

HÖRN

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20 Profiles
25 Staircase system
FRP Structures
Roofing sheets

Roof Walkways

Product Portfolio

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A stylized map of the Americas, including North and South America, rendered in a light gray tone. A dotted line path winds across the map, starting from the west coast of North America, moving south through Central America, and then curving eastward across the Caribbean and South America. Several location pins are placed along this path, with three prominent ones in the Caribbean region and two others in South America. The logo 'HÖRN' is positioned on the left side of the map.

HÖRN®

About us

We are CAVAR S.A., an industrial company with 40 years of expertise. Our dedication to the job, commitment to innovation, and the drive to generate systemic value for both the industry and society define who we are.

We are in search of

We are proactively harnessing the skills and capabilities of our employees to cultivate a customer service culture. This commitment allows us to deliver a broad range of offerings to various industrial sectors, including telecommunications.

Future direction

At HÖRN, our vision is to revolutionize the construction industry by applying innovative solutions through the use of composite materials. Our goal is to strengthen our organization globally, emphasizing the promotion of both aesthetic and functional value through design.

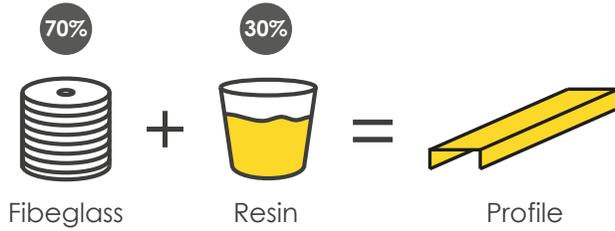
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Fiber Reinforced Polyester FRP

What is FRP?



Fiber Reinforced Polyester (FRP) is a composite material formed by combining thermosetting polyester resin with glass fibers, yielding a product with enhanced mechanical properties.

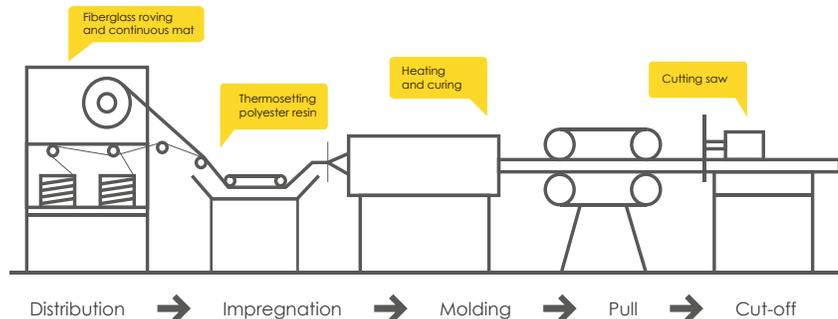


Features of Fiberglass Composites

	FRP	STEEL	ALUMINUM	WOOD
Corrosion resistance	Highest	Low	Medium	High
Mechanical strength	High	High	Medium	Low
Weight	Low	High	Low	Medium
Electrical conductivity	Lowest	High	High	Low
Thermal Conductivity	Lowest	High	Highest	Low
Electromagnetic Transparency	Highest	Low	Medium	High
Maintenance Cost	Low	High	Medium	High

