AN IDEAL BACKING BOARD FOR WET AND HUMID AREAS

PERMAROCK® Cement Board Indoor

PERMAROCK®

PERMAROCK® CEMENT BOARD INDOOR

An ideal backing board for building walls and ceilings in wetroom areas

Representing modern drylining technology, PERMAROCK® Cement Board is helping change the way people build, and the way buildings look and perform. Designed for interior walls and ceilings, PERMAROCK® Cement Board Indoor is a key part of the range – enhancing the work of architects and installers alike.

It's the perfect board for the most challenging wet and humid conditions for both wall and ceiling applications – making it ideal for everything from swimming pools and steam saunas to communal showers and kitchen areas.

Manufactured from inorganic materials and highly resistant to water and mould, PERMAROCK® Cement Board Indoor weighs only 11 kg per square metre - making it easy to handle and fast to install. With excellent flexibility compared to alternative products, it is suitable for use with curved walls and ceilings too.

Created for the next generation of imaginative, sustainable buildings, PERMAROCK® Cement Board Indoor is changing the way the world builds.

All works undertaken to prescribe the use of or to install Knauf's products and systems must be performed by experienced and, where required by applicable laws, appropriately licensed personnel. Knauf's products and systems must be installed in accordance with Knauf's installation manual, Systems+, and any other product or system specific literature issued by Knauf. If installation works are not performed in compliance with such product literature, by experienced and licensed personnel, or are incorrectly performed by experienced or licensed personnel, there is a serious risk that the works, application and performance of the relevant system or products will be compromised, which could result in property damage, injury or death.

All personnel who undertake works to install Knauf's products and systems must comply with all applicable health and safety laws, including wearing appropriate personal protection equipment. If personnel do not comply with applicable health and safety laws, including by not wearing appropriate personal protection equipment, there is a serious risk of injury or death.

All of Knauf's products and systems must only be used for the uses identified in this document (and any other product or system specific literature issued by Knauf from time to time). Before prescribing or using any Knauf product or system for any other use, you must contact Knauf.

All recommended component parts for Knauf's products and systems should be used and not substituted for other products. If component parts are substituted, there is a serious risk that the works, application and performance of the relevant system or products will be compromised, which could result in property damage, injury or death.

CONTENTS

An ideal backing board for wet and humid areas

PERMAROCK® Cement Board Indoor draws on our pioneering technology and the partnerships we build with our customers to deliver innovation in construction. We are helping to change the way people build and what can be achieved when designing and building for wet and humid conditions.

Only 11 kg/m², PERMAROCK® Cement Board Indoor is lightweight and can help to reduce effort in transportation and handling while still delivering dimensional stability and reliable performance in the wet.

With a bending radius of 1m, without needing to cut strips, PERMAROCK® Cement Board Indoor provides design freedom for curved walls in everything from swimming pools to showers. Simple to score and snap, it's also easy to install.

As easy to use as gypsum board, the light cement board means fast installation, which may help to increase productivity at all stages of construction - particularly in the most challenging wet areas.

ADVANTAGES

Aggregated Portland cement board with coated glass fibre mesh embedded in back and front surfaces. Ends are square cut, and edges reinforced and finished smoothly (EasyEdge™).

Performance

- 100% water-resistant
- Mould and mildew-resistant
- NOT deemed COMBUSTIBLE according to AS 1530.1-1994
- Robust and reliable with high impact resistance and sound insulation
- Safe to use, hygienic and manufactured from natural materials

Processing/Installation

- Only 11 kg/m² – meaning less effort in handling, including overhead installation
- Easy to cut using a simple score-and-snap technique
- No pre-drilling required
- Bending radius of 1 m at full board size

Finishing

- Ready keyed for tiling – only one layer required for tile finish
- Supports tiling up to 50 kg/m²
- Ready to accept proprietary painted or rendered finish

Application

PERMAROCK® Cement Board Indoor is perfect for wall and ceiling applications in wet and humid areas in a range of buildings, from sports halls and gymnasiums to schools, museums, hospitals and public buildings, as well as luxury hotels and apartments. The wide range of applications include:

- Communal/public showers and bathroom areas
- Changing rooms
- Swimming pools and hot tubs
- Wellness areas and spa suites
- Steam saunas
- Operating theatres
- Industrial kitchens

Properties and dimensions	
Thickness (mm)	12.5
Weight (kg/m²)	Approx. 11
Width (mm)	1200
Length (mm)	3000

A reliable, robust system for wet and humid areas

Dampness is the principal cause of structural damage in today's buildings. Water appears in a construction as:

- Standing and flowing water
- Capillary water
- Dripping water
- High relative air humidity

In many areas of construction, the ability to withstand damp and water is critical for the quality and durability of a building unit, for example, in all domestic and commercial wet areas, in laboratories, kitchens, swimming pools and saunas.

Protection from damp is also important in cellars and garages because these building units are often at risk from masonry damp or ground damp. Construction materials for these areas must meet a variety of requirements and display the following characteristics:

- Water resistance and dimensional stability of the material
- Resistance to mould formation
- Moisture vapour permeability for optimum indoor climate

PERMAROCK® Cement Board Indoor is the ideal building panel for such areas.

PERMAROCK® Cement Board Indoor is water-resistant. Under water impact, PERMAROCK® Cement Board Indoor displays extremely slight and system-safe changes in form. The cement board changes neither its structural cohesion nor its static characteristics. PERMAROCK® Cement Board Indoor is resistant to mould growth and is therefore also suitable for use in areas where there is a high level of damp. Altogether, this robustness, resistance and reliability in performance makes PERMAROCK® Cement Board Indoor perfect for both walls and ceilings in wet environments.

