

Tank Owner's Manual

PROJECT: P1-XXX

Client Name: XXX

Owner Name: XXX if available

Tank Brand Southern Cross

Series & Size: XYTXXX

Purpose: XXX

Manufactured: Southern Cross Water Pty Ltd

& Installed by : XXXXX

Congratulations on purchasing a tank from Southern Cross Water Pty Ltd (SXW).

This manual covers the operation, maintenance and warranty requirements for your tank.

With over 50 years of experience in engineering, manufacturing and installing tanks, you can be assured that a Southern Cross tank has been designed for many years of reliable performance.

For optimum tank life and performance, the tank should be regularly serviced and maintained according to our recommendations.

Please ensure you read and understand the tank service and maintenance requirements, as they form part of the terms and conditions of the warranty provided with this tank.

The warranty is conditional and should be read in conjunction with the agreed terms and conditions of sale.

For projects where a tank has been fully supplied and installed by SXW, this document and the warranty conditions apply in full unless otherwise noted within the contract particulars.

For projects where only the tank materials have been supplied by SXW and the installation has been conducted by others, the warranty does not cover workmanship or damage to items sustained during transport.

**For further information call Southern Cross Water on
+61 (7) 3441 5600**

Introduction: Company and Products

Southern Cross Water (SXW) designs, manufactures, installs and services storage tanks throughout Australia, Asia and the Pacific. Southern Cross Water's products and services are continually evolving to meet the needs of the market. We consult on, and manufacture the most appropriate products for our client's applications and our business continues to grow into new national and international markets.

Applications:

- Potable (drinking) water storage
- Fire sprinkler and hydrant storage systems
- Water and waste water treatment facilities
- Municipal water supply
- Process water storage
- Industrial and commercial water storage
- Mining, oil and gas plant water systems
- Other custom and specialised applications

Tank Series Descriptors:

Circular Bolted Panel Tanks

YT1000 is a circular bolted panel tank with an internal water-retaining liner.

YT2000 is a circular bolted panel tank with gasket-sealed walls and a gasket-sealed steel floor.

YT3000 is a circular tank with gasket-sealed walls, which are gasket-sealed to a concrete floor.

YT series tank panels are either galvanised mild steel or stainless steel. Other specialist protective coatings can be supplied upon request.

Maintenance:

Southern Cross Water provides maintenance services for tanks in accordance with Australian Standards for potable and fire water tanks. Regular maintenance is important for retaining a valid warranty. Contact us for advice on this service.

WARRANTY MODULAR STORAGE TANK

THE WARRANTY:

Southern Cross Water Pty Ltd, ABN 18 630 205 702, (hereinafter called “ the Company”) hereby warrants to the purchaser, whose name and address appear on the schedule attached to this warranty document; subject to the conditions of this Warranty; should any part of this YT storage tank (hereinafter called “the tank”) be found by the company to be seriously defective in workmanship or material within Ten (10) years from the date of installation/Practical Completion of the tank, the Company will; at the company’s option, repair or replace the part or supply an equivalent part, which the Company deems to be most suitable, free of charge. This includes Southern Cross Water standard 12 month defect liability period. *This warranty applies to the tank structure and liner.* This blanket statement excludes roof sheeting, covered under separate manufactures warranty.

CONDITIONS OF WARRANTY:

This Warranty shall not apply unless the following conditions have been strictly applied with:

1. The Purchaser must produce proof of purchase, including the date of purchase, together with this document when making a claim under this Warranty. **(To bring Warranty into effect: Return signed last page on receipt to Southern Cross Water on receipt of Tank Owner’s Manual).**
2. The Tank must be used for the purpose and at the address specified in the schedule attached to this Warranty.
3. The Tank must be permitted to have Southern Cross Water signage for the purpose warranty, identification and future maintenance.
4. The Tank must not, at any time; without the written consent of the Company, contain any substance other than that specified on the schedule attached to this Warranty; and that

substance must not be present in the Tank at any time in a quantity that exceeds the maximum quantity specified in the attached schedule.

5. The Tank must be installed by a person or persons approved of by the Company (hereinafter called the “Installer” and whose name and address appear on the attached schedule to the Warranty) and the installation specifications and procedure which were operative at the time of the installation.
6. All invoices for the initial purchase and assembly of the Tank must have been cleared with no monies owing and payment must have been made in full and on time in accordance with the Purchase Order or Contract particulars.
7. *The Tank must be maintained in accordance with the following procedure:*
 - (a) At the expiration of 12 months from initial filling, the Tank must be serviced, inspected and cleaned of all sludge and residue.
 - (b) The procedure detailed in paragraph 7(a) of the Conditions of Warranty should be repeated no later than two (2) years from the date of the initial inspection and maintenance (referred to in paragraph 7(a) of the Conditions of Warranty) and thereafter at intervals no longer than two (2) years and following the procedure as specified in AS 3500.
 - (c) The Tank must be inspected every alternative year in relationship to 7.(a) and (b).
8. The Company reserves the right to determine whether or not any part of the Tank should be repaired or replaced.

