

Commercial Tanks

Commercial Rainwater Harvesting
& Storage Solutions



Australian Made & Over 80 Years of Experience

At Kingspan we pride ourselves on our longevity, experience, continued innovation and unrivalled customer service.

Since 1934, we have manufactured quality, long-lasting water tanks and accessories. Today, Kingspan continues to be a market leader and trusted source of expert advice in rainwater harvesting and storage solutions for the residential, commercial and rural sectors.

Our Kingspan Rhino corrugated commercial tanks are built tough in ZINCALUME® steel and come in ZINCALUME® and the full range of COLORBOND® colours. Tanks range from 26,000 litres up to 2.3 million litres. All tanks have a reinforced food grade 5-layer polyethylene liner, making them ideal for rural and industrial applications.

We also offer Permastore Glass-Fused-to-Steel Industrial tanks for applications that corrugated lined tanks cannot service. Permastore tanks offer solutions for mass storage in desalination, effluent, municipal and many other areas.

All our corrugated tanks and their major components, including the Kingspan Rhino liner, are fabricated in our own factory, which means we can control and ensure the quality of every aspect of the tank from manufacturing to installation. Kingspan Rhino liner, our reinforced Food Grade Metallocene coated Liners, are UV treated for applications without a roof and can be used for a range of liquids including high or low pH and recycled water.

Global Expertise

Kingspan Rainwater Tanks & Wastewater is a part of the Kingspan Group, a global business that has operations across a range of product divisions, including pre-insulated building panels, environmental technologies, and renewable energy technologies.

Quality Assurance



Kingspan's Rhino commercial tanks are manufactured in our Western Australian factory under a quality management system certified to ISO 9001. Our quality management system aims to benchmark ourselves against the best in the world and we proudly display the well recognised 'Five-Ticks' Standards Mark to give our customers the confidence that we continually strive to provide cost effective, quality products and services that meet customer's individual needs and expectations.

Tank Sizes* – Corrugated Profile

Kingspan Rhino corrugated commercial tanks are available in a variety of standard sizes, or can be custom designed to meet specific customer or project requirements. The standard range of commercial tanks is available in 5 height specifications as shown below.

NOTE: Sizes listed are gross capacities. Effective capacities vary depending on freeboard required and the quantity, size and position of nozzles.

* capacity in litres

| Tank | Tank Diameter | 2.2m high | 2.9m high | 3.6m high | 4.3m high | 5m high |
|----------|---------------|-----------|-----------|-----------|-----------|-----------|
| RCT-25 | 3.884m | 26,062 | 34,355 | 42,631 | 50,947 | 59,240 |
| RCT-40 | 4.855m | 40,723 | 53,680 | 66,639 | 79,637 | 92,601 |
| RCT-60 | 5.826m | 58,640 | 77,299 | 95,920 | 114,615 | 133,291 |
| RCT-80 | 6.797m | 79,816 | 105,212 | 130,597 | 156,004 | 181,400 |
| RCT-100 | 7.768m | 104,250 | 137,420 | 170,525 | 203,761 | 236,931 |
| RCT-130 | 8.739m | 131,941 | 173,922 | 215,871 | 257,884 | 299,866 |
| RCT-160 | 9.710m | 162,890 | 214,719 | 266,466 | 318,376 | 370,205 |
| RCT-200 | 10.681m | 197,097 | 259,810 | 322,461 | 385,235 | 447,948 |
| RCT-230 | 11.652m | 234,562 | 309,195 | 383,683 | 458,461 | 533,095 |
| RCT-260 | 12.420m | 266,332 | 351,074 | 435,817 | 520,559 | 606,301 |
| RCT-275 | 12.623m | 275,284 | 362,875 | 450,366 | 538,055 | 625,646 |
| RCT-320 | 13.594m | 319,264 | 420,849 | 522,433 | 624,017 | 725,601 |
| RCT-360 | 14.565m | 366,503 | 483,117 | 599,587 | 716,346 | 832,960 |
| RCT-420 | 15.536m | 416,998 | 549,680 | 682,361 | 815,042 | 947,724 |
| RCT-470 | 16.507m | 470,752 | 620,537 | 770,124 | 920,106 | 1,069,891 |
| RCT-530 | 17.479m | 527,764 | 695,688 | 863,613 | 1,031,538 | 1,199,463 |
| RCT-590 | 18.450m | 588,033 | 775,134 | 962,236 | 1,149,337 | 1,336,438 |
| RCT-650 | 19.421m | 651,560 | 858,875 | 1,066,189 | 1,273,504 | 1,480,818 |
| RCT-720 | 20.392m | 718,345 | 946,909 | 1,175,473 | 1,404,038 | 1,632,602 |
| RCT-790 | 21.681m | 788,388 | 1,039,238 | 1,290,089 | 1,540,939 | 1,791,790 |
| RCT-860 | 22.334m | 861,688 | 1,135,862 | 1,410,035 | 1,684,209 | 1,958,382 |
| RCT-940 | 23.305m | 938,246 | 1,236,779 | 1,535,312 | 1,833,845 | 2,132,378 |
| RCT-1010 | 24.276m | 1,018,063 | 1,341,992 | 1,665,920 | 1,989,849 | 2,313,778 |

