ALRITE PLASTERBOARD

ALRITE

Moistureshield Plasterboard

PRODUCT & INSTALLATION TECHNICAL MANUAL

Oct 2024

CodeMark CERTIFIED

Index

1.Product Overview

1.1 **Alrite Moistureshield** is a high-performance water-resistant plasterboard specifically engineered for wet area applications such as bathrooms, laundries, kitchens, and toilets. Manufactured by Knauf, a global leader in plasterboard technology, Alrite Moistureshield integrates advanced moisture-resistant properties into a durable, easy-to-install board, ensuring optimal performance in areas subject to high humidity and occasional water exposure. The gypsum core is modified with water-repellent additives, and the board is encased in a robust green paper liner, which provides a clear visual indication of its moisture-resistant properties.

1.2 **Product Dimensions and Characteristics**

- Thicknesses: Available in 10mm and 13mm options
- Sheet Sizes: Standard sheet width is 1200mm, with length is 2400mm.
- Edge Profiles: The long edges of the boards are tapered to facilitate easier jointing and finishing, ensuring a smooth, seamless finish even in highly visible areas.

1.3 **Material Composition**

The core of Alrite Moistureshield is composed of modified gypsum plaster, enhanced with water-repellent additives to resist moisture penetration. The surface is covered with a green, moisture-resistant paper, which is designed to work in conjunction with waterproofing systems, making it suitable for areas prone to high humidity and frequent water contact.

1.4 **Intended Applications**

Alrite Moistureshield is ideal for timber and steel framed walls and ceilings, use in both residential and commercial construction, particularly in rooms where moisture levels are consistently high or where there is a risk of water exposure. Typical applications include:

- **Bathrooms:** Suitable for use on walls and ceilings, particularly in shower areas, around bathtubs, and near vanities.
- **Kitchens:** Effective in areas where steam and condensation are common, such as near stovetops and sinks.
- **Laundries:** Designed to withstand the humidity generated by clothes dryers and washing machines.
- **Toilets:** Provides a durable, moisture-resistant surface for walls and ceilings.

2.Scope of use

2.1 **Permitted Uses**

Alrite Moistureshield is designed for use in internal wet areas where moisture resistance is crucial. It can be installed on timber or steel framing and is suitable for both residential and commercial buildings within the scope of NZS 3604 and AS/NZS 1170 standards. It is particularly suited for use in the following scenarios:

- **Wet Area Walls:** Ideal for lining walls in bathrooms, kitchens, and laundries where occasional water splashes or high humidity are expected.
- **Wet Area Ceilings:** Suitable for ceilings in bathrooms and other areas with high humidity, providing a stable substrate for paint, tiles, or other finishes.
- **Fire-rated Assemblies:** Alrite Moistureshield can be used in some fire-rated wall and ceiling assemblies, where its moisture resistance adds an extra layer of protection against degradation.

2.2 **Limitations of Use**

While Alrite Moistureshield offers excellent moisture resistance, it is not suitable for use in environments where it will be exposed to constant water immersion or in extreme humidity conditions above 90% RH. Specific limitations include:

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V1.1 Aug 2024

- **Not for Use in Continuous Wet Areas:** This includes steam rooms, saunas, or around swimming pools, where prolonged exposure to moisture can compromise the integrity of the board.
- **Exterior Applications:** Alrite Moistureshield is designed for interior use only and should not be exposed to direct outdoor weather conditions.
- **High-Temperature Areas:** The board should not be used in areas where temperatures regularly exceed 50°C, as this can lead to degradation of the gypsum core.

2.3 **Compliance with Building Codes**
Alrite Moistureshield is designed to meet or exceed the requirements of the New Zealand Building Code (NZBC) when installed in accordance with the guidelines provided in this manual. It is a certified alternative solution under the CodeMark scheme, ensuring compliance with clauses related to structure, durability, internal moisture, and hazardous materials.

3.NZBC Compliance

Alrite Moistureshield, if designed, used, installed and maintained in accordance with the product technical manual and Codemark conditions, will meet or contribute to meeting the following provisions of NZ Building Code:

3.1 **Structural Performance (Clause B1)**
Alrite Moistureshield meets the structural requirements of the NZBC, ensuring it can handle the loads arising from self-weight and impact in accordance with B1.3.3 (a)(j), performance of B1.3.1, B1.3.2, and B1.3.4. The board is suitable for installation on both timber and steel framing, providing a durable, stable surface for wet area finishes.

3.2 **Durability (Clause B2)**
The moisture-resistant properties of Alrite Moistureshield contribute to its durability, ensuring a service life of at least 15 years in wet area applications and over 50 years in general wall and ceiling installations, as per B2.3.1(b)(c) and B2.3.2. The board must be installed and maintained according to the guidelines to achieve these durability standards.

3.3 **Internal Moisture (Clause E3)**
Alrite Moistureshield complies with NZBC Clause E3, providing an effective barrier against internal moisture. The board is impervious to water when installed correctly, preventing moisture ingress and contributing to a healthy indoor environment. It meets the performance criteria of E3.3.4, E3.3.5, and E3.3.6, ensuring that wet areas remain dry and free from mold and mildew.

3.4 **Hazardous Building Materials (Clause F2)**
Alrite Moistureshield is free from hazardous materials, meeting the requirements of NZBC Clause F2.3.1. It poses no health risk to occupants and can be safely installed in all wet area applications.

4.Technical Specification

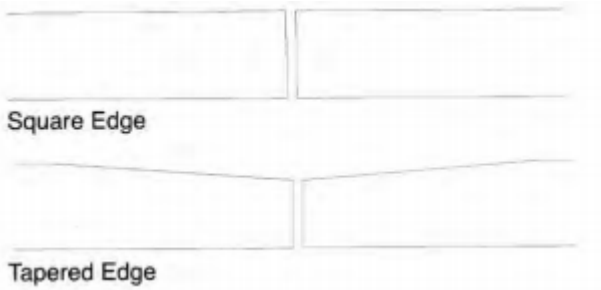
4.1 **Board Composition and Properties**
Alrite Moistureshield is a paper-bound, water-resistant gypsum plasterboard with a specially formulated core that resists moisture penetration. The board's face paper is green, providing a visual cue for moisture resistance. The core is designed to remain stable even in high humidity environments, reducing the risk of swelling, warping, or other moisture-related damage.

4.2 **Physical Properties**

- Thickness: Available in 10mm and 13mm options.
- Width: Standard width of 1200mm.
- Length: Available in length is 2400mm
- Weight: 10mm board weighs approximately 7.4kg/m^2, and the 13mm board weighs

approximately 8.5kg/m^2.

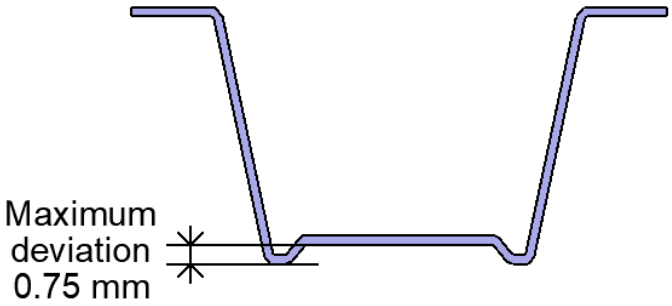
- Thermal Resistance: The thermal resistance (R-value) is 0.06m^2 K/W for 10mm boards and 0.08m^2 K/W for 13mm boards, contributing to the overall insulation of the building.Alrite Moistureshield is light green face paper, with two edge profile options.

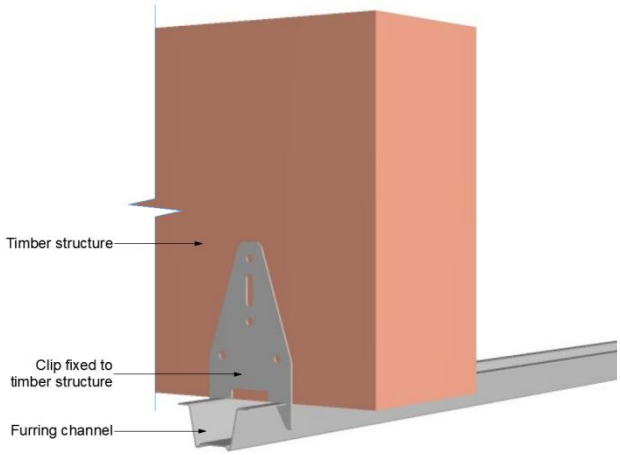


4.3 **Standards Compliance**

Alrite Moistureshield complies with the following standards:

- AS/NZS 2588: 2018 Gypsum Plasterboard: Ensures the board meets industry standards for gypsum products.





- AS/NZS 2589: 2017 Gypsum Lining: Specifies the requirements for the application and finishing of gypsum linings in buildings.
- EN 520: 2004 Gypsum Plasterboard: Establishes the criteria for gypsum plasterboard in construction, ensuring it meets European standards for quality and performance.

4.4 **Moisture Resistance**

Alrite Moistureshield's core is enhanced with water-resistant additives that provide a robust defense against moisture. This ensures that the board maintains its integrity in wet areas, preventing issues such as swelling, mold growth, and degradation over time. The green face paper also adds an extra layer of protection, helping to repel water and minimize the risk of moisture penetration.

