

Load Bearing Storage Tanks

Updated
25/09/2025

Tanks tailored for unique conditions.



PKS Civil specialises in the production of pipes made from polyethylene (PE) and polypropylene (PP) using an advanced extrusion process, ranging from DN300 up to DN4000.

From pipes, we fabricate manholes, storage tanks in vertical or horizontal and other structures as well as bends and fittings. Our solutions can be tailor-made to meet exact project needs. We offer a variety of joining methods such as integrated PKS electro fusion, rubber ring connections, flange joints and extrusion welded joints.

GUIDELINE TANK VOLUMES BY SIZE							
Diameter (mm)	Length (m)						
	5.8	8	10	11.6	15	17.4	21
1500	10.2 m³	14.1 m³	17.7 m³	20.5 m³	26.5 m³	30.7 m³	37.1 m³
1660	12.6 m³	17.3 m³	21.6 m³	25.1 m³	32.5 m³	37.7 m³	45.4 m³
1800	14.8 m³	20.4 m³	25.4 m³	29.5 m³	38.2 m³	44.3 m³	53.4 m³
2000	18.2 m³	25.1 m³	31.4 m³	36.4 m³	47.1 m³	54.7 m³	66 m³
2500	28.5 m³	39.3 m³	49.1 m³	56.9 m³	73.6 m³	85.4 m³	103.1 m³
3000	41 m³	56.5 m³	70.7 m³	82 m³	106 m³	123 m³	148.4 m³
3500	55.8 m³	77 m³	96.2 m³	111.6 m³	144.3 m³	167.4 m³	202 m³

Larger tanks / storage solutions available but will require joining / site work – please contact us for your specific project and storage needs.

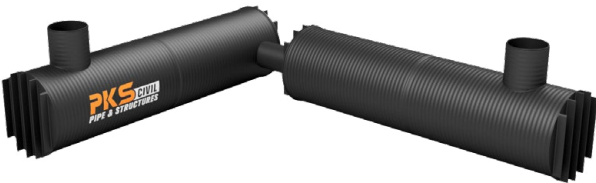
Typical Designs



Single pipe tank with riser and sump option



Inline dual tank consisting of two or more connected parallel pipes with access risers



A corner shaped tank with end covers and dual riser access manhole



Manifold structure with connecting pipe and access risers

PKS Civil can provide storage tanks to suit any volume, ground conditions and footprints

- Tanks are designed and fabricated to meet vehicle, soil, surface dead and live load conditions
- Shaped to fit difficult spaces
- Large attenuation/overflow options
- Structural and anti flotation design with supporting PS1
- Spray systems and low flow channels
- Stub connections for monitoring, pumping and power cables
- Lifting eyes
- Lid options for trafficable or non trafficable

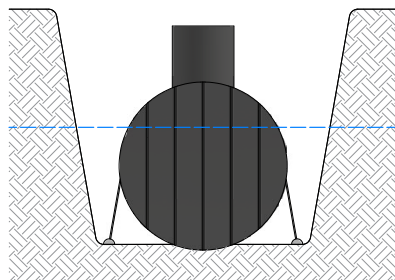
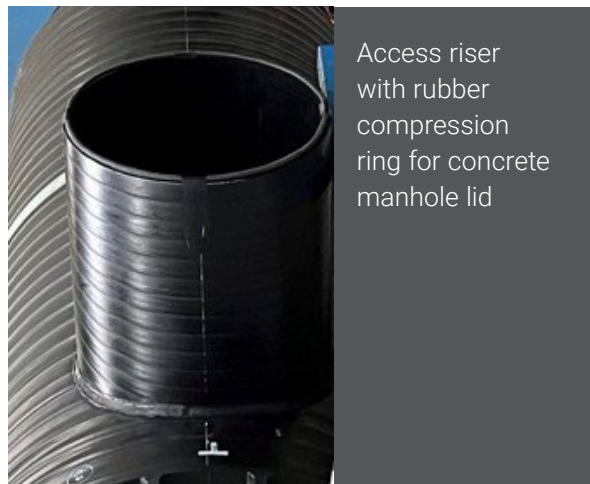
Additional Storage Tank Options



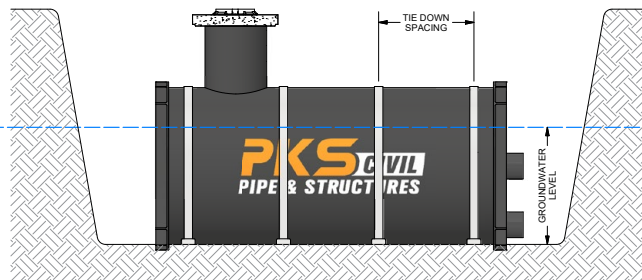
Sparge\spray system



Low flow channel ladder access



Anti flotation design





PROJECT PLANNER

Project Name: _____

Location: _____

Customer: _____

Contact Person: _____ Phone: _____

Email: _____

Request For: ☐ Budgetary/Estimate ☐ Tender ☐ Quotation

Project Start Date: _____ Project Completion Date: _____

Required Return Date: _____

TANK SPECIFICATIONS

Tank DN/ID: _____ mm Application: _____

Length (L): _____ mm

Location: ☐ Below Ground ☐ Above Ground

Volume: _____ Footprint Available: _____ m2

Min SN Required: ☐ SN8 ☐ SN16 ☐ Design Specific: SN

Wash Down System: ☐ Yes (32mm) ☐ Yes (25mm) ☐ No

Channel / benching ☐ Yes (Raised) ☐ Yes (Spring-line) ☐ No

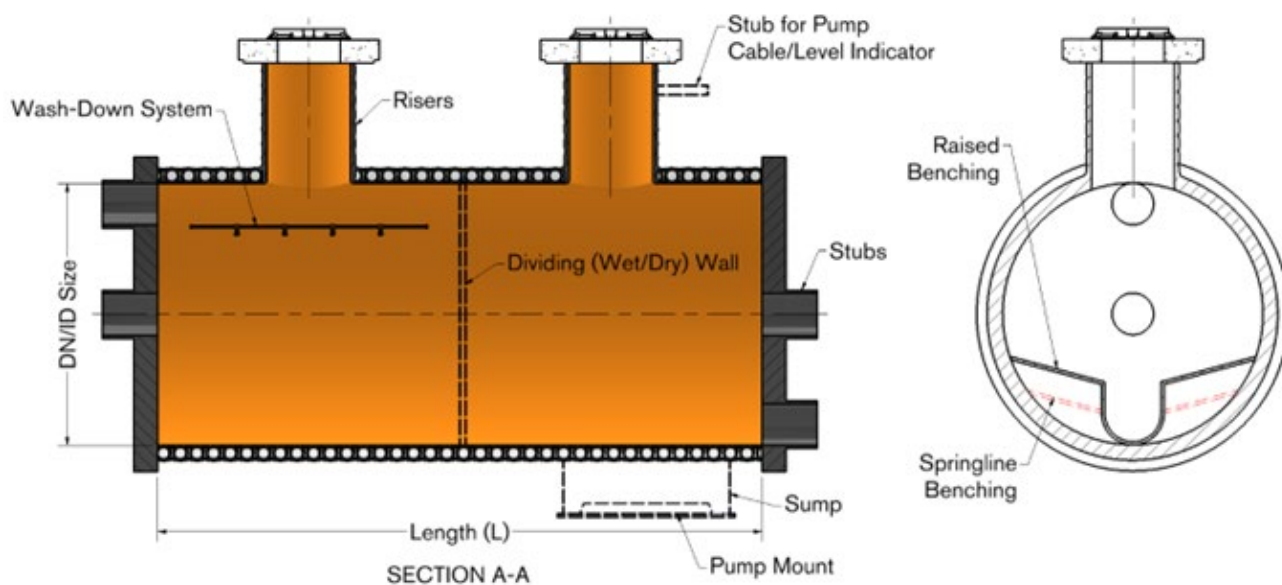
Sump: ☐ Yes ☐ No

Sump Info (Depth, DN): _____

Standard Risers 600 opening / 1000 opening or other size: _____

Stub / entry and exit requirements if any: _____

Comments/Other (e.g. wet/dry dividers, pump info, etc.):



LOADING AND GROUND CONDITIONS

For bespoke loading and ground conditions, we can tell you exactly what stiffness tank is required. Please refer to our technical (static loading) questionnaire.



Static load
questionnaire
QR Code



PKS Civil
website

- *PKS Civil can provide storage tanks to suit a large range of volumes, ground conditions, and footprints*
- *Storage tanks are fabricated to meet vehicle loads/specific ground conditions*
- *Shaped to fit difficult spaces*
- *Large attenuation/overflow options*



Disclaimer: While every effort has been made to ensure that the information in this document is correct and accurate, users of PKS Civil product or information within this document must make their own assessment of suitability for their particular application. Product dimensions are nominal only, and should be verified if critical to a particular installation. No warranty is either expressed, implied, or statutory made by PKS Civil unless expressly stated in any sale and purchase agreement entered into between PKS Civil and the user.

Technical Questions or Information:

For further information or technical inquiries please visit our downloads page
pkscivil.co.nz/resources or call 03 384 6294

PKS^{CIVIL}
PIPE & STRUCTURES