



## of CORROSION RESISTANT F.R.P.\*

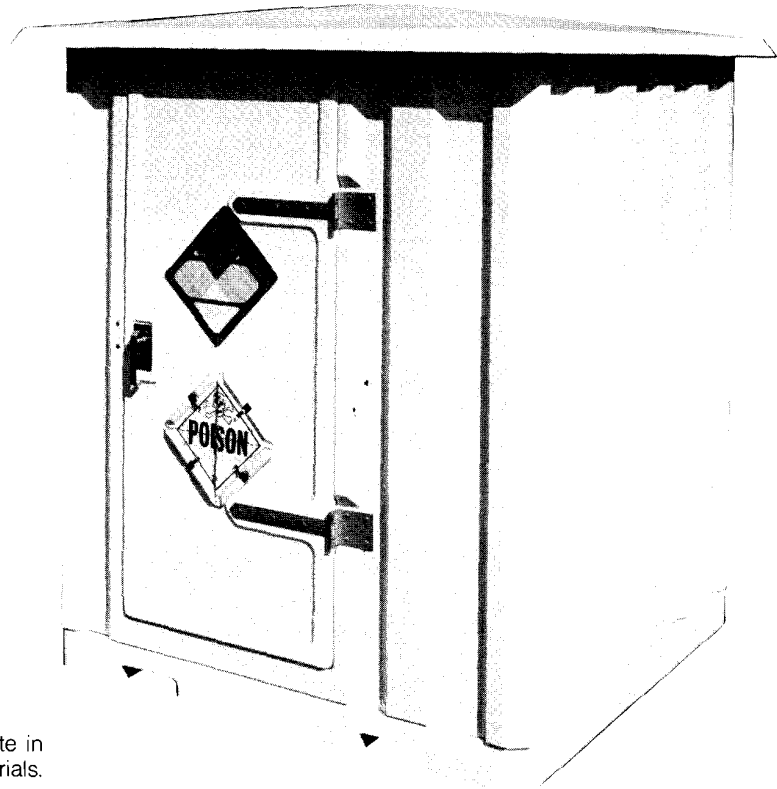
\*Fiberglass Reinforced Polyester

PLASTI-FAB versatile F.R.P. shelters provide the ultimate in year-round protection for the storage of hazardous materials. The durable construction requires virtually no maintenance, is resistant to corrosion by most chemicals and is not susceptible to rust, or decay. A variety of options (see back page) permits your shelter to be as basic or complex as needed to meet site requirements and government material handling standards.

The basic hazardous materials shelter includes an integral floor with collection sump and grating, raised door sill and tight sealing door. Shelters up to 10 feet wide can be constructed as a one piece unit with no seams or joints to separate, delaminate, or otherwise break down to permit leakage. Ribbed wall construction, stainless steel hardware and insulation are all standard. Shelters meet NEMA 3R specifications.

### DESIGN FEATURES:

- Fiberglass reinforced polyester construction assures against corrosion by most hazardous chemicals. There are NO embedded wood or metal parts to decay or rust which may result in costly repairs. A heavy surface coat of resin inside and out is used to assure maximum corrosion resistance.
- Ribbed exterior walls, built over a minimum 1 inch thick core, provide high strength.
- Many additional design features of Plasti-Fab Hazardous Material Storage Shelters are described on the next two pages. Options are listed on the back page. For special requirements not mentioned in this brochure, please contact the factory.



Corrosion in hazardous chemical storage areas can be severe and difficult to combat. Acids are most often the culprit but salts and other chemicals can be as bad. Steel shelters with exotic paint (such as epoxy) can have problems, such as pinholes or chips that admit destructive corrosion that spreads beneath the surface and may not be detected until far advanced. For hazardous material storage shelters, the prudent approach is to use corrosion resistant materials throughout. Polyester reinforced with fiberglass has proven an excellent corrosion resistant material in industrial use for other thirty years.

Plasti-Fab does not generally recommend fire retardant resins for hazardous material storage shelters because of their reduced mechanical properties and the dramatic increase in toxic smoke generation when they burn. Many hazardous materials will not burn anyhow. When fire is a potential hazard, Plasti-Fab can supply fire suppression equipment and of course shelters using a fire retardant resin are available.

If fire should break out within a Plasti-Fab ventilated shelter equipped with a Halon fire suppression system, the flames will be extinguished quickly with no resulting toxic fumes. In a non-ventilated shelter the tight fitting door prohibits the entry of fresh air, thus starving the fire from lack of oxygen.

