

Fiberglass Reinforced Polyester (FRP) Enclosures

Heavy Duty, Rigid, Industrial Enclosures for Harsh Applications

Used as an Alternative to 300 Series Stainless Steel

Fiberglass Reinforced Polyester (FRP) Enclosures — FRP is the most popular nonmetallic enclosure material used across multiple industries primarily for applications in harsh or corrosive environments, indoors or outdoors.

Allied Moulded's FRP enclosures offer a cost-effective alternative to stainless steel for a number of reasons. One reason is due to compression thermoset, Resin Transfer Molding (RTM), and hand lay-up manufacturing processes of FRP. This variety allows for a wide range of enclosure sizes — from a small junction box up to a walk-in, free-standing enclosure. With a large selection of sizes, there are many applications that benefit from Allied Moulded's FRP enclosures. Water treatment, oil and gas, petrochemical, and power generation are just a few of the industries using FRP enclosures to protect critical system components.

FRP is considerably lower in weight, thus reducing installation and shipping costs. Although it may be lower in weight, it still has the rigidity and durability to compete with its steel counterparts. Chemical resistance, UV resistance and electrical non-conductivity are a few more reasons that Allied Moulded's FRP enclosures can outperform stainless steel.

Once you compare the cost, quality and performance of our fiberglass reinforced polyester products, you will see why Allied Moulded Enclosure Products has the superior enclosure solutions!



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**ALLIED MOULDED
ENCLOSURE PRODUCTS
(INDIA) Pvt. Ltd.**

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Features of Allied Moulded FRP:

- Resists a broad range of chemicals, unaffected by moisture and provides resistance to UV rays.
- Lighter weight, lower shipping costs and easier to install in wall or pole mounted applications.
- Nonconductive and is an insulator, provides a safe barrier and protection for the general public.
- Provides sufficient impact resistance and will maintain a sealed closure for electrical equipment.
- Molded in color, no painting or coating required.
- Lower installation cost and longer product life (~10 times).
- Transparent to radio waves and EMI/FRI transmissions, used for radar and antennae enclosures.
- Easier to modify; for required holes or electrical service entry, easier to punch, drill or saw with lower associated costs. Also easier/safer to modify or repair without need for arc welding in hazardous areas.
- Material has no residual scrap value, enclosure control panels are less susceptible to vandalism.

	Fiberglass	Stainless Steel	Carbon Steel
Corrosive Resistance	Excellent	Excellent	Poor
Chemical Resistance	Excellent	Excellent	Poor
Relative Cost	Low	High	Low to Moderate
Drilling, Punching & Cutting	Very Easy	Extremely Hard	Hard
Dielectric Strength	Electrical Insulator	Electrical Conductor	Electrical Conductor
Weight	Light	Heavy	Heavy



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