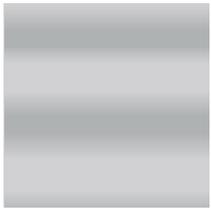


Manufacturing to Australian Standards

All components of Kingspan Rhino commercial tanks comply with and surpass all applicable Australian and Industry Standards.

Colour Range

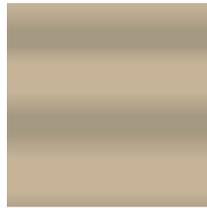
Most tank manufacturers only offer limited colours in their standard range. Kingspan Rhino commercial tanks come in the full range of genuine BlueScope COLORBOND® colours.



ZINCALUME®



Pale Eucalypt®



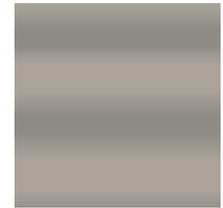
Paperbark®



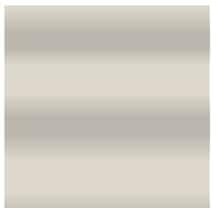
Woodland Grey®



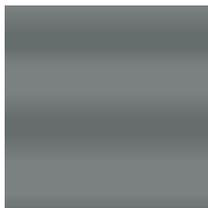
Monument®



Dune®



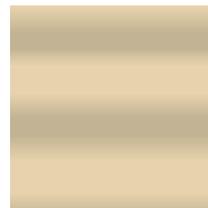
Surfmist®



Windspray®



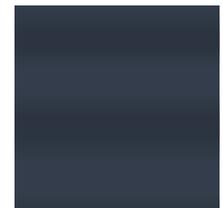
Jasper®



Classic Cream®



Cove®



Ironstone®



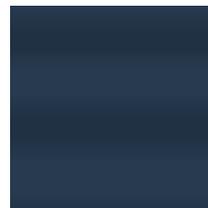
Manor Red®



Cottage Green®



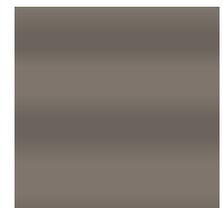
Terrain®



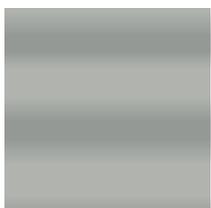
Deep Ocean®



Evening Haze®



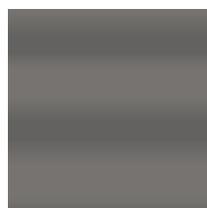
Gully™



Shale Grey™



Mangrove™



Wallaby™



Basalt™



Night Sky®

The COLORBOND® steel colour swatches shown have been reproduced to represent actual product colours as accurately as possible. However varying light conditions and limitations of the printing process may affect colour tones.

Features

Corrugated Wall Profile

Manufactured from quality, genuine ZINCALUME® steel, the wall structure of our tanks is composed of corrugated Blue-Orb sheeting that is rolled and curved by our custom made rollforming equipment. This iconic corrugated profile provides increased wall strength and durability.