SYSTEM OVERVIEW – ACCESSORIES

Fastening			Length (mm)	Packaging
Knauf Maxi Screw SN25		› Knauf Maxi Screws have been specially developed for fixing PERMAROCK® Cement Board onto metal frameworks of differing thicknesses. Nail tip (SN) and drill tip (SB) versions with countersunk head are available. All Knauf Maxi Screws have a special corrosion-proof coating, which provides a guaranteed 720 hours' corrosion resistance in a salt spray test.	25	1000 pieces/carton
Knauf Maxi Screw SN39			39	500 pieces/carton
Knauf Maxi Screw SN55			55	250 pieces/carton
Knauf Maxi Screw SB25			25	250 pieces/carton
Knauf Maxi Screw SB39			39	250 pieces/carton

Material of substructure	Steel framework				
Metal thickness	0.6 mm ≤ x ≤ 1.0 mm			1.0 mm < x ≤ 2.0 mm	
Number of board layers	Single layer	Double layer	Triple layer	Single layer	Double layer
Knauf Maxi Screw SN25	x				
Knauf Maxi Screw SN39	x	x			
Knauf Maxi Screw SN55			x		
Knauf Maxi Screw SB25				x	
Knauf Maxi Screw SB39				x	x

Joint treatment			Coverage	Packaging
Knauf Joint Adhesive (PU)		› Knauf Joint Adhesive (PU) is used for wall applications to bond individual PERMAROCK® Cement Board Indoor panels.	Approx. 50 ml/m² (approx. 25 ml/m joint)	310 ml/cartridge 20 cartridges/carton
Knauf Joint Filler & Skim Coating – white		› Knauf Joint Filler & Skim Coating - white is applicable for Knauf Maxi Screw heads only.	Joint treatment: 0.02 kg/m²	20 kg/bag

Priming			Coverage	Packaging
Knauf Board Primer		› Knauf Board Primer is a ready-to-use synthetic dispersion for priming Knauf Cement Board Indoor panels to provide maximum adhesion of tiles and plasters.	Approx. 40-60 g/m² Dilution: 1:2 (primer : water)	15 kg/pail

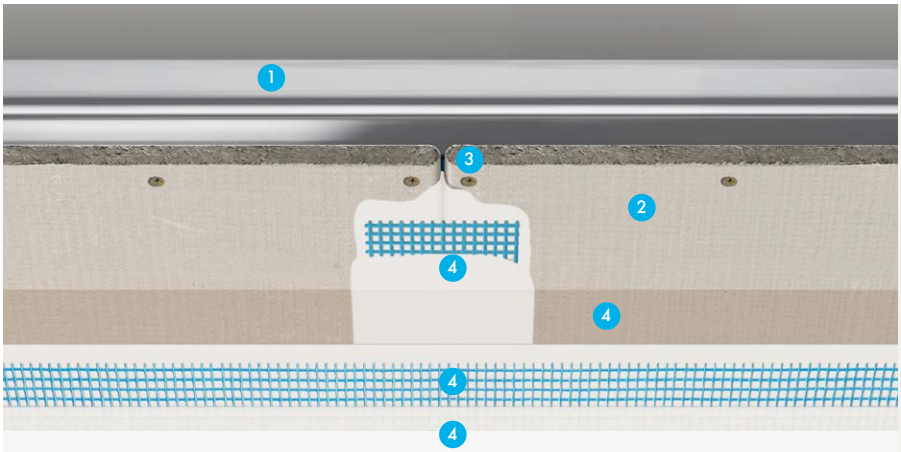
SYSTEM SOLUTIONS

A technologically advanced building system that integrates with the whole range of Knauf products and accessories, PERMAROCK® Cement Board Indoor has been designed to be the perfect solution for wetrooms and other wet or humid areas.

INTERIOR CEILINGS

Suitable for ceiling applications in high humidity indoor areas including wet rooms.

Interior ceilings with proprietary render or painted finishing system



EXAMPLE OF CEILING BUILD-UP

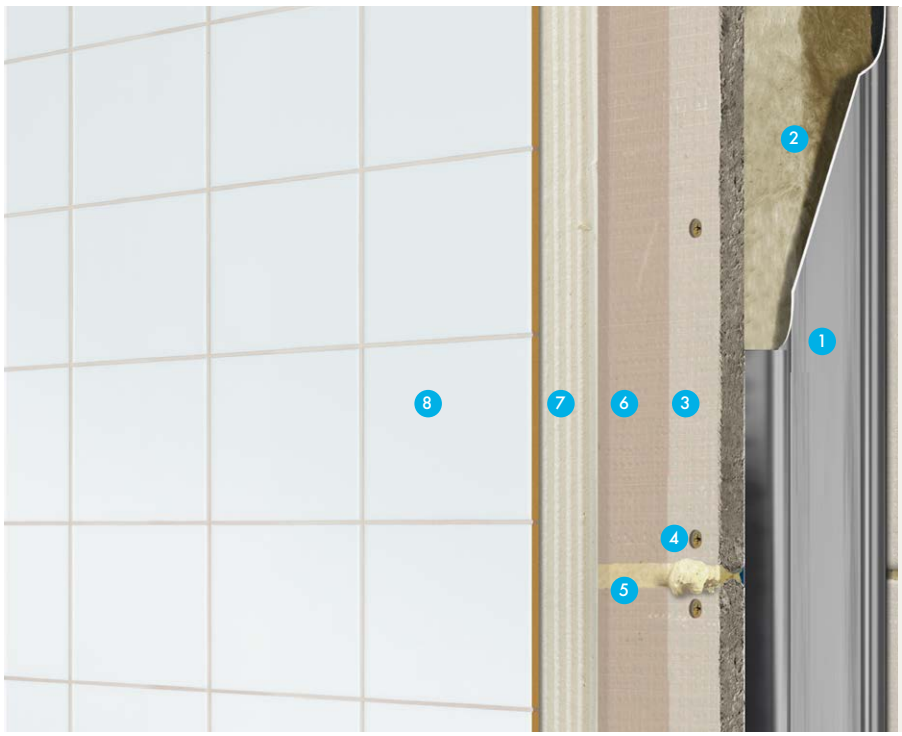
1. Rondo ceiling framing system
2. PERMAROCK® Cement Board Indoor
3. Knauf Maxi Screw
4. Recommended proprietary finishing system (including primer)

- Provide 3-5 mm gap between adjacent boards at long and short edges of PERMAROCK® Cement Board Indoor
- Control joints should be at a maximum of 15 m intervals

INTERIOR WALLS

Robust, impact resistant and 100% water-resistant for reliable performance. For wall applications, single and double planking is possible, depending on project-specific fire protection and sound insulation requirements.

