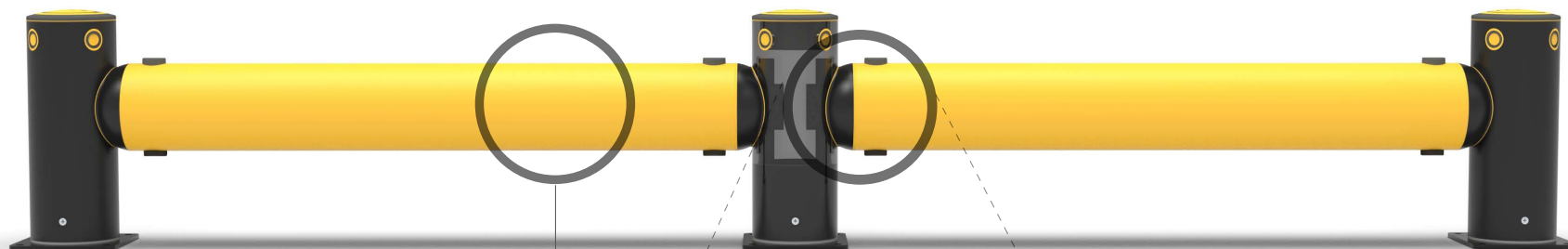# iFlex Single Traffic Barrier

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

This flexible heavy-duty barrier provides visual guidance to drivers and physical protection for vital assets by absorbing and deflecting high-impact forces, preventing incidents and avoiding downtime. Ideal for high traffic areas.

BANKS INDUSTRIAL GROUP

Your Authorized A-SAFE Distributor

856-687-2227 • sales@banksindustrial.com • BanksIndustrial.com
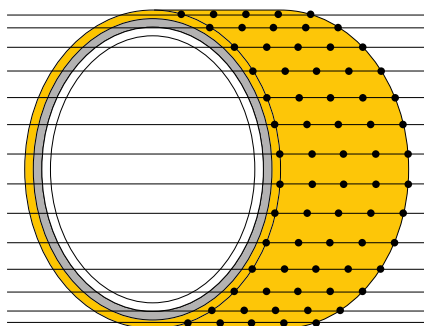PO Box 382 • Berlin, NJ 08009

MEMAPLEX™

Ultimate strength polymer
created from an exclusive composition of the most sophisticated polyolefins and rubber additives, expertly blended for unequalled strength and flexibility.

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

Revolutionary 3-Layered Material

- Inner strengthening core
- Central impact absorption zone
- Outer UV stabilised colour layer

Energy Absorption System

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

1. Memaplex™ rail flexes to absorb impact, initiating the rail pin to slide forward and transfer load energy to the compression pocket.

2. Compression of the pocket continues to disperse energy as the coupling rotates around the post pin to activate further absorption.

3. At peak energy, the coupling twists further, engaging the post pin and instigating torsion of the post to dispel remaining forces.

A	Post Pin	**D**	Compression Pocket
B	Coupling	**E**	Rail
C	Rail Pin		

Suitability

Vehicle

Lightweight counterbalance FLT

Electric high reach truck

Electric Pedestrian Truck

Manual Pallet Truck

Electric Pedestrian Stacker

Application

Building and equipment protection

Corridor and wall protection

Column protection

Racking and Storage Protection

Unrivalled recovery through a unique built-in memory that allows the guardrail to flex, cushion and reform repeatedly upon impact, saving vast amounts in barrier and vehicle repairs.
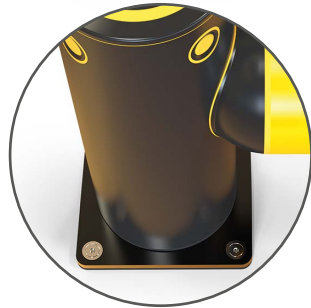
Huge return on investment from incident prevention and downtime avoidance as guardrails, vehicles, floors and equipment do not need replacing or repair.

Features and benefits

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

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

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

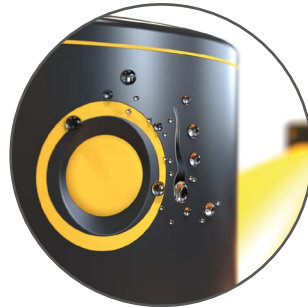Seals reduce the risk of water ingress.

