

Structural Load Calculator

Project Details

Project title:

Project date (dd/mm/yy):

Contractor:

Site Name:

Tank reference number:

Customer ID number:

Modular Structure

Box Type:

Vertical compressive strength: kN/m²

Lateral compressive strength: kN/m²

Height: m

Length: m

Width: m

Gross Capacity: m³

Cover

Material 1:

Unit weight of material 1: kN/m³

Depth of cover: m

Material 2:

Unit weight of material 2: kN/m³

Depth of cover: m

Material 3:

Unit weight of material 3: kN/m³

Depth of cover: m

Variable Vertical Load (Vehicles)

Expected vehicle type:

Distributed vehicle load: kN

Concentrated wheel load: kN

Tyre dimensions: x mm

Load spread angle: degrees



Lateral Load

Lateral surcharge load: kN/m²

Height of groundwater above base of tank: m

Angle of shearing resistance of soil: degrees

Calculate

Reset

Quit

Output

Vertical design load: kN/m²

Vertical design limit: kN/m²

Vertical safety check:

Lateral design load: kN/m²

Lateral design limit: kN/m²

Lateral safety check: