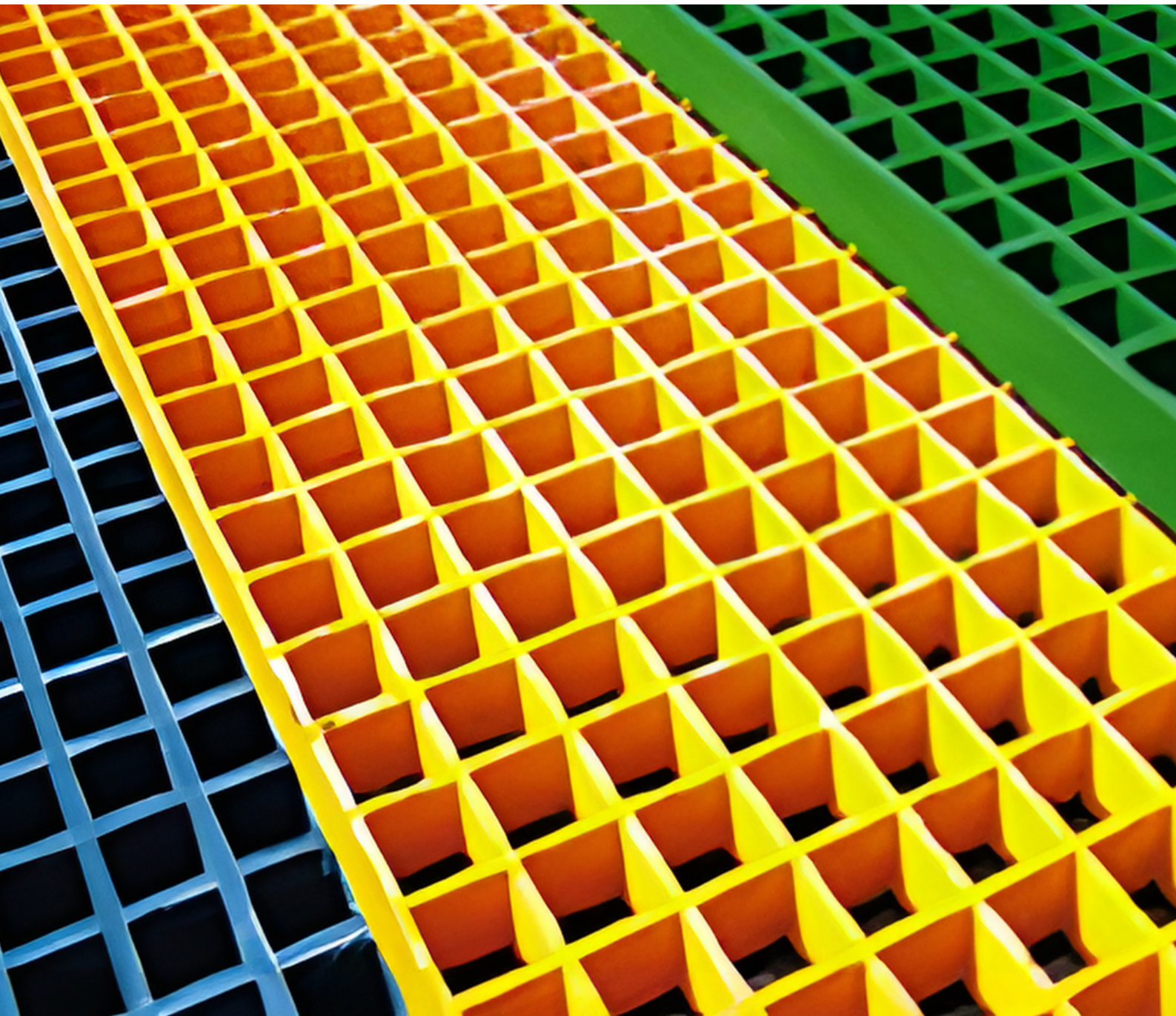




Altra Universe

----- **General Trading** -----



About Our Company



"Anything worth having takes time."