Interior walls with tiles



EXAMPLE OF WALL BUILD-UP

1. Rondo wall framing system
2. Knauf Insulation materials
3. PERMAROCK® Cement Board Indoor
4. Knauf Maxi Screw
5. Knauf Joint Adhesive (PU)
6. Board Primer
   · In non wet area, use Knauf Board Primer
   · In wet area, use a suitable waterproofing membrane in accordance with AS 3740 requirements
7. Flexible tile adhesive (by others)
8. Tiles (by others)

- No gap required between adjacent boards at long and short edges of PERMAROCK® Cement Board Indoor
- Control joints should be at a maximum of 7.5 m intervals and to AS 3958 requirements which ever is less

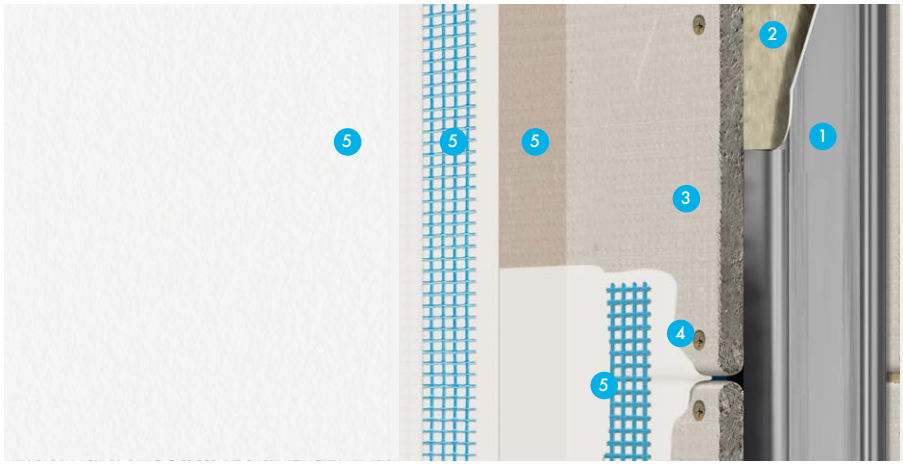
Interior walls with tiles and proprietary finishing system above

EXAMPLE OF WALL BUILD-UP

1. Rondo wall framing system
2. Knauf Insulation materials
3. PERMAROCK® Cement Board Indoor
4. Knauf Maxi Screw
5. Knauf Joint Adhesive (PU)
6. Board Primer
   · In non wet area, use Knauf Board Primer
   · In wet area, use a suitable waterproofing membrane in accordance with AS 3740 requirements
7. Flexible tile adhesive (by others)
8. Tiles (by others)
9. Recommended proprietary finishing system (not recommended in wet areas as defined by AS 3740)

› No gap required between adjacent boards at long and short edges of PERMAROCK® Cement Board Indoor
› Control joints should be at a maximum of 7.5 m intervals and to AS 3958 requirements which ever is less

Interior walls with proprietary render or paint finish system (Option 1)

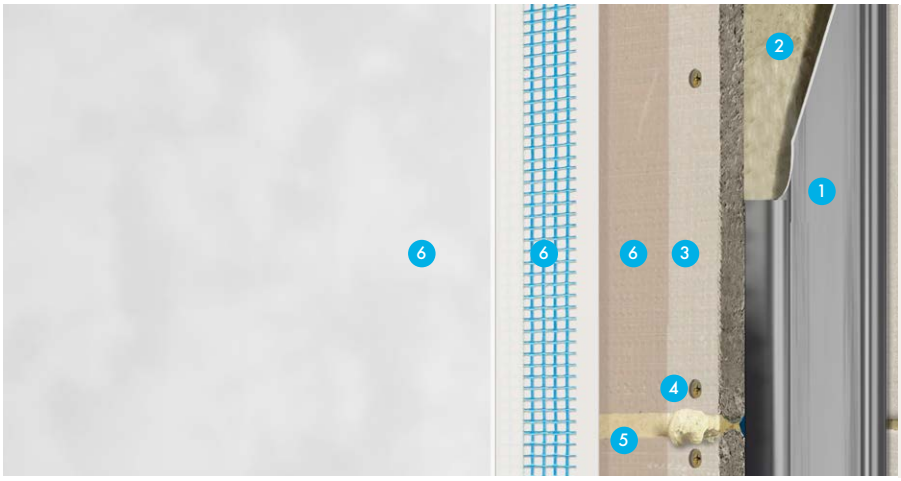


EXAMPLE OF WALL BUILD-UP

1. Rondo wall framing system
2. Knauf Insulation materials
3. PERMAROCK® Cement Board Indoor
4. Knauf Maxi Screw
5. Recommended proprietary finishing system (including primer)

› Provide 3-5 mm gap between adjacent boards at long and short edges of PERMAROCK® Cement Board Indoor
› Control joints should be at a maximumn of 15 m intervals

Interior walls with proprietary render or painted system (Option 2)



EXAMPLE OF WALL BUILD-UP

1. Rondo wall framing system
2. Knauf Insulation materials
3. PERMAROCK® Cement Board Indoor
4. Knauf Maxi Screw
5. Knauf Joint Adhesive (PU)
6. Recommended proprietary finishing system (including primer)

› No gap required between adjacent boards at long and short edges of PERMAROCK® Cement Board Indoor
› Control joints should be at a maximum of 7.5 m intervals

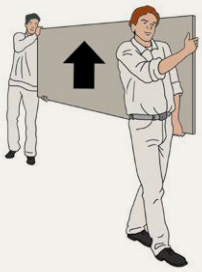
100% WATER-RESISTANT

Superb for swimming pools

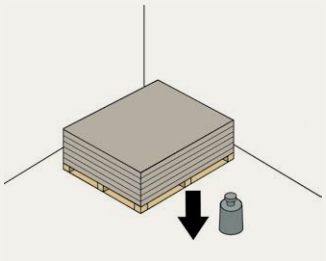
- Effortlessly handles splash, spray and even the highest humidity with no expansion or warping.
- Eliminates humidity and thermal-related expansion, which could otherwise cause tiles to crack or loosen.
- Compatible with acoustic ceiling plaster to absorb noise – perfect for swimming pools.

