

Commercial Tanks

Commercial, Industrial &
Mining Water Storage



kingspan.com.au/water



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 or in 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 tanks and their major components, including the Kingspan Rhino INFINITY 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. The INFINITY Liner, our reinforced Food Grade Metallocene coated Liners, can be used for a range of liquids including high or low pH and recycled water. UV stabilized upgrades are also available for applications without a roof.

Global Expertise

Kingspan is 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 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

Our 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 are available in five different heights as shown below.

NOTE: Sizes listed are gross capacities. Effective capacities vary depending on freeboard required and the 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		
RCT-40	4.855m	40,723	53,680	66,639	79,637	
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-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

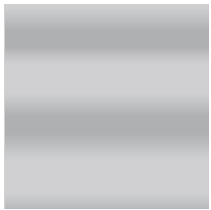


Manufacturing to Australian Standards

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

Colour Range

Most tank manufacturers only offer limited colours in their standard range. Our commercial tanks come in the full range of genuine BlueScope COLORBOND® colours. COLORBOND® Ultra is also available for selected colours to suit severe coastal and industrial environments.



ZINCALUME®



Pale Eucalypt®



Paperbark®



Woodland Grey®



Monument®



Dune®



Surfmist®



Windspray®



Jasper®



Classic Cream®



Cove®



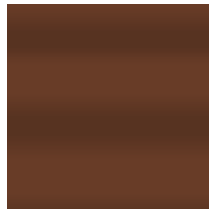
Ironstone®



Manor Red®



Cottage Green®



Terrain®



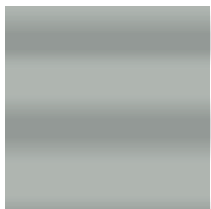
Deep Ocean®



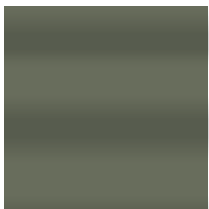
Evening Haze®



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 CUSTOM 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. All roof trusses are fabricated using welded structural steel and assembled with high tensile bolts with the ability to be designed to suit any environmental 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 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 galvanised to meet AS/NZS 4680:2006 (Hot Dip Galvanised [Zinc] Coatings on Fabricated Ferrous Articles). Every commercial tank installed includes Sacrificial Magnesium Anodes that are engineered to AS 2239 alloy M3 analysis and performance standard.

The Zinc or Galvanised coating on any steel gives some cathodic protection; however, this protection is limited. The use of correct installation and our regular maintenance program are therefore essential to maximising your tank's longevity.



Nozzles

Generally, nozzles used on our commercial tanks are manufactured from PE80 HDPE or hot dipped galvanised steel. HDPE fittings are manufactured from High Density Polyethylene complying with AS/NZS 4130:2003 and fabricated in accordance with PMBWELD301A.

Nozzles can be supplied with Table E, Table D, ANSI/AMSI or Class PN16 flanges as well as BSP (threaded) and Roll Grooved connections.



Platforms & Ladders

All Platforms and caged ladders on or around our 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.

The Kingspan Rhino INFINITY Liner is the latest technological advancement in liner fabrics on the world market and is exclusive to Kingspan. The INFINITY Liner has a state of the art food grade, 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 or suitably designed 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 commercial tanks are transported to site in flat pack form and then assembled on site. This allows 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.

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

AS/NZS 4020:2005 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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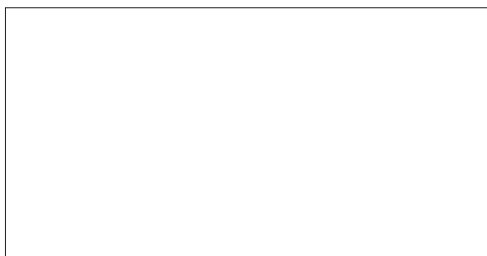
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