

FIBERGLASS REINFORCED PLASTIC (FRP)

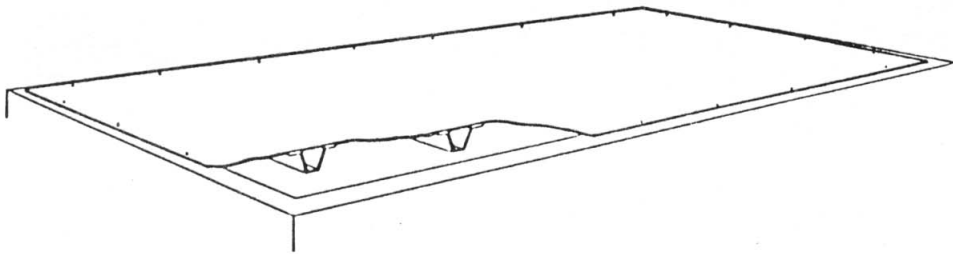
RIBBED FLAT COVER SYSTEM

Flat covers are ideal for smaller tank openings or small troughs where a flat surface is best suited for appearance or safety purposes.

These covers are reinforced with structural ribs on the underside of the panels. Normally, there are no metal components for additional structural support between standard sections.

BENEFITS OF FRP

Non-corrosive
Self-supporting
Minimum number of panels
Ease of erection
Non-conductive
Minimum Maintenance



DESIGN GUIDE

| | |
|------------|-----------------------|
| Rib Height | up to 8" |
| Spans | up to 20' |
| Deflection | Not to exceed $L/180$ |

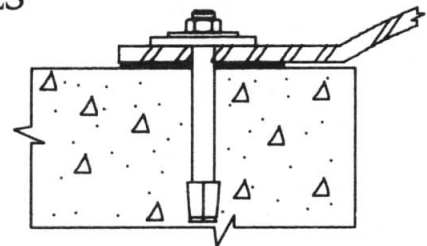
Basic Design is per ASCE7

FRP is most advantageous in meeting structural requirements in hostile environments. Various accessories such as windows, duct connections, vents, personnel doors and equipment hatches are readily available, sized to meet operating conditions. SynTechnics offers a variety of structural enclosures for applications ranging from weather protection to odor control. SynTechnics designs are available for both standard and customized structural systems based on customer requirements. These systems provide durable monolithic members which complement field erection procedures and structural integrity.

TYPICAL DETAILS

1. Laminate thickness and fiberglass reinforcing type to be determined by exact loading conditions.
2. The panels are joined by an interlocking weathertight joint and can be adapted with a compatible gasket for limiting air transfer.
3. Stainless Steel anchor bolts are recommended.
4. Panels are fabricated in shippable lengths.

SynTechnics actively solicits inquiries on special requirements. The SynTechnics organization is geared to design and manufacture FRP custom structural systems where the material has a cost effective benefit versus other materials. SynTechnics' experienced engineering staff is well versed in structural analysis of FRP structures.



TYPICAL BASE DETAIL



TYPICAL WEATHERSEAL