The Company is in a position to arrange this maintenance procedure at the request of the Purchaser, with a Southern Cross Water accredited Installer. Cleaning, inspection and/or maintenance must be performed at the applicable fee and by SXW or an authorised representative approved by SXW in writing.

EXCLUSION FROM WARRANTY

1. The Company does not accept any responsibility for any loss or damage, direct or indirect, including but not limited to the following circumstances.
 - (a) Where the tank is subject to natural events and/or external forces and/or loads exceeding the minimum acceptable design criteria required under the appropriate industry design Australian Standard. The following “minimum acceptable design criteria” apply to the tanks installed under this contract and therefore warranty:-

- (i) Wind Actions
AS/NZS1170.2 Structural design actions – Part 2.
 - (ii) Earthquake Actions in Australia
AS/NZS1170.4 Structural design actions – Part 4.
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- b. Where the said loss or damage is a result of any person or persons working on the tank in any way other than specified in paragraph 7 of the Conditions of Warranty without the consent of the Company, including but not limiting the generality of the following; any employee or employees of the Purchaser or any person or persons who are instructed to work on the Tank in any way, other than that specified in paragraph 7 of the Conditions of Warranty, without the consent of the Company.
 - c. Where the said loss or damage is a result from vegetation roots, vermin, pest or livestock, fire, water, earthquake, theft, attempted theft, lightning, explosion, storm, tempest, riot, strikes, civil commotion, malicious damage, impact by vehicle or articles dropped by an aircraft or any happening which is beyond the control of the Company. The term “water” refers to damage associated with excessive water as a result of any root cause, i.e. failure of localised water main, failure of connection to tank, inadequate stormwater drainage etc. This also covers the instance of damage associated with any leak that is not within 24 hours by the customer. Any or all of these events can or may cause significant damage to the tank or can if not managed correctly accelerate corrosion in key components of the tank structure.
 - d. Where the said loss or damage is a result of faulty workmanship on the part of person or persons instructed by the Purchaser to assemble the Tank, or person or persons not approved by the Company to work on the Tank.
 - e. Where such loss or damage is a result of any failure whatsoever in the structure, construction or materials of the whole or part of the building wherein the Tank is installed.
 - f. Where the said loss or damage is a result of the effect of water leaking from the Tank, since it is assumed that the Purchaser or servants or agents shall provide the means by which leakage can flow away without loss or damage occurring.
 - g. Without limiting the generality of paragraph 1 (e) of the Exclusions from Warranty; in the event that the Tank begins to leak and the said loss or damage is a result of failure or



inability of the Purchaser to immediately arrange for the Tank to be drained or immediately notify the Company of leakage upon becoming aware that the Tank is leaking.

h. Where the loss or damage is a result of the failure or inability of the Purchaser to maintain the Tank in accordance with the maintenance instructions described in paragraph 7 of the Conditions of Warranty.

2. ANY RIGHTS IMPLIED BY STATUTE THAT CANNOT BE EXCLUDED, RESTRICTED OR MODIFIED BY THE PROVISIONS OF THIS WARRANTY ARE NOT SO AFFECTED. ALL OTHER STATUTORY RIGHTS, WHETHER EXPRESSED OR IMPLIED, WHICH CAN BE EXCLUDED BY THE PROVISIONS OF THIS WARRANTY ARE HEREBY SO EXCLUDED.

SCHEDULE



**SOUTHERN
CROSS**

PURCHASER XXXX

INSTALLATION ADDRESS XXXX

XXXX

INSTALLATION DATE

TANK BRAND

Southern Cross YT Series

TANK INSTALLED &

Southern Cross Water Pty Ltd

MANUFACTURED BY

20/35 Paringa Road, Murarrie QLD 4172 Australia

PURPOSE AND PRODUCT XXXXX

MATERIAL

Up to including 4mm thick wall sheets Galvabond – Coating class Z275, 5mm thick and over HDG

TANK SIZE

XXX

MAXIMUM CAPACITY

XXXX KL Effective

COMPLETION DATE

XXX

SERIAL NUMBER

XXX

XXXX

OPERATIONS MANUAL

Southern Cross Water

Modular Panel Tanks

FOR

For filling water tank:

1. Check that:
 - (a) The drain valve is isolated (turned off);
 - (b) The outlet valve is isolated (turned off);
 - (c) Any other low level nozzle is isolated (turned off).
2. Ensure liner conforms to the tank walls and base prior to filling.
3. Turn inlet valve on until water begins to fill the tank. Fill gradually at first, at a rate of 1000 mm high over 24 hours.
4. When base is covered with water to a depth of approximately 50mm stop filling and check liner is still in position. Filling pressure can be increased slightly but no more than 2000 mm / 24 hrs from this point.
5. Fill tank to 25% capacity and leave water to settle for 2 hours. Check for any visible signs of leakage.

