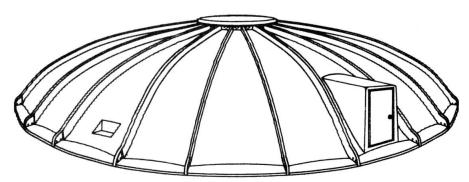


## FIBERGLASS REINFORCED PLASTIC (FRP)

## DOME COVER SYSTEM

SCALLOPED SEGMENT DESIGN



FRP is most advantageous in meeting structural requirements in hostile environments. SynTechnics free-spanning domes 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.

DESIGN GUIDE

DENEFITS OF FRE			
Non-corrosive			
Self-supporting			
Minimum number of panels			
Ease of erection			
Non-conductive			

Minimum Maintenance

DENIETITE OF EDD

DESIGN GOIDE	
Applications	
Clarifiers	
Digesters	
Sludge Thickeners	
Water Storage Tanks	
Trickling Filters	
Bulk Storage Tanks	
Other clear span applications	
Basic Design is per ASCE7	

BASIC DESIGN				
No. of	Weight per			
Segments	Segment			
22	500 - 900 lbs			
28	600 - 1000 lbs			
34	700 - 1100 lbs			
40	850 - 1600 lbs			
	No. of Segments 22 28 34			

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.

- Laminate thickness and fiberglass reinforcing type to be determined by exact loading conditions.
- 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 shipable 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.

