



RAYSAN

Flexible Barrier
POLYGUARD
PuffyGuard

TECHNICAL DATA SHEET

1R BARRIER XL

OUR XL BARRIER, DESIGNED FOR QUICK ASSEMBLY, OFFERS EXCEPTIONAL PROTECTION AGAINST NEAR-GROUND VEHICLE IMPACTS IN INDOOR AND OUTDOOR AREAS WITH TRANSPORT AND LOADING TRAFFIC. PERFECT FOR SAFEGUARDING STRUCTURES, GOODS, AND MACHINERY IN HIGH-IMPACT ZONES, IT ALSO ORGANIZES AND DEFINES SPACES WITH EASE AND DURABILITY. BUILT TO WITHSTAND CONTINUOUS IMPACTS, IT ENSURES LONG-TERM RELIABILITY IN DEMANDING ENVIRONMENTS.



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

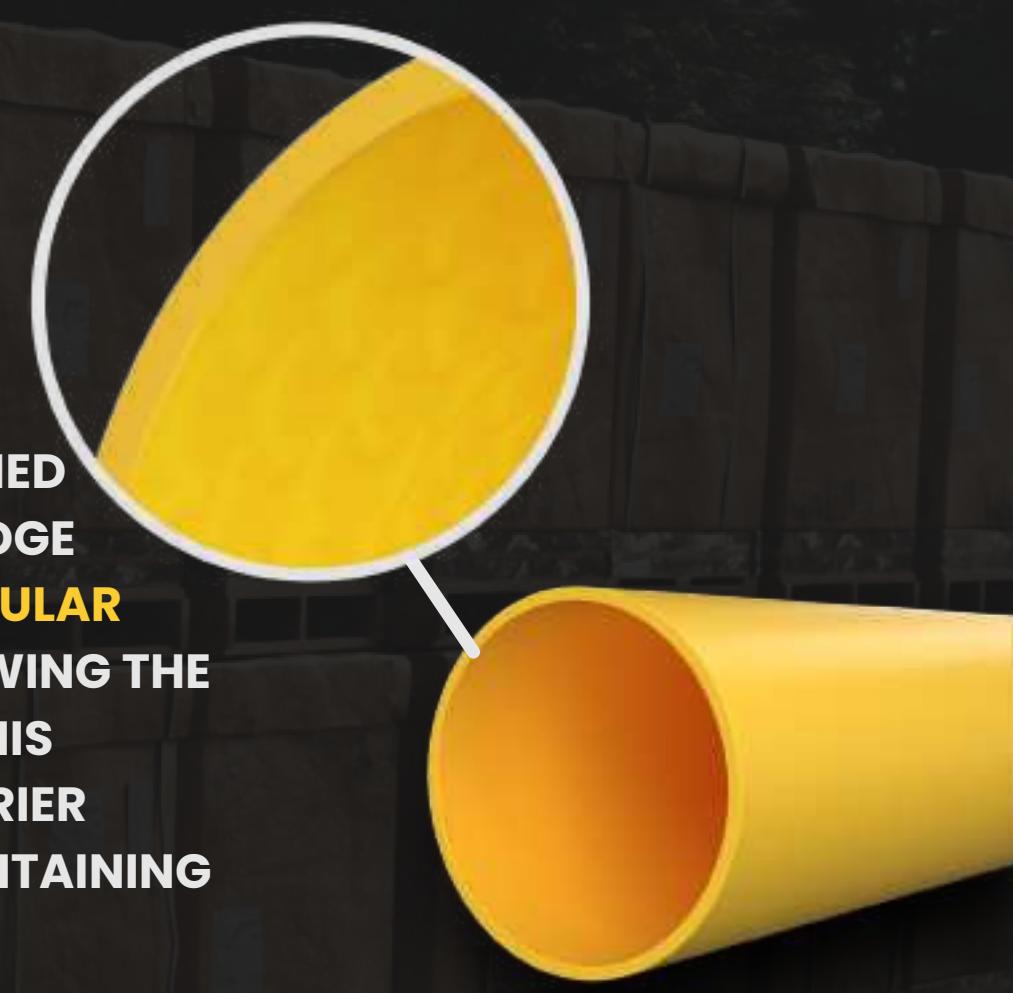
Our barriers are designed with exceptional resistance to UV radiation. Their chemical structure remains intact even after prolonged outdoor use, ensuring long-term durability.

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.



PRODUCT SPECIFICATIONS

ZETA	Post Dimension [D1]	Post Height [H]	Rail Dimension [D2]	Rail Length Range [L1]	Barrier Length MAX [L2]	Impact Zone [z]
	Ø160 mm	400 mm	Ø250 mm	1000 mm - 2960 mm	2960 mm	250 mm

TETA	Post Dimension [D1]	Post Height [H]	Rail Dimension [D2]	Rail Length Range [L1]	Barrier Length MAX [L2]	Impact Zone [z]
	Ø125 mm	310 mm	Ø160 mm	1000 mm - 2925 mm	2925 mm	160 mm

TECHNICAL DRAWING



STANDARD COLORS

RAL 1018 PANTONE 123C

RAL 9005 PANTONE B6C

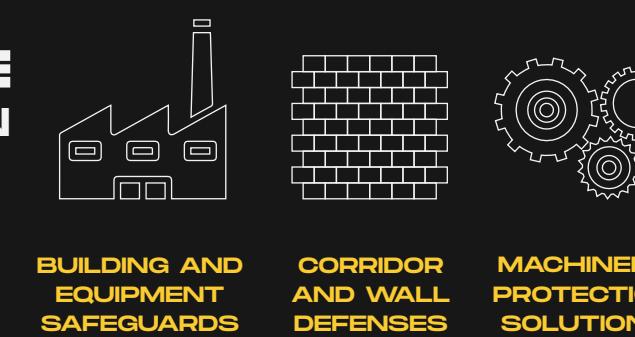
*Please note that the RAL and PANTONE colours listed are the closest match to standard RAYSAN colours, but may not be exact matches of the actual product colour and should be used for guidance only.

