

MODULAR. DURABLE. UNLIMITED CAPACITY. WATER STORAGE.



Our RainFlo FRP (Fiber Reinforced Plastic) water tanks are high quality, maintenance-free storage solutions. These environmental friendly tanks are structurally strong and watertight for years of dependability. RainFlo FRP water storage tanks utilize a hot press molding production process to ensure zero defects and constant fiberglass distribution for reliability and performance. Available in custom capacities and multiple tank shapes, there is a configuration for any application. The modular design of our water tank enables it to be compact for easy transportation or relocation. The tanks are assembled at the project site by trained installation professionals.

Key Applications:

- Potable water storage
- Fire protection
- Irrigation
- Rainwater harvesting
- Agriculture
- Municipal, hospital, and schools
- Industrial processing
- Thermal storage
- Other bulk storage needs



SPECIFICATIONS

Panel Material Properties

Description	FRP
Specific Gravity	1.76
Class Content	40%
Tensile Strength	16,000 PSI
Young's Modulus	1,960,000 PSI
Flexural Strength	33,360 PSI
Impact Strength	37 ft. lb/in ²
Compressive Strength	23,200 PSI
Shear Strength	14,500 PSI
Barcol Hardness	65

Panel Material Characteristics

	Components	Material
Panel	FRP Panel	FRP
Joints	Sealant	Synthetic rubber (SEBS)
	Bolts & nuts	Structural steel galvanized and/or stainless steel
Reinforce-ments	Roof Support	uPVC and/or hard polyurethane
	External Reinforcing	Structural galvanized steel
	Internal Reinforcing	Stainless steel grade A4/316

Panel Thermal Properties

Description	FRP	
Thermal Expansion	Less than 1.66×10^{-5}	
Thermal Conductivity	Single Panel	0.666 Btu.in/h.ft ² °F
	Insulated Panel 25 mm	0.253 Btu.in/h.ft ² °F
	Insulated Panel 50 mm	0.204 Btu.in/h.ft ² °F
Coeff. of Overall Heat Transmission (Thermal Conductance)	Single Panel	2.37 Btu.in/h.ft ² °F
	Insulated Panel 25 mm	0.17 Btu.in/h.ft ² °F
	Insulated Panel 50 mm	0.08 Btu.in/h.ft ² °F
Water Absorption	Less than 0.1%	
Light transmission	Gray	0.0%

Strength and Durability

Design Condition	
Wind Velocity	134 MPH
Snow Load	12.3 lb/ft ²
Man Load	265 lb
Seismic Load	Horizontal Seismic Coefficient Kh=0.3/Zone 2
Water Temperature	140°F (max)