Roofing

The roof structures of all Kingspan commercial tanks carry dead and live loads in accordance with AS/NZS 1170:2007 (Structural Design Actions).

We source and supply high tensile corrugated Custom-Orb sheeting to be used in the roof of all tanks. The roof truss system uses Square Hollow Section top cord with structural angle and flat bar plate components to complement a tank designed for all climatic conditions. All trusses are Hot Dipped Galvanised.

Certified design is in accordance with AS 4100 (Steel Structures) and AS/NZS 4600 (Cold Formed Steel Structures).

Welding

All welding and other manufacturing involved in the production of Kingspan Rhino commercial tanks is in accordance with AS/NZS 1554:2008 (Structural Steel Welding).



Structure

All Kingspan Rhino commercial tanks can be specifically engineered for cyclonic regions in accordance with Australian Standards for wind loads AS/NZS1170:2007 (Structural Design Action).

Features



Corrosion Protection

All structural components of Kingspan Rhino commercial tanks are hot dipped galvanized to meet AS/NZS 4680:2006 (Hot Dip Galvanized [Zinc] Coatings on Fabricated Ferrous Articles). Every Kingspan Rhino commercial tank installed uses Sacrificial Magnesium Anodes that are engineered to AS 2239 alloy M3 analysis and performance standard.

The Zinc or Galvanized coating on any steel gives some cathodic protection; however, this protection is limited. The use of Sacrificial Anodes becomes the first defence against corrosion and the Galvanized or Zinc coating on the wall sheets become the second defence. Correct installation and our regular maintenance program are therefore essential to maximising your tank's longevity.



Nozzles

Generally, nozzles used on Kingspan Rhino commercial tanks are manufactured from PE80 HDPE or hot dipped galvanized steel. HDPE fittings are manufactured from PE complying with AS/NZS 4130:2003 and fabricated in accordance with PMBWELD301A.

Nozzles can be supplied as Table E, Table D, BSP, Roll Grooved or ANSI.



Platforms & Ladders

All Platforms and caged ladders on or around Kingspan Rhino commercial tanks are manufactured in accordance with AS 1657-2012 (Fixed Platforms, Walkways, Stairways and Ladders).

Reinforced Food Grade Kingspan Rhino INFINITY Liner

All our tank liners are made in the Kingspan factory in Western Australia and have been for over 20 years. Our qualified liner fabricators use the latest welding techniques and state of the art machinery to produce liners of the very highest quality.

Kingspan Rhino INFINITY Liner is the latest technological advancement in liner fabrics on the world market and is exclusive to Kingspan. Kingspan Rhino INFINITY Liner has a state of the art food grade, UV treated, multi layered film called Metallocene, laminated to the existing reinforced polyethylene liner, giving extra layers of strength and durability. The development of this commercial strength liner demonstrates Kingspan's commitment to innovation and consistently improving our products.



Ring Beam Preparation

All commercial tanks require construction on a concrete ring beam footing. It is imperative for the client to ensure foundations and civil works for the site are adequate. Ring beam design is dependent on tank size and location. Appropriate design specification drawings are supplied by Kingspan at the time of order.



Installation

Kingspan has a network of specially trained tank installers around the world. Our installers focus on quality and excellent service to ensure the job is supplied and installed to the customer's specific requirements.

All Kingspan Rhino commercial tanks are transported to site in flat pack form and then assembled on site. This allows us to position the fittings to the customer's individual requirements and gives us the ability to install tanks on sites with reduced accessibility. Larger tanks may be assembled with the use of cranes.



Clear Top Layer

– Food Grade Metallocene for added strength and longevity.

2nd and 3rd Layers

– 2 layers of Food Grade Polyethylene. strength and longevity.

4th Layer

– Reinforced Woven Scrim provides the core strength to the liner.

5th Layer

– An extra layer of Polyethylene to enclose the scrim.

Kingspan Rhino INFINITY Liner has passed water potable testing at the Australian Water Quality Centre

AS/NZS 4020:4020 and ANSI/NSF-61 and has been tested for:

- Taste of water extract
- Appearance of water extract
- Growth of aquatic organisms
- Cytotoxic activity water extract
- Mutagenic activity water extract



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