FIXING REQUIREMENTS



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

SUITABLE APPLICATION



SUITABLE FOR



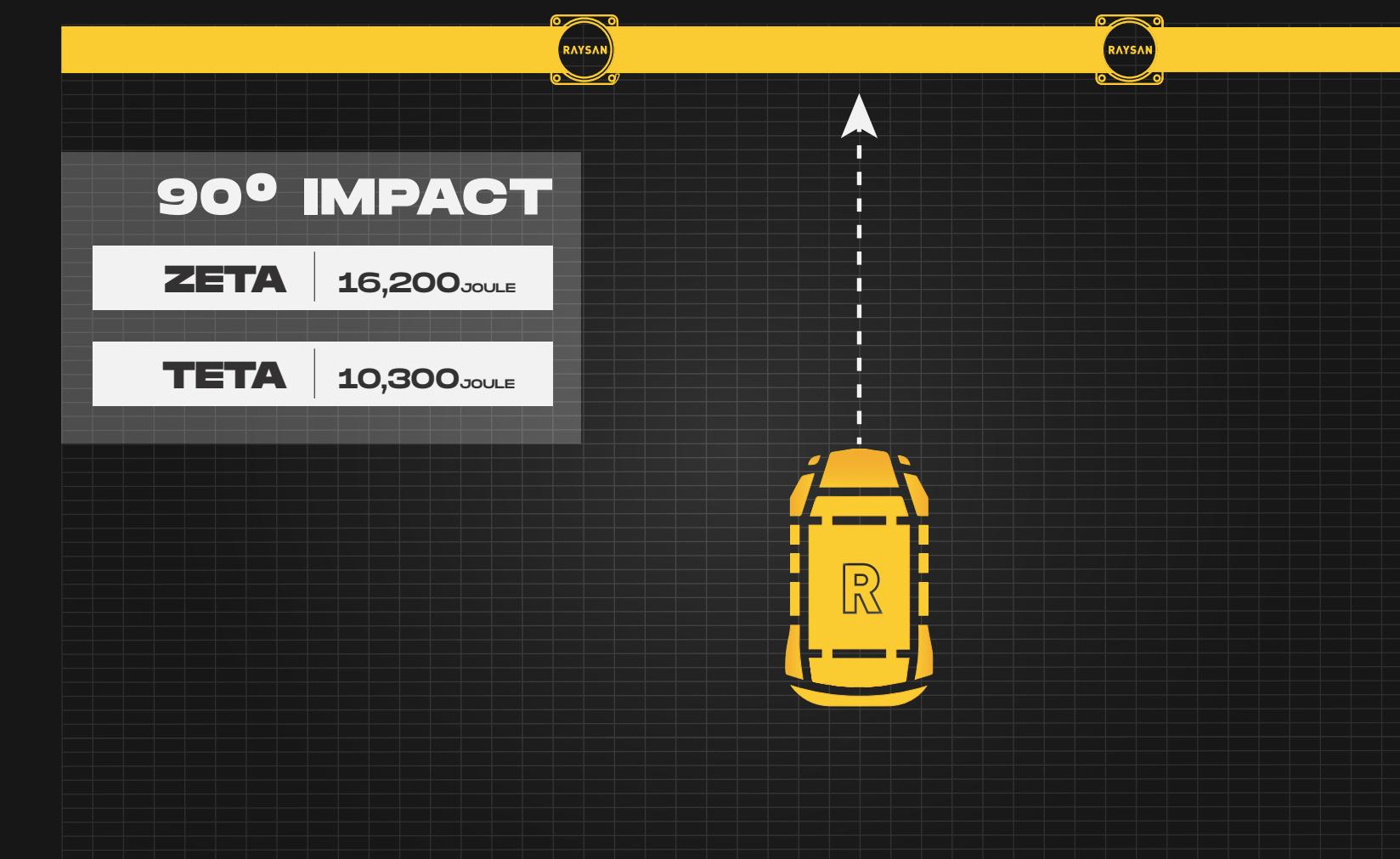
*90° Impact on Mid Rail of Maximum Post Centres

*Results are Reflecting instantaneous Impact Values

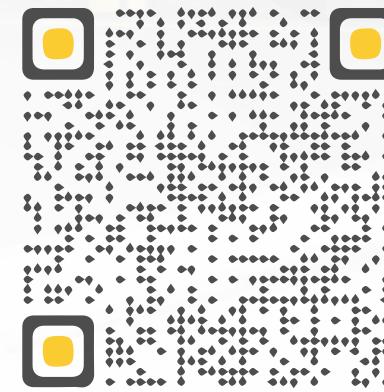
*Does not Provide Resistance to Sharp Impacts



IMPACT ENERGY DETAILS



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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