

HÖRN

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20
23

Scaffolding
Ladders
Structuras
Bandejas
Cubiertas

Scaffolding
and platforms

Catalogue of
products

www.horfrp.com

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, connecting several black circular location pins. Some of these pins are accompanied by white circular ripples, suggesting a focal point or active location. The path starts in the northwest, moves south, then east, and continues down the eastern coast of South America.

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 HORN, 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.

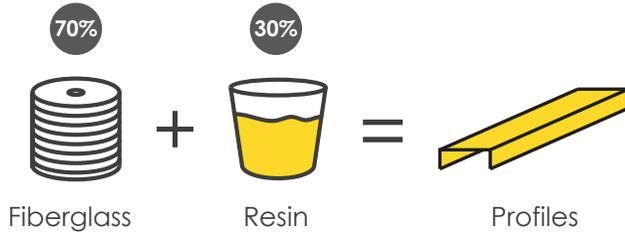
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Glass Reinforced Polyester GRP

¿What is GRP?



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

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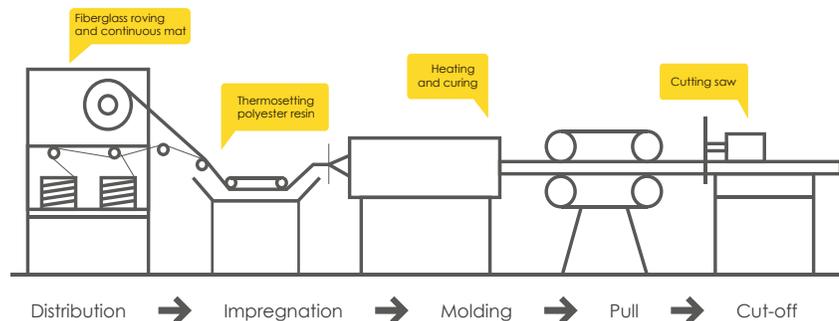
Features of Fiberglass Composites

	GRP	ACERO	ALUMINIO	MADERA
Corrosion resistance	Highest	Low	Moderate	High
Strength	High	High	Moderate	Baja
Weight	Bajo	High	Low	Moderate
Electrical conductivity	Lowest	High	High	Low
Thermal conductivity	Lowest	Alta	Highest	Low
Electromagnetic Transparency	Highest	Baja	Moderate	High
Maintenance Costs	Bajo	High	Moderate	High

How to do it?

Process

Pultrusion



Andamios & plataformas

FRP | PRFV



Our main objective is to ensure the security and efficiency of our products. We designed the scaffolding line with the objective of meeting all the industry's specifications while maintaining the highest quality standards. The modular design of this product combines durability, flexibility, and ease of assembly.

Product configuration

Scaffolding and platforms



Access ladder

The ladder rails are crafted using 3.2" GRP profiles, and the steps are made of aluminum, featuring slip-resistant surfaces. The ladder is securely attached to the scaffold through clips onto the top transoms.



Working deck with trap door

The working deck is constructed with 3" x 1" GRP rails, and its surface is made of aluminum. The platform also incorporates a trap door for easy access to the upper level.

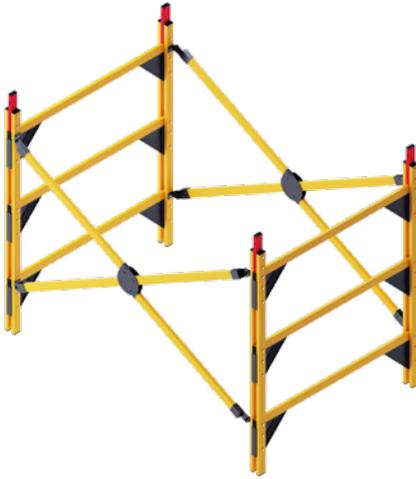


Working deck

The working deck is constructed with 3" x 1" GRP rails, and its surface is made of aluminum. This platform allows for continuous movement during work.

Product configuration

Scaffolding and platforms



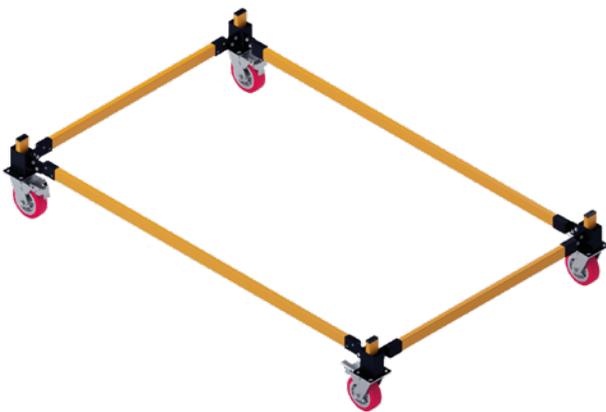
Base level

The base level is constructed using 3" x 1" GRP profiles. Each section is constituted by two side frames and two crosshead braces, allowing stacking of up to 10 sections and reaching a maximum height of 15m.