Manufacturing Process

Pultrusion Process

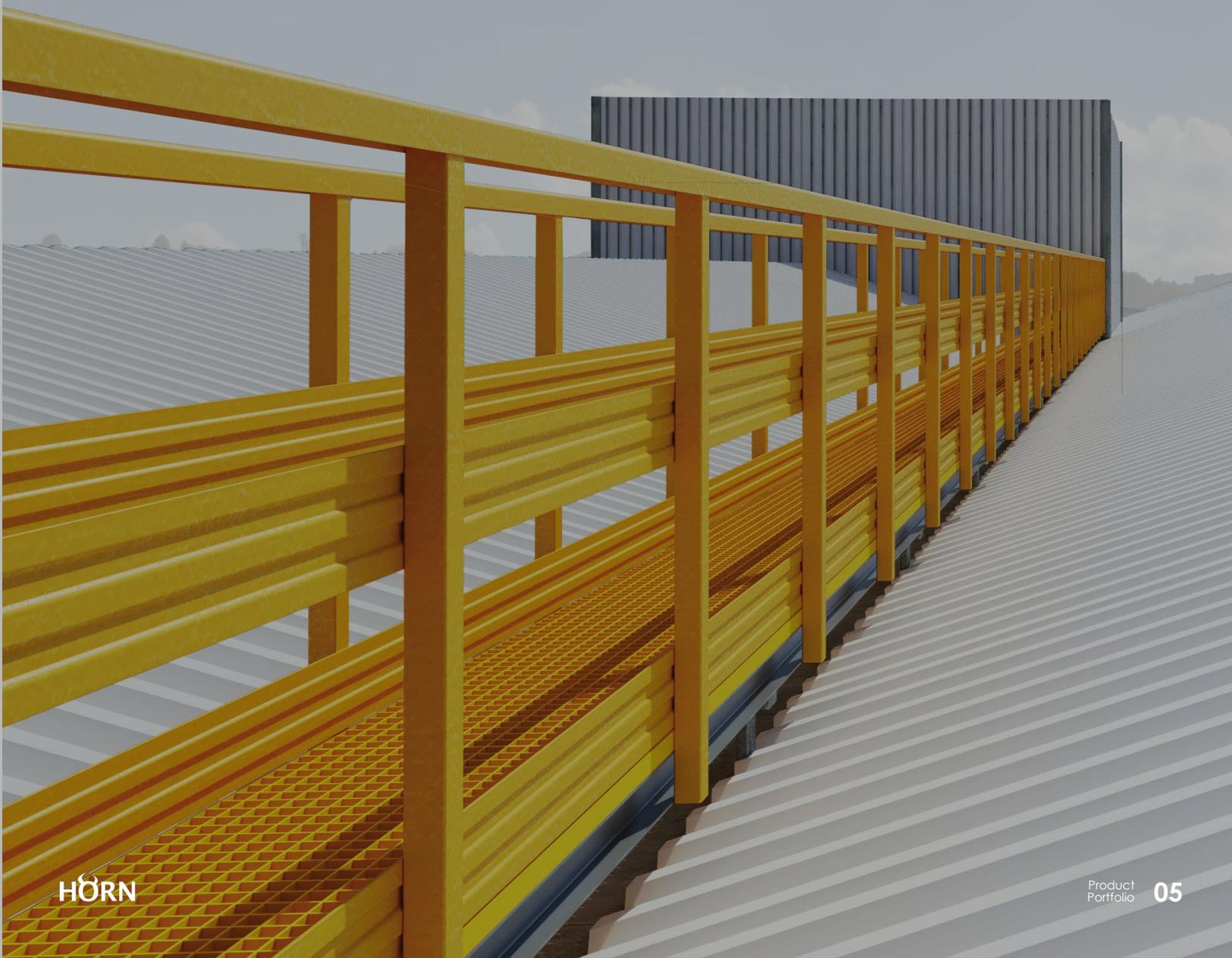


Roof Walkways

FRP

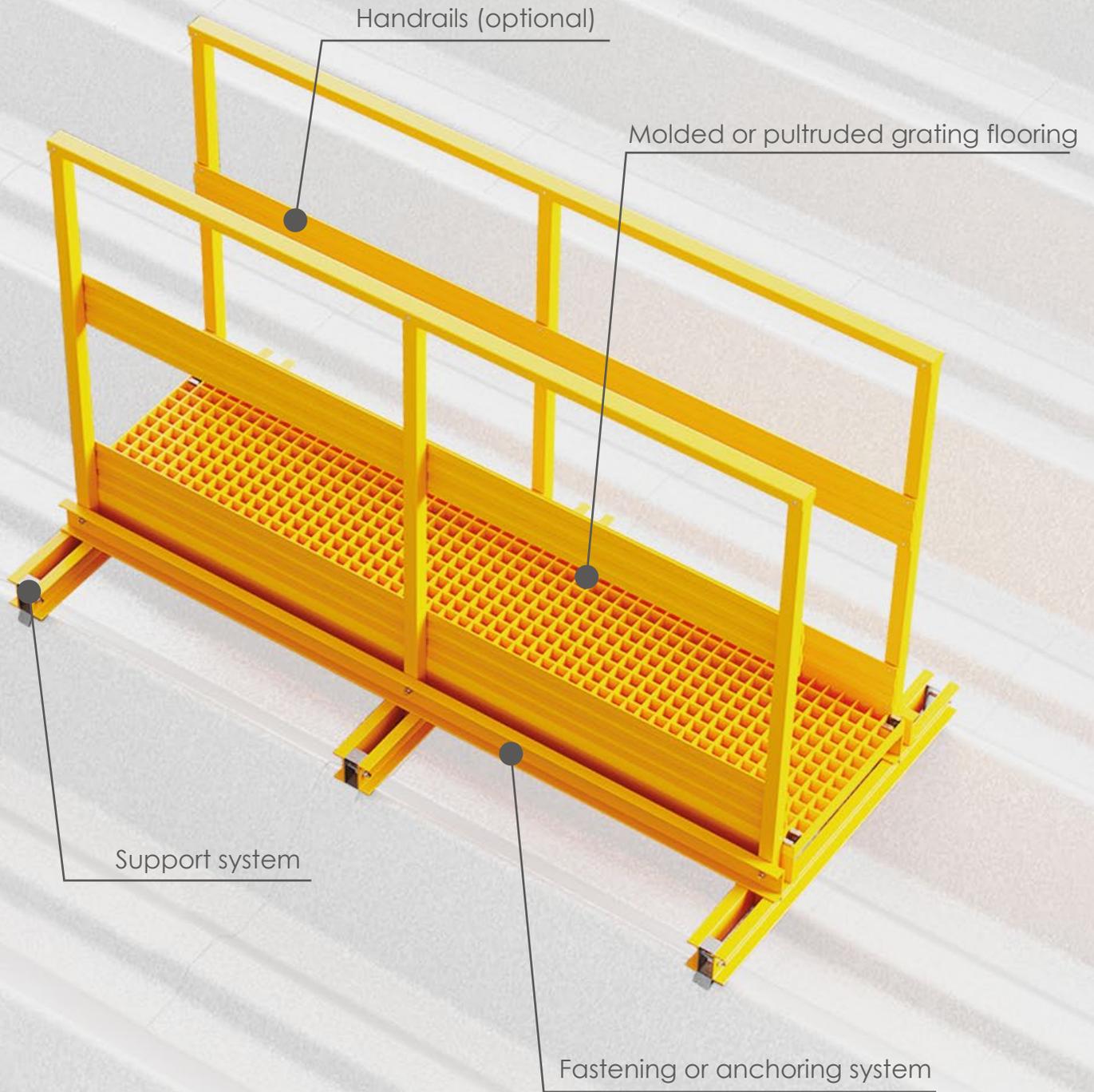
FRP (Fiber Reinforced Polymer) roof walkways are engineered to provide safe and reliable access for inspection, maintenance, and circulation across industrial and commercial rooftops. Designed to perform in demanding environments, these systems offer significant advantages over traditional materials.

These walkways are the ideal choice for industrial plants, energy facilities, mining operations, clean rooms, and rooftop solar panel installations where safety, durability, and electrical insulation are key.