PRODUCT HANDLING

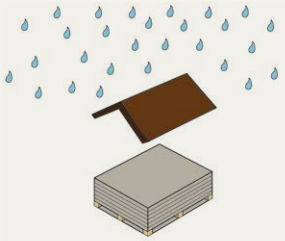
Boards



- Always carry the boards upright, or use board rollers. Handle with fork lift or crane as palletted goods. Take care not to damage corners and edges when setting the boards down. Place boards down on their long edge before laying them flat.



- Ensure that the base is strong enough to support the boards.



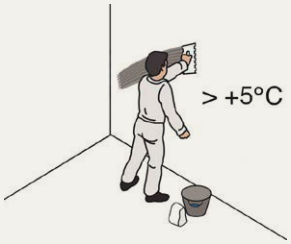
- Protect boards from moisture and weathering before they are installed. Boards that have become damp must be dried on both sides on a flat surface prior to fitting. Before installing, condition the boards to the ambient temperature and humidity.

Framing

- Protect profiles from moisture and weathering before they are installed. Products should not be left permanently exposed to the elements.

Powder materials

- Store bags in a dry place and in original packaging.



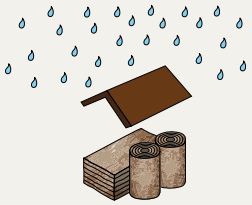
- Do not apply joint fillers, basecoat or finishing materials in temperatures less than +5°C.

Health and safety

- Avoid unnecessary dust on job site when using electrical saw. Keep sanding and other dust generation to a minimum. Maintain adequate ventilation and/or wear suitable protection.
- Exercise care when using power tools and take all necessary precautions.
- Follow instructions on packaging when applying system accessories.
- When using powdered products, mix with water in well-ventilated conditions. Avoid contact with eyes and skin. In the event of contact with the eyes, irrigate with plenty of clean water immediately.
- When handling insulation or cutting boards which contain glassfibre, wear suitable protection including face mask and gloves. Wear protective glasses when working overhead.
- Follow national health and safety regulations at all times.

Product data sheets and material safety data sheets are available on our website **www.knaufapac.com/au/permarock**

Insulation



- Insulation materials are supplied enclosed in packaging which is designed for short term protection only. For longer term protection on site, the product should be stored either indoors, or under cover and off the ground. Products should not be left permanently exposed to the elements.

GENERAL INFORMATION

for creating substrates

Rondo 605 furring channel

Rondo 129 furring channel

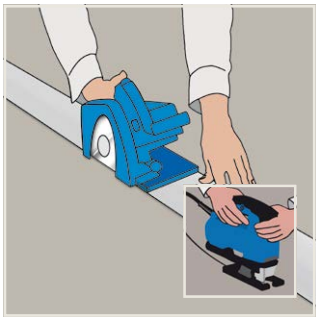
Rondo Duplex stud

Rondo stud

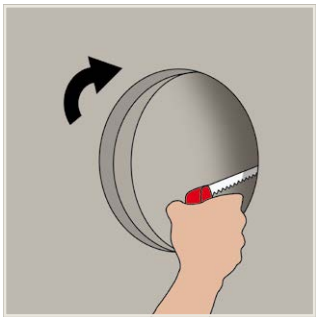
PERMAROCK® systems have been developed with Rondo steel framing components. For walls, ensure all relevant PERMAROCK® Cement Board Indoor joints are backed by Rondo Duplex studs (dependent on horizontal or vertical board installation). For ceilings, ensure all PERMAROCK® Cement Board Indoor short edges are backed by Rondo 605 furring channel. Refer to the installation guide section of this manual and Rondo for design and details.

for cutting Permarock boards

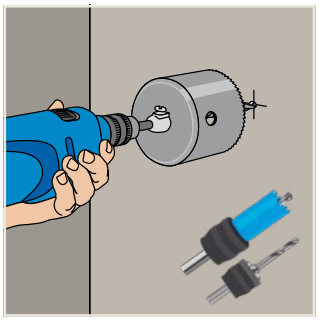
Use a knife to score and snap PERMAROCK® Cement Board Indoor.



For sharp-edged cuts, for example, exterior edges, use a hand-held circular saw with a dust extractor or a pendulum jigsaw. Use of a carbide or diamond-tipped saw blade is recommended.



To make cut-outs for wiring and pipes, use a jigsaw or hole saw.



CLEAN AND SAFE

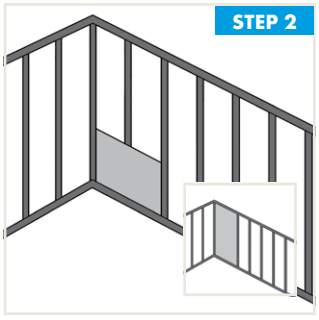
The perfect recipe in food processing

- 100% water-resistant – making it perfect for walls that need intensive cleaning and high-pressure jet spraying.
- Even with intense cleaning with chemical agents, PERMAROCK® Cement Board Indoor will not soften, swell, crumble or disintegrate.
- Inorganic, and so will not harbour microbes, mould or mildew.
- Offers superior fire resistance – ideal for a range of applications and environments.

