



Ritek XL Thermal Wall® System - Specification sheet

The Ritek Thermal Wall® System is delivered complete with a high performance thermal insulation layer bonded to the inside of the panel. Saving valuable floor space.

Ritek® Thermal Wall incorporates built-in insulation allowing for a high thermal rating of up to R-value 4.8. No need for additional insulation, framing and lining to achieve BCA compliance for wall fire, sound, and thermal performance.

Our in-house drafting team custom manufacture the panels to your architect's specification to ensure the Ritek® Thermal Wall is delivered to your site pre-fabricated, and ready to install. Electrical and gas services can be cast in. Windows and fire doorframes can be pre-installed.

Panels are stood in place, both vertical and horizontal reinforcement is placed as required and the wall completed by core filling the panels with structural concrete.

A network of installer teams in conjunction with our onsite project coordinators enable efficient construction, with minimal down-time. The result is a straight and true, durable wall, which maximises floor space. On time, on budget.



Suitable for use in single residential, multi-storey residential and commercial buildings as load bearing/structural walls up to 25 stories or higher in non-load-bearing capacities.

Ritek® Thermal Wall System Specification			
Wall Panel Thickness	Concrete Core	Surface Density (Core Filled)	Typical Panel Weight
150mm to 265mm	110mm to 225mm	> 220 kg/m ²	22 kg/m ² to 28 kg/m ²
Panel Components 6mm Fibre Cement Sheeting bonded to a Patented Composite Aluminium and ABS Stud with high density thermal insulation. All aluminium components and accessories are protected by chromate coating.			
Internal Finish Set joints and apply a standard paint finish (Level 4)			
External Finish Set joints and apply a standard texture coating system finish			

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Ritek XL Thermal Wall® System – Preliminary Panel Selection						
AS 3600 FIRE RESISTANCE PERIOD (FRP)						
FIRE RATING		30	60	90	120	180
Concrete Core mm		≥100	≥110	≥120	≥150	≥180
R VALUE	Insulation Thickness mm	Wall Panel mm				
1.5	28	150	150	165	200	265
2	38	150	165	200	200	265
2.5	50	165	200	200	265	265
2.8	56	200	200	200	265	265
3.2	66	200	200	200	265	265
4.1	86	200	265	265	265	-
4.8	100	265	265	265	265	-
6.2**	132	265	265	265	-	-
6.6**	142	265	265	-	-	-

** Special order – consult with Ritek Australia before specifying/ordering. R-Values shown indicate heat flow out in accordance with AS/NZS 4859.1.

Panels can be custom specified to increase thermal and acoustic properties. Refer to the Ritek® Thermal Wall System Design and Detailing Manual for further information and fire ratings.

Meets the requirements:

- AS3600:2009 - Concrete structures
- AS3610:1995 - Formwork for structures
- AS 1530.4:2005 - Fire tests on building materials
- BCA 2016: Vol1 & Vol2 – Building Code of Australia

The Ritek® XL Wall® System has been fully verified and is listed on ecospecifier.org the leading global source of sustainable development and life cycle assessed green product information.

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