APD

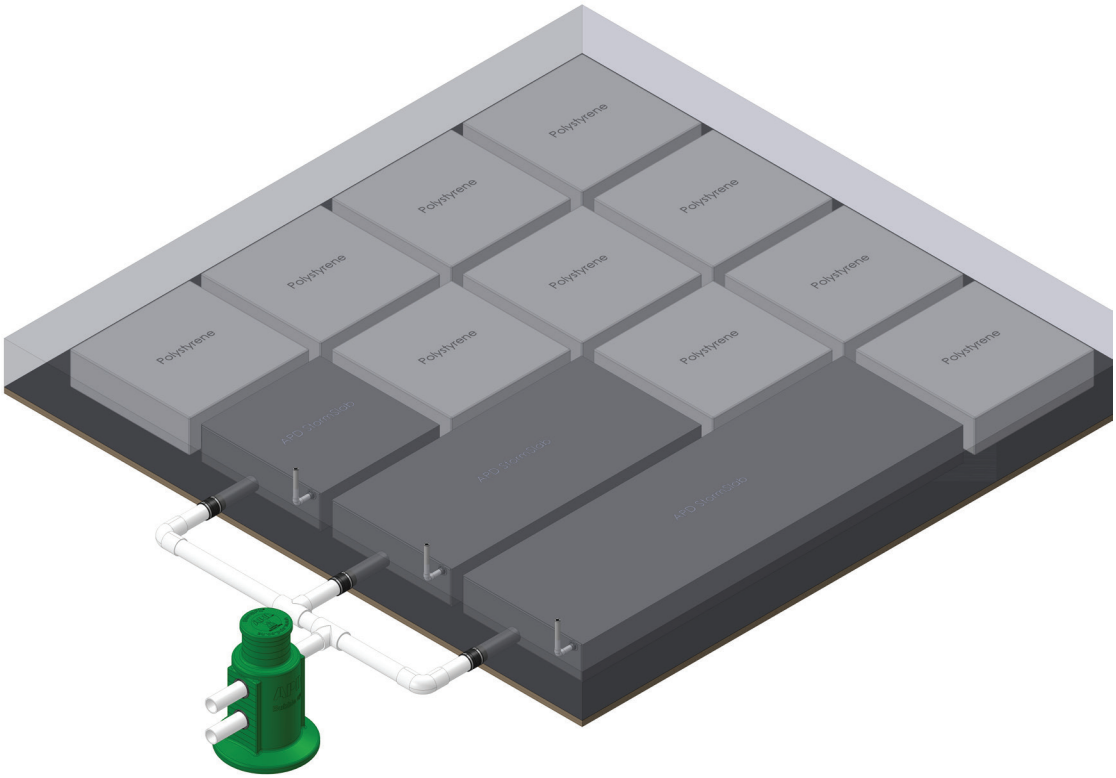
IDEAL TANK & SYSTEM SOLUTIONS

StormSlab®

DETENTION & RETENTION SOLUTIONS

Underfloor Peace of Mind.

STORMSLAB INSTALLATION GUIDE



StormSlab Installation Guide May 2022

Ph: 09 263 7741, Fax 09 263 7743, 49 McLaughlins Rd, Wiri 2104, PO Box 12663 Auckland 1642,
sales@apd.co.nz - www.apd.co.nz

DRAWING NOTES

Refer to structural specification sheet for concrete reinforcing and other notes.

Contractor to confirm all levels and dimensions and locate and mark all services and drains on site before commencing work.

Contractor to notify a chartered professional engineer if any of the design requirements outlined in this drawing package are not achievable.

TANK LOCATION – PROXIMITY TO NEARBY STRUCTURES

The location of the tank excavation is the responsibility of the contractor and the tank owner. The contractor is to follow the limitations of the diagrams shown or notify a chartered professional engineer for a site-specific consultation.

SOIL CONDITIONS

This design assumes site soils will meet the requirements of NZS3604.2011.

Classification of 'Good Ground'. Contractor to confirm site exhibits these properties or notify chartered professional engineer for consultation.

BACKFILL AND BASECOURSE

Backfill and basecourse material to be either;

- Crushed stone or gravel washed, with angular particle sizes no larger than 20mm. Approved backfill should not be mixed with sand or native soils and should always be brought up to at least the tank crown level. The use of non-specified backfill material could result in tank failure (i.e., Gap7,10 or 20).
- Or if crushed stone/gravel is not available, specific quarry aggregate mix required as below, naturally rounded gravel - clean naturally rounded aggregate with particle sizes no larger than 20mm.

STEEL WORK

All steel work to be in accordance with the detail provided in the Consent drawings.

TANK PLACEMENT

All tanks to be placed with the spigot outlet/inlet aligned to the outside of the slab.This then allows connection to the manifold using flexible couplers. The inlet/outlet pipe spigot should be aligned under the footing allowing for connection outside of the slab/floor area. Tanks may be placed alongside the footing only if the footing is reinforced with piles.