4.5 **Ceilling Battens**

Knauf MF ceiling channel or similar

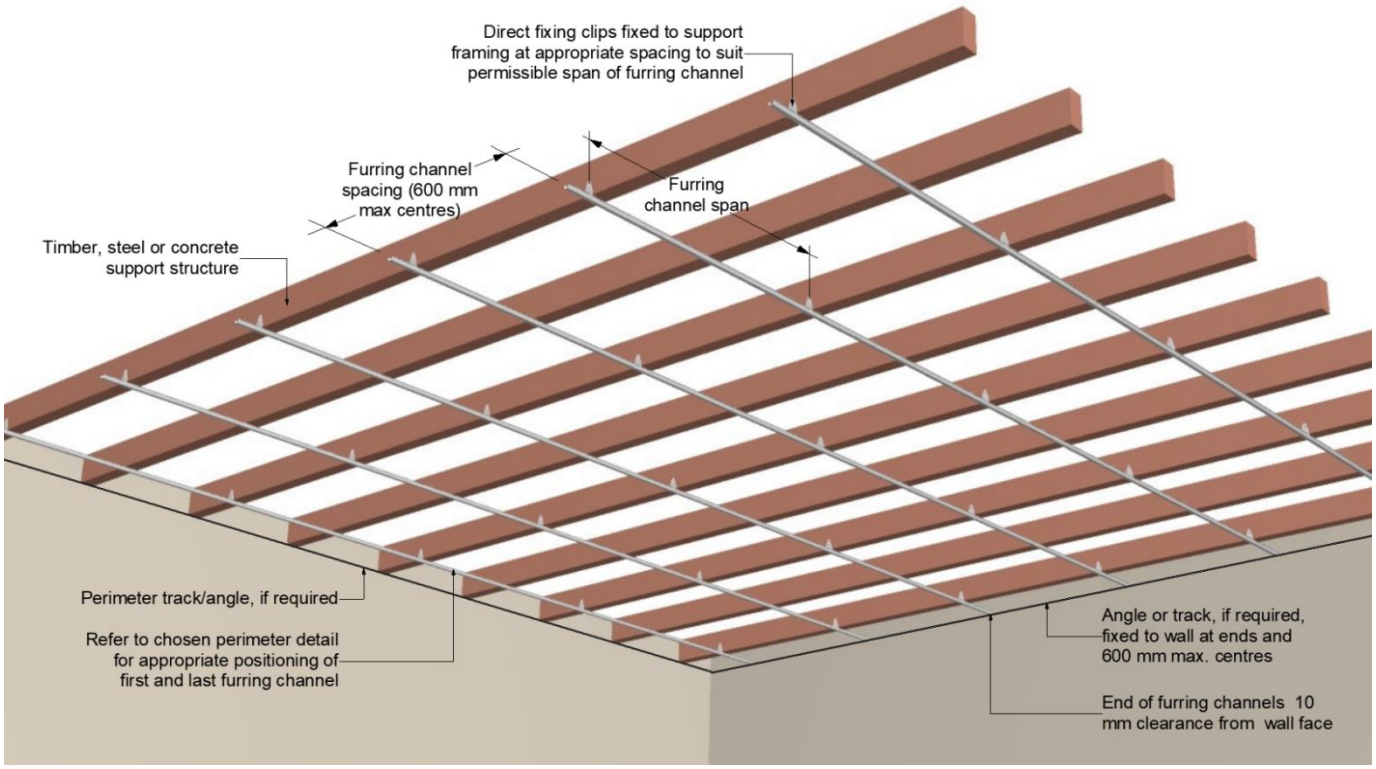
Timbers ceiling battens as specified in NZS 3604:2011

4.6 **Handling and Storage**

Proper handling and storage are crucial to maintaining the quality of Alrite Moistureshield before installation:

- Plasterboards are supplied on timber bearers.
- Packs should be lifted with a fork-lift truck and stacked not more than one-high on a flat surface to preserve stability.
- The best results are achieved when Alrite Moistureshield is treated as a finishing material and protected from damage.
- Sheets must be stacked flat and kept dry at all times.
- Sheets must be carried on edge and not dragged.
- All accessories must be kept dry.
- They should be stored in a clean dry

environment.



5.Accessories

5.1 Fasteners

5.1.1**Screws for Timber Framing:** Use 30mm and 25mm x 6g bugle head screws with coarse threads. These screws provide a secure hold in timber framing, ensuring the board remains stable and secure.

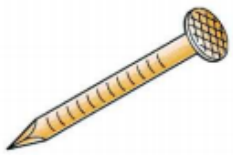
KNAUF DRYWALL SCREWS - SELF DRILLING

Black phosphated self drilling and self tapping screws with countersunk Phillips heads for fixing plasterboard to metal and timber framing. For use with light gauge metal up to 0~6mm thick. Tested to DIN 18182, 50021 and 50942. Each box includes one drill bit tip.

Dimensions (mm)		Pack Details	
Size	Diameter	Items per Pack	kg (Approx)
25	3.5	1000	1.8
35	3.5	1000	2.5

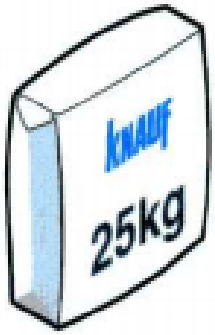
5.1.2 **Screws for Steel Framing:** Use 25mm x 6g screws with drill bit tips for fixing to steel frames with a thickness of 0.7mm to 1.2mm BMT (base metal thickness). These screws ensure proper penetration and a strong bond with the steel framing.

5.1.3 **Nails:** Use 40 x 2.8mm galvanized flat head nails or 30mm, 40mm, or 50mm ring shank galvanized flat head nails for timber framing. These nails provide an alternative fastening option where screws may not be suitable.



5.2 Adhesive and Sealants

5.2.1**Adhesives:** Use Alrite or Knauf bonding compounds, which are compatible with moisture-resistant boards. These adhesives should be BRANZ appraised and meet the requirements of AS 2753 for bonding gypsum plaster linings to wood and metal framing. Ensure the adhesive is applied correctly to avoid voids or gaps that could compromise the moisture resistance.



Setting time 2-3 hours.
Non-combustible to BS476: Part 4: 1970. Use within 4 months.
Estimating Guide: 5m^2 per bag

5.2.2 Use a Knauf sealant or similar water-based acrylic sealant for sealing joints and penetrations. This sealant should be applied around pipe penetrations, bath rims, shower bases, and other critical areas to ensure a watertight seal.

Use within 12 months.
Estimating Guide: For a 10mm bead, 30-40 linear metres per cartridge.

5.3 Tape products

5.3.1 Use 50mm wide perforated jointing tape for reinforcing joints. This tape should be embedded in the jointing compound to ensure a strong, crack-resistant joint.

76m per roll

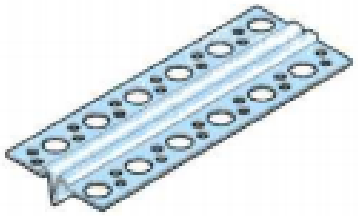
5.4 Jointing and Ancillaries

Use Knauf jointing compounds for embedding jointing tape and finishing joints. Ensure the compound is suitable for wet areas to maintain the moisture-resistant properties of the system.

5.4.1 **Corner Beads:** Use galvanized steel corner beads to protect external corners from damage and ensure a clean, sharp finish. These beads should be embedded in the jointing compound for a seamless finish.

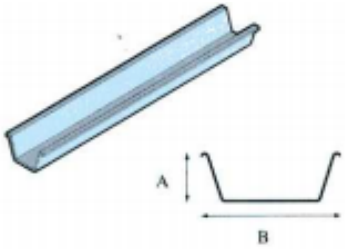
31x31x0.4 in 3,000mm or 4,000mm length

5.4.2 **Expansion Trims:** Use galvanized steel movement control joints in large wall or ceiling areas to accommodate structural movement and prevent cracking. These joints should be installed according to the technical literature, ensuring they align with the board joints.

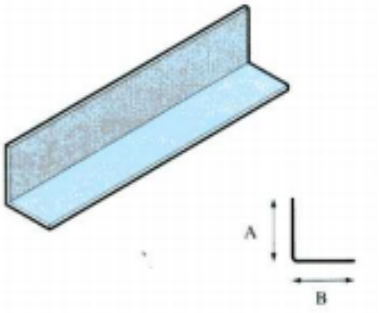


60mm x 3,000mm

5.4.3 Ceiling channel or similar, galvanised steel section for ceiling.



Gauge	Size/Webb (B)	Length	Flange (A)
0.55	80	3600	26



5.4.4 **Angle Sections:** Use galvanized mild steel angles for use with partitions, column encasements, and suspended ceilings. These sections provide additional structural support and help maintain the integrity of the installation in wet areas.

Gauge	Width (A)	Length	Leg (B)	Angle
0.7	25	3000	25	90
			50	90

5.5 Joint filler

Fast setting gypsum based compound for bedding joints by hand application.

6.Design Guideline

6.1 Design conditions

6.1.1 Alrite Moistureshield should be specified in areas where moisture resistance is critical. The board should be installed in conjunction with appropriate waterproofing systems to ensure a complete wet area solution. Design considerations include:

- Wet Areas: Alrite Moistureshield is suitable for all wet areas, including bathrooms, kitchens, and laundries. In these areas, the board must be used in conjunction with a waterproofing membrane to protect against water ingress.
- Non-Tiled Areas: In non-tiled areas, the board can be finished with paint, wallpaper, or other decorative finishes. Ensure the finish is compatible with moisture-resistant surfaces to maintain the board's performance.

6..1.2 Alrite Moistureshield should not be used in certain situations:

- For structural support (bracing) in showers or near bathtubs .
- In places with very high humidity (over 90%) or areas that are constantly wet, like communal showers, steam rooms, or around swimming pools.
- Installed directly over a vapor barrier.
- Applied directly onto masonry, concrete, or solid plaster and then tiled.
- Applied directly over other sheet lining materials.
- In areas where temperatures reach 52°C or higher for long periods (check appliance or fitting manufacturers' installation details).