Upper-level

The upper level is constituted by two side frames and a handrail security system to ensure the safety of the workers and prevent possible accidents. It is constructed using 2" x 1" GRP profiles and includes a kick plate.



Self supporting

The self-supporting component was designed to support each tower of the scaffold. It is fabricated with 2" x 1" GRP profiles and features 6" wheels on each side that securely dock into the component.

Aluminum types

Scaffolding and platforms

Compact scaffold

Our compact scaffold is made from top-quality aluminum, is specifically crafted for rental tasks and daily labor, allowing workers to move the structure with minimal effort. It is manufactured in modular sections for easy installation and can be adjusted to heights ranging from 1.50m to 5m.



Load capacity
500lb
(227kg)

Limit
1
Worker

Reach
4.1m
(3 Sections)

 **50%**
Lower than
the traditional

Aluminum types

Scaffolding and platforms

Commercial scaffold

Our commercial scaffold, constructed from top-quality aluminum, is specifically designed for any task that necessitates the presence of two workers simultaneously. It is ideal for construction, maintenance, and renovation. His modular and adaptable design allows him to adjust his height to reach up to 15 meters, making him a versatile tool for every sector.



Load capacity
500lb
(227kg)

Limit
2
Workers

Reach
15m
(10 Sections)

50%
Lower than
the traditional

Glass Reinforced Polyester types

Scaffolding and platforms

Compact scaffold

Our compact scaffold is the ideal solution for daily labor and activities that require easy movement of the structure. It is manufactured with glass-reinforced polyester (GRP), a light weight and durable material. His modular design allows for easy assembly and adjusts in height from 1.50m to 5m.



Load capacity
500lb
(227kg)

Limit
1
Worker

Reach
4.1m
(3 Sections)



Non-conductive

50kv
dielectric strength

Glass Reinforced Polyester types

Scaffolding and platforms

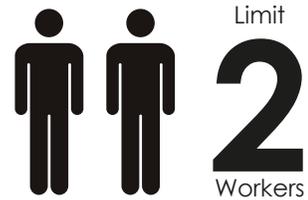
Professional scaffold

Our professional scaffold, which has been certified under ANSI/ASSP 10.8-2019, NTC1641, and NTC 1642 normative, is ideal for any type of work that necessitates the presence of two workers simultaneously. It has a capacity of 500 lbs and is manufactured with glass-reinforced polyester (GRP), a light-weight and durable material. His modular construction facilitates quick assembly and allows for height adjustments ranging from 1.50 meters to 15 meters.



Load capacity

500lb
(227kg)



Non-conductive

50kv
dielectric strength

Glass Reinforced Polyester types

Scaffolding and platforms

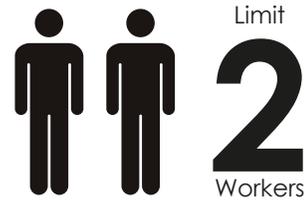
Dielectric scaffold

Our dielectric scaffold is ideal for performing secure operations on electrical lines in the medium tension range (1kV to 57.5kV). Crafted with precision, it incorporates 90% glass-reinforced polyester (GRP), a non-conductive material with exceptional dielectric strength exceeding 25 kV and a consistently low leakage current of less than 90. As a non-thermal conductor, it combines a lightweight design with the highest mechanical resistance, making it a reliable choice for various industrial applications. Engineered for versatility, our scaffold reaches heights up to 15m, supporting loads of up to 500lb, proving its reliability in demanding work environments.



Load capacity

500lb
(227kg)



Non-conductive

50kv
dielectric strength

Glass Reinforced Polyester types

Scaffolding and platforms

Modular platforms

Our modular platforms are crafted with adaptability in mind, featuring sections that can be customized to various geometries and shapes. Constructed using glass-reinforced polyester (GRP), these platforms serve as non-thermal conductors, offering a lightweight design, unparalleled mechanical strength, and resistance to corrosion.



Load capacity
500lb
(227kg)

Limit
2
Workers

Reach
4.1m
(3 Sections)



Non-conductive

50kv
dielectric strength

Accesorios para la base

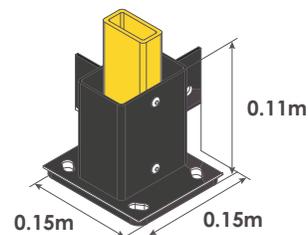
Scaffolding and platforms

Baseplate support



This support is designed to work with the scaffold without movement, allowing work at the top reach in the optimal position, provided that the scaffold is placed as indicated in the instructions.

