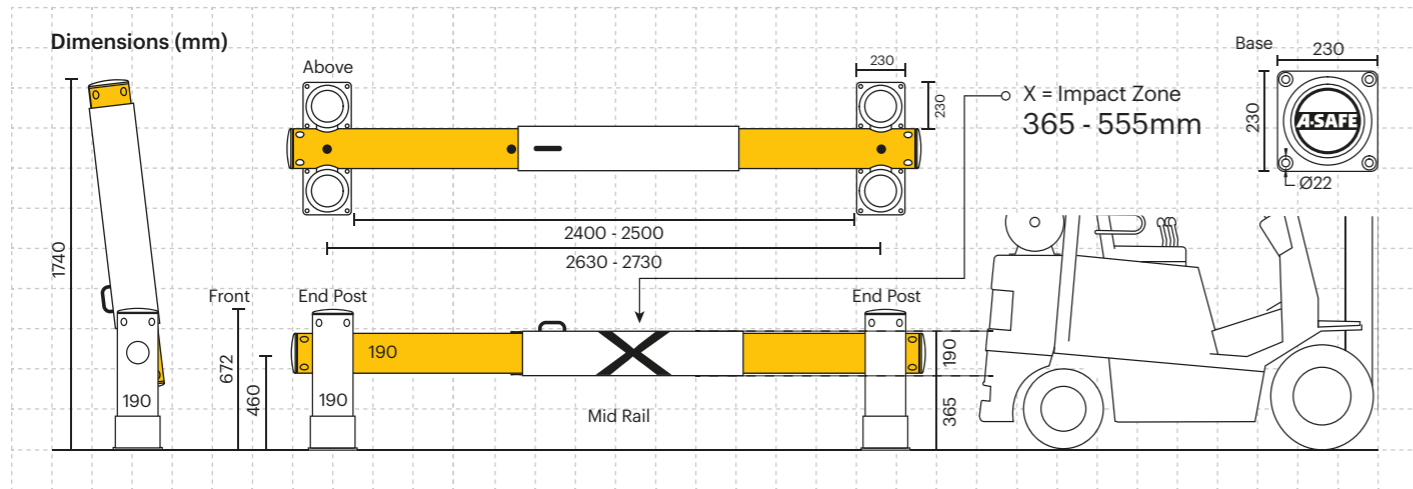
**7.5 tonne** X **4 mph impact**

Mid Rail 90° Impact on 2630mm Post Centres

Impact Test	
Max Energy (Joules) at 90°	<b>12,000</b>
End Post Max Energy (Joules) at 90°	10,000
Deflection at Max Energy 700mm	Force to Bolt 24kN

Material Properties	MEMAPLEX™
Temperature Range	-10°C to 50°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



**Post**  
 Standard Black  
 RAL 9005\*  
 PANTONE Black

**Rail**  
 Standard Yellow  
 RAL 1007\*  
 PANTONE 7548\*

**Colour Combination**  
 \*Please note that the RAL and PANTONE colours 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.



**iFlex™**  
**Dock Gate**



Designed to defend dock loading bays, containing stray vehicles at dock entrances and protecting door infrastructure from impact damage.

Creates a physical stop with enhanced strength barrier for high impact resistance in heavy vehicle environments.

Double bollard posts offer high levels of collision resistance even when the gate is open, protecting door infrastructure and shutter rails.

Suitable for all docking areas, the simple manual operation, quick-slide collar lock and cantilever design give easy access and ample opening room.