6.1.3 **Wet Areas Explained**

Wet areas are spaces where you find fixtures like sinks, toilets, and bathtubs, such as bathrooms, toilets, laundries, and kitchens. These can be divided into two categories:

- Water Splash Areas: These are spots that get splashed with water occasionally, like around bathtubs, vanities, sinks, and tubs.
- Shower Areas: These are places that frequently get heavy water exposure, like enclosed showers, open shower zones, and showers over bathtubs.

6.1.4 **Finishing Wet Areas**

Both types of wet areas mentioned above need to have surfaces and joints that are waterproof and easy to clean. For shower areas, additional waterproofing is required, which can be achieved by using rigid shower lining systems, flexible vinyl shower wall finishes, or tiles. When using tiles in shower areas, a waterproof membrane must be applied underneath the tiles.

6.2 Framing Requirements

Supporting framing for Alrite Moistureshield must comply with the following standards:

- Timber Framing: Design and construction should be in accordance with NZS 3604 and AS/NZS 1170. Ensure timber framing has a moisture content of less than 18% at the time of installation to prevent warping or movement after installation.
- Steel Framing: Steel framing should meet the requirements of the NZBC and be designed to support the weight of the plasterboard and any applied finishes, such as tiles.

6.3 Bracing Constraints

Bracing in Wet Areas: Alrite Moistureshield should not be used for structural bracing in wet areas such as showers or behind bathtubs. If bracing is required, use an alternative solution designed for wet areas.

6.4 Ceiling design

- Ceiling Battens: Ceiling battens should be spaced no more than 450mm apart for 10mm

thick boards and 600mm apart for 13mm thick boards. This spacing reduces the risk of sagging in high humidity environments.

- Ceiling Channels: Use galvanized steel ceiling channels to support the plasterboard in wet area ceilings, providing additional strength and minimizing the risk of movement.

6.5 Impact Resistance

Alrite Moistureshield offers good resistance to soft body impacts, making it suitable for use in residential and light commercial applications. However, if the board is damaged, it can be repaired using standard plasterboard patching techniques. For more severe damage, consult a professional to ensure the repair maintains the board's moisture resistance and structural integrity.

6.6 Fire Prevention Measures

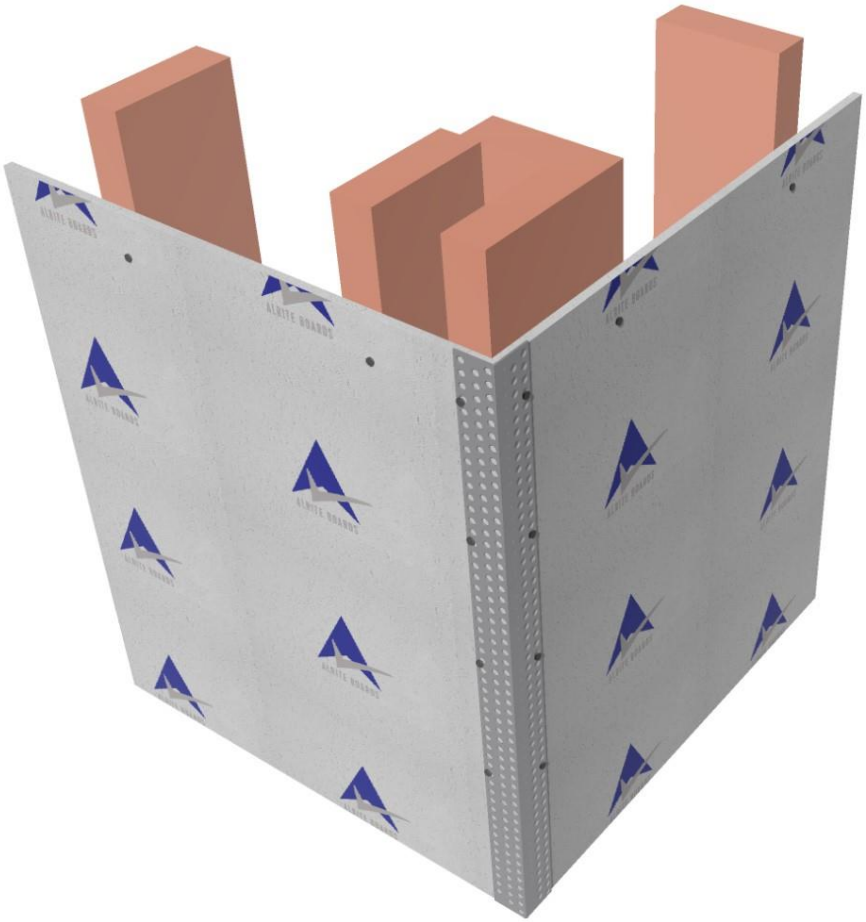
To prevent fire hazards, Alrite Moistureshield must be installed with appropriate clearances from heat sources such as fireplaces, heaters, and flues. Refer to NZBC Acceptable Solutions C/AS1-C/AS6 and Verification Method C/VM1 for guidance on separating combustible materials from heat sources. Ensure all installation complies with the manufacturer's recommendations and local building codes.

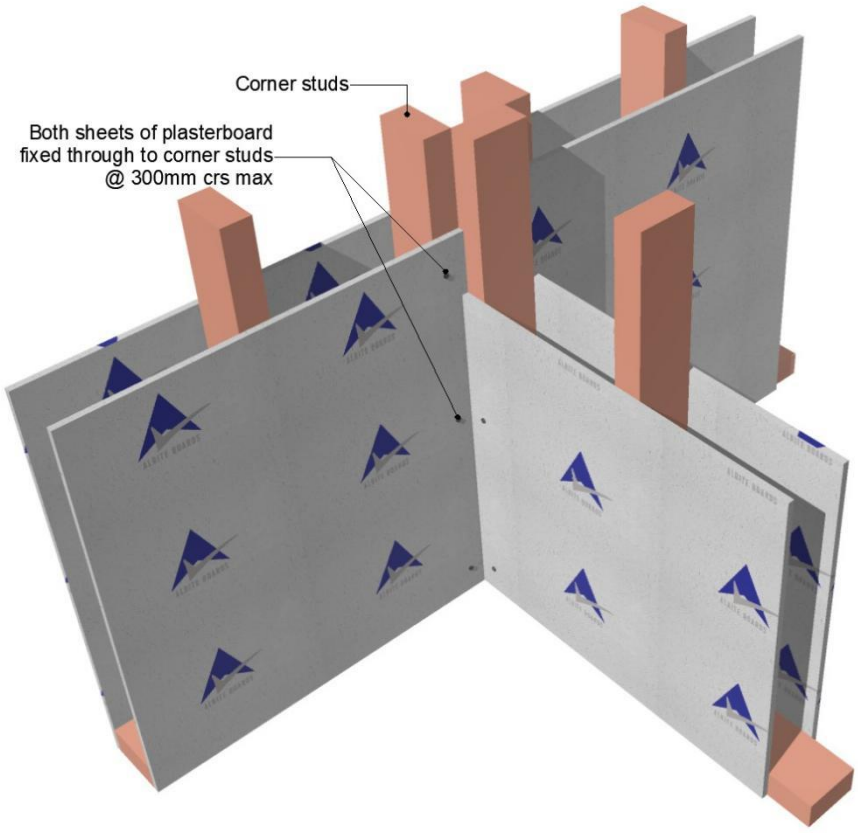
6.7 **Tiling Considerations**

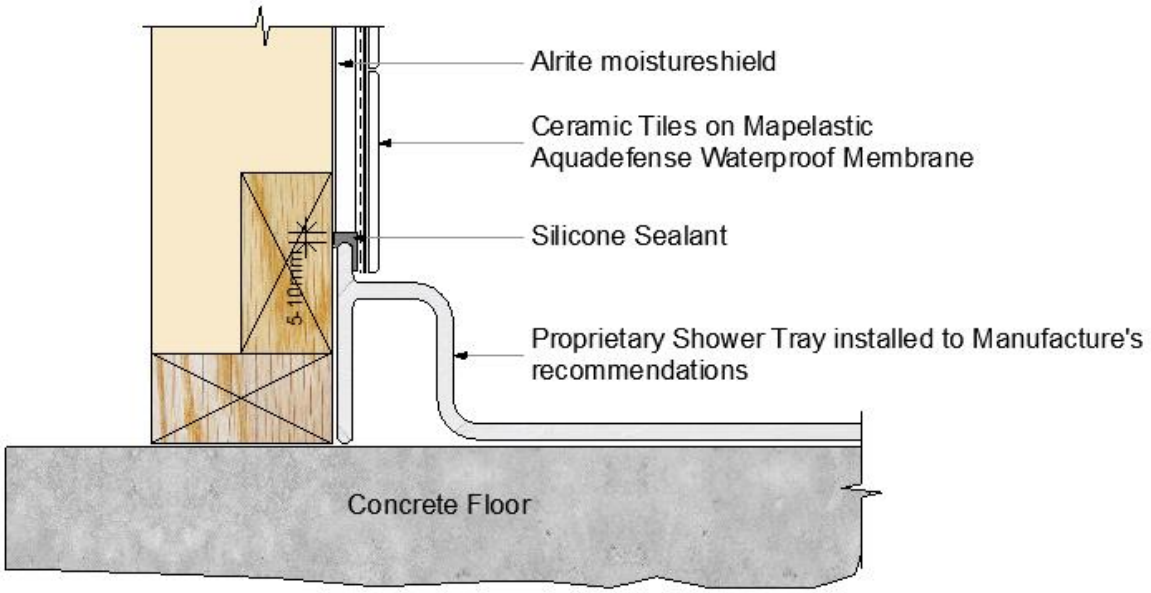
Alrite Moistureshield is an excellent substrate for tiling in wet areas. The board can support tiles up to a weight of 30 kg/m^2, making it suitable for most ceramic and porcelain tiles. When tiling, ensure the use of a certified waterproofing membrane beneath the tiles, and provide control joints at maximum 4m intervals to accommodate movement and prevent cracking.

