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CONSUMER COMPLIANCE CHECKLIST AS/NZS 4766 : 2006

AS/NZS 4766 : 2006 is an Australian & New Zealand standard written for polyethylene water tanks to ensure they have been properly designed and manufactured to be fit for purpose. As always, certification marks as shown below confirm that a third party has checked and verified the manufacturer has met all the conditions of the standard and certification will give you the highest level of confidence.

However not every manufacturer chooses to certify their products. Regardless of certification, to meet the industry's best practice requirements they must comply with all aspects of the standard. These checks won't ensure the tank does comply however it will be helpful in identifying if it doesn't meet the conditions of the standard. If it appears the tank does not comply, we recommend you contact the manufacturer and ask them for written confirmation of compliance.

Certification at a Glance

These products have been certified by an independent organisation as meeting all the criteria within the standard. Only organisations who have been certified under the standard will have a License number shown on the tank along with organisation who gave them their accreditation.



Checking Compliance



DESIGN

The radius of the external surface bottom knuckle of a flat-bottom tank shall be not less than 25 mm for tanks with a diameter less than 1.8 m, and 38 mm for tanks with diameter greater than 1.8 m. The minimum thickness of the radius shall be not less than the maximum thickness of the cylinder wall. Bottom knuckles that are not a single radius shall be designed using appropriate engineering design methods, which may include finite element analysis.

Example of knuckle radius

WALL THICKNESS

The tank wall thickness shall be calculated by a qualified professional engineer and shall make allowance for the nominated service temperature. Vertical wall thickness and roof thickness shall be not less than 4.5 mm at any location. Floor thickness shall be not less than 3.5 mm at any location.

TANK CAPACITY

The tank capacity shall be not less than the stated capacity. The tank capacity shall be the internal volume calculated with the tank in the vertical position and unfilled. The height of the tank shall be from the base to the invert level of the overflow of the tank. Alternatively, the tank capacity may be determined by filling the tank with water and measuring the quantity to fill the tank to the invert level of the overflow. The useable volume in a storage tank will be dependent on the placement of the outlet.

FITTINGS

Fitted screens shall comply with the applicable rules and regulations prevailing in the state, territory or country to which the tank is to be sold. In the absence of such regulations, the aperture size and material of the screens shall be by mutual agreement between the purchaser and the manufacturer.

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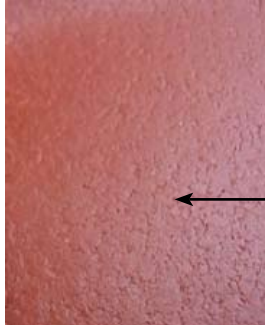
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WORKMANSHIP



At the time of manufacture, the finished tank surface shall be free, as practicable, from visual defects such as foreign inclusions, air bubbles, pinholes, crazing and cracking that will impair the serviceability of the vessel. The surfaces shall be smooth, have a homogeneous appearance, and be free of any loose powder particles. An internal surface with both high gloss and discolouration shall not be acceptable.

No Loose powder or rough feel inside tank.

No Orange peel look to inside surface.

No Teardrop shapes or large bubbles inside surface.

No Obvious gouges, splits, cracks or tears more than 1mm deep.

No Area covered with air bubbles (some are normal).

INSTALLATION

The manufacturer shall provide detailed installation instructions with each tank (either on the tank or a hard copy of instructions). These instructions shall be based on the design and end use of the tank and shall provide the following minimum information:

- Site selection criteria.
- Site preparation instructions.
- Plumbing connection instructions.



MARKING REQUIREMENTS

The tank shall be legibly and permanently marked on the external surface of the vertical wall, or where it can be seen in its normally installed position, with the following information:

- Manufacturer's name or registered trademark.
- Tank capacity, based on the fluid level used in the design criteria.
- Maximum specific gravity of contents of tank.
- Maximum design service temperature, e.g., 23°C.
- Date (month and year) of manufacturer.
- Serial number.
- If the tank does not comply with AS/NZS 4020 and/or AS 2070, as follows:**
 - Not suitable for drinking water and food.
 - Not suitable for drinking water.
 - Not suitable for food.
- Number of this Standard, i.e., AS/NZS 4766.

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