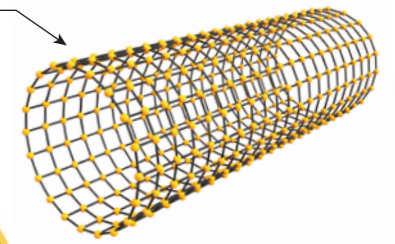


# Engineered for performance

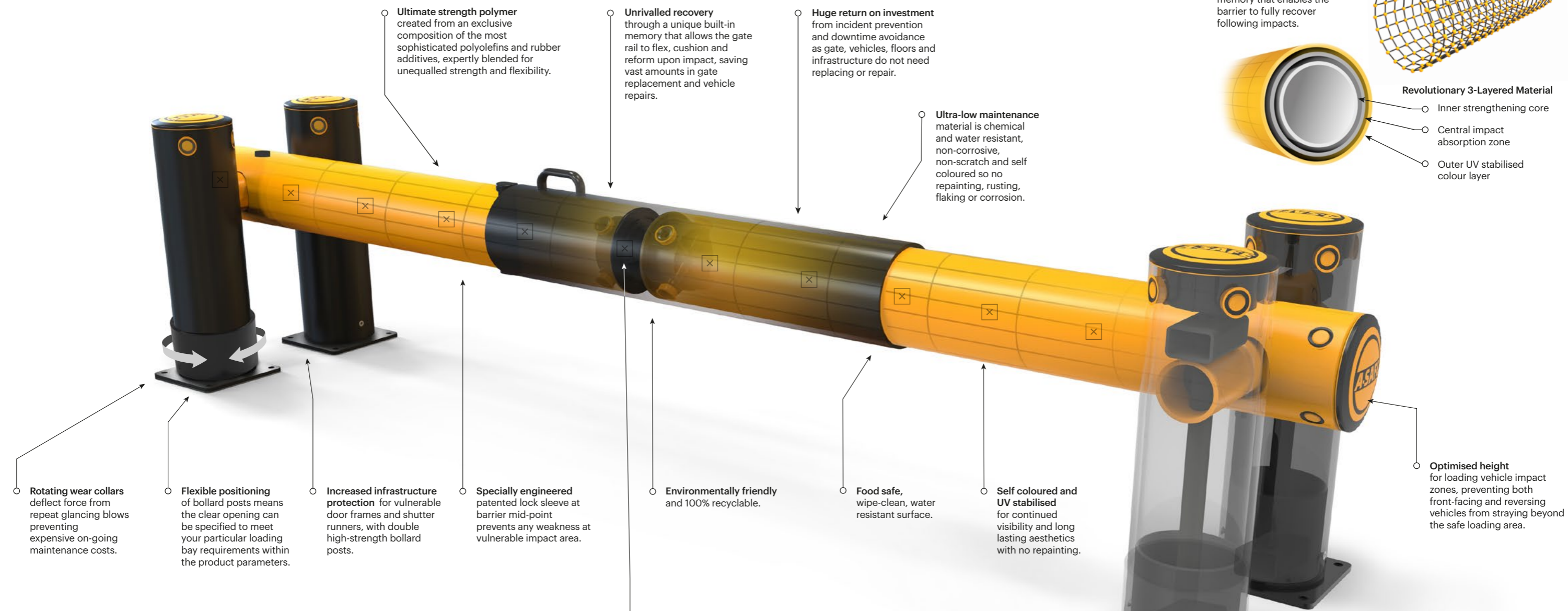
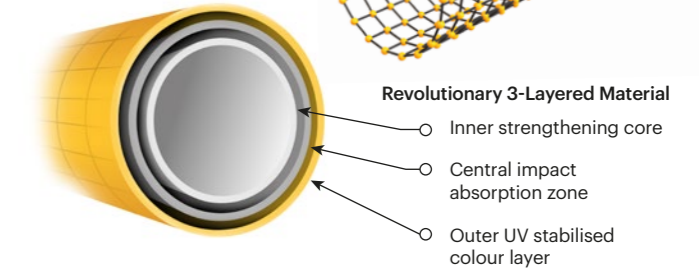
A-SAFE's state of the art products are meticulously engineered to deliver the highest performance. Designed, developed, tested and manufactured in-house at our cutting-edge facility, each unique component is carefully crafted and purpose-built to play a vital role in the product's performance.

## MEMAPLEX™

**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



Rotating wear collars deflect force from repeat glancing blows preventing expensive on-going maintenance costs.

Flexible positioning of bollard posts means the clear opening can be specified to meet your particular loading bay requirements within the product parameters.

Increased infrastructure protection for vulnerable door frames and shutter runners, with double high-strength bollard posts.