Base plate

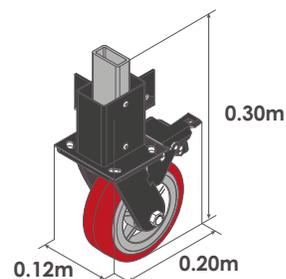


base wheel support



This support, equipped with four 6" wheels, is designed to move the scaffold in place without disassembly and can support up to four levels.

Wheel 6" (4)

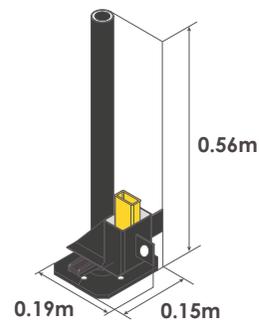


Leveling base support



This leveling base support is ideal for working on uneven terrain, as it can be adjusted for leveling on each side.

Leveling base (4)



Servicing and restoration

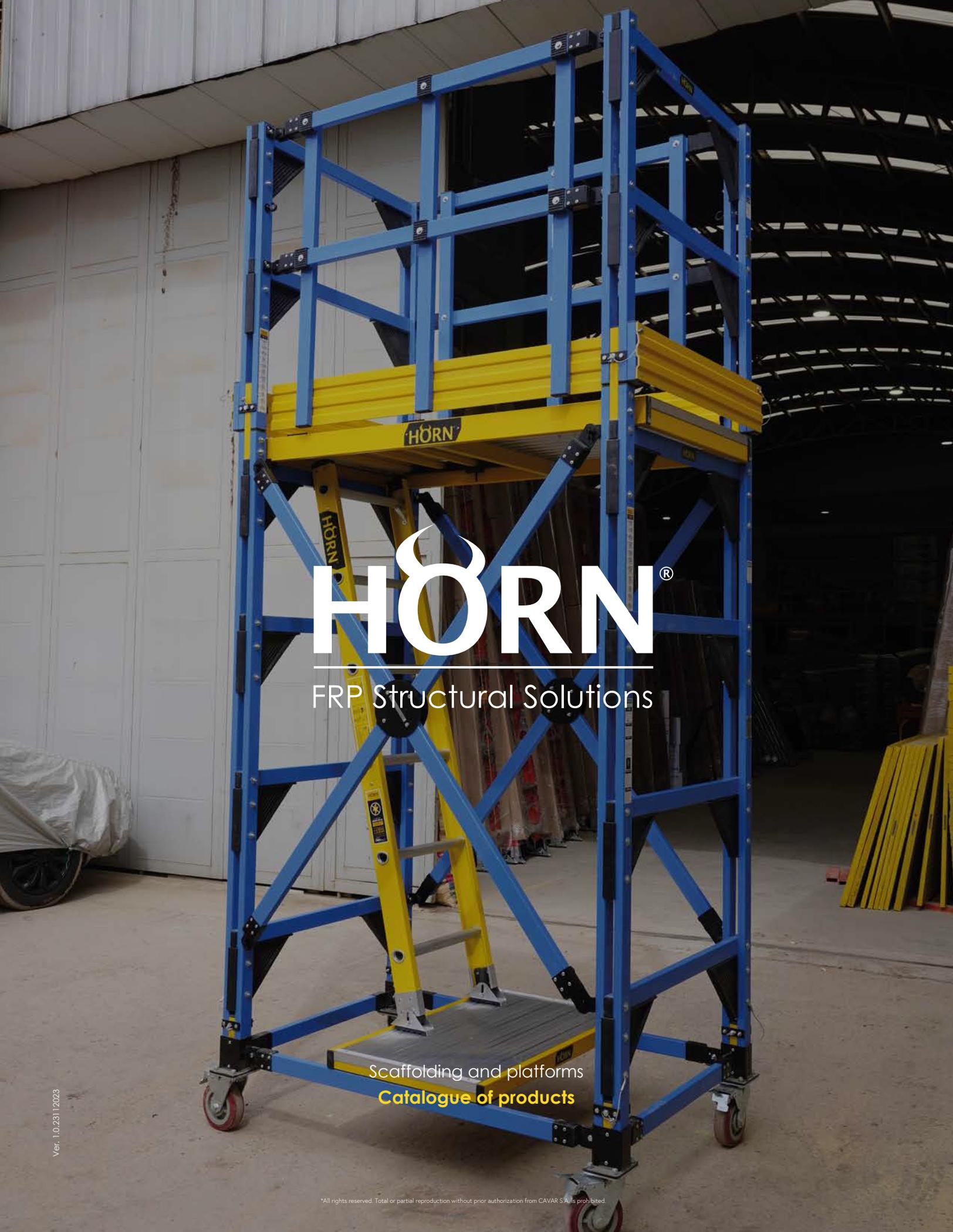
Applications



Accessing the site for work is challenging

Applications





HÖRN®

FRP Structural Solutions

Scaffolding and platforms
Catalogue of products