6. Continue to filling the tank in 25% increments as in step 5 until full. There may be some signs of water seepage from under the tank initially; this could be due to rain water being pushed out under the weight of water in the tank.
7. Monitor tank to ensure float valve operates at specified height, or that pump switch operates to shut-down inlet supply.

MAINTENANCE FOR *Southern Cross Water Modular Panel Tanks*

* All maintenance must be performed according to the following specification in order to ensure tank integrity and hygienic standards. Southern Cross Water does not accept responsibility for any tank failure or deterioration due to:

1. Non-adherence to the maintenance program;
2. Infrequent maintenance. (Refer to routine service process and procedures schedule per AS 1851-2012 5.2).
3. Another company performing maintenance duties.

Note 1:

In many cases Southern Cross Water are able to conduct maintenance on water storage tanks without taking them out of service. This is most advantageous when no alternative water supply is available for fire systems. For more information regarding tank maintenance, contact Southern Cross Water on +61 (7) 3441 5600.

Note 2:

Unless noted otherwise or specifically requested the tank roof is non-trafficable and therefore walking on the roof is not encouraged and Southern Cross Water recommend that client provide as an accessory, a padlock to lock the roof access hatch. Unless noted otherwise, tank shell or roof is not designed to support ancillary items such as pipework and valves and these must be independently supported of the tank.

SITE ARRANGEMENTS:

1. If necessary, works can be performed after hours;
2. It is assumed we will be afforded uninterrupted access throughout the maintenance procedure;
3. All preparations for tank isolation to be made by client, unless otherwise arranged.

If a firm other than Southern Cross Water or approved sub-contractor is contracted to maintain the tank, Southern Cross Water will not be responsible for any leaks occurring after the service and this warranty becomes void.

SCOPE OF WORKS:

1. Ensure all necessary preparations are made

It is the clients' responsibility (unless otherwise arranged) to ensure that the tank is taken in and out of commission. This must be done prior to emptying or servicing the tank.

2. If necessary, empty the tank completely

The company maintaining the tank will be responsible for emptying the tank.

3. Remove minor sludge and debris

All debris and other foreign materials will be removed from the tank base by siphon hose, or wet vacuum cleaner.

4. Clean down walls and Base

Every 12 months (or more frequently as required by statutory authorities or standards) the internal surface should be washed free of dirt and debris. Extreme care should be taken at all times when inside the tank to avoid damage and to prevent any metallic particles from being deposited on the surface of the floor sheets or containment liner. Any areas shown to be rusting should be cleaned, primed and painted with a suitable rust inhibiting coating.

5. Inspect structural integrity

Structural integrity of tank is to be inspected at each service interval. If a concern arises refer to Southern Cross Water for advice, clarification or rectification: Phone +61 (7) 3441 5600.

6. Make regular maintenance and repairs as required

Check that all parts of the tank are safe and in good working order. Report all damage if any. Advise Southern Cross Water if repairs are required. Phone +61 (7) 3441 5600. Leaks may be rectified from external or internal surfaces depending upon accessibility to leak location.

7. Chlorinate as per AS/NZS.3500 and return to service

The tank is to be completely flushed after repairs are complete to remove any debris present from our maintenance program. During the flushing of the tank, 10mg/l of chlorine is mixed with the water to sterilize the tank prior to returning it to service. The amount of chlorine is proportional to the capacity of the tank, not to the water used for flushing.

WARRANTY CERTIFICATE

PURCHASER XXXX
INSTALLATION ADDRESS XXXX
XXXX
INSTALLATION DATE XXXX
TANK BRAND Southern Cross YT Series
TANK INSTALLED & Southern Cross Water Pty Ltd
MANUFACTURED BY 8/17 Cairns Street, Loganholme, QLD 4219 Australia

PURPOSE AND PRODUCT XXX Raw Water/Treated Water-Tank
MATERIAL Up to including 4mm thick wall sheets Galvabond – Coating class Z275, 5mm thick and over HDG
TANK SIZE XX mm Dia. XX mm high
MAXIMUM CAPACITY XX KL Effective
COMPLETION DATE XX
SERIAL NUMBER XX

NAME OF ASSET HOLDER:

NAME AND SIGNATURE OF PURCHASER:

Date:

Upon receipt of the Tank Owner's Manual, please sign and return the last page by email to Southern Cross Water Pty Ltd.

Email: tanksales@sxwater.com.au