

GRP Beams – Howden Waste Water Treatment Works

GRP Aberdeen Ltd was contracted to design and manufacture four structural support beams and associated covers and flashings. The beams span fully 17 metres and are subject to loadings of 6kN / metre. The working environment is classed as harsh and the GRP products are subjected to exposure to ammonia rich fumes.

MSD Design Ltd calculated the beam section and produced the required documentation. The beams were designed with a pre-camber and when loaded deflected to horizontal.

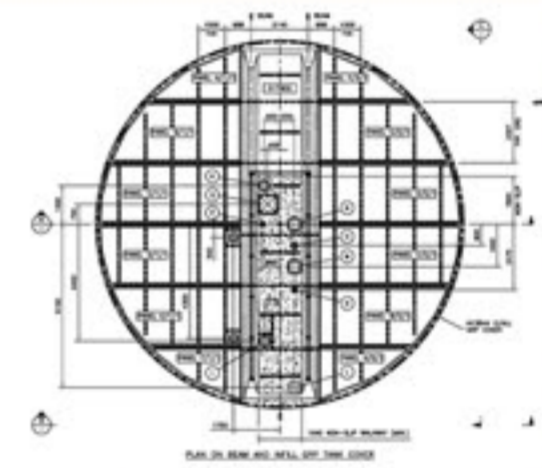
The beams, covers and flashing were installed early 2010 at Howden and the system is functioning superbly.



GRP Roofs – Tilbury Waste Water Treatment Works

GRP Aberdeen Ltd was contracted to design and manufacture six structural roofs to cover sludge tanks at the new sludge handling plant at Tilbury Waste Water Treatment Works on the Thames. The largest two roofs have a central spanning walkway of 13.6 metres and are designed to resist loads applied from maintenance, snow, wind and piping. The working environment is classed as harsh and the GRP products are subjected to exposure to ammonia rich fumes.

MSD Design Ltd calculated the central beam section and wing panels and produced the required documentation. The central walkway beams and the wing were designed with a pre-camber which allows water to run to the tank periphery. The roofs were installed late 2006 at Tilbury.



GRP Buildings

GRP Aberdeen Ltd design and manufacture both insulated and single skinned GRP buildings for exposed sites in the UK and Republic of Ireland.

The large building measured 6.3m x 3.0m x 3.5m high and was supplied for an exposed site in the Republic of Ireland near Cork. This building was installed on site during the last quarter of 2009.

The smaller building was part of an order for ten such units, was insulated and measured 2.2m x 1.0m x 2.1m high. The buildings were supplied complete and were installed in various exposed site in Northern Ireland during the last quarter of 2009.