



Data Sheet of GFRP Open Drain Tank

SN	Description	Property	Comment
1	Max Internal Dia	4,000 mm	OD = 4144
2	Max Total Height	14,000 mm	Shell 12,000mm
3	Max burial depth	2,100 mm	Top of tank
4	Max Burial depth	6,200 mm	Bottom of tank
5	Glass content	60 - 70%	ASTM D2584
6	Max Weight / capacity	10,000 Kgs	Net Cap 150,000 liter
7	Color	As per Client RAL no	Pigmented resin during process
8	Body construction	Single wall for storm & waste water	Double walled for oily water
9	Chemical Resistance	Polyester resin for storm water application and high temperature 60 degrees Celsius	Vinylester resin For sewage & Oily water up to 85 deg celsius
10	Manufacturing process	Filament winding / contact moulding	BS EN 13121-3:2016
11	Access manway	Dia 600 /750 mm	Height 300 mm
12	Extension Shaft	Dia 600 / 750 mm	Height 1000 - 2100 mm
13	Design temp	HDT of resin + 20 Deg celsius	-
14	Anchorage system	Non metallic straps with Turnbuckles in SS or GI	Prevent Buoyancy
15	Installation consideration	Petroleum storage application	BS EN 976-1 /BS EN 976-2
16	Monitoring System for double walled tank	Interstitial monitoring liquid	(Colored Brine)



Data Sheet of GFRP Open Drain Tank

SN	Description	Property	Comment
17	Approved Backfill material	Pea gravel (3 to 20 mm) or crushed stone (3 mm to 12 mm) Max 3 % for # 8 sieve	ASTM C-33 Par 7.1 To be certified by Backfill supplier
18	Lifting system	SS 316 Lifting lugs min 4	-
19	Design Criteria	Withstand traffic load H20-axle load	Design life 30 years
20	Unstable soil Installation (bearing cap < 1.71 Kgs/cm2)	Allow for ½ Dia of tank from wall of tank to excavation wall	Concrete slab under tank
21	Traffic load consideration	Min cover depth of 1000 mm or 600 mm + concrete reinforced slab min 150 mm	-
22	Filter fabric	For Unstable soil / Tidal conditions / water condition with silty soil	To prevent migration of pea gravel with native soil
23	Concrete Pad	Bottom reinforced slab Designed for Buyoncy	Maintain 300 mm bed of backfill between bottom of tank and top of slab
24	Applications	Municipal / Oil & Gas / Landscaping / Parking / Industry / Mining	-

