

Floatation Design Check Variobox Tank Dartington Primary CIRIA C680 Calculation

Groundwater level above tank invert Metres	1.2
Uplift Force 10kN/m ³	12
Uplift Safety Factor	1.5
Total Uplift Force kN/m²	18
Cover over units Metres	1
Weight of Fill kN/m ³	20
Partial Safety Factor for down force	0.95
Design Downforce Pressure kN/m²	19

Ground water

Product reference: Contractor's Design, ground water level assumed to be 1mbgl with accidental HGV loading above.

Based on the above information the uplifting force is 18kN/m² and downforce 19kN/m², therefore anti- floatation measures are now required

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