INSTALLATION OF INTERIOR WALLS

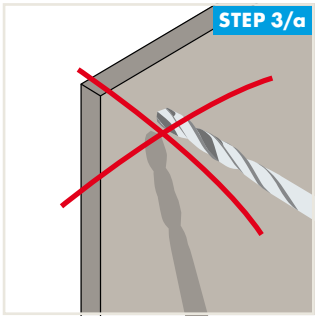
Create substructure

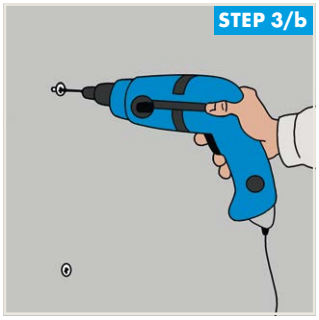
Set steel studs at a maximum of 600 mm for horizontal and vertical installation.
Ensure wide face steel studs (Rondo Duplex stud) are located at PERMAROCK® Cement Board Indoor edges location (dependent on board installation orientation).
Ensure the set out of studs to accommodate control joints requirements with PERMAROCK® Cement Board Indoor (dependent on jointing system) and other building structure control joints.
Refer to STEP 4 and 5 for details.



Align the board

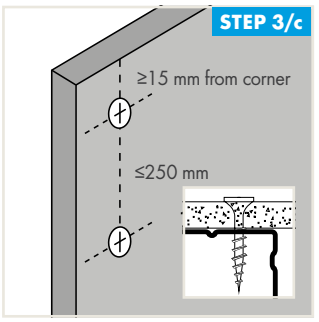
Align the first PERMAROCK® Cement Indoor board along the steel studs. Ensure boards are installed level. PERMAROCK® Cement Board Indoor may be installed horizontally or vertically. Refer to STEP 4 for details.





Fastening with screws

Generally, no pre-drilling of boards is required. However, pre-drilling of boards and profiles is needed if the material thickness of the profiles exceeds 2 mm (according to static requirements) or when blind rivets are used instead of screws. To fasten the boards with screws use a screw gun with depth stop (comprising overturned sleeve and a stop sleeve). This ensures that all screws are countersunk in the same correct way.
Fasten PERMAROCK® Cement Board Indoor to the stud frame with Knauf Maxi Screws. First fasten the screws in the centre of the cement boards, then work towards the edges. During installation, make sure the cement boards fit closely to the substructure. Screws should not be overtightened.



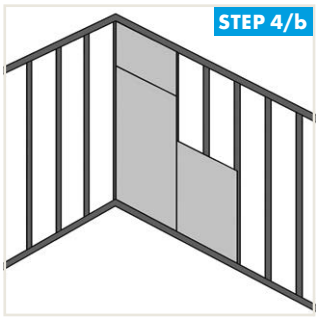
Screw edge distance

Follow rules of distances: the screw spacing must not exceed 250 mm and the spacing from the edge has to be at least 15 mm.

Place next board

Option 1:
Horizontal installation

Install the next PERMAROCK® Cement Board Indoor panel and ensure that the boards are correctly aligned horizontally and vertically. Screw panel to the framework. When fitting subsequent rows of boards, ensure all vertical joints are offset by a minimum of one stud cavity and supported by wide face stud (Rondo Duplex stud).



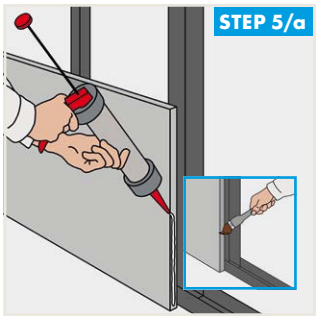
Option 2:
Vertical installation

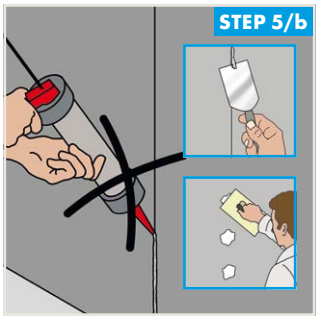
Depending on the room height, additional boards must be placed vertically. In this case make sure they are aligned correctly and the height of each board is at least 400 mm. Ensure vertical (long) edges of PERMAROCK® Cement Board Indoor are supported by wide face stud (Rondo Duplex stud). All horizontal joints to be staggered by a minimum of 300 mm.

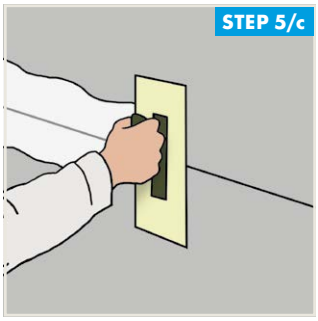
Board gap

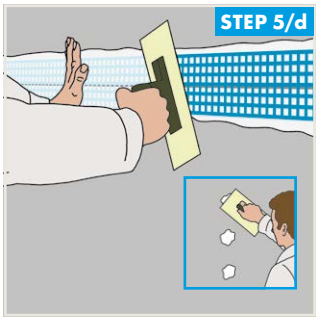
Special notes

As preparation for joint treatment with proprietary finishing system, leave a gap of 3-5 mm between boards using a suitable spacer.









Images are indicative only, refer to finishing supplier for actual details.