Plasti-Fab®

QUALITY PRODUCTS FOR INDUSTRY AND GOVERNMENT

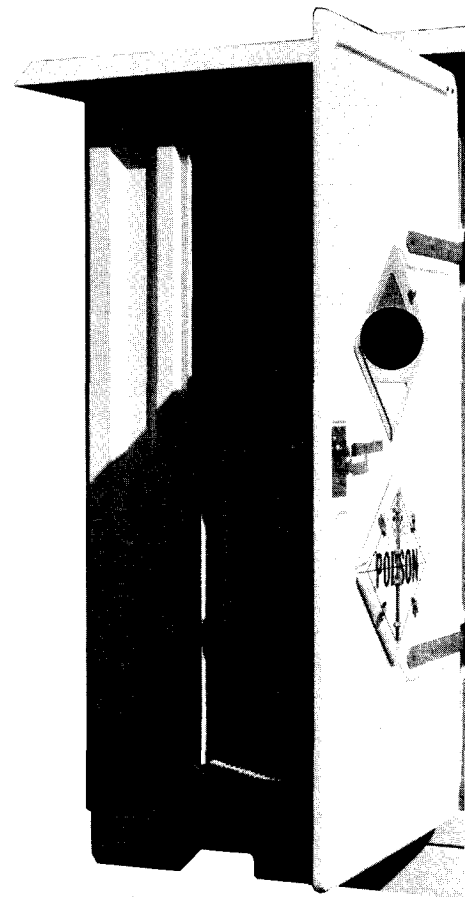
## FEATURES of PLASTI-FAB HAZARDOUS MATERIAL STORAGE SHELTERS

Fiberglass Reinforced Polyester (FRP) construction assures against corrosion by most hazardous chemicals. There are no embedded wood or metal parts that can decay or rust thus requiring costly repairs.

Shelters will withstand 125 mph (200 km/hr) winds and a snow load of at least 40 psf or higher if required.

Rain drip visor reduces the possibility of water entering when the door is opened.

A placard holder is provided for National Fire Code (NFPA) warning placards.



The door has a 3-point latch, heavy duty stainless steel hinges, and full gasket that closes against a coaming to assure a tight seal. Stainless steel door hardware minimizes corrosion. A padlock under the handle makes tampering difficult.

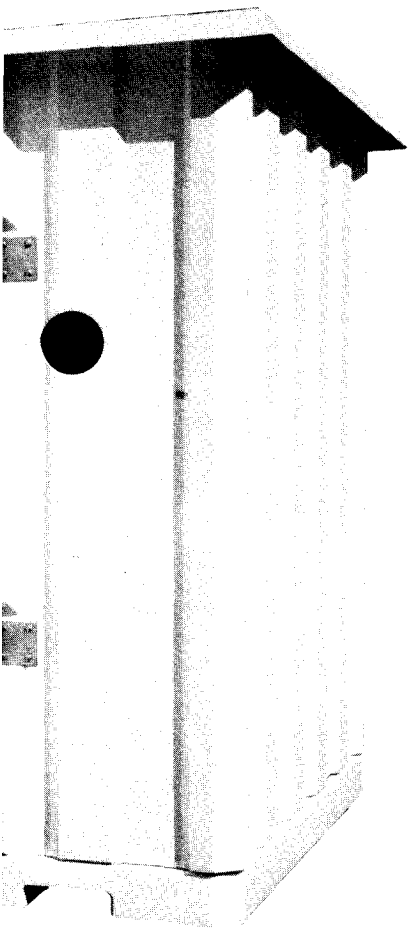
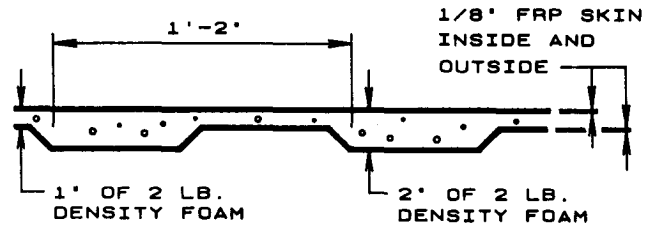
A raised door threshold keeps water out and provides adequate containment capacity for chemical spills. A sump can be provided to facilitate clean up of spills.

A corrosion resistant Fiberglass grating keeps containers above the containment reservoir sump.

A portable lightweight FRP entry ramp can be furnished for easy entry of heavy containers across the raised door threshold.

Sandwich construction throughout affords good insulation, reduces the possibility of condensation and provides structural soundness. All shelters are fully insulated and have a K-factor of less than 0.14 BTU/sq. ft./hr. Additional thickness can be added to the walls, roof and floor for improved thermal qualities.