System Configuration

Roof Walkways



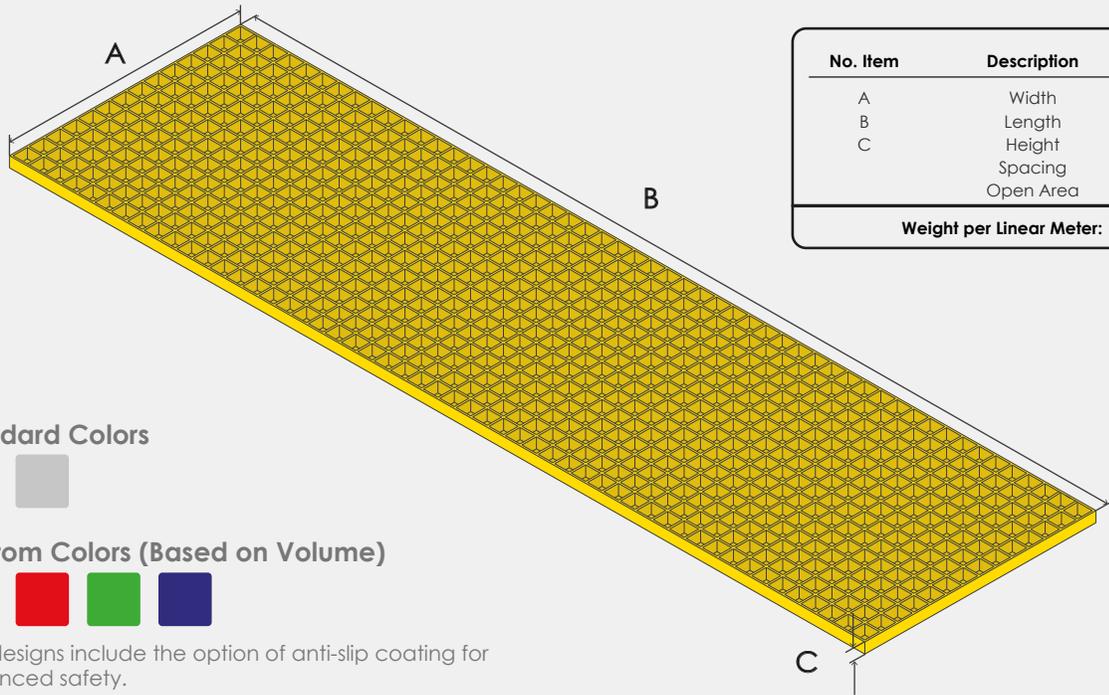
Each walkway module is designed to adapt to different roof types and specific work requirements, and is custom-made to meet the needs of each project.

Specifications

Roof Walkways

FRP Grating Molded Surface

Standardized system adaptable to customer needs, developed for use in environments with harsh conditions such as coastal areas or high-salinity zones.



No. Item	Description	Valor
A	Width	465 mm
B	Length	2000 mm
C	Height	25 mm
	Spacing	38 x 38 mm
	Open Area	70%
Weight per Linear Meter: 12 kg		

Standard Colors

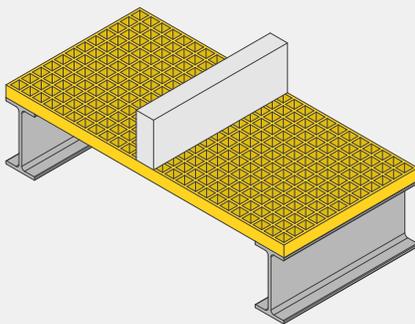


Custom Colors (Based on Volume)



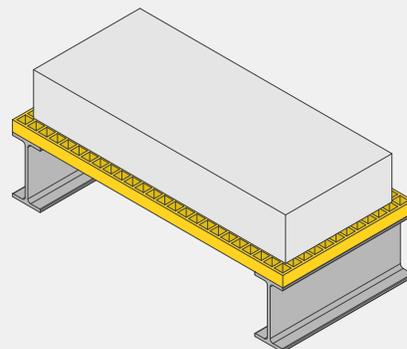
Our designs include the option of anti-slip coating for enhanced safety.

Deflexión & Capacidad de carga lineal rejilla 1"



Grating Height	Standard Mesh	Load	Support Span			
			500	600	750	1000
25	38 x 38	250	0.5	1.3	3.9	-
25	38 x 38	500	0.8	2.6	6.3	-
25	38 x 38	1000	1.6	5.2	-	-
25	38 x 38	1500	2.4	-	-	-
25	38 x 38	2000	3.3	-	-	-
25	38 x 38	2500	4.1	-	-	-

Deflexión & Capacidad de carga uniforme rejilla 1"



Grating Height	Standard Mesh	Load	Support Span			
			500	600	750	1000
25	38 x 38	250	0.5	1.3	3.9	-
25	38 x 38	500	0.8	2.6	6.3	-
25	38 x 38	1000	1.6	5.2	-	-
25	38 x 38	1500	2.4	-	-	-
25	38 x 38	2000	3.3	-	-	-
25	38 x 38	2500	4.1	-	-	-

