



FIBER GLASS REINFORCED PLASTIC **FUEL STORAGE TANKS** UNDER GROUND

Lined with Trust and Reinforced with
Perfection



Introduction

Extraco, India established in the year of **2009** is a leading Manufacturer of,

- » GRP/GRV/GRE pipes and Fittings.
- » GRP Horizontal and Vertical tanks.
(Chemical tanks and Fuel storage tanks).
- » FRP Water storage tanks, Rainwater harvesting tanks and Septic tanks.
- » GRP Sewerage and Drainage System.
- » GRP Moulded and Pultrusion products.
- » Abrasion resistant Pipes.
- » Transmission Poles and Lighting Poles.

Serving customers and industries throughout the world with a "state-of-the-art factory" located at Tada, Andhra Pradesh, with an advanced plant and machinery encompassing a covered shed area of **75,000 sq. ft** in a total extent of **7.15 Acres**.

Extraco has set a bench-mark in the composites field, producing excellent quality and maintenance free products.

Accreditations

Extraco India has been accredited with the following certificates:

- » **ISO 9001:2015** for Design, Manufacturing, Erection and Commissioning of Glass Reinforced Fibre Plastic (GRP), Glass Fibre Reinforced Epoxy (GRE), Glass Fibre Reinforced Vinylester (GRV) Pipes and Fittings, GRP/-FRP Storage Tanks for Chemical, Fuel and Water and other GRP/FRP Specialty Products.
- » **PESO certificate** for FRP Underground Fuel storage tanks (Single Wall and Double Wall).
- » **UL 3rd Edition** approval for FRP Underground Fuel storage Tanks.



Our Quality Policy

We are committed to delivering high-quality composite products and services that exceed customer expectations. We achieve this through:

- » **Continuous Improvement:** Constantly striving to enhance our processes and products.
- » **Customer Focus:** Understanding and meeting the specific needs of our clients.
- » **Defect-Free Products:** Delivering products without defects, on time, every time.
- » **Employee Empowerment:** Involving our employees in quality initiatives.
- » **Technological Advancement:** Investing in advanced technologies to improve efficiency and quality.
- » **Regulatory Compliance:** Adhering to all applicable legal and regulatory requirements.

Overview

- » Extraco Fuel Tank has high axial strength due to its helical winding.
- » Extraco uses UL approved resin for Fuel Storage Tanks.
- » Extraco has equipped with CNC filament winding machine for the manufacturing of tanks up to 4m dia with the adequate infrastructure.
- » Extraco tanks are eco-friendly tanks which do not pollute the environment.
- » Extraco has both the single wall and double wall tanks.
- » Extraco has various monitoring system such as Dry Monitoring System and Wet Monitoring System.
- » Extraco has PESO approval and UL approval for all capacities up to **85KL** for Fuel Storage Tanks.
- » Extraco can manufacture tanks with any customised size and design.

Applications

Applications of Fuel Storage Tanks

- » Oil and Gas Industries.
- » New Petroleum Retail Outlets.
- » Airports.
- » Augmentation of Fuel Station.

Design and Engineering

M/s. Extraco Composites India Pvt. Ltd. has a full-fledged design and engineering office which can take care of the following functions:-

- » Extraco Tanks are designed for a Design Life of minimum **30 years**.
- » Extraco Underground tanks are designed for Live Load to take care of the truck load, soil load and vacuum.
- » Extraco has designed the tanks considering all testing conditions as per **UL 1316 3rd edition**.
- » Extraco has designed the tanks for Internal Pressure and Hydrostatic Pressure.
- » Extraco employs the latest design standard **EN 13121-3:2016** for checking all loading conditions, stability of tanks under internal and external pressure.

Manufacturing

Extraco Tanks are manufactured on CNC filament winding machine by Dual Helical Filament winding process monitored by a fully computerised system. The inner liner thickness of tanks is approximately **2 mm**, reinforced with ECR grade glass fiber.

The structural wall consists of glass rovings impregnated with resin wound at precisely set helical winding patterns under uniform tension for the various designs. The outer finish consists of resin topcoat.



Product Information

Capacity	Type	Diameter in mm	Length in mm
20KL	Single Wall / Double Wall	2400	5144
30KL	Single Wall / Double Wall	2400	7444
30KL Compartment (20KL+10KL)	Single Wall / Double Wall	2400	7444
45KL	Single Wall / Double Wall	2400	10844
45KL Compartment (30KL+15KL)	Single Wall / Double Wall	2400	11162
50KL	Single Wall / Double Wall	2400	12044
54KL	Single Wall / Double Wall	2500	12160
54KL Compartment (30KL+24KL)	Single Wall / Double Wall	2500	12160
54KL Compartment (44KL+10KL)	Single Wall / Double Wall	2500	12160

» The above capacities are currently in use and other capacities can be manufactured based on the customer's requirement.

Applicable Standards

Design Standard	EN 13121-3:2016/ASME RTP-1
Testing Standard	UL 1316 3 rd Edition
Specification Standard for Filament Winding Process	ASTM D 3299
Specification Standard for Contact Moulding Process	ASTM D 4097

Quality Control and Inspection

Extraco Tanks are subject to quality control testing/inspection and thorough checks as per inspection test plan. All incoming raw materials and finished products are inspected and tested in accordance with international standards in line with inspection test plan.

Properties	Values
Specific Gravity	1580-1850 kg/m ³
Flexural Strength	151 - 400 N/mm ²
Flexural Modulus	15000-23000 N/mm ²
Barcol Hardness	>35
Tensile Strength	143-350 N/mm ²

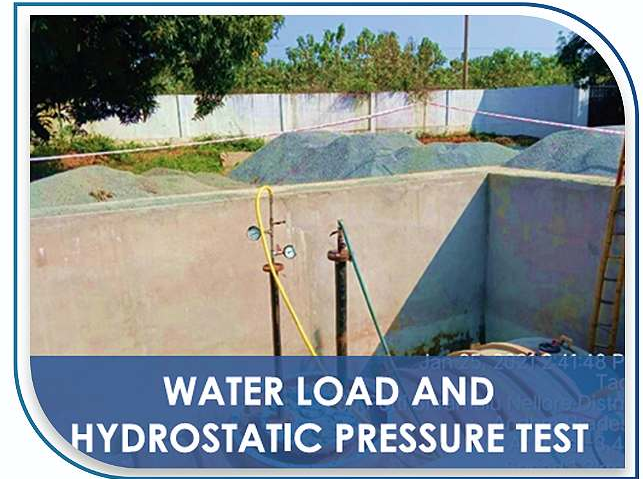
Testing Standards

Type of Test	Standard For Test Method
Visual inspection	EN 13121-3:2016
Dimensional checks	ASTM D 3299/ ASTM D 4097
Barcol hardness	ASTM D 2583
Loss on Ignition	ASTM D 2584
Tensile strength	ASTM D 638
Flexural strength and Modulus	ASTM D 790
Lap Shear and Peel Shear Strength Test	EN 13121-3:2016
Leakage Test	UL 1316 3 rd Edition
Water Load and Hydrostatic Pressure Test	UL 1316 3 rd Edition
Tank Lifting Test	UL 1316 3 rd Edition
Tank Connection Torque and Bending Test	UL 1316 3 rd Edition
Interstitial Integrity and Communication Test	UL 1316 3 rd Edition
Buried Tank Load Tests	UL 1316 3 rd Edition

Inhouse Testing Capabilites



Type Test Facilities



Installation Photos



GET IN TOUCH



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