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

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

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

Wipe-clean, water resistant surface.
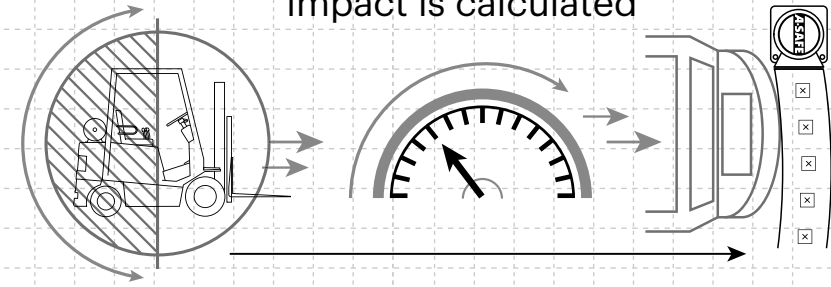
Ergonomic design with no sharp edges.

Environmentally friendly and 100% recyclable.

Technical Information

How the energy from a vehicle impact is calculated
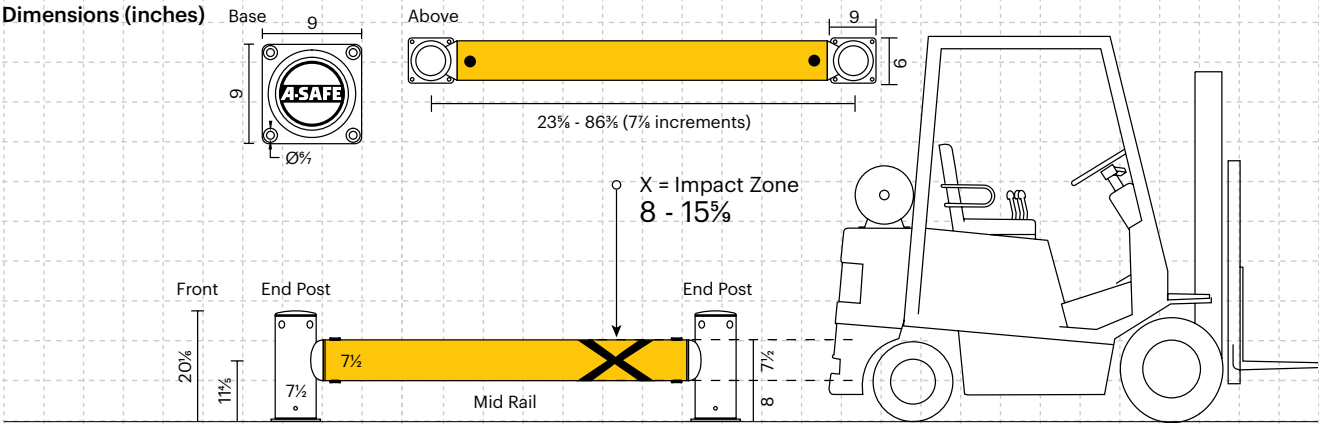
$$\tfrac{1}{2}\ Mass\ x\ Speed^2 = Joules$$

Tested Impact Energy

30,200 Joules

Equivalent vehicle and speed

9.2 ton X **6 mph impact**

Mid Rail 45° Impact on 78¾ Post Centres

Dimensions (inches)

Base

9

9

Ø⅝⁷

Above

9

9

6

23⅝ - 86⅜ (7⅞ increments)

X = Impact Zone
8 - 15⅝

Front

End Post

End Post

20⅞

11⅕

7½

7½

7½

8

Mid Rail

Impact Test

Impact Test	Impact Angle on 78¾ Post Centres			
	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

Deflection at Max Energy 17 inches

17

Force to Bolt 24kN

Post

Ground

Material Properties — MEMAPLEX™

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

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

Post Options

Standard Black
RAL 9005*
PANTONE Black

Standard Yellow
RAL 1007*
PANTONE 7548*

Rail Options

Standard Yellow
RAL 1007*
PANTONE 7548*

Standard Black
RAL 9005*
PANTONE Black

Standard Grey
RAL 9007*
PANTONE Cool Grey 5*

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.