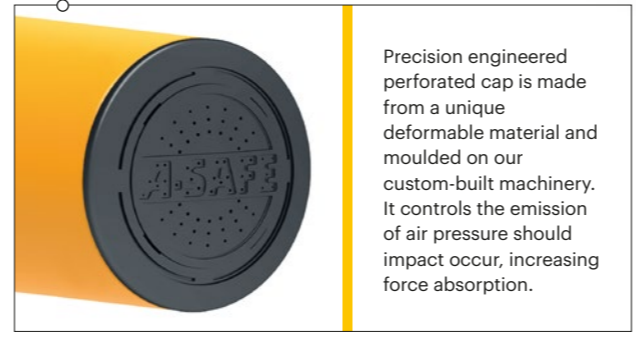
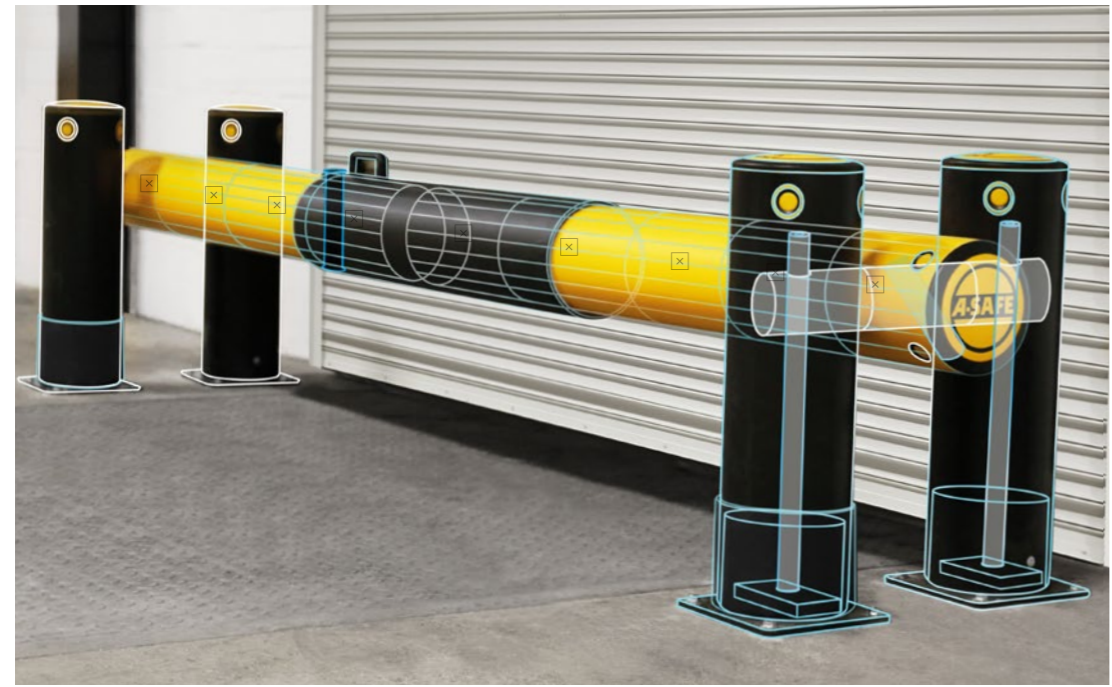
Specially engineered patented lock sleeve at barrier mid-point prevents any weakness at vulnerable impact area.

Environmentally friendly and 100% recyclable.

Food safe, wipe-clean, water resistant surface.

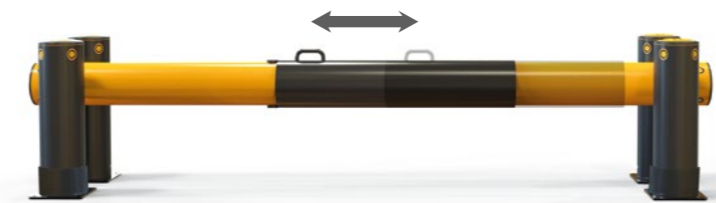
Self coloured and UV stabilised for continued visibility and long lasting aesthetics with no repainting.

Optimised height for loading vehicle impact zones, preventing both front-facing and reversing vehicles from straying beyond the safe loading area.



Precision engineered perforated cap is made from a unique deformable material and moulded on our custom-built machinery. It controls the emission of air pressure should impact occur, increasing force absorption.

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



**Retractable locking device**  
Patented quick-slide Memaplex™ lock sleeve maintains barrier strength and integrity to withstand heavy vehicle impacts.



**Lift and self-hold**  
Patented lift and self-hold design, barrier pivots between bollard posts to protect door frames and shutter runners whilst loading bay is in use.