

Rural Base Prep Specification Guidelines

1. Pad specifications

The preparation of the pad for your tank is the responsibility of the customer. Our preferred base material is fine crusher dust; however, if crusher dust is not available in your area, please insist on using screened sand from your local area (please do not use recycled sand as it may contain contaminants). It must be free of sticks, stones, and clay lumps (6mm diameter or less). Crusher dust is required for RT-310 and RT-365 water tanks.

Quarry materials specifications							
Crusher dust	Quarry fines granular material (grain						
(recommended)	sized 5mm or less) of low plasticity, free						
	from organic matter, with a minimum of						
	85% passing the 2.36mm sieve and not						
	more than 15% passing the 0.075mm						
	sieve, conforming to AS 2758.1-2014						
Clean sand	Fine aggregate and uncrushed						
	conforming to AS 2758.1-2014						

- Level Pad (+/- 10mm)
- Minimum thickness of pad is 150mm (or 250mm for RT-310 and RT-365)
- Minimum compaction of 120kPa
- Dimensions are outlined on the table below
- Ensure adequate compaction of the sub soil to avoid subsidence for deep pads
- The customer is required to place an exclusion zone of minimum 20mm Blue Metal/Stone (no clay or concrete) around the base of the tank after installation to prevent erosion and deter rodents from digging around the base

IMPORTANT: If the site is cut and filled to form the base for the tank, ensure there is adequate compaction (minimum allowable bearing pressure of 120kPa) of the sub soil to avoid subsidence.

IMPORTANT: Adequate drainage must be installed to divert water run off away from the tank.

IMPORTANT: If site access or the pad quality is not adequate, it may be necessary to charge an hourly rate of \$65.00 per person for our installation team to leave the tank and reschedule the installation (possibly weeks) until the problem is corrected.

2. Site access

- Please ensure adequate access to the site for a small truck or 4WD and trailer, bearing in mind soil and weather conditions
- Vehicle access is to be available within 10 metres of site
- If unable to meet these requirements, please contact your Installer or Install Co-Ordinator to make alternative arrangements

3.On the day

Attendance:

Whilst not essential due to individual circumstances, we highly recommend meeting the installer on site prior to the install commencing. This will assist in confirming the exact location of all the components and other on-site considerations.

Water:

 The customer is required to arrange supply of 10% of the full capacity of the tank in litres of water upon completion to stabilise the liner. This is a condition of the warranty and MUST be provided on the day of installation. Note: Our Liners are suitable for the storage of water within a pH range of 3-9, and a water temperature of - 6°c to + 40°c.

Payment:

A tax invoice will be forwarded upon notification by the installer of Practical Completion.

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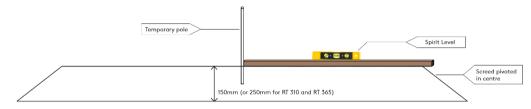


4.Pad preparation

The pad must be level to +/- 10mm

Suggested pad levelling technique

With a spirit level on top of a screed, level out the sand or crusher dust using a temporary pole in the centre of the pad as a pivot point.

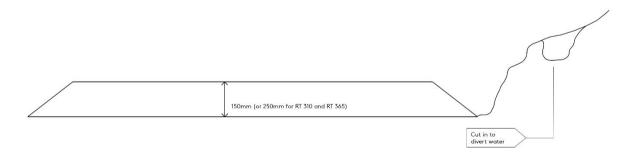


Most sites will fall into 2 main categories

1. A level existing site - therefore the pad preparation is reasonably straight forward.



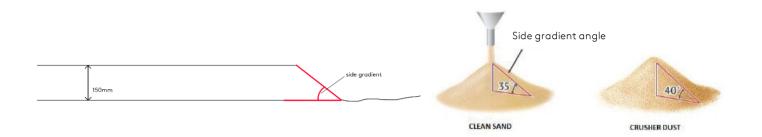
2. The site has been cut in to create level base - therefore we recommend a drain to be dug into the slope above the pad to allow water runoff to be diverted around the tank when it rains.





IMPORTANT:

- 1. The sand/crusher dust pad must be at least 2 metres larger than the diameter of the tank
- 2. The sand/crusher dust pad must be levelled to a +/-10mm max variation all across
- 3. Adequate drainage must be installed to divert water run off away from the tank
- 4. Retaining walls or structures are recommended to maintain the long-term integrity of the sand/crusher dust pad
- 5. In the lack of retaining structures around the sand/crusher dust pad, the correct side gradient of the sand/crusher dust pad along its perimeter is critical to the pad's long-term stability. Below is the recommended max side gradient angle:



It is essential that 75mm thick x 500mm of Blue Metal/aggregate (3/4" or 20mm) must be placed around the total circumference of the base of the tank and maintained for the life of the tank at the stated depth and width. This is designed to stop erosion from water run off or strong winds. (If no Blue Metal is placed around the tank this will void your warranty).



Please note

- If the pad preparation is not adequate (level to +/- 10mm) it may be necessary for our installation team to leave the tank and reschedule the installation (possibly weeks) until the problem is corrected.
- Unfortunately, this will incur additional charges to cover wages and travel. This may total at least \$1000 over and above the quoted tank price.



5.Pad sizes



Model	Tank Diameter	Min. Pad Diameter	Min. Pad Thickness	Quantity of Sand/Crusher Dust	Blue Metal	Min. water (Litres)
RT-25	3.88m	5.90m	150mm	4.1m ³	0.8m ³	2,500
RT-40	4.85m	6.90m	150mm	5.6m ³	0.8m ³	4,000
RT-60	5.83m	7.80m	150mm	7.2m ³	1.0m ³	6,000
RT-80	6.80m	8.80m	150mm	9.2m ³	1.0m ³	8,000
RT-100	7.77m	9.80m	150mm	11.3m ³	1.2m ³	10,000
RT-130	8.74m	10.80m	150mm	13.8m ³	1.2m ³	13,000
RT-160	9.71m	11.80m	150mm	16.4m ³	1.6m ³	16,000
RT-200	10.68m	12.70m	150mm	19.0m ³	1.6m ³	20,000
RT-230	11.65m	13.70m	150mm	22.1m ³	2.0m ³	23,000
RT-275	12.62m	14.70m	150mm	25.5m ³	2.1m ³	27,500
RT-310	11.65m	13.70m	250mm	39.6m³ Crusher Dust only	2.0m ³	31,000
RT-365	12.62m	14.70m	250mm	42.5m ³ Crusher Dust only	2.1m ³	36,500

heritage water

Model	Tank Diameter	Min. Pad Diameter	Min. Pad Thickness	Quantity of Sand/Crusher Dust	Blue Metal	Min. water (Litres)
CT6	3.92m	6.00m	150mm	4.3m ³	1.0m ³	2,500
CT9	4.70m	6.70m	150mm	5.3m ³	1.0m ³	4,000
CT12, HGT55	5.49m	7.50m	150mm	6.7m ³	1.0m ³	5,500
CT15, HGT75	6.26m	8.30m	150mm	8.2m ³	1.2m ³	7,000
CT20, HGT90	7.06m	9.10m	150mm	9.8m ³	1.2m ³	9,000
CT25, HGT110	7.84m	9.90m	150mm	11.6m ³	1.2m ³	11,000
CT30, HGT135	8.63m	10.70m	150mm	13.5m ³	1.2m ³	13,500
CT35, HGT160	9.41m	11.50m	150mm	15.6m³	1.6m ³	16,000
CT41, HGT188	10.18m	12.20m	150mm	17.6m ³	1.8m ³	18,500
CT48, HGT220	10.99m	13.00m	150mm	20.0m ³	2.0m ³	21,500
CT54, HGT250	11.77m	13.80m	150mm	22.4m ³	2.0m ³	24,500
CT60, HGT285	12.55m	14.60m	150mm	25.2m³	2.0m ³	28,000
CT70	13.31m	15.40m	150mm	28.0m ³	3.0m ³	31,500
CT80	14.09m	16.10m	150mm	30.6m ³	3.0m ³	35,500

A typical pad of 150mm Crusher Dust/Clean Sand. This pad was for an RT-100 (104,000lt) Rhino tank.



We take every care to ensure that the information in this document is accurate at the point of publication. Specification may vary (within a small parameter) due to manufacturing process variations or environmental conditions. All images are for illustration purposes only and should not be taken as binding. The actual product may vary, and specification/ dimensions/ colour/ other attributes may differ.

To ensure you are viewing the most recent and accurate product information, please visit this link: https://kingspanwatertanks.com.au/ruralbasepadspecificationguidelines

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