



SPECIALTY PRODUCTS & MODIFICATIONS

Allied Moulded has worked hard to be your source for fast, no-hassle modifications. With complete modification services, the need for inconvenient secondary handling of your enclosure is eliminated, saving you time and money. Complete modification services include but are not limited to:

- Holes and cutouts
- Polycarbonate viewing windows
- EMI/RFI shielding
- Factory supplied silk screening
- Molded-in color matching

Because of our dedication to providing you with outstanding service, we have the lowest volume requirements on custom work in the industry and guarantee quick delivery, often in less than three weeks from receipt of your order!



Scan to learn more



Computer-Controlled CNC

We incorporate computer controlled manufacturing equipment into our operation which assures that modifications such as specialty holes and cutouts are exact to your specifications each time you order.

Custom Holes & Cutouts

Custom holes and cutouts allow for conduit entry or device mounting to meet the needs of any application. Application cutouts include:

- Pushbuttons
- Cable entry
- HMI components
- Viewport / viewing windows

EMI/RFI Shielding

Electromagnetic waves generated by electronic devices may have a negative effect on other similar devices when used in close proximity to one another. These effects, called Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) may cause malfunctions in electronic devices.

EMI/RFI shielding provides high-level protection against electromagnetic and radio frequency interference.

Silk Screen Printing

Silk screen printing is a practical, professional way to identify corporate identity or enclosure function. Print business or device names, identify important component controls, or display important logos. We simplify the process and will accommodate your application requirements.

Custom Color Matching

Modify your enclosures with custom colors, matched from a variety of specific Pantone or RAL numbers.

Stocked Color Program

AM & AM-R series enclosures come available in four standard colors including; Blue, Red, White, and Yellow at a reduced lead time and with no minimum order quantities! Contact us or visit our website for more details.

Custom Panels

Available custom metal work includes holes and cutouts on either back and hinged front panels.

www.alliedmoulded.com

SPECIALS & MODIFICATIONS REQUEST FORM

For modification orders, please photocopy and complete this form, then return to Allied Moulded via mail or fax to 419-636-2450.

Date: _____ Part Number: _____ Quantity: _____

Name: _____ Company: _____

Address: _____

City: _____ State: _____ Zip: _____

Email: _____ Phone: _____

Size

H _____ x W _____ x D _____

Cover

Flush Raised Screw cover Hinged cover Hinged on short side

Latching Options

Snap latch Twist latch 3-point

Panels

Back panel required: Yes No Size: H _____ x W _____
Back panel material: Carbon steel Aluminum Fiberglass Galvannealed
Hinge front panel required: Yes No
Side Panel required: Yes No Size: H _____ x W _____

Windows

Window required: Yes No Size: H _____ x W _____
General location of window: _____

Molded-In Color

Standard Grey White Orange
 Blue Black Red
 Yellow Green
Other (please specify): _____

Other Modifications

Holes/Cutouts _____ Number; Location: _____
 Silk Screening
 EMI/RFI Shielding

Additional Information/Notes



Scan to fill out our online modifications quote form!

Submit request to: Allied Moulded Products, Inc. Fax to: 800-237-7269

For assistance or questions, call Allied Moulded at 800-722-2679 or visit www.alliedmoulded.com.



Choosing the right enclosure material for your application

Allied Moulded offers a variety of fiberglass reinforced polyester (FRP) and polycarbonate enclosures to fit your application requirements. We understand the type of enclosure is just as important to you, as it is to the protection of your equipment. We often receive questions about the best enclosure material to use. Material selection depends on several factors, including application, environment, price, aesthetics, and enclosure size.

Application

The first thing to consider when purchasing an enclosure is the application location. Where will the enclosure be used? Whether the enclosure can be used indoors or outdoors can have a major impact on the type of enclosure that will best suit your needs. Fiberglass (FRP) enclosures are often used in outdoor applications due to excellent ratings in UV protection, aesthetic protection (from yellowing), and other factors, all while providing a cost-competitive alternative to stainless steel. Polycarbonate enclosures are a good alternative to carbon steel, offering a lightweight, impact-resistant solution for indoor and outdoor applications. Both enclosure options offer long-lasting protection to interior and exterior elements and provide the security required by the application.

Chemical & Corrosion Resistance

Enclosures may be required in applications where hazardous chemicals or materials are present. Both materials offer protection against corrosive agents, with fiberglass (FRP) performing better in environments with solvents and strong alkalis. Typically, fiberglass (FRP) remains a good alternative to stainless steel, while polycarbonate remains a good alternative to carbon steel in harsh environments. Examples of corrosive environments may be waste water treatment plants, oil refineries, or livestock farms. Other factors such as dirt, dust, oil, water, ice, and snow must also be

taken into consideration. See the "Corrosion Resistance Guidelines" below for more detailed information. Visit www.alliedmoulded.com for a comprehensive corrosion resistance guide.

Price

Whether you're looking for just a few, or a few hundred enclosures, price is often a determining factor when considering which enclosure type to purchase. Fiberglass (FRP) enclosures often cost more than polycarbonate enclosures, but both offer intrinsic value when compared to steel enclosures over time. Enclosure users should consider all factors when deciding if the enclosure material and price point they choose will last in all expected conditions.

Aesthetics

We understand the way an enclosure looks is just as important as the way the enclosure performs. Engineers at Allied Moulded take pride in the development of aesthetically pleasing enclosures, while maintaining all required NEMA ratings. All fiberglass (FRP) and polycarbonate enclosures come in the standard RAL 7035 light gray color.

Sizing

The size of your enclosure is often important to your particular project, therefore sizing becomes a factor in the type of material to use. Allied Moulded polycarbonate enclosures are currently available up through an 18" size, thus if a larger enclosure is needed, a fiberglass (FRP), compression molded, or RTM enclosure material may be required.

See pages 3 and 7 for additional performance comparison of enclosure materials.

Corrosion Resistance Guidelines

	Solvents	Alkalis	Mild Acids
Examples	Cleaning Solvents Carbon Tetrachloride Isopropyl Alcohol Perchloroethylene Toluene Xylene	Ammonium Chloride Ammonium Nitrate Calcium Hydroxide Calcium Hypochlorite Magnesium Hydroxide Sodium Hypochlorite	Aluminum Chloride Boric Acid Calcium Chloride Potassium Nitrate Sea Water Sodium Nitrate Zinc Chloride
Recommended	304 SS 316 SS Compression Fiberglass Aluminum	304 SS 316 SS	Compression Fiberglass Gelcoat Fiberglass Polycarbonate 304 SS 316 SS
Satisfactory	Painted Carbon Steel Gelcoat Fiberglass	Polycarbonate Gelcoat Fiberglass Compression Fiberglass	Painted Carbon Steel
Limited Use	Polycarbonate	Painted Carbon Steel Aluminum	Aluminum

Note: This chart is only intended to be used as a general guideline for applying "typical" metal and nonmetal enclosures in chemical environments. Allied Moulded Products, Inc. recommends specific material compatibility tests for the most accurate application of enclosures. Please contact Allied Moulded customer service for specific requirements.