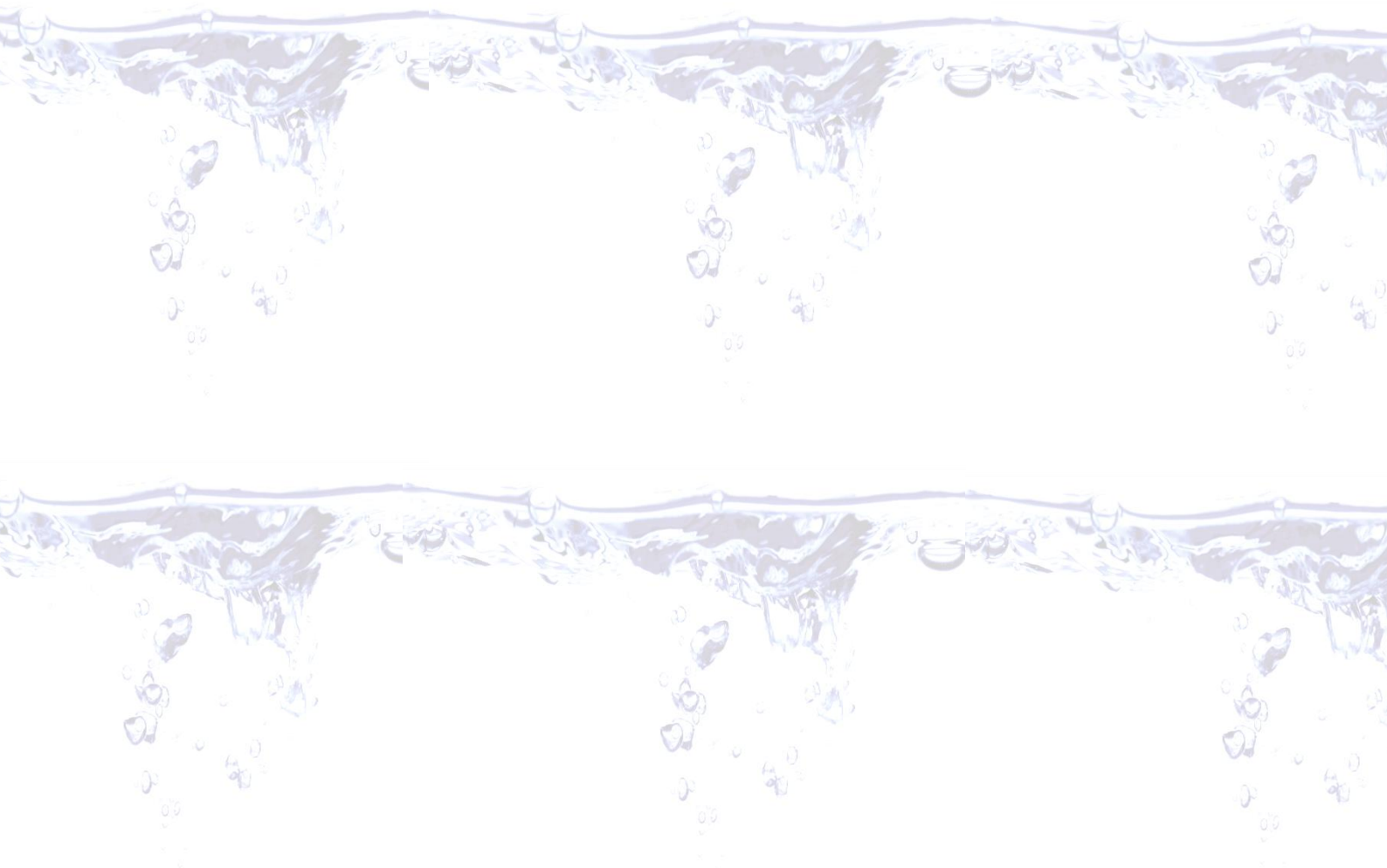


**Site Preparation and
Excavation Information for
your Built on Site
Concrete Tank**

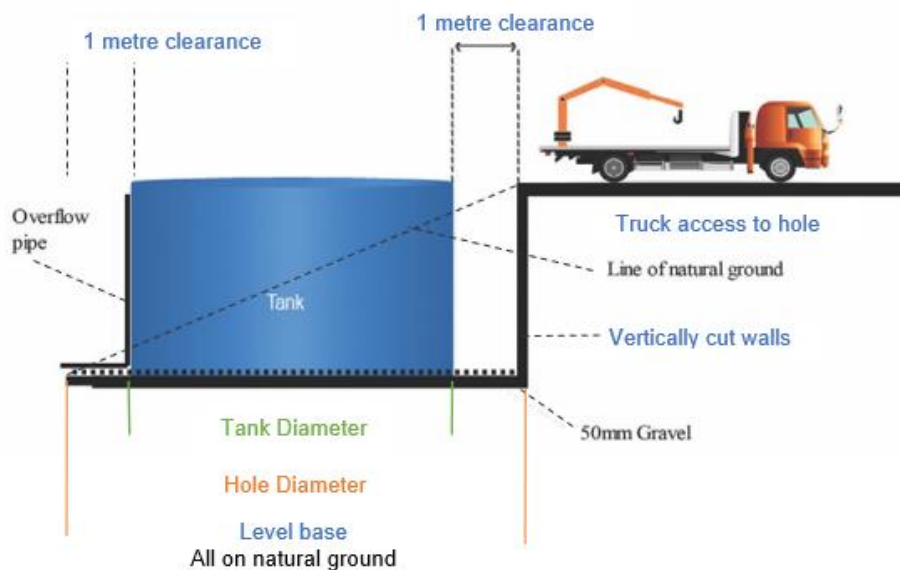


Site Preparation

The first stage for the construction of a Panthers Concrete Tank is site preparation.

- Tanks must be constructed on natural level solid ground
- We recommend 50mm thick layer of gravel or road base
- Site must be properly compacted and laser levelled foundation
- Tanks can be constructed above or below ground. Above ground requires concrete pump at additional cost. Tanks also out of the ground more than 800mm also require a concrete pump at additional cost.
- There must be sufficient access for trucks. Require 5 metre wide truck set up point near hole.
- Prior to excavation we recommend calling us if you require further information or site inspection.
- Once the concrete tank is constructed you must take care when backfilling around the tank to keeps its structural stability.
- Overflow pipe to be diverted away from tank base
- Tanks fully in the ground must never be empty. Once the tank is completed, fill the tank with a minimum of 25%.
- Empty tanks are buoyant. Do not let water on the outside of the tank in the excavated hole build up as the tank will float.
- Tanks must be evenly backfilled as there cannot be uneven pressure
- Do not put excavated soil on hole edge. Keep 1 metre clear around hole edge for construction

For any excavation related questions, please contact Charlie on 0418 619 008