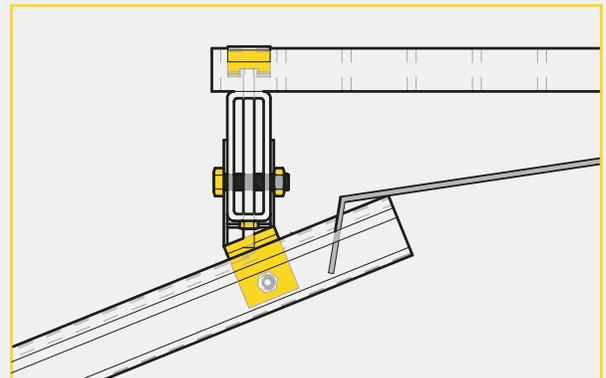
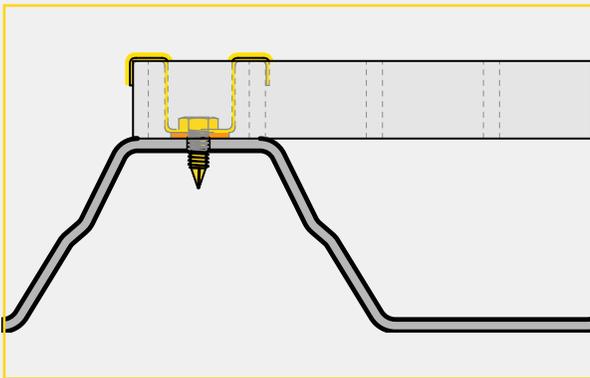
Fasteners / Anchors

Roof Walkways

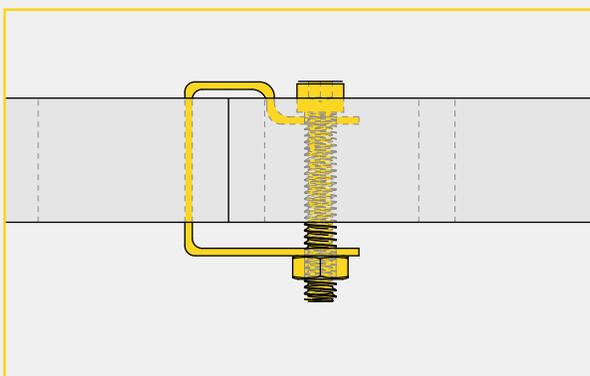
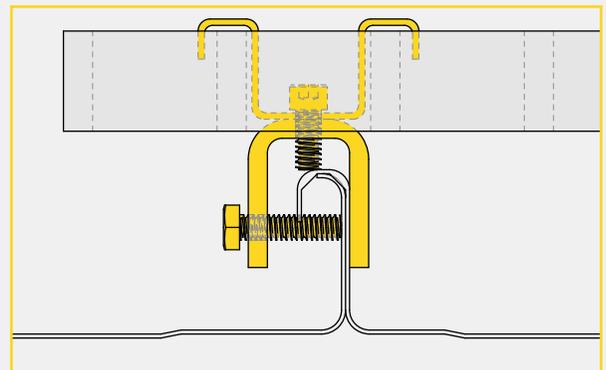
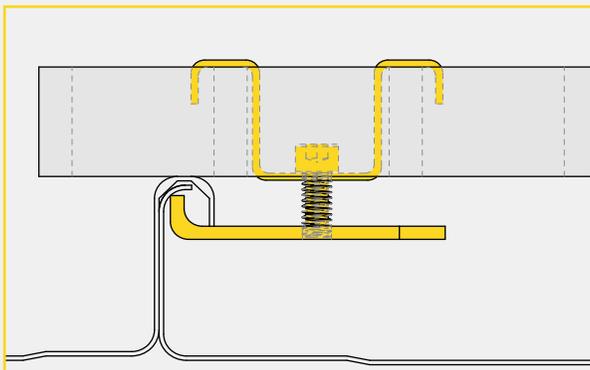
Walkway anchoring and fastening systems are supplied in two configurations: penetrating and non-penetrating. These systems are adaptable to different roof types and geometries, and can be installed either permanently or temporarily, depending on project requirements.

With Molded Grating

Penetrating anchor for permanent installations, where drilling into the product is required to ensure secure fastening.



Non-penetrating anchor for temporary installations, where the fastening hardware is designed to avoid drilling into the product.