6.8 Internal Surface Finishes and Fire Propagation

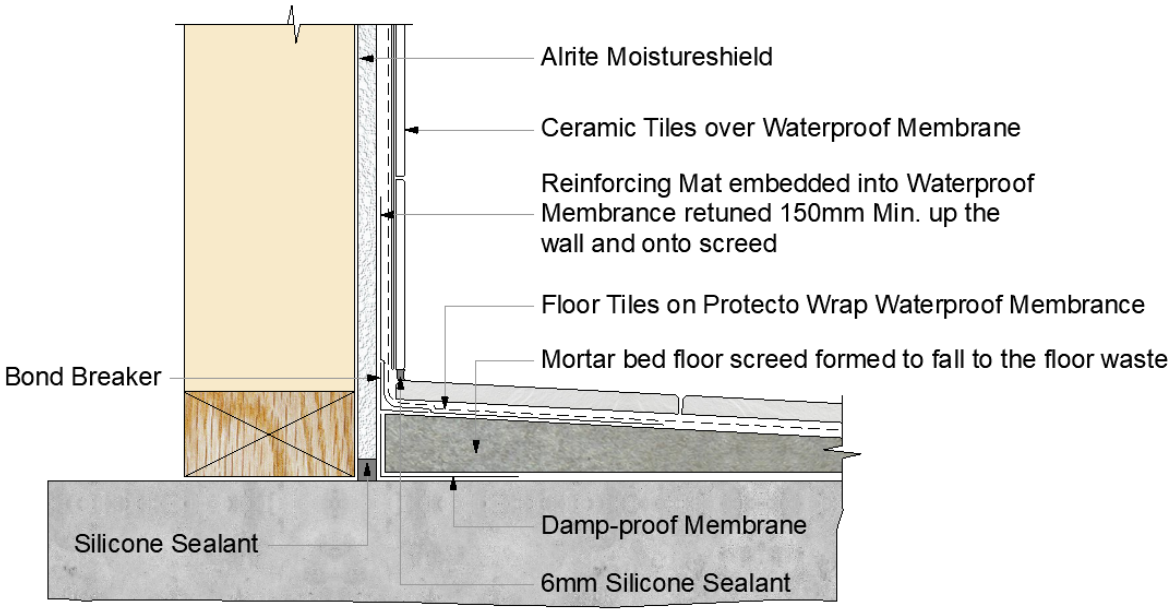
Without any applied finish, Alrite Moistureshield is classified under material Group Number 1-S. This classification allows the board to be used in most building types, including those with sleeping (residential) risk group classifications. When an additional finish, such as paint or tiles, is applied, ensure that the Group Number for the complete lining system is obtained from the finish manufacturer or supplier.



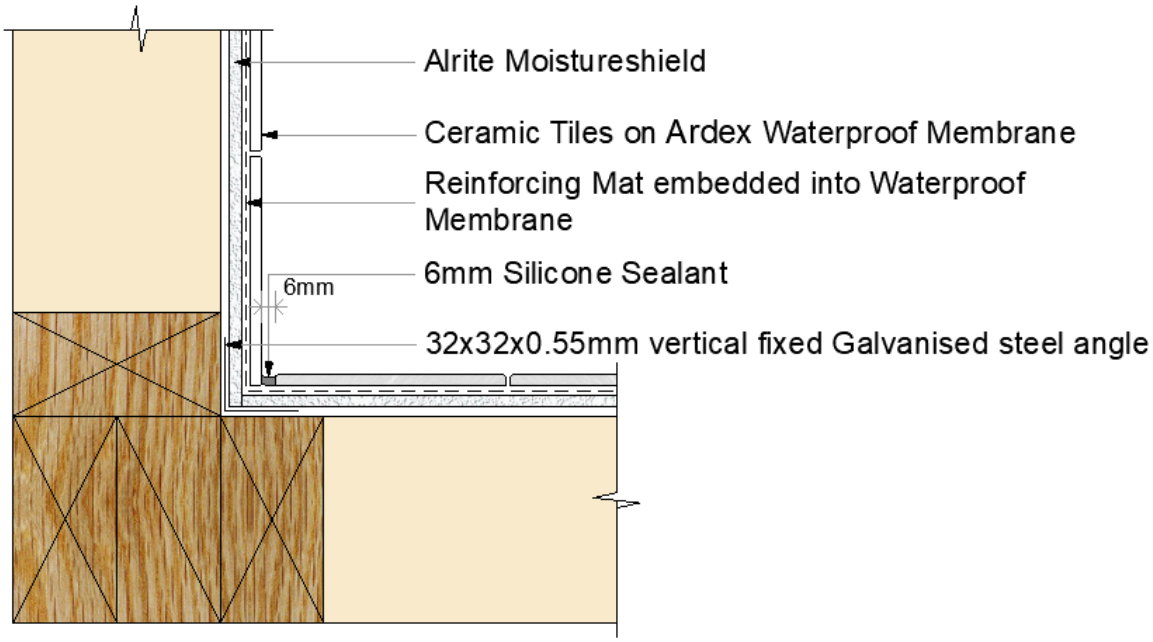

Corner studs
Both sheets of plasterboard fixed through to corner studs @ 300mm crs max



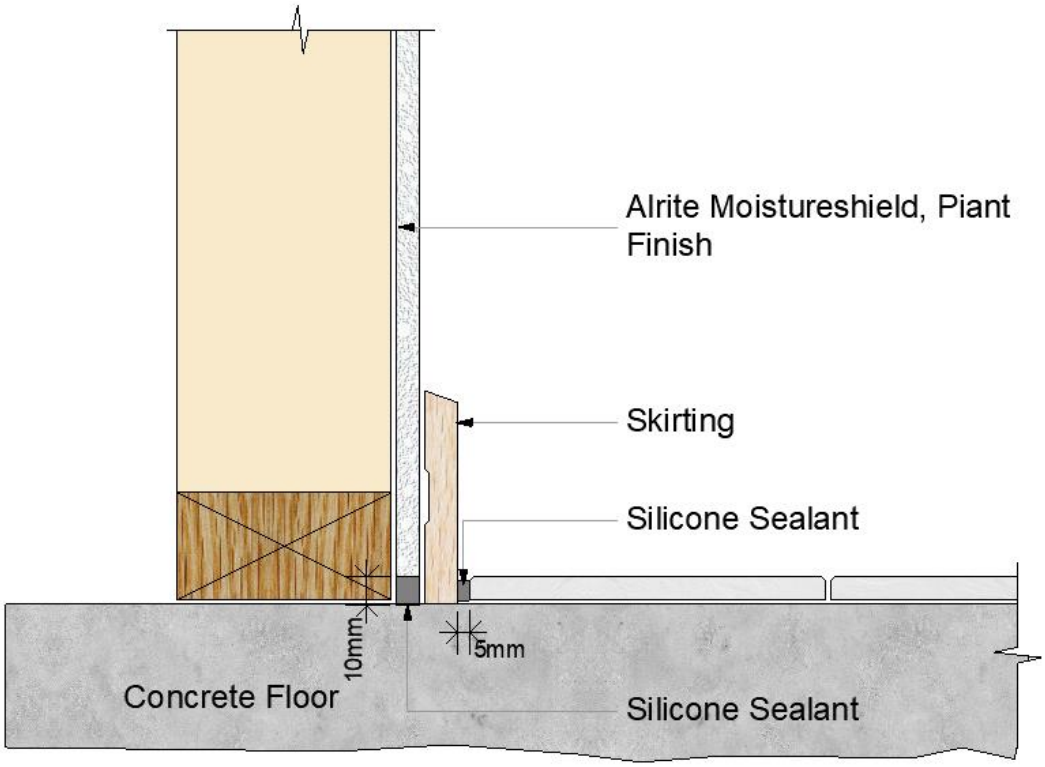
Shower Wall / Tray Detail - Tiled Walls and Acrylic Base - Section