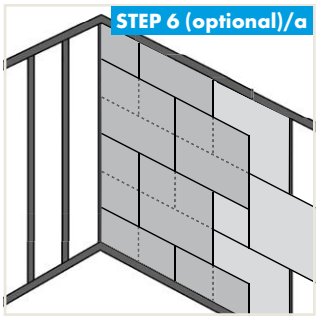
Joint treatment

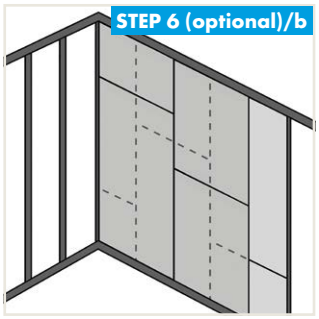
Option 1: Knauf Joint Adhesive (PU)

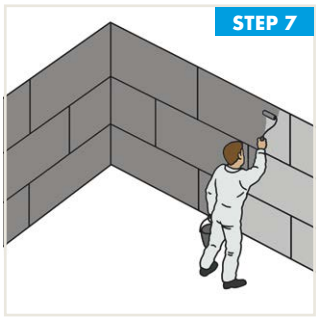
In order to ensure good connection with Knauf Joint Adhesive (PU), clean the edges of the board using, for example, a wet brush. Apply Knauf Joint Adhesive (PU) before the next board is placed. Leave Knauf Joint Adhesive (PU) to harden and scrape off excess material after 8 - 24 hours. The joints between the walls, ceiling and floor require permanent elastic sealing in dry areas. Control joints should be at a maximum of 7.5 m intervals and to coincide with control joints in the building structure. In case of single-layer planking, fill the screw heads with Knauf Joint Filler & Skim Coating – white.

Option 2: Proprietary joint and finishing treatment (by others)

All joints and screw heads to be treated as per proprietary finishing system requirements, refer to supplier for details. Ensure 3-5 mm gap between adjacent PERMAROCK® Cement Board Indoor at the long and short edges. Control joints should be at a maximum 15 m intervals and to coincide with control joints in the building structure.







Multi-layer planking

Option 1: Horizontal multi-layer planking

For multi-layer planking, all horizontal and vertical panel joints must be offset. Vertical joints by a minimum of one stud cavity, horizontal joints by at least 300 mm. For double-sided double-layer constructions the panel joints of the facing boards also have to be offset. The first layer of multi-layer planking can be mounted with butt-joint boards (without adhesive) and fixed with 6 screws/m^2. Treat the joints and the screw heads of the second layer as explained in STEP 5 above.

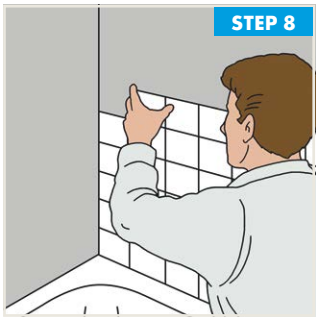
Option 2: Vertical multi-layer planking

For multi-layer planking, all vertical panel joints must be offset by one stud cavity. Horizontal panel joints, which result from possible addition of boards in the vertical dimension, have to be mounted with an offset of minimum 300 mm. For double-sided double-layer constructions the panel joints of the facing boards also have to be offset. The first layer of multi-layer planking can be mounted with butt-joint boards (without adhesive) and fixed with 6 screws/m^2. Treat the joints and the screw heads of the second layer as explained in STEP 5 above.

Priming

PERMAROCK® Cement Board Indoor must be primed before tiling or finishing, using Knauf Board Primer (primer/water 1:2). For untiled areas, PERMAROCK® Cement Board Indoor is ready for proprietary finish system treatment. Refer to Architect and finshing system supplier for details.

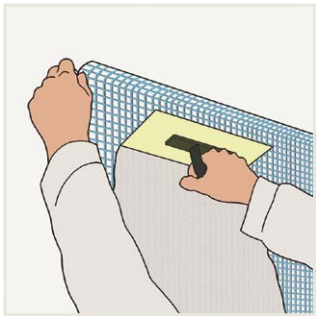
INSTALLATION OF INTERIOR WALLS

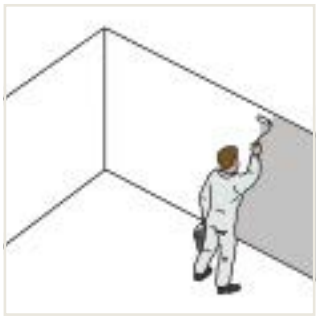


Finishing

Option 1: Tiling

For ceramic tile coverings, (tile dimensions ≤ 600 mm x 600 mm), use a flexible adhesive when placing tiles. The tile adhesive must meet the requirements of AS 3958 and Architect's design and details. Maximum tile weight: 50 kg/m² (for bigger tile sizes and heavier tiles, further measures apply). In wet areas, ensure a suitable waterproofing membrane is installed prior to tiling to AS 3740 requirements, refer to Architect for details.





Images are indicative only, refer to finishing supplier for actual details.

Option 2: Proprietary joint and finishing treatment (by others)

Knauf recommends a proprietary finishing system to be installed over PERMAROCK® Cement Board Indoor. Refer to Architect and finishing supplier for details.

Images are indicative only, refer to finishing supplier for actual details.

Option 3: Proprietary joint and finishing treatment (by others) above tiled section

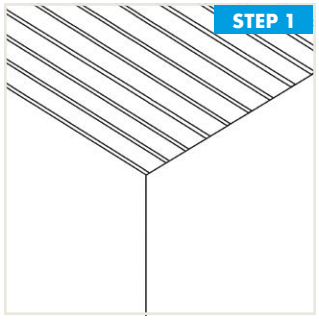
Knauf recommends a proprietary finishing system to be installed over PERMAROCK® Cement Board Indoor above the tiled section. Refer to Architect and finishing supplier for details.

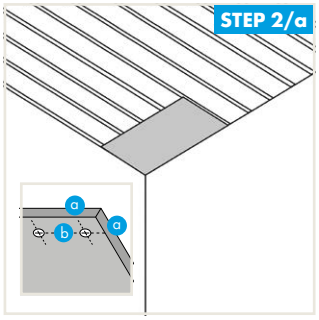
EXTREME TEMPERATURE RESISTANCE

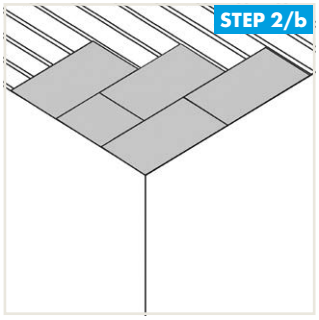
Perfect for wellness centres and steam saunas

- Suitable for sustained temperatures of up to 70°C.
- 100% water-resistant – will not swell, soften, flake or crumble.
- Inorganic, so resistant to mould and mildew.
- Ultra-hygienic, ecological and safe building material.

