

TECH DATA

Benefits

- Ideal substrate for tiles as it has limited expansion or contraction when exposed to moisture, reducing the likelihood of cracked or debonding tiles.
- Expansion joint intervals of up to 15m for ceilings.
- 100% water resistant, with no disintegration or damage when wet.



PERMAROCK® Cement Board Indoor is suitable for swimming pool ceilings.

PERMAROCK® Cement Board Indoor is a solid, engineered wall and ceiling lining made from inorganic aggregated cement embedded with coated glass fibre mesh. It has a high dimensional stability when exposed to moisture or temperature variations, is highly resistant to impact and has good sound insulation and has all properties that are required in water-intensive areas such as swimming pools, spa areas, bathrooms and commercial leisure facilities.

Product Information

SHEET SIZE	THICKNESS (mm)	WIDTH (mm)	LENGTH (mm)	WEIGHT* (kg/m ²)
	13	1200	3000	15.0
PROPERTIES	DENSITY (kg/m ²)		R VALUE (m ² K/W)	
	1150		0.035	
	THERMAL COEFFICIENT OF LINEAR EXPANSION (10 ⁻⁶ /K)		CHANGE IN DIMENSIONS - DRY TO WATER SATURATED (%)	
	7		0.11	
FIRE HAZARD PROPERTIES	Group 1 material according to the requirements of BCA Section C1.10 Fire Hazard Properties Average Specific Extinction Area < 250 m ² /kg as required by BCA Specification C1.10a, Clause 3(c)			
COMBUSTIBILITY	Classified as non-combustible according to the BCA Section C1.12			
HAZARDS IDENTIFICATION	Not classified as hazardous according to the criteria of NOHSC Australia			

* Weights indicated are nominal

Application

PERMAROCK® Cement Board Indoor can be used for residential and commercial walls and ceilings where water and impact resistance, as well as sound insulation properties are required.

PERMAROCK® Cement Board Indoor provides an excellent tile substrate and alternative to brick and block construction, especially in wet areas as it remains stable under water exposure reducing the likelihood of substrate movement and therefore cracked or debonding tiles.

Areas subject to high levels of water exposure where plasterboard is not suitable would benefit from the application of PERMAROCK® Cement Board Indoor, including swimming pools, spa areas and commercial change rooms.

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Performance

Water
 Exceptional resistance to water, humidity and temperature variations maintaining strength even in high exposure areas. It is a breathable material and has a vapour diffusion resistance of $\mu = 50$.

Impact
 Engineered cement aggregate material provides a solid panel that has excellent impact resistance.

Sound
 Excellent acoustic properties.

Resistant to Mould Growth

PERMAROCK® Cement Board Indoor has high alkalinity, a pH of 12 and is also completely inorganic, so it acts naturally as a bactericidal and fungicidal barrier, preventing microbial growth and mould.

“Moderating variations in indoor relative humidity through the liberal use of hygroscopic and ‘breathable’ materials can virtually eliminate the potential for fungal growth. A complementary approach is the use of finishes which do not provide food for fungi and/or have a high pH; virtually no fungi can survive on surfaces with a pH over about 10.”^[1]

Installation

PERMAROCK® Cement Board Indoor is installed using PERMAROCK® Maxi Screws, with no pre-drilling required. It is easy to cut with either a diamond blade for a perfect edge or scored with a knife and snapped easily, making installation quick and

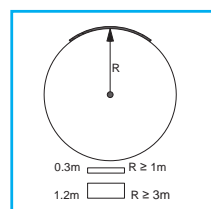
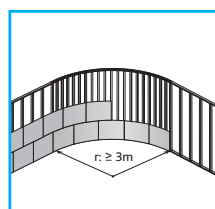
simple.

PERMAROCK® Cement Board Indoor can be fixed to timber or steel frames. Wall sheets can be tiled without the need for setting joints, or finished with render and embedded mesh.

Curved Walls

It is possible to install PERMAROCK® Cement Board Indoor in curved wall applications.

- Board size: 1200mm wide, minimum curving radius $\geq 3m$
- Strip size: 300mm wide, minimum curving radius $\geq 1m$
- Maximum stud spacing: $\leq 300mm$ (external radius).



Warranty

Knauf's products are guaranteed by a 10 Year Warranty. Visit knaufplasterboard.com.au for details.

Technical Advice

For technical advice, please call Knauf technical services on **1300 724 505**.

For the latest technical information on this and other Knauf products visit, www.knaufplasterboard.com.au

Source: ^[1] Indoor Air Quality, Healthy Buildings, and Breathing Walls' J F Straube, Research Engineer, University of Waterloo, Ontario.