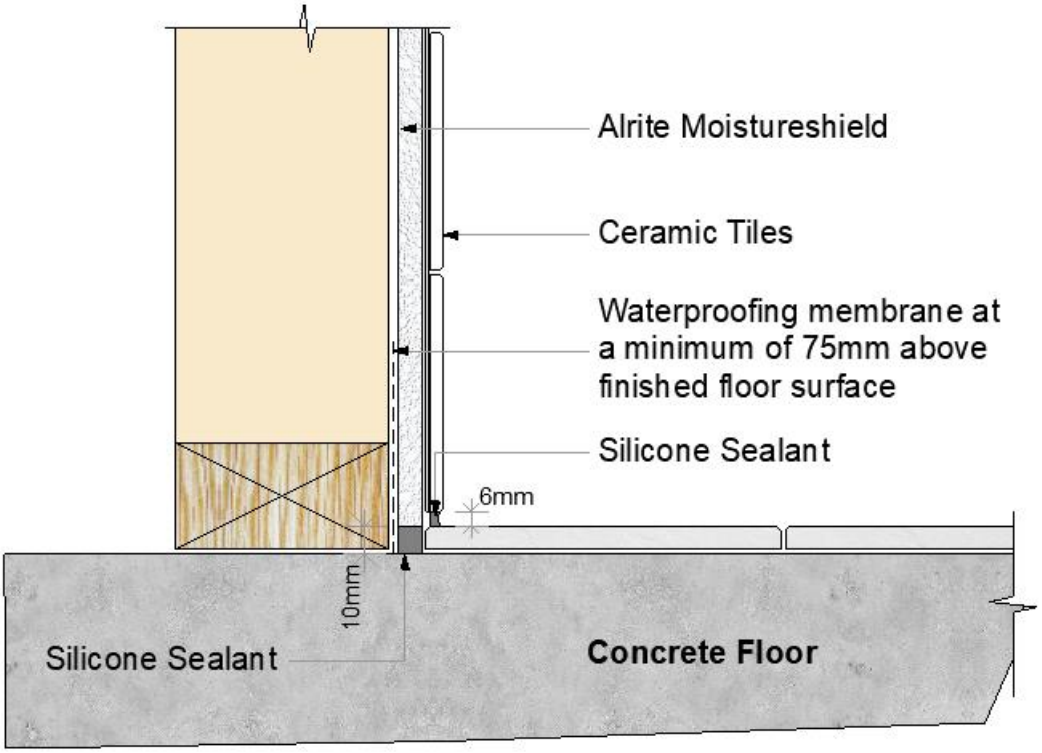
Tiled Shower Base - Section



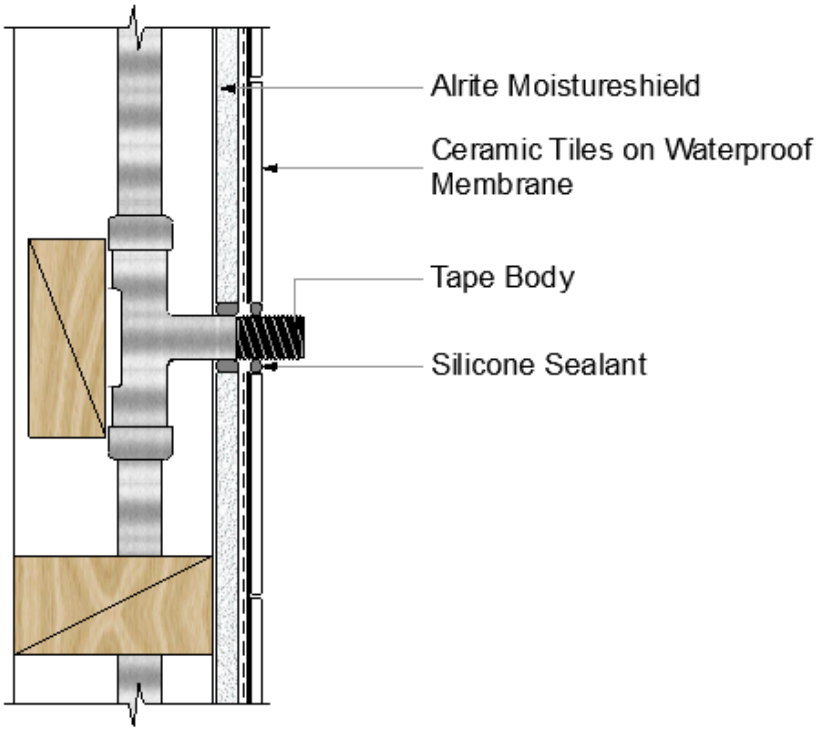
Tiled Shower Corner - Plan



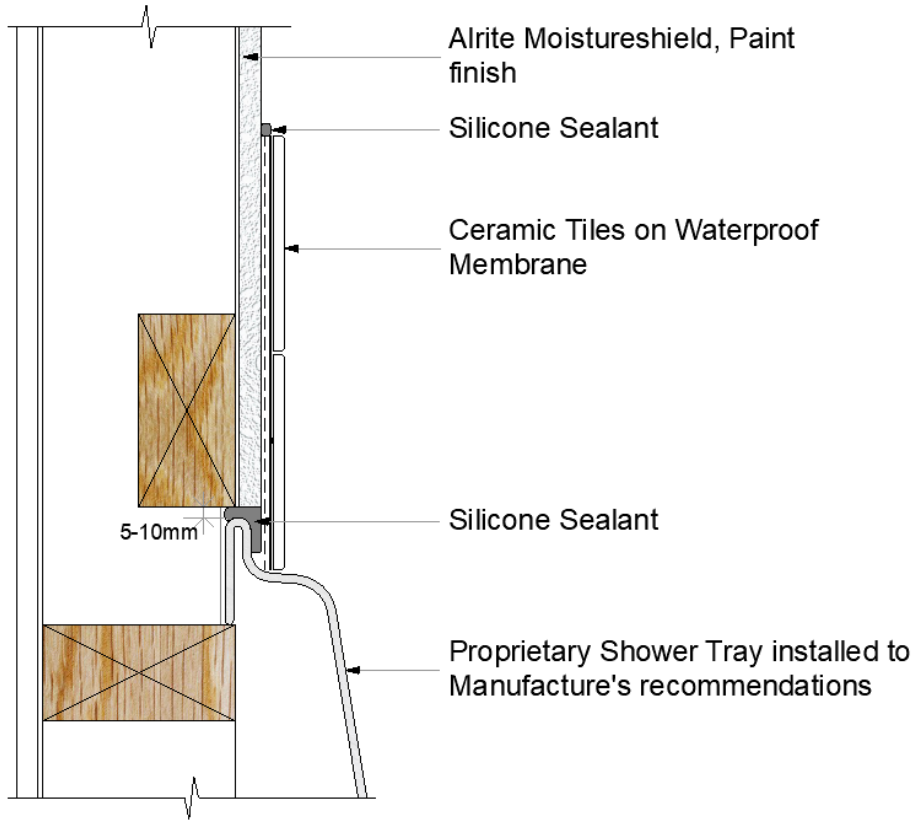
Tiled Floor to Wall - Section



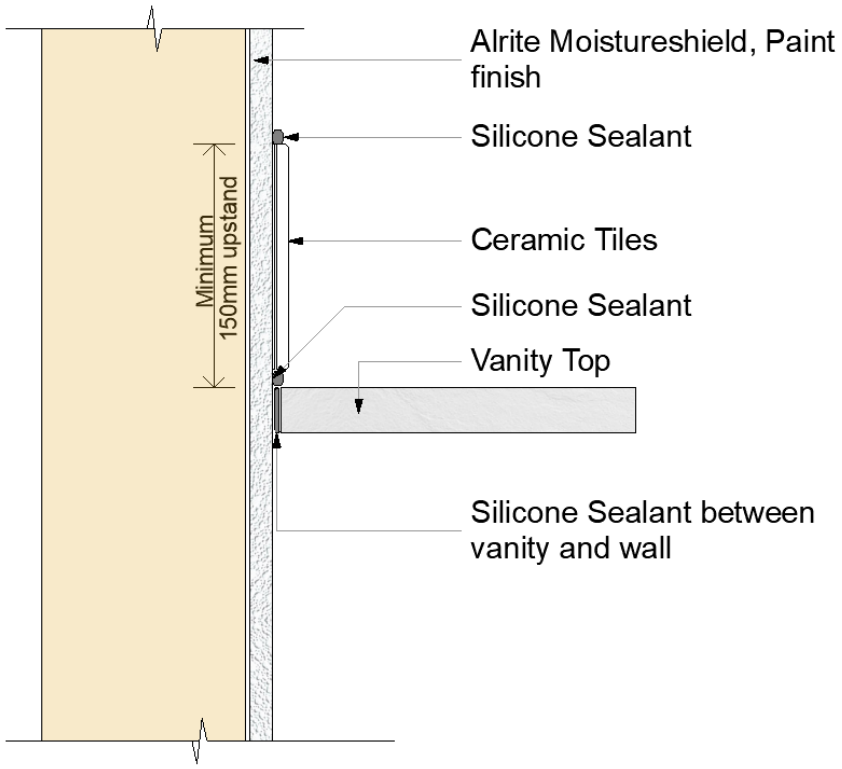
Tiled Floor and Wall



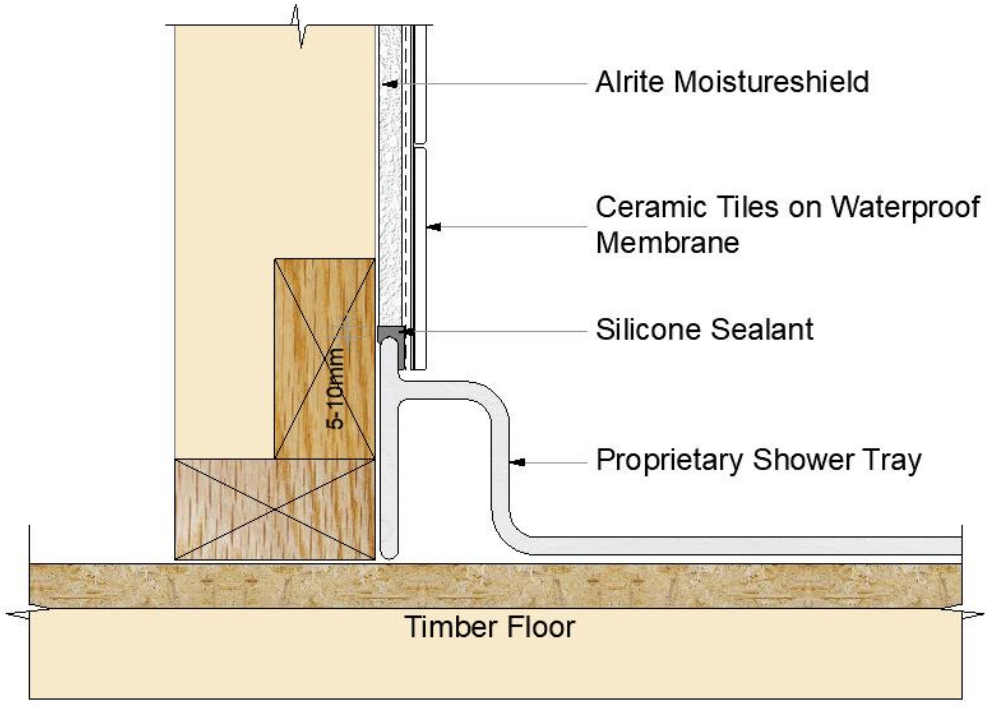
Tiled Shower Penetration



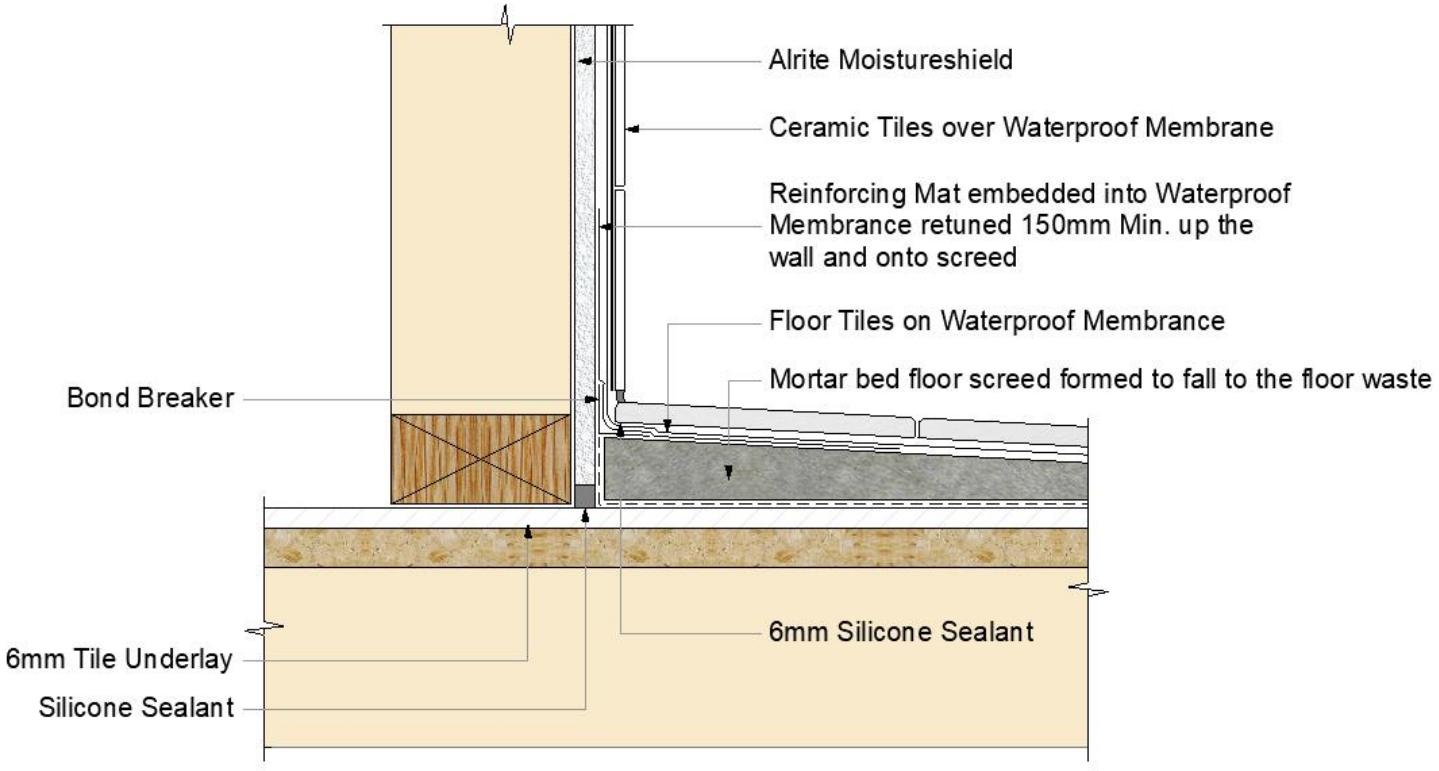
Acrylic Bath to Wall



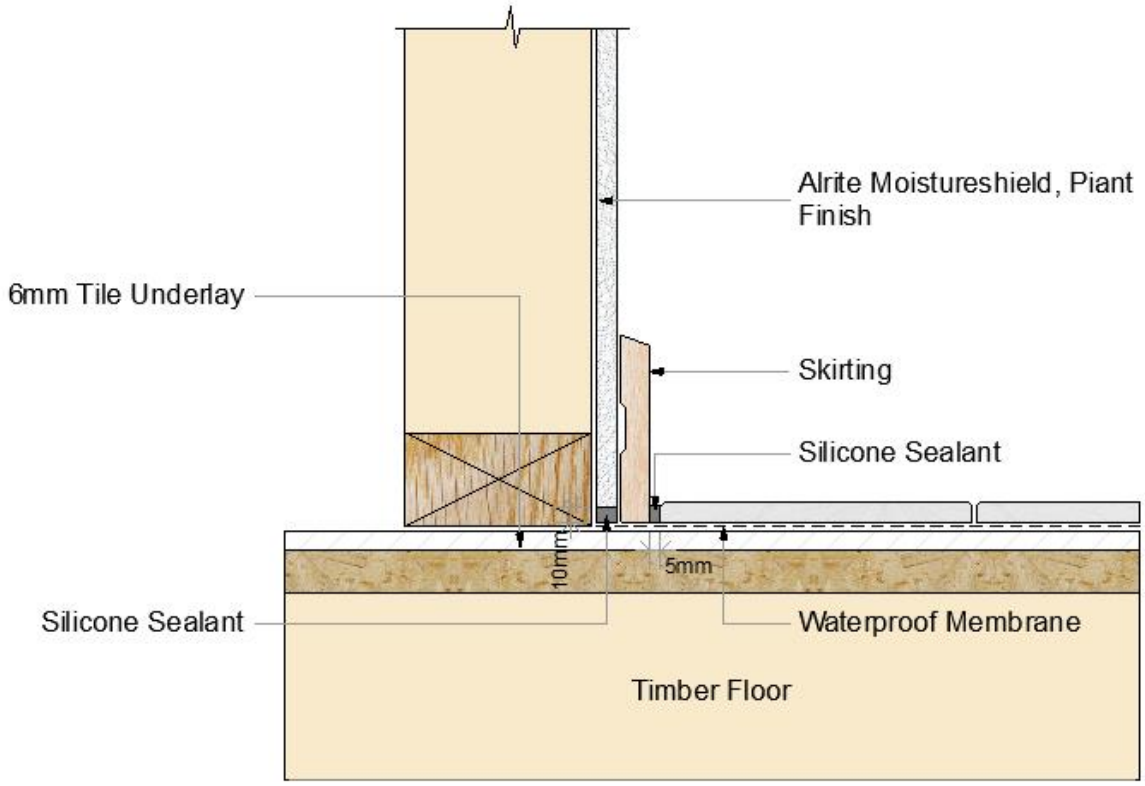
Vanity / Tub to Wall



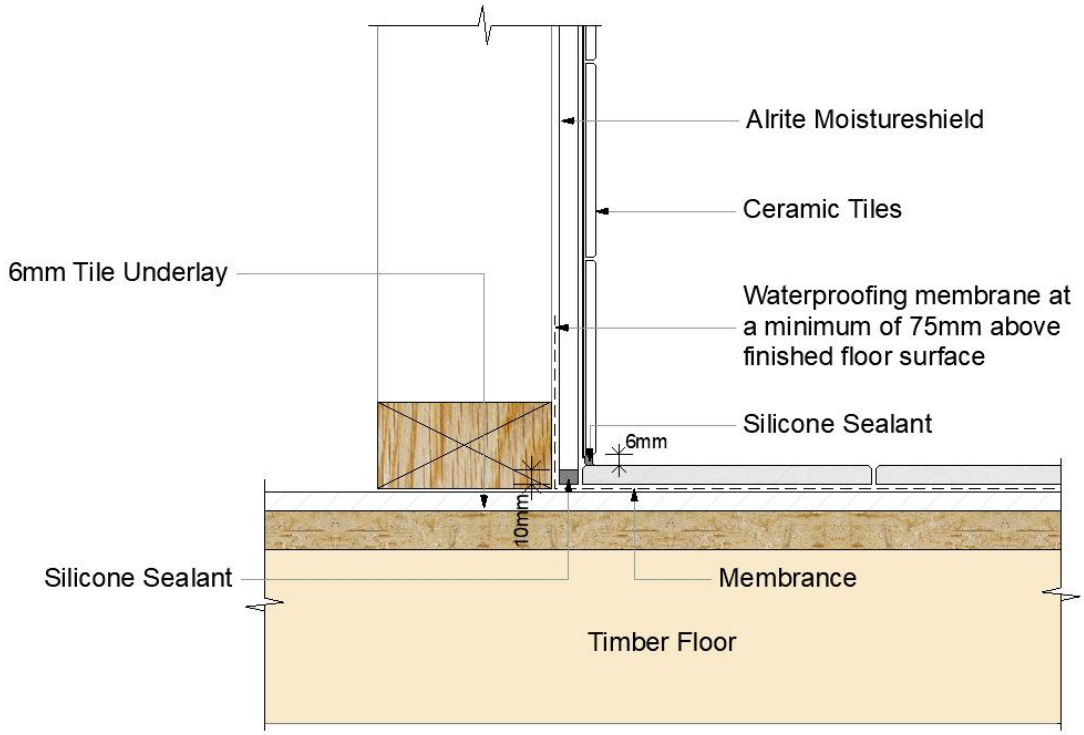
Shower Wall / Tray Detail - Tiled Walls and Acrylic Base - Section



Tiled Shower Base - Section



Tiled Floor to Wall - Section



Tiled Floor and Wall - Section

7.Installation Guideline

7.1 Installation Skill Level Requirement

The installation of Alrite Moistureshield can be performed by any competent building contractor with experience in plasterboard installation. However, due to the specific requirements of wet areas, it is recommended that installers familiarize themselves with the technical literature and follow all guidelines to ensure the board's moisture-resistant properties are maintained.