INSTALLATION OF INTERIOR CEILINGS







Create substructure

In rooms with continuous high humidity levels, such as commercial kitchens, swimming pools, saunas or chemical laboratories, it is necessary to provide improved corrosion protection for the metal framework. Refer to Rondo for details. We recommend that control joints are included at maximum 15 m intervals and to coincide with control joints in the building structure.

Frame Spacing

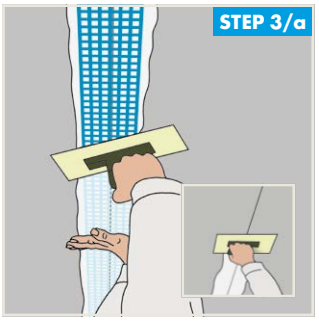
- Rondo furring channel spacing at 300 mm centres.
- Ensure ceiling framing set out accommodates PERMAROCK® Cement Board Indoor installation of short edges fixed to wide face furring channels (Rondo 605)
- Ensure the set out of ceiling framing accommodates control joints requirements with PERMAROCK® Cement Board Indoor and other building structure control joints.
- Refer to Rondo for design and details of ceiling framing system.

Fixing

Align the first PERMAROCK® Cement Board Indoor panel carefully, perpendicular to the supporting Rondo ceiling framing system.

Screw the panel to the framework using Knauf Maxi Screws. When fixing PERMAROCK® Cement Board Indoor, the distance a of the screws from the board edge must be ≥ 15 mm. The distance b between screws must be ≤ 250 mm. Leave a gap 3-5 mm between adjacent boards at long and short edges.

Ensure short edges of PERMAROCK® Cement Board Indoor are located on a wide face furring channels (Rondo 605). Stagger all short edge joints with adjacent boards at minimum 600 mm centres with subsequent board installation.



Images are indicative only, refer to finishing supplier for actual details.

Proprietary joint and finishing treatment (by others)

The PERMAROCK® ceiling system is now ready to accept a proprietary finishing system. Refer to supplier and Architect for details.

HIGH PERFORMANCE IN HUMID AND DAMP AREAS

PERMAROCK® Cement Board Indoor is a clear winner in sporting facilities.

- 100% water-resistant, making it the ideal backing board in your sports facility's bathroom and shower areas.
- Great for other humid or damp areas, such as changing rooms.
- Highly impact-resistant – perfect for use in indoor playing areas.

SPECTACULAR DESIGN OPTIONS

For distinctive walls and ceilings

- Full-board bending radius of 1 m makes it easy to create stylish curved walls.
- Large glass, ceramic, stone and mosaic tile coverings for splash areas – up to 600 x 600 mm in size.
- Highly resistant to chlorine-based cleaning agents.
- Simple to remove and replace in line with changing designs.

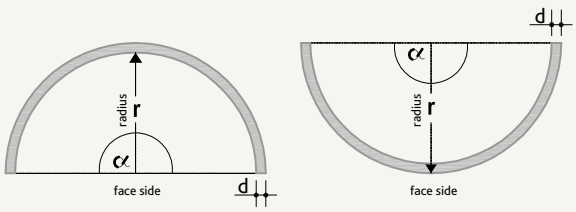
CURVED CONSTRUCTIONS

Flexible design for walls and ceilings

Applying PERMAROCK® Cement Board Indoor to curved constructions

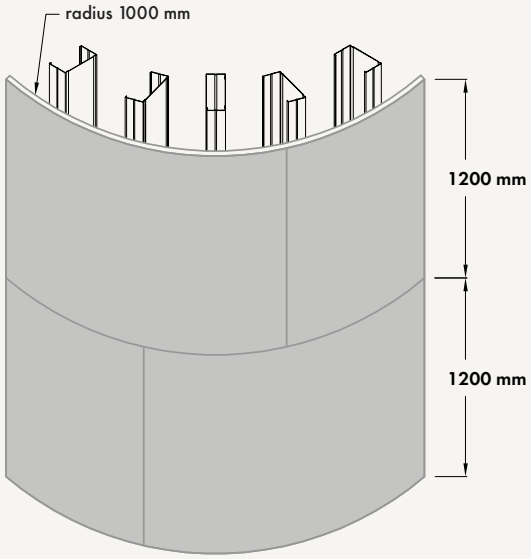
For everything from arches to rounded walls, PERMAROCK® Cement Board Indoor provides unlimited design flexibility and ease. With a full-board bending radius of 1m, while retaining robustness and resistance, it opens up more options for tackling wet and humid environments. Before installation, bend the panel – the fine cracks that appear on the surface will not cause any loss of performance. The maximum stud spacing should not exceed 300 mm (external radius).