Please see detailed drawings and PS1 documentation in the Members section of our website. **www.apd.co.nz**

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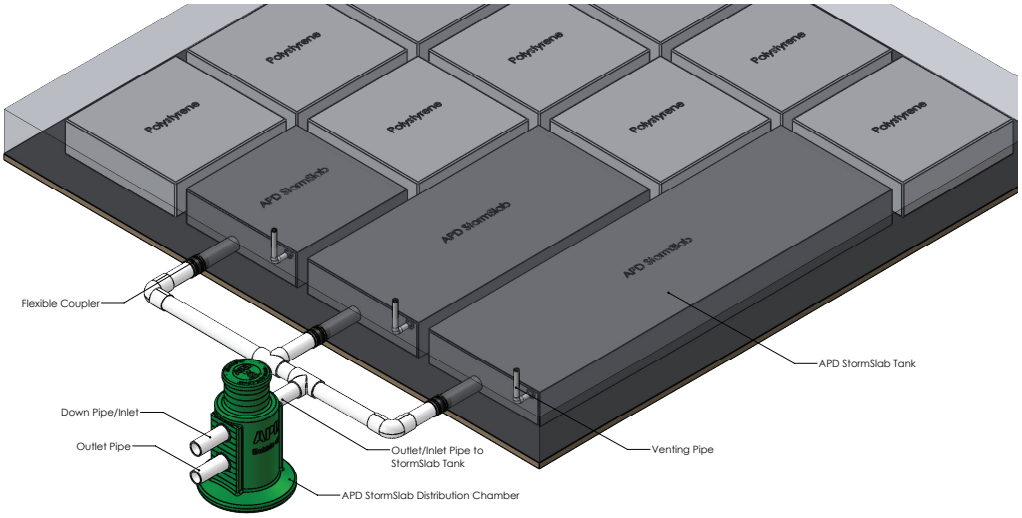
TANK PRESSURE TESTING

All tanks are pressure tested in the factory before dispatch.

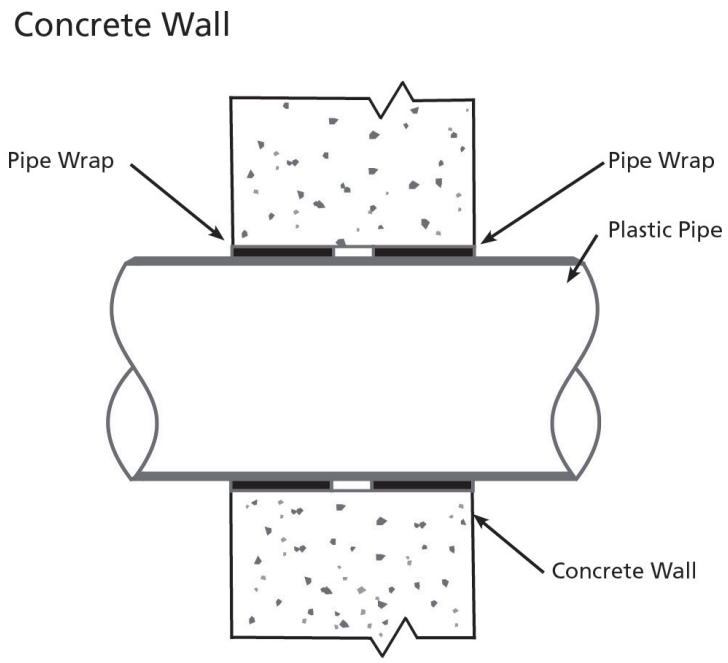


Vent pipe is to be passed through the concrete slab and up into the wall space through the bottom plate. It can then be vented out through the cladding as per the building code for DWV pipe passing through the waterproof membrane.

This will allow the tank to completely fill up.

Please ensure that the overflow level in the Distribution Chamber allows for this.

Vent pipe to be wrapped to allow for ground movement.