7.2 Cutting and Preparation

- Cutting: Alrite Moistureshield can be cut using standard plasterboard techniques. Score the face paper with a sharp knife and snap the board along the scored line. Cut through the back paper to complete the cut. For more precise cuts, use a saw or a metal straightedge as a guide.
- Edge Preparation: After cutting, smooth the edges with a knife to remove any loose paper or gypsum dust. This ensures a clean, tight joint when the boards are installed.

7.3 Health and Safety

- Dust Control: Cutting and sanding Alrite Moistureshield generates gypsum dust, which can irritate the respiratory system. Always work in a well-ventilated area and wear a suitable dust mask to protect against inhalation.
- Personal Protective Equipment (PPE): Wear gloves to protect your hands from sharp edges and eye protection to prevent dust from getting into your eyes. Ensure all PPE is worn correctly and maintained in good condition.

7.3.1 The dust generated from sanding joint compounds can irritate the respiratory system. It is advisable to wear an appropriate face mask during these activities to mitigate inhalation risks.

7.3.2 Hazards Identification

Cutting and sanding of plasterboard or cove may generate excessive dust.

Gypsum dust may irritate eyes or sensitive skin; it may irritate the respiratory system.

It is better for the operator to wear non-restrictive clothing, especially avoiding constrictions at neck and wrist etc. It is recommended that work clothing should be washed separately from other family clothing.

7.3.3. Composition/Information on ingredients

Plasterboard comprise in general of a core of calcium sulphate dihydrate encased in paper liners. Minor additives include starch, foaming agents and dispersants.

7.3.4. First Aid Measures

Inhalation: Remove the person to fresh air.

Skin contact: Rinse skin with running water and then wash with water and soap.

Eye contact: Irrigate with plenty of water and obtain medical advice.

Ingestion: Wash mouth out and drink plenty of water.

Please note: Should any symptoms persist obtain medical assistance.

7.3.5. Fire-fighting measures

Plasterboard and cove have a limited combustibility.

7.3.6. Accidental release measures

The formation of dust should be controlled and suppressed, collect released dust and put into bags. Prevent these products from contaminating drains and watercourses.

7.3.7 Handling and Storage

Plasterboards are supplied shrink wrapped on timber bearers. Packs should be lifted with a fork lift truck, the forks being set so there is an even weight distribution and no deformation of the pack. Ensure handling equipment is of adequate capacity and that the personnel are advised of handling procedures and safety clothing. Care should be

taken at all times to avoid strain to the handlers. Boards should not be lifted at the short edges or carried horizontally. Carry the boards on the edge, two persons per board by supporting one long edge and gripping upper edge to avoid breaking due to flexing.
If timber bearers are used to store boards on site, they should be a minimum 40mm wide and placed at a maximum 450mm centres.

Plasterboard is not designed to support body weight; fixers must work from an independent support system.

Personal protection

Occupational exposure limits

Substance	Total inhalable	Total respirable
Gypsum	10mg/m³	4mg/m³
Limestone	10mg/m³	4mg/m³
Quartz	0.3 mg/m³ (MEL)	
MMMF	5 mg/m³ (MEL)	

Note: 8 hour TWA reference period

Respiratory: The area of work requires appropriate ventilation and dust formation should be minimised and controlled. If dust formation can not be controlled wear a half face mask.
Hand: Protective gloves can be worn; a barrier of cream can be applied to the hands to reduce the effect of hand contact.
Eye: If the formation of dust is likely to occur, safety goggles are recommended.
Skin: To avoid skin contact wear overalls and footwear.

7.3.9. Physical and chemical properties
Appearance: Plasterboard is a sold flat sheet in a paper envelope.
pH: 7 (Neutral)

7.3.10. Stability and Reactivity
Stable and unreactive.

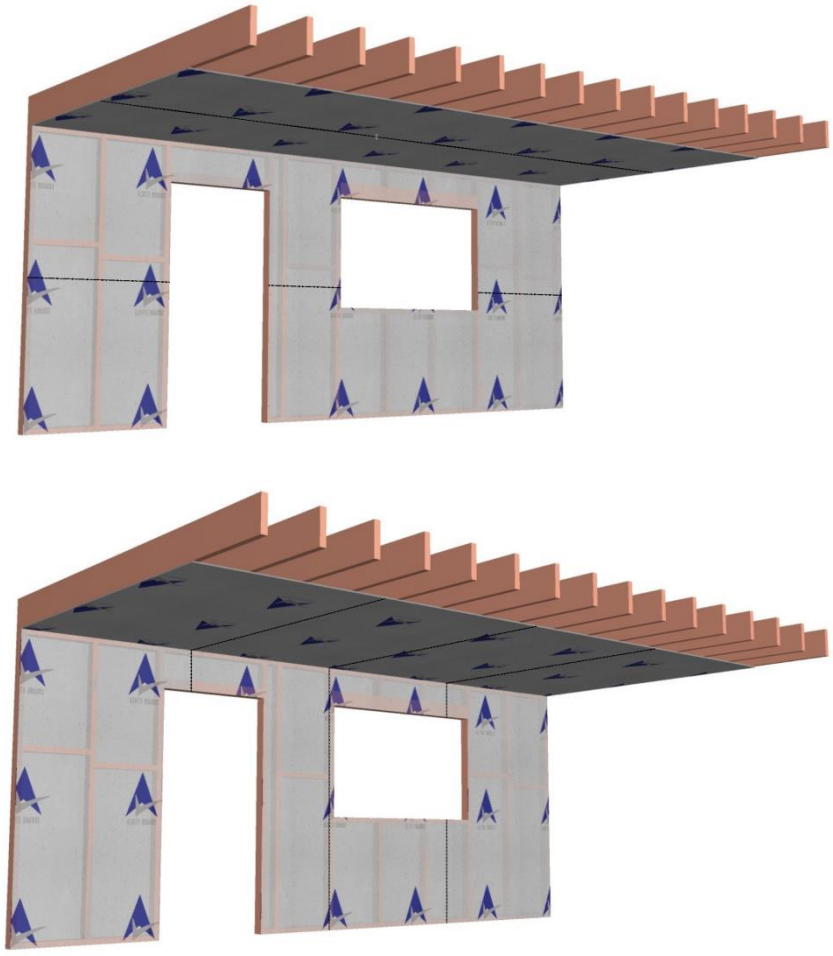
7.3.11. Toxicological Information
Inhalation:Dust can cause short term irritation to the respiratory system, no known long term effects.
Skin contact: Prolonged or repeated contact may cause dry skin leading to irritation.
Eye contact: Short term irritation can be experienced due to dust formation.
Ingestion: Wash mouth out and drink plenty of water.

7.3.12. Disposal Considerations
Can be disposed of at an authorised landfill site in accordance with local or national regulations.

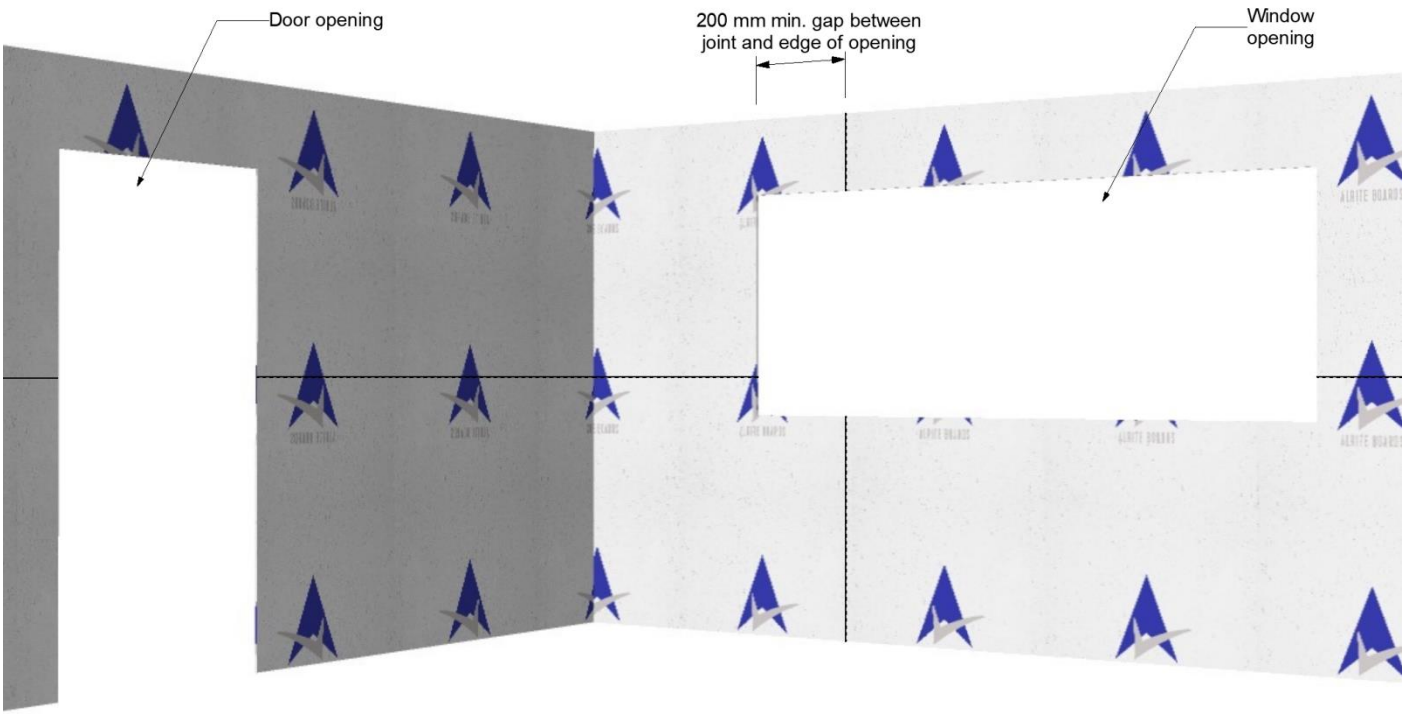
7.3.13. Other Information
This product should be used as directed by Alrite Boards. For further information consult the technical department.
An on-site risk assessment should be carried out before use. This safety data sheet:
• Supersedes all previous issues, and users are cautioned to ensure it is current. Destroy all previous data sheets, and if in any doubt, contact Alrite Boards.
•Does not replace the users own workplace risk assessment.
• Was compiled using the current safety information supplied by the distributors of the component materials.