Concave shape, convex shape

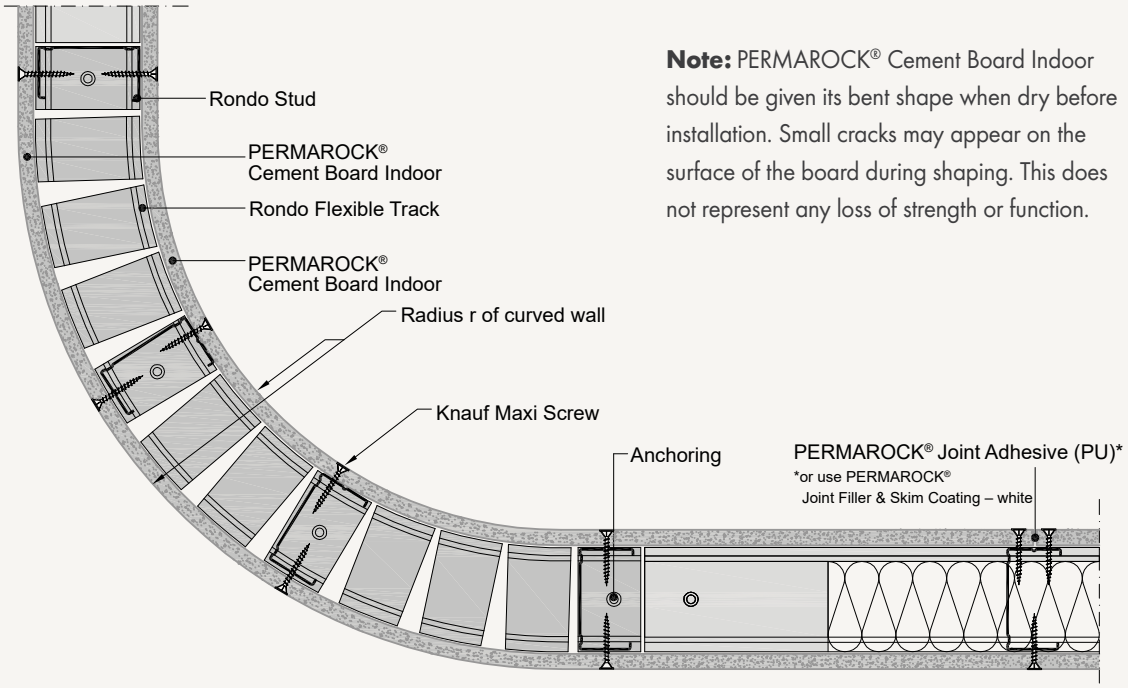


Board thickness	Bending radius r of PERMAROCK® Cement Board Indoor
d	Width 1200 mm
12.5 mm	≥ 1000 mm

Design with full board for r ≥ 1m



Details



Note: PERMAROCK® Cement Board Indoor should be given its bent shape when dry before installation. Small cracks may appear on the surface of the board during shaping. This does not represent any loss of strength or function.

HYGIENIC AND SIMPLE

For buildings with ultra-hygienic needs

- Inorganic and 100% water-resistant – able to withstand intensive cleaning and disinfection.
- Ecological and safe building material.
- Perfect for clean rooms and environments demanding outstanding hygiene levels.

TECHNICAL PRODUCT DETAILS

Physical properties and material consumption

Physical properties	
Length (mm)	3000
Width (mm)	1200
Thickness (mm)	12.5
Min. bending radius (m)	1
Weight (kg/m²)	Approx. 11
Dry bulk density (kg/m³) according to EN 12467	Approx. 750
Bending strength (MPa) according to EN 12467	≥ 7
pH-value	12
Building material class according to AS 1530.1-1994	NOT deemed COMBUSTIBLE
Linear moisture movement 30% to 90% humidity (23±2 °C) according EN 12467	Lm = 0.0606%
Water vapour diffusion resistance according DIN EN ISO 7783	μ = 25
Thermal conductivity (dry) according to DIN EN 12664	$\lambda_{10,tr}$ = 0.1509 W/(m·K)
Thermal conductivity (wet) according to DIN EN 12664	$\lambda_{23/80}$ = 0.188 W/(m·K)

Material consumption – Interior walls				
Material		**Unit**	**Single layer (per m²)**	**Double layer (per m²)**
PERMAROCK® Cement Board Indoor		m²	1	2
Knauf Maxi Screws		pieces; stud spacing 600 mm	15	21
Knauf Joint Adhesive (PU)	(Option 1, refer to page 15)	ml	50	50
Knauf Board Primer		g	40-60	40-60

Material consumption – Interior ceilings			
Material	**Unit**	**Single layer (per m²)**	**Double layer (per m²)**
PERMAROCK® Cement Board Indoor	m²	1	2
Knauf Maxi Screws	pieces	25	50
Knauf Board Primer	g	40-60	40-60

KNAUF SERVICES

TECHNICAL ASSISTANCE

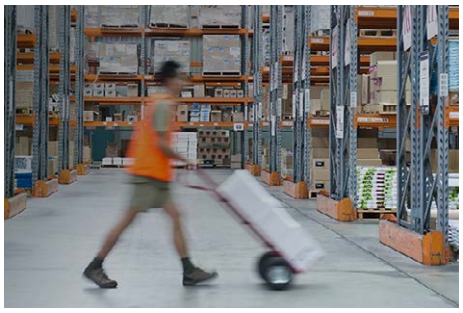
TecASSIST™ – 1800 811 222

Our National TecASSIST™ helpline is available to answer technical questions and provide free advice to builders, contractors, architects, engineers and home owners throughout Australia.

There are many variables that can influence construction projects, which affect whether a particular construction technique is appropriate. Before proceeding with any project, we recommend you obtain professional advice to ascertain the appropriate construction techniques to suit the particular circumstances of your project. We recommend you use qualified tradespersons to install this system.

The technical information contained in this manual was correct at the time of printing. Building systems, details and product availability are, however, subject to change. To ensure the information you are using is current, Knauf recommends you review the latest building information available on the Knauf website.

For further information, contact TecASSIST™ or your nearest Knauf sales office.



WHERE TO BUY

1800 003 377

If you are wondering where to buy plasterboard and other building materials such as cornice, compounds, ceilings and plastering tools, you can be confident that wherever you are located in Australia, you will be able to find a convenient Knauf store or stockist near you using our store finder.

DOCUMENT FINDER

knaufapac.com/au/resources

Find a Knauf product brochure, installation manual, Product Data Sheet or Whitepaper with the new document finder tool.

To view the full range of system CAD details, scan QR code below or head to https://www.knaufapac.com/au/cad-finder.

See **knaufapac.com/au/permarock** for the most up-to-date product information.

Product availability should be checked with your local Knauf sales office as availability may vary. The technical information contained in this manual was correct at the time of printing. Building systems, details and product availability are, however, subject to change.To ensure the information you are using is current, Knauf recommends you review the latest building information available on the Knauf website. For further information, contact TecASSIST™ or your nearest Knauf sales office. Knauf Gypsum Pty Ltd ABN 84 004 231 976 17/47 Turner Street Port Melbourne VIC 3207

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