

ANULON® FRP



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ANULON Fiber-reinforced plastic (FRP) is a composite material made up of polymer that is supported with fibers for added strength. It is commonly used in industries such as aerospace, construction and marine to build structures that require added resistance to force in order to prevent deformation. Fiber-reinforced plastic is useful in terms of corrosion protection because it helps in preventing corrosion due to force application and deformation such as stress corrosion cracking.

Fiber-reinforced plastic may also be known as fiber-reinforced polymer and Glass-reinforced Plastic (GRP), they are all the same.

Advantages of FRP

Fiber-reinforced plastics are quite an advantageous building material with benefits that are both physical and cosmetic. So many industries are turning to FRP products once they realize the long-term fiscal savings.

Fiber-reinforced plastics first gained exposure as a material for the manufacturing world because of their strength versus other materials. Materials such as regular polymers, thermoplastics, and even metals like aluminum and steel simply couldn't compare. FRP products offer the same strength but also boost elasticity, durability, and flexibility. It also does this while weighing only a fraction of its traditional counterparts. In addition to those benefits, the amount of elasticity and strength can even be adjusted as needed. This makes FRP a very adaptable material that can be used across many industries for many different applications with ease.

FRP also boasts exceptional resistance to several factors including impact, extreme temperatures, corrosion, and more. Its non-magnetic properties are also the reason for the dominance of fiber-reinforced plastics in aerospace and medical imaging equipment.

In addition to the durability and exceptional lifespan of FRP materials, they also can be made to be aesthetically appealing. Since FRP experience virtually no shrinkage during the molding process it makes for consistent results during a production run.

FRP can be painted while in the mold using a gel coat that gives a Class A glossy finish right out of the mold. Since the material bonds to the gel coat so well, paint chipping, cracking, or flaking is a non-issue. The paint will stay shiny and retain color vibrance over an exceedingly long period, unlike traditional painted materials.



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ANULON[®] FRP



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Fiber-reinforced plastic (FRP) is available in various shapes and sizes and is used in various industries because of its physical strength and non-corrosive properties.

Some of the most commonly used FRP items are as follows:

FRP Tanks and FRP Coated Tanks

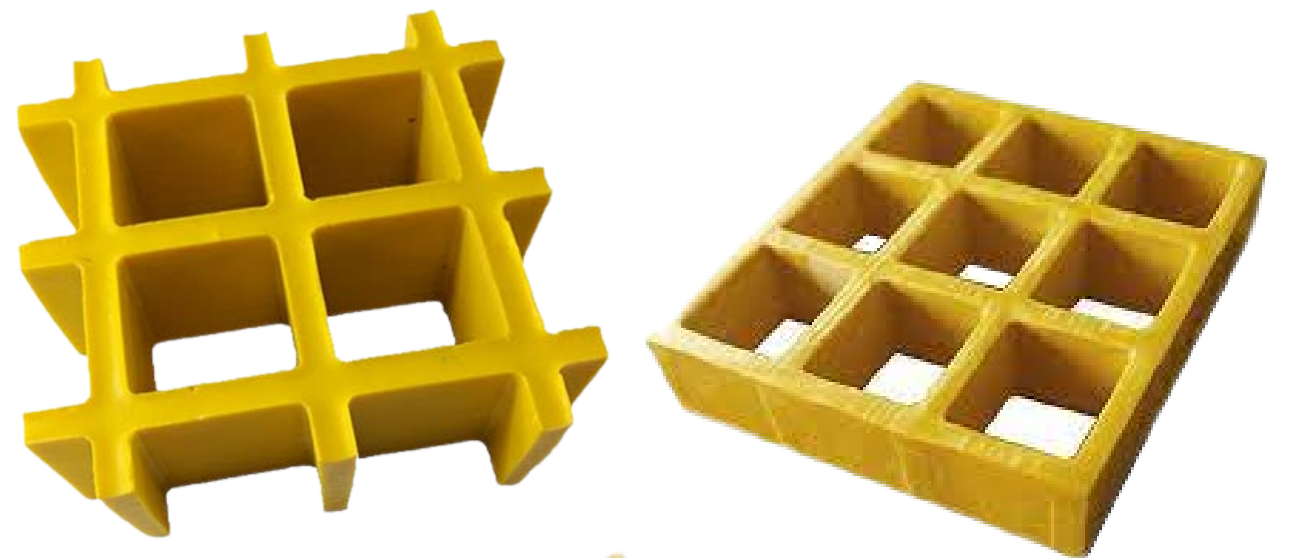
Due to FRP's excellent chemical and corrosion resistance properties and durabilities, many metal tanks are coated with FRP to give them a very long-lasting life and be economical as well.



