

FIBERGLASS REINFORCED PLASTIC (FRP) BARREL ARCH COVER SYSTEM



These enclosure systems are well suited for moderate to larger rectangular tank openings where inside clearance is a factor.

FRP is most advantageous in meeting structural requirements in hostile environments. SynTechnics' free-spinning barrel arches are structurally designed to handle appropriate live, wind, and unbalanced loading conditions. Various accessories such as windows, duct connections, vents, personnel doors and equipment hatches are readily available, sized to meet operating conditions.

Benefits of FRP	Design Guide			
	Low Profile		High Profile	
Non-corrosive	Arch Height	5'-7'	Arch Height	12'-16'
Self-supporting		20'-35'		25'-90'
Minimum number of panels	Spans		Spans	
Ease of erection				
Non-conductive				
Minimum maintenance				
*Basic Design is per ASCE7				

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.