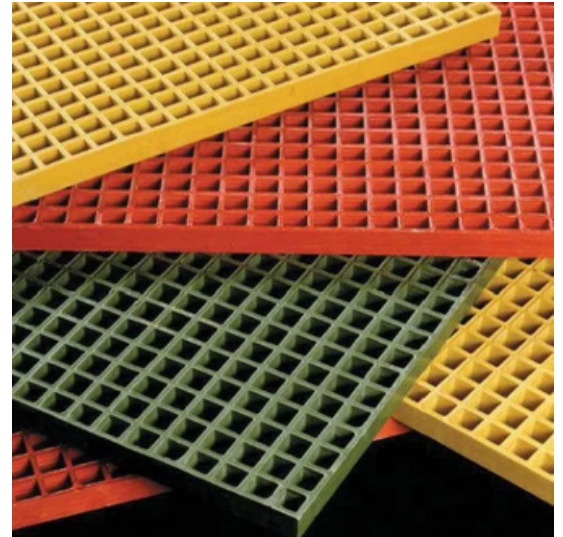
Altra Universe General Trading is a well-established and dynamic company specializing in the export of high-quality FRP (Fiberglass Reinforced Plastic) products and iron & steel solutions.

At Altra Universe, we've built our success on a strong foundation of expertise. Our team comprises industry veterans and professionals who possess an in-depth understanding of the materials, products, and markets we serve. We're passionate about what we do and continually strive to stay at the forefront of industry trends and innovations.



FRP GRATINGS

FRP Grating is a structural flooring material composed of a matrix of fiberglass reinforcement and a polymer resin binder. It is manufactured through a pultrusion process, where continuous glass fibers are saturated with resin and then cured to form rigid grating panels. The resulting product is durable, corrosion-resistant, and possesses various mechanical properties suitable for a wide range of industrial and commercial uses.



Advantages Of FRP Gratings

- 1) Corrosion Resistant
- 2) High Strength-to-Weight Ratio
- 3) Fire Retardant
- 4) Slide Resistant
- 5) Non-Conductive
- 6) Low Installation Cost
- 7) Long Service Life
- 8) Superior Ergonomics
- 9) UV Protected

Application Area

- 1) Trench Cover
- 2) Platforms
- 3) Stair Treads
- 4) Walkways/Walk Paths
- 5) Cooling Tower Area
- 6) WTP Area
- 7) Rooftop Walkways
- 8) Assembly Lines Greenhouse



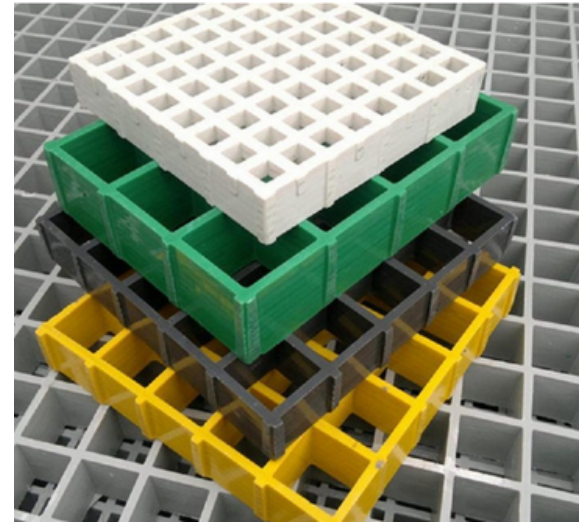
Comparison Between FRP/GRP Grating and Metal Grating

Description	FRP/GRP Grating	Hot-Dip Galvanized	Stainless Steel
Strength to Weight Ratio	Excellent	Average	Average
Life Span	Excellent	Good	Very Good
Life Cycle Cost Effectiveness	Excellent	Good	Good
Chemical Resistivity	Excellent	Good	Excellent
Electrical Non-Conductivity	Excellent	Poor	Poor
Rust Proof Features	Excellent	Average	Excellent
Handling	Very Easy	Difficult	Difficult
Installation Cost	Very Low	High	High
Anti Skid	Available	Not Available	Not Available
Colour Selection	Available	Not Available	Not Available



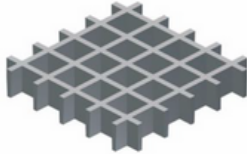


MOULDED GRATING

Molded grating is manufactured through a molding process utilizing a closed mold. In this method, a mixture of thermosetting resin (typically polyester, vinyl ester, or phenolic) and continuous fiberglass rovings is carefully prepared. This resin-fiberglass composite is then placed within a closed mold designed with the desired grating pattern. Pressure is applied to consolidate the materials, and the grating panel cures within the sealed mold. After curing, the molded grating is demolded, trimmed to size, and undergoes quality checks before being prepared for use. This process is ideal for creating corrosion-resistant and lightweight grating panels.



