

# RAYSAN

Flexible Barrier  
POLYGUARD  
PuffyGuard

## 1R BARRIER + KERB

1R BARRIER KERB, THE ENHANCED SIBLING OF OUR 1R BARRIER, IS DESIGNED FOR QUICK AND EASY ASSEMBLY, MAKING IT IDEAL FOR SAFEGUARDING INDOOR AND OUTDOOR AREAS WITH TRANSPORT AND LOADING VEHICLE TRAFFIC. IT PROVIDES ROBUST PROTECTION FOR STRUCTURES, GOODS, AND MACHINERY NEAR GROUND LEVEL, ESPECIALLY AGAINST FREQUENT IMPACTS FROM FORKLIFT FORKS AND KNIVES. ADDITIONALLY, IT HELPS DEFINE, DIVIDE, AND ORGANIZE SPACES, DELIVERING SUPERIOR DURABILITY WHERE IT'S NEEDED MOST.



## STRONG AND LIGHTWEIGHT

Thanks to its unique chemical formula, our barrier surpasses steel barriers in both strength and weight. It is significantly lighter while maintaining its exceptional durability.

## MODULAR

Thanks to its modular design, our barrier effortlessly adapts to the changing needs of your facility. This flexible solution is extremely easy to install, assemble, disassemble, relocate and organize.

## NO CORROSION

Unlike steel barriers, our barriers are made of durable polymer materials, making them unaffected by environmental elements such as sunlight and rainwater.

## NO PAINT AND MAINTENANCE NEEDED

Unlike Raysan's steel barriers that require regular painting and maintenance, our self-colored structure eliminates the need for these processes. Even if the barrier is scratched due to an impact, its surface retains its original color without any change.

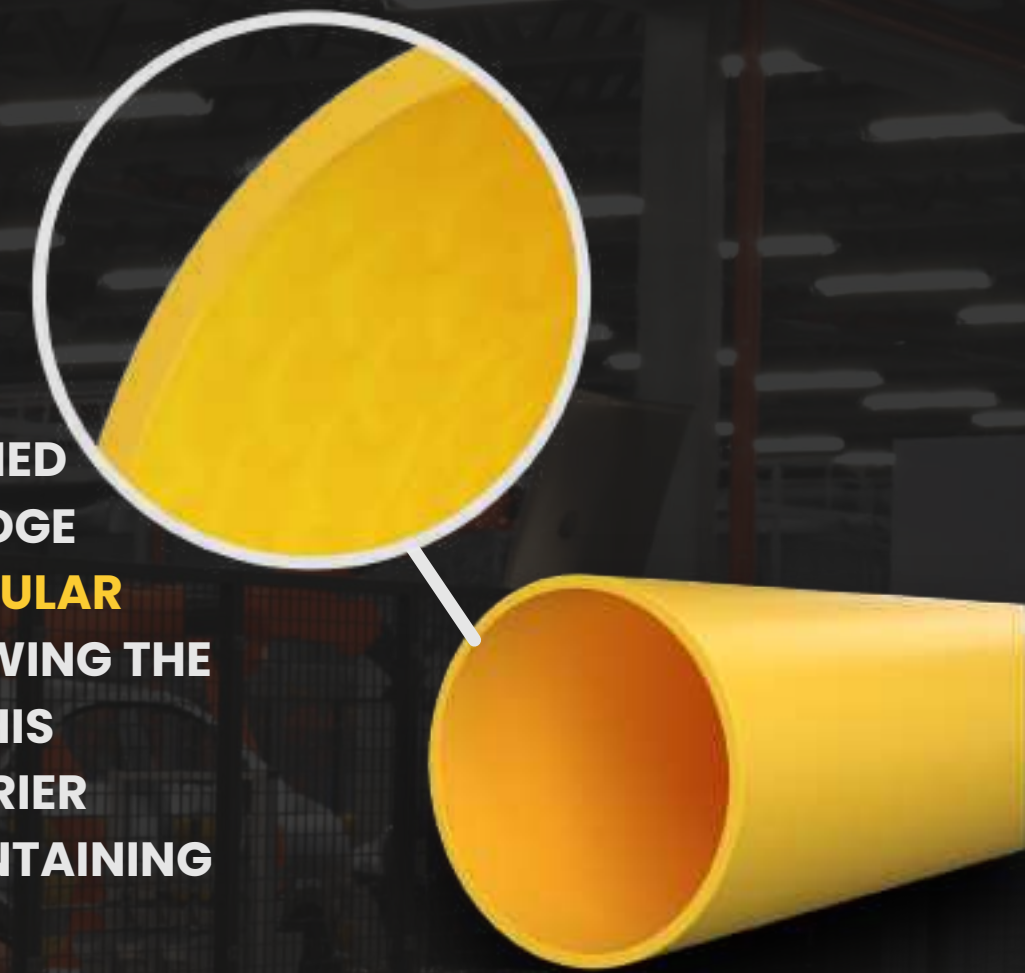
## ULTRAVIOLET RESISTANT

Our barriers are designed with exceptional resistance to UV radiation. Their chemical structure remains intact even after prolonged outdoor use, ensuring long-term durability.