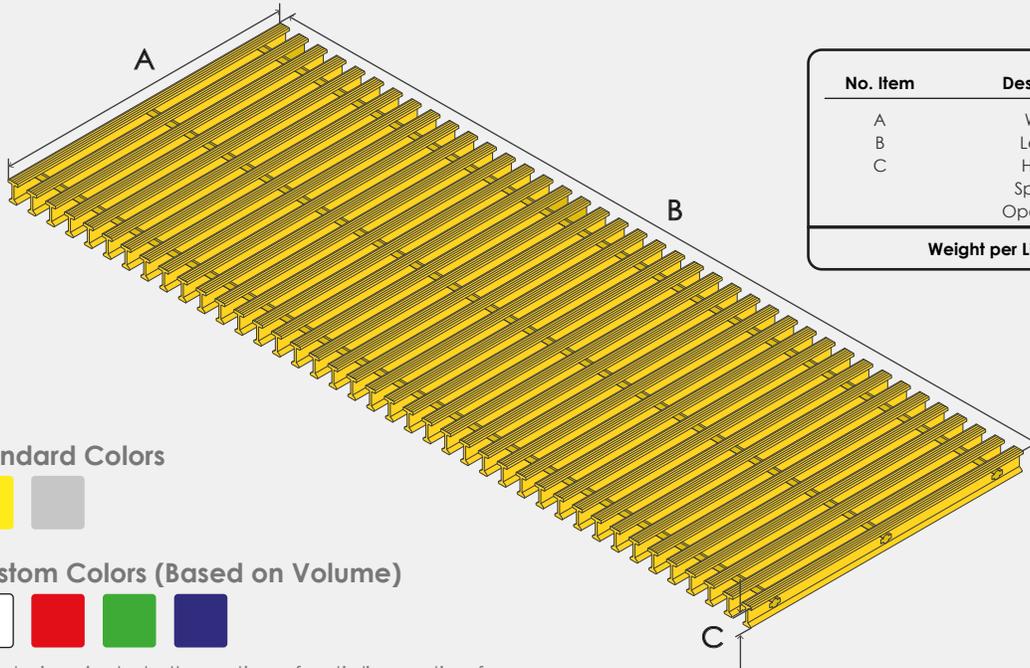


Specifications

Roof Walkways

FRP Grating Pultred Surface

Standardized system adaptable to customer needs, developed for use in environments with harsh conditions such as coastal areas or high-salinity zones.



No. Item	Description	Value
A	Width	465 mm
B	Length	2000 mm
C	Height	25 mm
	Spacing	50 mm
	Open Area	70%
Weight per Linear Meter: 12 kg		

Standard Colors

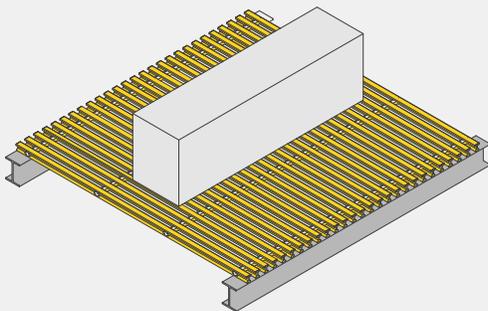


Custom Colors (Based on Volume)



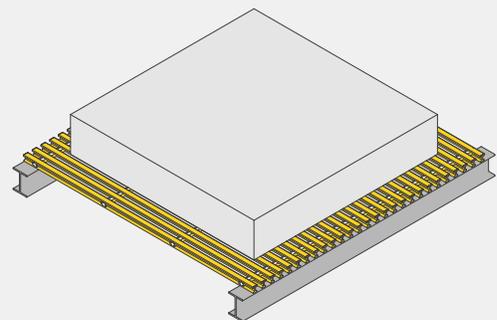
Our designs include the option of anti-slip coating for enhanced safety.

Concentrated Linear Load – 1” Grating



Grating Height	Standard Mesh	Load	Support Span			
			500	750	1000	1250
25	38 x 38	250	1025	459	258	158
25	38 x 38	500	1213	2.6	6.3	-
25	38 x 38	1000	1553	5.2	-	-
25	38 x 38	1500	2.4	-	-	-
25	38 x 38	2000	3.3	-	-	-
25	38 x 38	2500	4.1	-	-	-

