

# FACT SHEET

## **Tank Industries RPL Water Retention Tanks**

Tank Industries tank model RPL – bolted steel rectangular panel tanks are increasing being used as Syphonic, rainwater and stormwater retention tanks.

The main purpose of this tank type is to be able to reuse this retention water for other uses on the sites where these tanks are located.

This model tank design has specific engineering requirements, if you intend on using this model tank in any size for these purposes, the following list of items must be addressed by the hydraulic system designers.

1. All inlet pipes must be fully filtered before any water enters the tank as these tanks are not designed to be rubbish collectors, and some rubbish may tear the tank liner.
2. All rubbish must be stopped before entering the tank, and must be capable of being regularly cleaned external to the tank to avoid water blockages.
3. The inlet pipes must have a full shut off or bypass system to ensure safe entry into the tanks for all future maintenance requirements without the threat of water entering in the tank during maintenance work.
4. Velocity of water needs to be kept to a minimum in the design stage, and water must be located to enter into the centre of the tank and be kept away from tank walls at all times.
5. Reinforced liners with internal webbing must be ordered for all tank systems that will have fast filling or multiple daily water level fluctuations to avoid premature liner replacement.
6. Syphonic water systems must be nominated when requesting tenders as these require additional engineering and bracing due to excessive tank vibration during use.

If system designs where our tanks are used do not follow these careful steps, it may have an effect on any future warranty claims made against Tank Industries.

We would be happy to discuss any of these design issues in more detail with you by contacting our sales department on 03 95513077.