AS 3735 Concrete Structures for Retaining Liquids
AS 3600 Concrete Structures

Excavation Information

The below table outlines the excavation information for a tank at its standard height.

Please refer below the table for further information on tanks with a roof loading requirement.

CAPACITY (LITRES)	ROOF LOADING	TANK DIAMETER	HOLE SIZE	
			Diameter	Height
30,000	Standard	4.6m	6.5m	2.35m
50,000	Standard	5.65m	7.5m	2.35m
65,000	Standard	6.5m	8.5m	2.35m
107,000	Standard	8.3m	10m	2.35m
120,000	Standard	8.7m	11m	2.35m
150,000	Standard	9.9m	12m	2.35m
170,000	Standard	10.5m	12.5m	2.4m
200,000	Standard	9.9m	12m	3.1m
260,000	Standard	12.4m	14.5m	2.65m
315,000L	Standard	13.4m	16.5m	2.7m
335,000L	Standard	14.4m	16.4m	2.6m
400,000L	Standard	12.4m	14.5m	3.9m
450,000L	Standard	16.5m	18.5m	2.65m
500,000L	Standard	12.4m	14.5m	4.850m

**Please note

All hole size information listed above is for a standard concrete tank level with ground

Standard Roof Loading

Hole height will make the tank level with ground.
Recommended to be out of ground 150mm.

3KPA Roof Loading with 400mm Soil Loading

Hole Height in table above is the tank height level with ground. Allow an additional 400mm for soil loading.

5KPA Roof Loading with 600mm Soil Loading

Hole Height in table above is the tank height level with ground. Allow an additional 600mm for soil loading.



For any other roof loading requirements, please call Charlie on 0418 619 008.

**The above is a guide. You can alter the height to suit your requirements