Distributed Load – 1” Grating



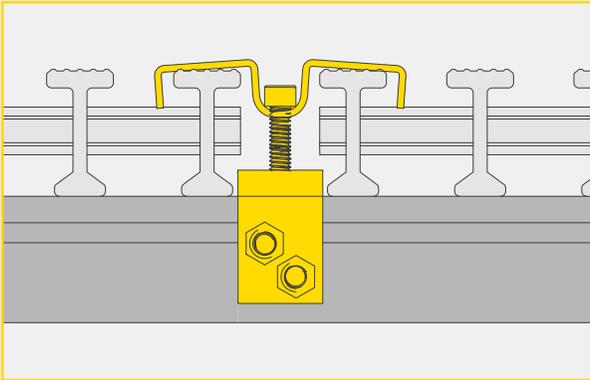
Grating Height	Standard Mesh	Load	Support Span			
			500	600	750	1000
25	38 x 38	250	0.5	1.3	3.9	-
25	38 x 38	500	0.8	2.6	6.3	-
25	38 x 38	1000	1.6	5.2	-	-
25	38 x 38	1500	2.4	-	-	-
25	38 x 38	2000	3.3	-	-	-
25	38 x 38	2500	4.1	-	-	-

Fasteners / Anchors

Roof Walkways

Walkway anchoring and fastening systems are available in two configurations: penetrating and non-penetrating. These systems adapt to different roof types and geometries, whether a permanent or temporary installation is required.

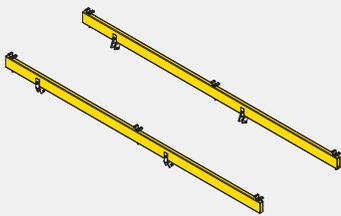
With Pultruded Grating



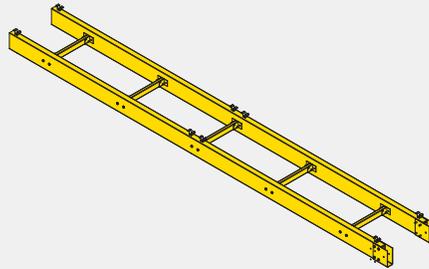
The fastening system used to secure and connect each FRP walkway module to the roof consists of a roof clamp and an 'M'-type clip that attaches the grating to the clamp. These compact and versatile components ensure proper installation on both flat and uneven roof surfaces.

Frame Typologies

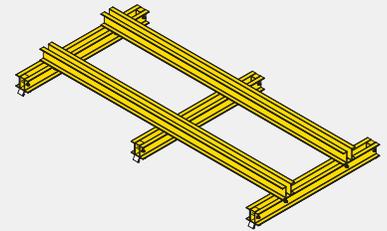
These are reference examples of possible support system configurations for walkways. They are designed and manufactured according to the roof type and/or specific project requirements.



Solution with Side Rails

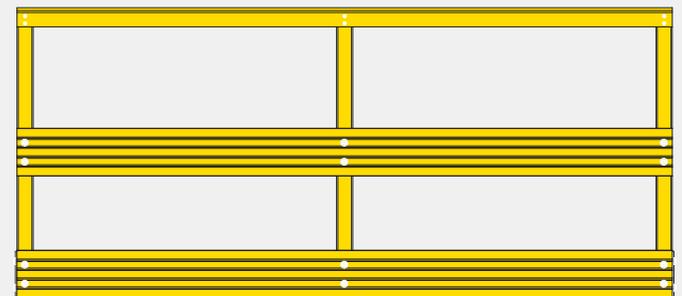


Solution with Intermediate Crossbars



Solution with Extended Crossbars

Handrails



The handrails are manufactured by assembling longitudinal structural profiles with square or circular tubular sections.

Roofing sheets

Compatible Roof Types for Walkway Systems



Corrugated Roofs

FRP walkways can be installed over corrugated metal or fiberglass sheets without compromising their form or performance. Non-penetrating clamp systems conform to the wave pattern, ensuring stable and safe access for maintenance or inspection.



Trapezoidal Roofs

On trapezoidal sheet roofs, walkways are anchored using compatible support brackets that follow the panel geometry. Their high mechanical resistance and non-slip surface enable secure movement even on steep slopes or industrial rooftops.

Solar Panel Maintenance

Applications



Pedestrian Access & Circulation

Applications



Maintenance and Inspection

Applications



HÖRN®

FRP Structural Solutions

Roof Walkways
Product Catalog