## ANTIBACTERIAL

Our barriers have an exceptional chemical formula that prevents them from having any chemical reaction with the substances they come into contact with.

EXPERIENCE **UNPARALLELED STRENGTH** WITH OUR **ADVANCED POLYMER**, CRAFTED FROM A **PREMIUM BLEND** OF SOPHISTICATED **POLYOLEFINS** AND **RUBBER ADDITIVES**. THIS **EXCLUSIVE COMPOSITION** DELIVERS **UNMATCHED DURABILITY** AND **FLEXIBILITY**. OUR **CUTTING-EDGE ENGINEERING PROCESS** REORIENTS THE **MOLECULAR STRUCTURE** DURING MANUFACTURING, ENDOWING THE BARRIER WITH A UNIQUE **BUILT-IN MEMORY**. THIS INNOVATIVE FEATURE ENSURES THAT THE BARRIER **RECOVERS COMPLETELY** AFTER IMPACTS, MAINTAINING **PEAK PERFORMANCE** AND **RELIABILITY**.



<b>ALPHA</b>	Post Dimension [D1]	Post Height [H]	Rail Dimension [D2]	Rail Length Range [L1]	Barrier Length MAX [L2]	Impact Zone [Z]
	Ø250 mm	470 mm	Ø200 mm	500 mm - 3000 mm	3250 mm	200 mm

<b>DELTA</b>	Post Dimension [D1]	Post Height [H]	Rail Dimension [D2]	Rail Length Range [L1]	Barrier Length MAX [L2]	Impact Zone [Z]
	Ø200 mm	430 mm	Ø160 mm	400 mm - 2700 mm	2900 mm	160 mm

<b>ZETA</b>	Post Dimension [D1]	Post Height [H]	Rail Dimension [D2]	Rail Length Range [L1]	Barrier Length MAX [L2]	Impact Zone [Z]
	Ø160 mm	400 mm	Ø125 mm	320 mm - 2350 mm	2510 mm	125 mm

