LIQUID STORAGE SOLUTIONS

GRP Premier Rectangular Sectional Panel Tanks

Sheet moulded compound panels with no internal tie rods

Allied Pumps GRP Premier Rectangular Sectional Panel Tanks are moulded from sheet moulded compound using a hot press metal matched mould, producing panels strong enough to carry the full design load without internal tie rods. Load is taken instead by external hot dip galvanised framing, so no metal contacts the stored water.

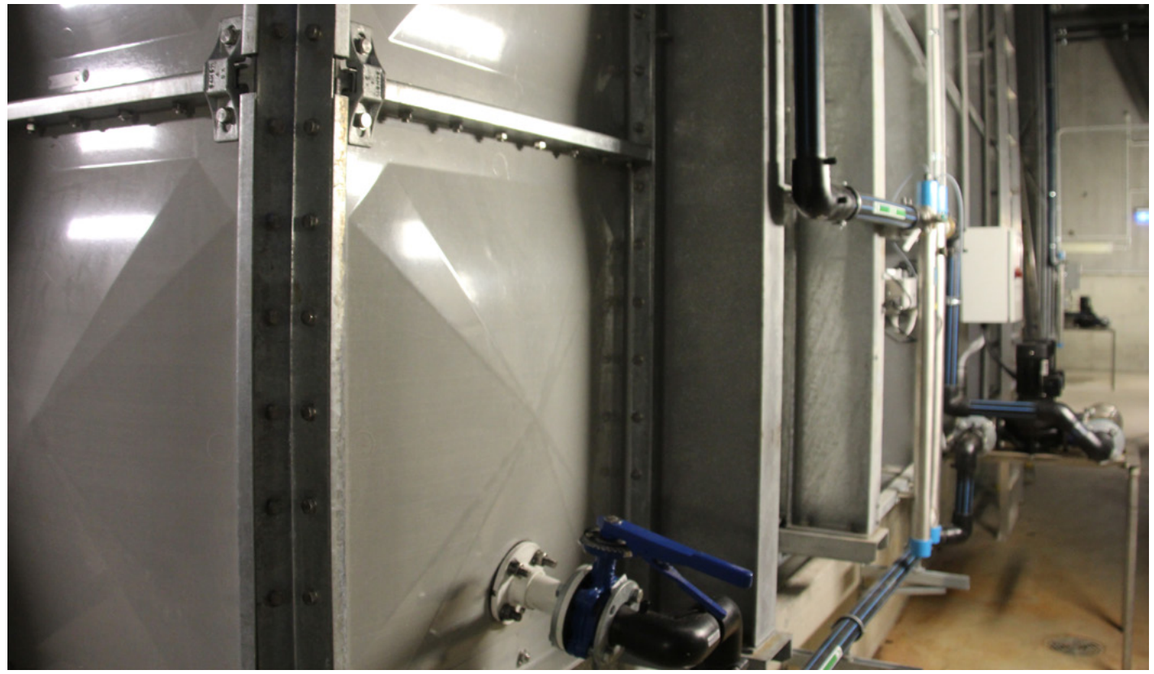
The result is an unobstructed interior that drains completely, cleans down easily and can be inspected from all sides including the base. Construction is fully sealed against dust and insects, and panels block light entirely to prevent algae growth. Capacities run from 1 kL to 10,000 kL in almost any configuration.

KEY FEATURES

- No Internal Tie Rods or Metal Components
- Sheet Moulded Compound Panels, Hot Press Metal Matched Mould
- External Hot Dip Galvanised Support Framing
- Convex Base Panels for Complete Free Flow Drainage
- Panel Strength to Eight Times Anticipated Pressure Load
- Sealed Construction, Dust and Insect Proof
- Zero Light Transmittance to Prevent Algae Growth

PRODUCT APPLICATIONS

- Municipalities and Reservoirs
- Hospitals and Hotels
- Industrial Liquids
- Agriculture and Aquaculture
- Commercial Buildings



PRODUCT SPECIFICATION

Tank Depth (m)	Panel Strength (kPa)	Hydrostatic Pressure (kPa)
1.0	59 (minimum)	6.9
1.5	98	12
2.0	130	16
2.5	170	21
3.0	210	25
3.5	250	30
4.0	280	35

THE MANUFACTURING PROCESS

Panels are formed from sheet moulded compound in a hot press metal matched mould at 150°C under high pressure, producing a uniform panel of solid homogeneous construction rather than a laminate. Glass content is high enough that panels carry the full design load in compression, tension and torsion without internal bracing, so load is carried by external hot dip galvanised framing instead.

The process also leaves a smooth, mirror finished surface that resists dirt adhesion and bacterial growth, while convex base panels drain the tank completely rather than retaining contaminated water after cleaning.

MAINTENANCE

With no internal tie rods, the tank interior is accessible from all sides including the base for visual inspection. Maintenance is limited to external bolt tension adjustment and internal cleaning. Panel joints are sealed with flexible rubber sealant, which accommodates movement and keeps the tank leak free in service. Repairs are carried out externally without interrupting supply, and the modular construction allows individual panels to be replaced rather than the tank.