

Data Sheet - GRP Self-Supporting Pitched Covers

Corporate Engineering's range of pitched GRP odour containment covers are designed to fit circular steel and concrete tanks without the need for any additional support.

Current size range	6.0 – 16.22m diameter*
Cover pitch	20°
Components	12 or 18 GRP segments and GRP centre ring and cap
Tank types	Suitable for circular steel and concrete tanks and panel tanks
General Specification	WIMES 8.05 Appendix G and the relevant Water Utility Specifications
Loading	Standard - Duty (0.75kN/m ²) to BS EN1991-1-1:2002 Eurocode 1
Colour	Any from the RAL 840HR or BS4800 ranges
Fixings	Grade A4 stainless steel
Sealant	Closed cell neoprene foam strips
Resin and gel coat	Selected chemically resistant grades to BS3532:1990**
Glass reinforcement	Chopped strand mat and woven glass to BS3496:1989 & BS3749:1991
Manufacture	Manufactured in temperature-controlled conditions. Where appropriate they conform to the requirements of BS4549-1:1997
UV resistance	Pigments have a colourfastness of at least 7 to BS1006:1990
Chemical resistance	Suitable for use in high H ₂ S environments
Fire resistance	Resins are rated to Class 2 to BS 476-7:1997
WRAS Approval	Standard resins have WRAS approval for use with potable water
Thermal Insulation	PU foam insulation can be incorporated into the cover segments to provide a higher level of thermal insulation
Design Life	25 years

* Larger diameter covers area available using our Beam and Infill design (up to 25m clear span). Covers below 6m diameter also use our Beam and Infill design.

** Other higher grade resins are available on request

Cover design has been verified using standard structural calculations and proved using FEA
Generic calculations are provided, project specific calculations are available at an extra cost.
General Arrangement drawings are provided in AutoCAD 2D format. 3D versions also available
Operation and maintenance manual provided for all covers

Cover Accessories

Access Manways – Hinged and lockable c/w removable stainless-steel safety grilles
Mixer, pump and aerator hatches
Flanged upstands for odour extraction or instrument mounts
Fresh air inlets – fitted with bird or insect mesh
Flat areas c/w slip deterrent surface and GMS or GRP handrailing

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