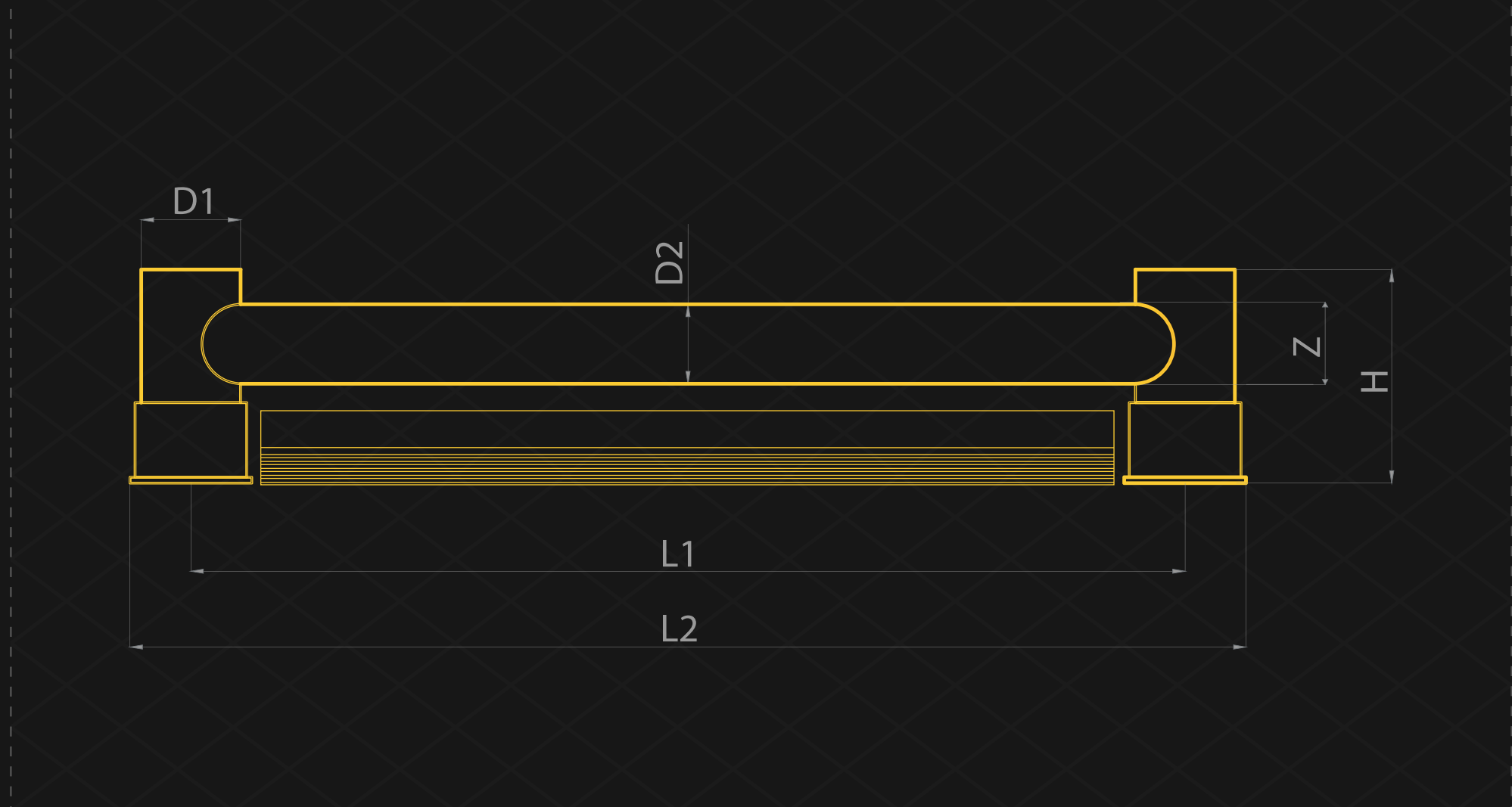


IMPACT ENERGY DETAILS

**90° IMPACT**

<b>ALPHA</b>	14,600 JOULE
<b>DELTA</b>	9,800 JOULE
<b>ZETA</b>	5,800 JOULE

TECHNICAL DRAWING



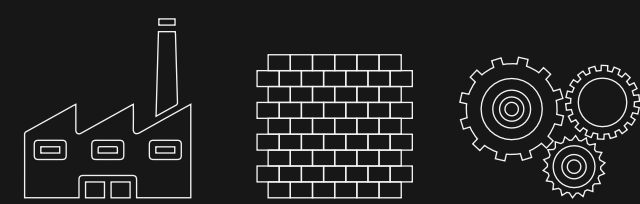
FIXING REQUIREMENTS

- ELECTROSTATIC PAINT
- STAINLESS STEEL
- GALVANIZE

**PULL OUT FORCE 16,4KN**

Concrete Quality	Minimum C25/30
Concrete Floor Plate Thickness [mm]	Minimum 150 mm
Water and Humidity	<p><b>Steel</b> [standart] : Suitable for dry indoor use only.</p> <p><b>Galvanize</b> : Can be used in most outdoor environments.</p> <p><b>Stainless Steel</b> : Ideal for outdoor use or environments with frequent exposure to water and humidity.</p>

SUITABLE APPLICATION



**BUILDING AND EQUIPMENT SAFEGUARDS**    **CORRIDOR AND WALL DEFENSES**    **MACHINERY PROTECTION SOLUTIONS**

SUITABLE FOR



\*90° Impact on Mid Rail of Maximum Post Centres  
 \*Results are Reflecting instantaneous Impact Values  
 \*Does not Provide Resistance to Sharp Impacts

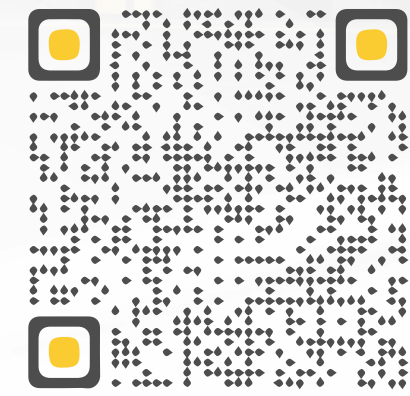
STANDART COLORS    RAL 1018 PANTONE 123C    RAL 9005 PANTONE B6C

\*Please note that the RAL and PANTONE colours listed are the closest match to standard RAYSAN colours, but may not be exact matches of the actual product colour and should be used for guidance only.

RAYSAN

Flexible Barrier POLYGUARD

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# RAYSAN

AS RAYSAN, WE ARE PROUD TO PIONEER THE FUTURE OF INDUSTRIAL SAFETY. WITH OUR STATE-OF-THE-ART FLEXIBLE PROTECTIVE BARRIERS AND SOLUTIONS, WE ARE AT THE FOREFRONT OF INNOVATION, PROTECTING WORKPLACES AROUND THE WORLD. OUR COMMITMENT TO EXCELLENCE AND UNWAVERING DEDICATION TO ADVANCING SAFETY STANDARDS HAS PROPELLED US TO THE TOP OF THE INDUSTRY.

YOUR **TRUSTED** PARTNER