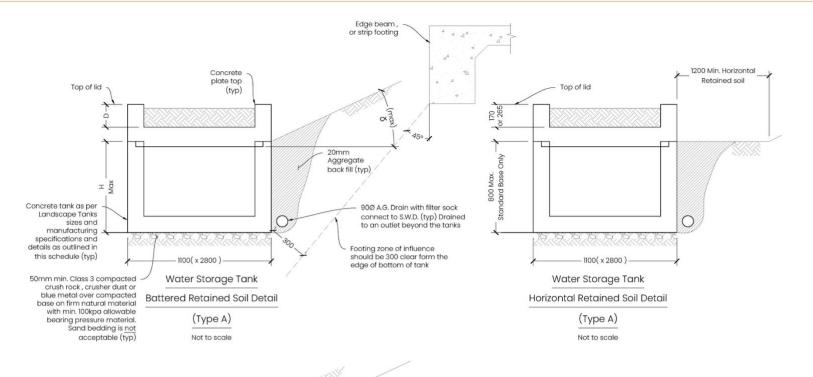


RETAINING WALL ENGINEERING

This engineering schedule demonstrates and details installation parameters for our tanks, where they are deployed in a retained earth capacity and "normal" site and soil conditions exist. We advise clients take a prudent and conservative approach to projects. For advice, we recommend Partnear Engineering (www.partnear.com.au). Partnear Engineering performed the calculations on which this schedule is based and have a first-hand and detailed understanding of our tanks.



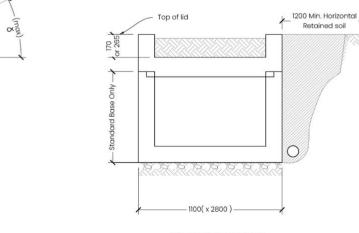
Soil Retaining Design Parameters:

- 1. Max fill density = 18kN/m³
- 2. Fill soil friction angle = 30°3. Minimum soil bearing capacity = 100kPa
- 4. Surcharge = 2.5 kPa
- Designed as fully drained

1. Ensure lid to be filled with soil prior to backfilling.

Retained Soil to top of Tank Wall Only (Type A)					
H (mm)	D (mm)	Max (Degrees)	Max Retained Soil (Height)		
830 (Standard Base)	170	25	830		
	265	25	800		
1100 (Medium Base)	170	25	1100		
	265	25	1100		
1430 (Deep Base)	170	20	1200		
	265	15	1300		

Reta		oil to Top (pe B)	of Lid
H (mm)	D (mm)	Max (Degrees)	Max Retained Soil (Height)
830	170	20	1055
(Standard Base)	265	14	1165
1100 (Medium Base)	170	10	1325
	265	10	1365



Water Storage Tank

Horizontal Retained Soil to Top of Lid Detail

(Type B)

Not to scale

General

- G1 These drawings shall not be used for construction until issued as "Approved for Construction" by Partnear.
- G2 During Construction, the Contractor shall be responsible for maintaining the structure and all excavations in a stable condition and ensuring no part is over stressed by construction activities.
- G3 Workmanship and materials are to be in accordance with the relevant Australian Standards, the Building Code of Australia, Occupational Health and Safety Regulations and the local statutory authorities' requirements.
- G4 Any discrepancy or ambiguity between these drawings and other disciplines should be approved by the client and/or Project Manager before work
- G5 No responsibility shall be taken for material or workmanship errors during construction or discrepancies with the schedules and details provided.
- G6 Products specified in these drawings must be adopted and departure is only permissible with approval by Partnear.
- G7 Do not scale from the drawings.
- G8 The structure has been designed to be installed and to be lifted at the locations noted. Any alternative proposed loading scenario, lifting or temporary propping must be discussed with Partnear.

partnear

Top of lid

ΞĜ

1100(x 2800)

Water Storage Tank

Battered Retained Soil Detail to Top of Lid

(Type B)

Not to scale

Proposed Precast Water Storage Tanks

Concrete plate top

(typ)