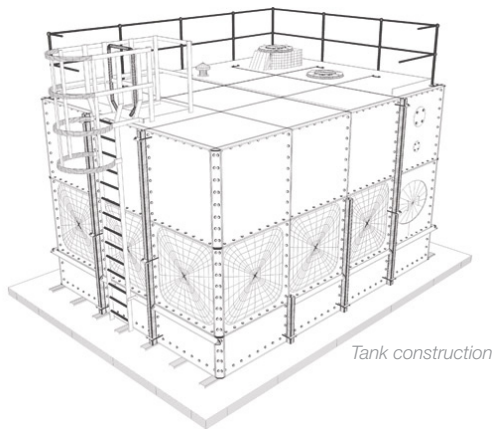




Hot Pressed GRP Sectional Water Tank

Pure Elements offers sectional tanks, which can be pre-insulated, ranging from 1m³ -1000m³ litres capacity and erected to a height of 4m in 1m and 0.5m increments.

These tanks carry WRAS approval for potable water storage and LPCB approval for fixed fire fighting sprinkler systems. All panels are fully tested to resist pressures in excess of six times their working pressure.



Features and Benefits:

- **Design** – designed to BSEN13280 (2001)
- **Automated manufacturing** – consistent product offering dimensional stability
- **Automated finishing** – provides high levels of accuracy
- **High grade materials** – improved resistance to bacterial growth, increased water resistance, reduced risk of osmotic attack. Colour 00-A-05 to BS5252
- **UV stabilised materials** – suitable for global climatic conditions
- **100% opacity** – prevents algae growth
- **Heavy duty cover** – low maintenance, resists wind and snow loadings. BS6399 Pt1 (1996)
- **Integrated insulation** – provides U value of 0.6W/m²K. CFC and HCFC free. Suitable for water storage up to 38°C
- **Exclusive sealant** – WRAS approved, provides optimum performance under varying climatic conditions
- **Bracing** – designed to BS6700 to limit structure deformation
- **WRAS approved** – tanks compliant to WRAS section 0135. Fittings compliant to Water Regulation 16 (Byelaw30) for tanks to 4m depth



Pure Elements
Environmental Solutions

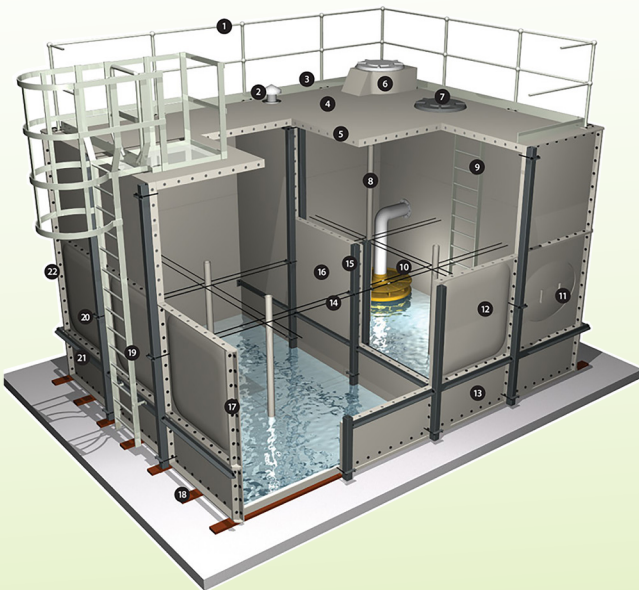
Hot Press GRP Sectional Tank

Engineering Innovation

- The design of each sectional tank panel is modelled using FEA software to allow fine detail to be thoroughly investigated and improved before proceeding to mouldmaking and production.
- All materials used in the production and assembly are rigorously tested for potable water compatibility.
- Moulded at temperatures up to 150°C in glass reinforced plastics (GRP) using isophthalic unsaturated polyester resins and electrical glassfibre reinforcement.
- Uses expanded polystyrene (EPS) materials in its thermally insulated panels, which is made using a CFC and HCFC free pentane expansion agent and can be recycled by melting down and reforming.



Tank Construction



- | | |
|---|---|
| 1 Handrailing and supports | 11 0.5 x 1 m hot press moulded panel |
| 2 Screened air vent | 12 316 Grade stainless steel internal tie rods |
| 3 Profiled heavy duty cover designed to BS 6399 Pt1 1996 | 13 316 Grade stainless steel partition supports |
| 4 A4 stainless steel internal fasteners and fixings | 14 Partition panels |
| 5 Float valve chamber (type AB and AF air gaps available for compliance with Byelaw 11) | 15 Hot press moulded GRP corner section |
| 6 Hinged or mechanically fixed man access | 16 Hot press moulded GRP panels BS EN 13280 (2001) |
| 7 uPVC tubular roof support struts | 17 Tank supported on a flat and level foundation or pier walls or bearer beams (pier walls shown) |
| 8 GRP or stainless steel internal ladder | 18 Aluminium or galvanised steel external ladder |
| 9 Connections supplied to customer requirements | 19 Galvanised or stainless steel external fasteners & fixings |
| 10 Hot press moulded GRP panels BS EN 13280 (2001) | 21 Galvanised steel external bracing |
| | 22 WRAS approved BALSEAL sealing strip |