Ribbed exterior wall affords optimum strength and aesthetically pleasing appearance.



A stainless steel spring loaded door holder stabilizes the door in both open and closed positions.

Hinges use  $\frac{5}{16}$ " stainless steel bolts to secure the door to the shelter and permit easy adjustment if required (no rivets). Long tang hinges using  $\frac{1}{2}$ " s/s hinge pins with nylon liners are among the many quality features of Plasti-Fab shelters. No piano hinges!



Insulated floors (optional) reduce heat loss and prevent moisture penetration.

Optional skid permits easy movement between locations with a forklift.

## AVAILABLE OPTIONS

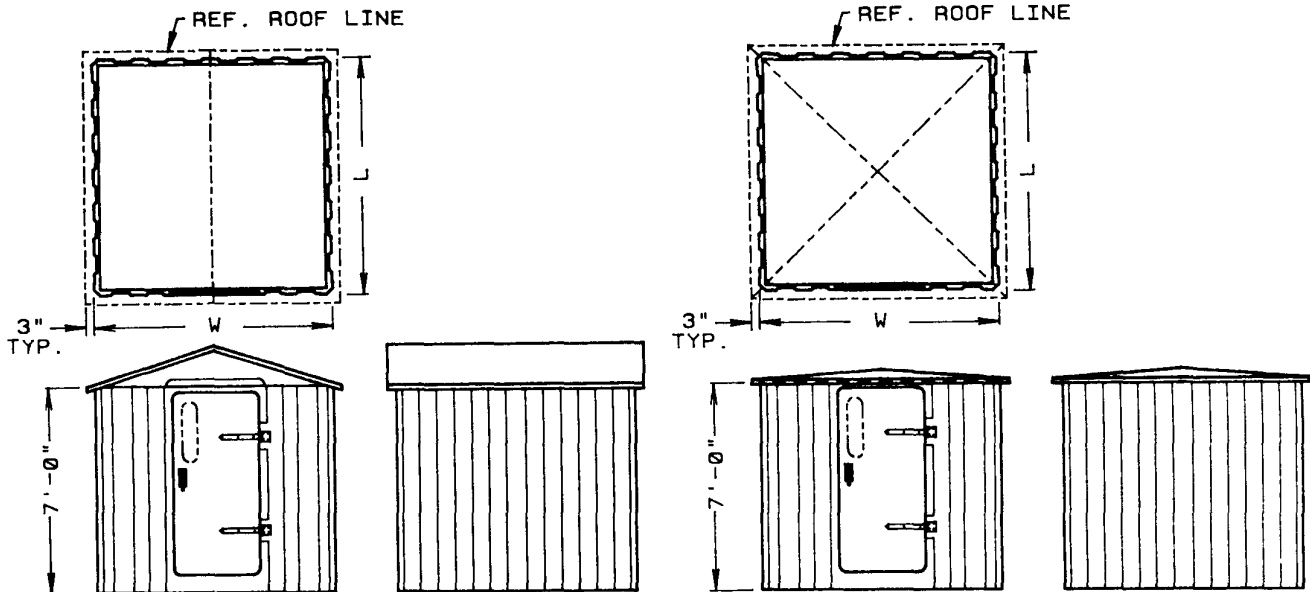
- Exterior alarm light and/or audible alarm may be installed.
- A Halon fire protection system can be provided when desired.
- For protection in extremely severe applications, the interior and/or exterior laminate of the shelter can be made using a high performance resin such as bisphenol-A or vinylester material.
- FRP grating can be installed to cover any portion of the floor. This elevated grating keeps containers above potentially wet or contaminated floors.
- Stainless steel lifting eyes, screened vents with cowling, floor drains, wall struts, shelving for mounting equipment and other amenities can be provided in any size or location desired.
- Laminated safety glass windows mounted in neoprene molding.
- Floors can be uninsulated or can meet any R value required. Factory assembled shelters with integral insulated floors will control condensation and reduce winter heat loss.
- Skid mounting provides easy movement between locations with a forklift.
- An eye wash fountain and/or shower can be mounted onto the outside of the shelter.
- Pressure relief vent panels.

Standard colors are white, beige, green and gray.

## OPTIONAL ELECTRICAL PACKAGE

- Dual purge fans provide ventilation to help control heat buildup during hot weather and protect service personnel while working in or around hazardous materials.
- Thermostatically controlled electric heat may be 120 or 230 volts as required.
- Cooling systems are available for roof or wall mounting.
- Breaker box, light, outlets wired with 24-3 SO cord may also be provided.
- Explosion proof wiring (Class I Group D) can be provided when required.

## DIMENSIONS



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