FRP PULTRUDED GRATINGS

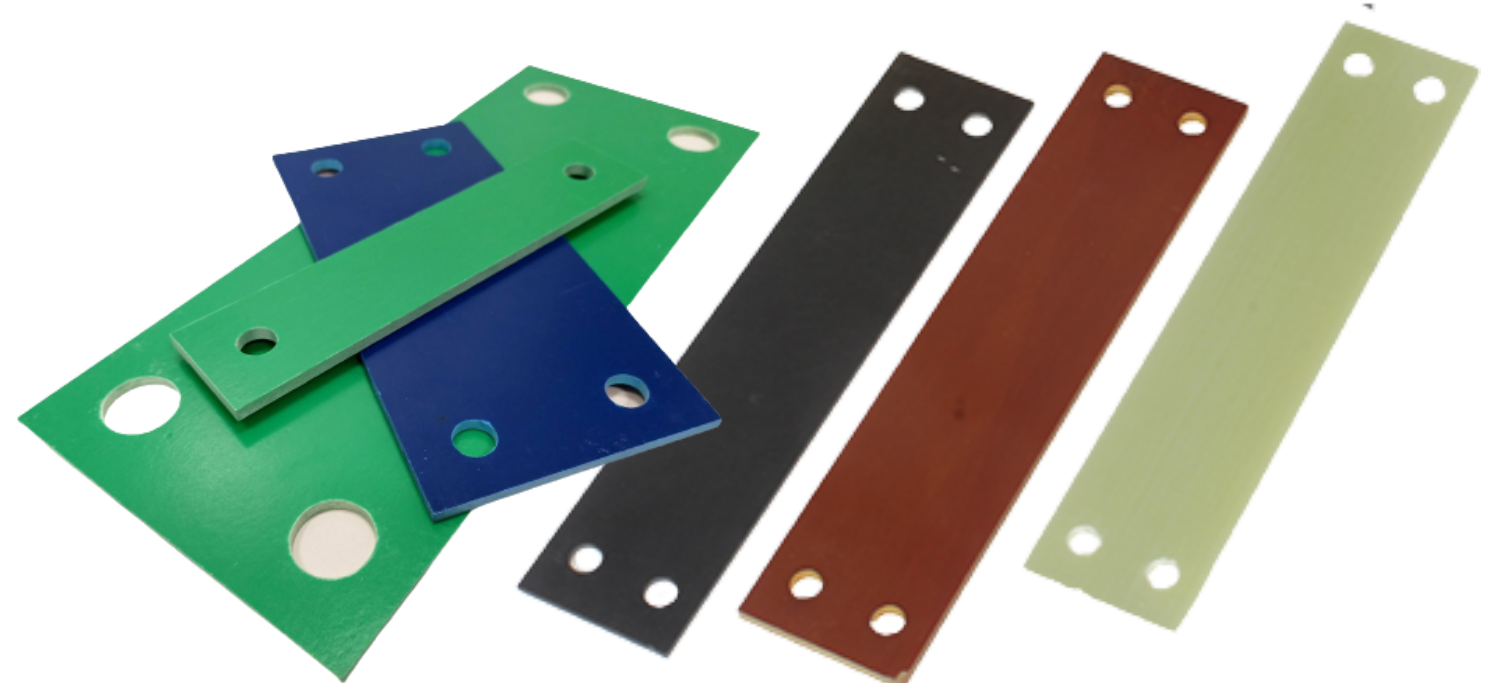
ANULON FRP pultruded gratings are available in various different profiles and can be made as per customized profiles & dimensions as per the required application.

- MESH in various shapes and sizes for pathways
- Square Bar
- Ladder support bar
- L Shaped Support Bars
- Round Solid Bar
- Round Hollow Bars
- C Shaped Sections
- T Shaped Profiles
- and many more



FRP Plates / leaf springs

Fiber reinforced-polymer composites have been utilized as a substitute for metallic materials in many weight-critical components in aerospace, automotive, and other engineering fields owing to their low density and better strength to weight ratio and modulus to weight ratio



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