Technical Specification

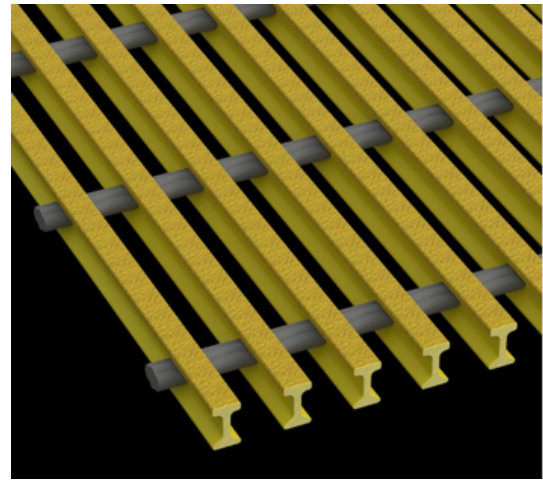
Mesh Size	38x38 mm , 40x40 mm , 50x50 mm
Height (H)	38 mm , 40 mm , 50 mm
Sheet Size	1220x3660 mm (Standard) , & Customized is also Available
Surface	Concave , Smooth , Gritted , Covered
Photos	  

Note :- Customized Size is also available as per the customer requirement.



PULTRUDED GRATING

Pultruded grating is produced using a pultrusion process involving a die. In this technique, continuous glass fibers are pulled through a resin bath, where they become impregnated with a thermosetting resin (commonly polyester, vinyl ester, or phenolic). The resin-soaked fibers are then drawn through a heated die, where they are cured and shaped into the desired grating profile, often characterized by a grid or lattice pattern.



The resulting pultruded grating exhibits exceptional strength, corrosion resistance, and a lightweight design. This method is particularly suitable for heavy-duty applications and environments requiring high-performance grating.

Technical Specification

Height (H)	25 mm , 30 mm , 38 mm
Sheet Size	Customized
Photos	Two photographs of pultruded grating. The left photo shows a yellow grating with a grid pattern. The right photo shows a green grating with a grid pattern, with a white rectangular object placed on top of it for scale.

Note :- Customized Size is also available as per the customer requirement.



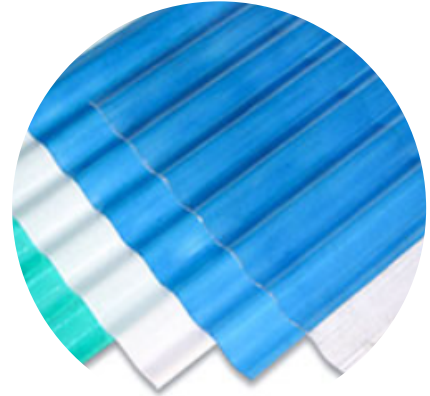
OUR PRODUCT RANGE



FRP Cable tray



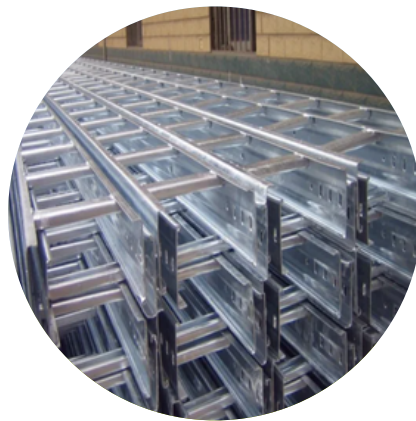
FRP Pole



FRP Roofing Sheet



Galvanized Pole



Galvanized Cable tray

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