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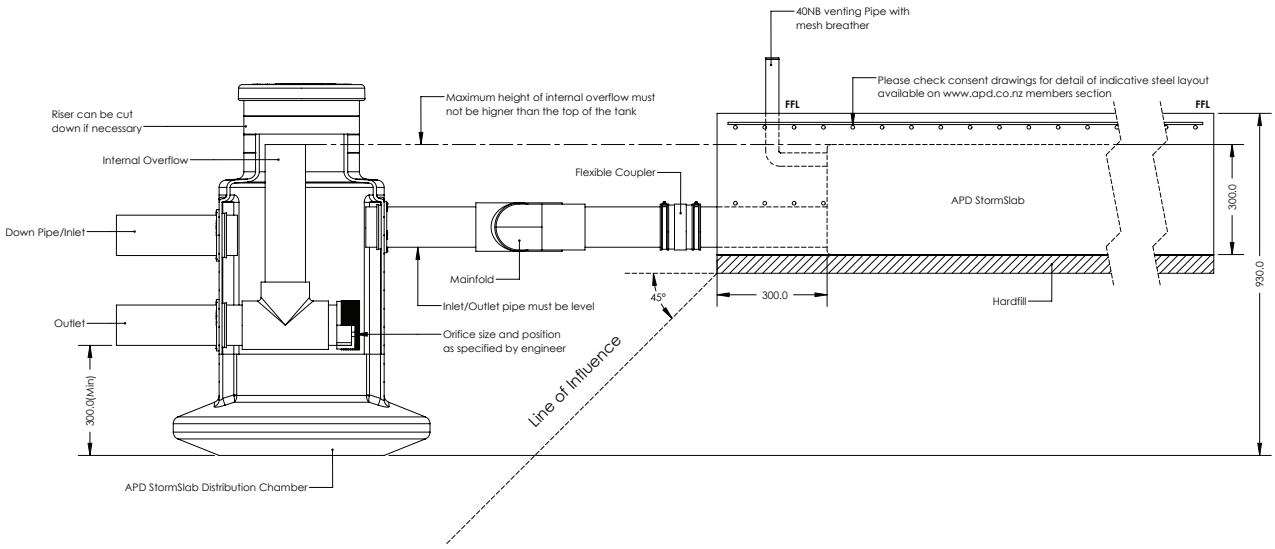


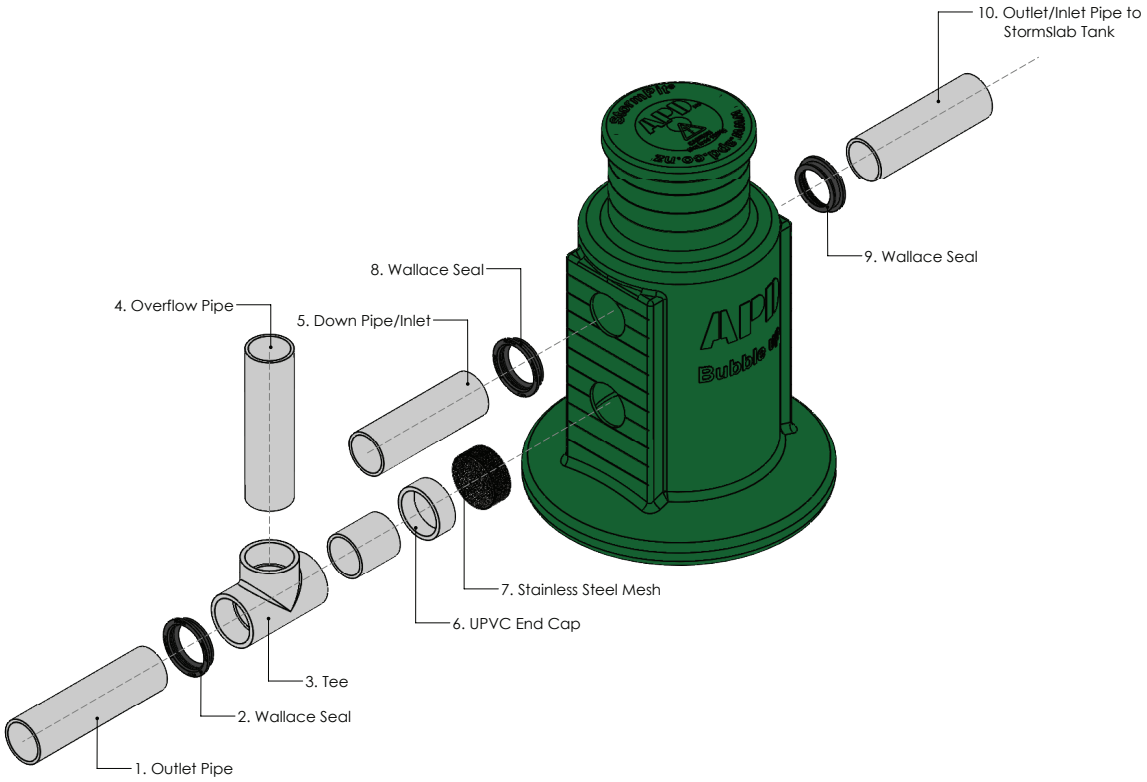
StormSlab Connection Cross Section

SLAB STANDARD ENGINEERING DETAIL

Please see detailed drawings and PS1 documentation in the Members section of our website. **www.apd.co.nz**

STORMSLAB DISTRIBUTION CHAMBER LAYOUT

All down pipes are to be emptied directly into the Distribution Chamber. They can also be placed through the neck of the Distribution Chamber.


10. Outlet/Inlet Pipe to StormSlab Tank
9. Wallace Seal
8. Wallace Seal
4. Overflow Pipe
5. Down Pipe/Inlet
7. Stainless Steel Mesh
6. UPVC End Cap
3. Tee
2. Wallace Seal
1. Outlet Pipe