7.4 Framing Requirements
Before installation, ensure that the moisture content of timber framing is less than 18%. For buildings that will be air-conditioned or centrally heated, maintain a moisture content range of 8-18% to prevent movement or warping of the framing after the board is installed. Ensure all framing is plumb, square, and free from defects to provide a solid, stable surface for the plasterboard.

7.5 Fixing Sheets
7.5.1 **Vertical and Horizontal Installation:** Alrite Moistureshield can be installed either vertically or horizontally. Leave a 5-10mm gap between the floor and the bottom edge of the board to allow for expansion and contraction.



7.5.2 **Edge openings**
To avoid cracking of vertical joints at openings such as windows and doorways, vertical joints shall not coincide with the edge of openings and the sheets shall be laid so that the vertical joint falls a minimum of 200 mm from the edge of the opening



7.5.3 **Fixing Patterns:** Use screws or flat-head nails to fix the boards to the framing, following the recommended fixing patterns provided in the technical literature. In non-tiled areas, adhesive can also be used to supplement mechanical fasteners, but do not apply adhesive directly under the fasteners.

7.5.4 **Tiled Areas:** In areas where tiles will be applied, fix the boards with screws at 100mm centers along all studs. Control joints should be provided at maximum 4m centers to accommodate movement and prevent cracking. Reinforce internal corners in shower areas with a minimum 35 x 35 x 0.7mm galvanized metal angle before lining the walls.

- Jointing in Non-Tiled Areas: Apply jointing compound over all joints, embedding jointing tape to strengthen the joint. Apply a second coat of jointing compound, feathering the edges to create a smooth finish. Sand the joints lightly to remove any ridges or tool marks before applying a final coat of compound.
- Jointing in Tiled Areas: Apply a waterproof jointing compound in tiled areas to prevent moisture from penetrating the joints. Ensure all joints are fully sealed before tiling begins. If a waterproofing membrane is required, apply it over the entire surface before tiling.

7.6 Non-Tiled Areas
Whether installed vertically or horizontally, sheets in non-tiled areas should be affixed using either screws or flat-head nails along with plasterboard adhesive. Detailed fixing patterns are provided in the Technical Literature. Adhesive should not be applied directly under fasteners.

7.7 Ceiling Installation

When installing Alrite Moistureshield on ceilings, support the sheets with timber or steel battens, or

ceiling joists spaced no more than 450mm apart in areas with high humidity (such as bathrooms), or 600mm apart in other areas. Fix the boards to the ceiling joists using screws or flat-head nails, and apply adhesive to supplement mechanical fasteners where appropriate.
Control Joints: In large ceiling areas, provide control joints at maximum 4m centers to accommodate movement and prevent cracking. Ensure the joints are aligned with the framing and are properly sealed.

7.8 **Penetrations and Sealants**

- When cutting out holes for pipes, use a hole saw to make neat cut-outs. The holes should be approximately 12mm larger in diameter than the pipe.
- Apply a bead of sealant around the entire thickness of the Alrite Moistureshield sheet at all pipe penetrations, along bath rims, preformed shower bases, and anywhere an impervious seal is needed at the floor/wall junction.

7.9 **Tiled shower area**

In tiled shower areas, a waterproofing membrane must be applied over the Alrite Moistureshield. The waterproofing membranes are not covered by this document and should be specified and approved separately.

7.10 Plaster

7.10.1 Preparation

Undercoat and one-coat plasters

The background must be sound and free from dust and surface contamination such as releasing agents.
The background must be checked to ascertain the degree of suction and key.
In some situations,difficult backgrounds may need a preparatory treatment to ensure optimum results. Knauf Primer are specially formulated for this purpose.

7.10.2 **Finishing Plasters**

The background should be firm and ready to receive a finishing coat. If the undercoat is very dry, pre-wet to reduce suction. If applying a finish to a sand &cement backing, ensure that the correct ratio of sand to cement has been used, that the background has had sufficient time to cure and is free from cracking and crazing. Excessive lime content in sand &cement can lead to efflorescence.

If finishing on plasterboard,ensure its free from dust and surface contamination.

Plasterboards with moisture resistant qualities require a pretreatment with Knauf Betokontakt.

Mixing Knauf plasters must be mixed in a clean bucket. The use of dirty water or equipment may affect setting times. The plaster must be added to clean cold tap water and mixed to an even consistency. Over-mixing with a mechanical mixer may affect the setting time.

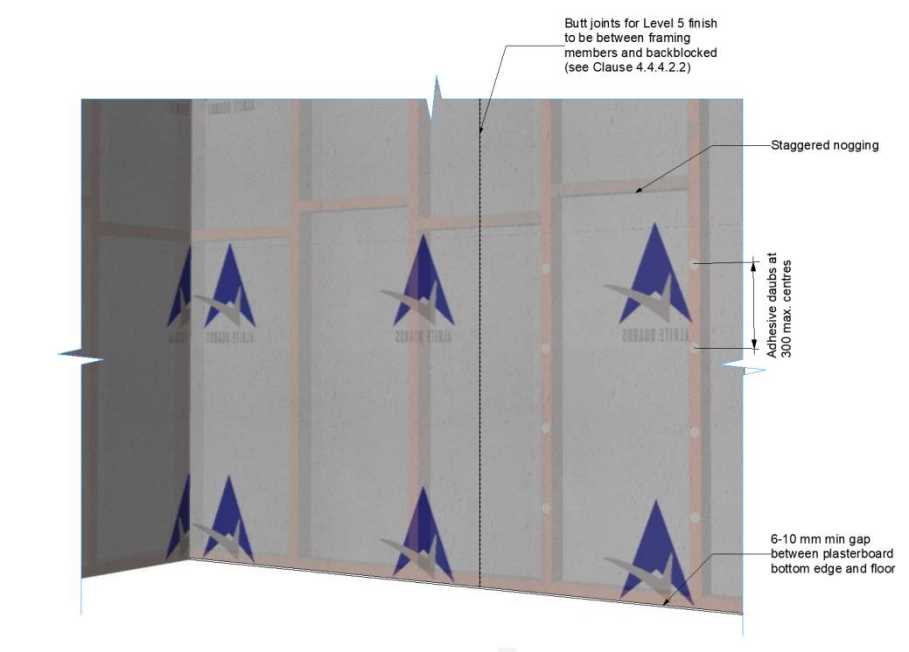
7.11 Level of finish

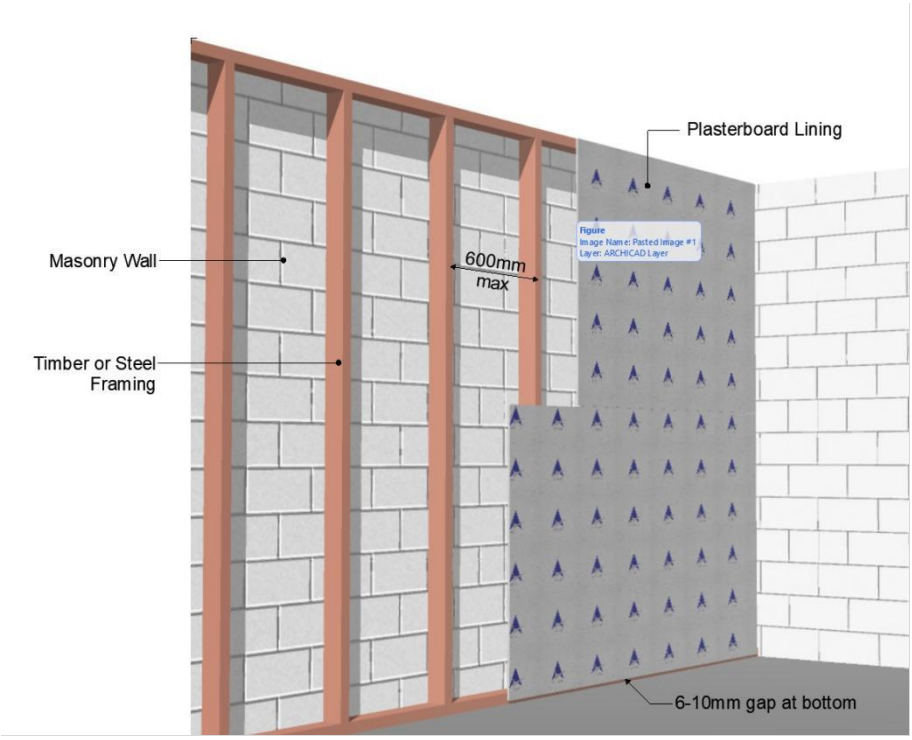
Level 3 shall be used in areas that do not require decoration (for example, above ceiling level or inside service shafts and the like).
All joints and interior angles shall have tape embedded in jointing cement/jointing compound and one separate coat of jointing cement/jointing compound applied over all joints and fastener heads. All jointing cement/jointing compound shall be finished smooth.

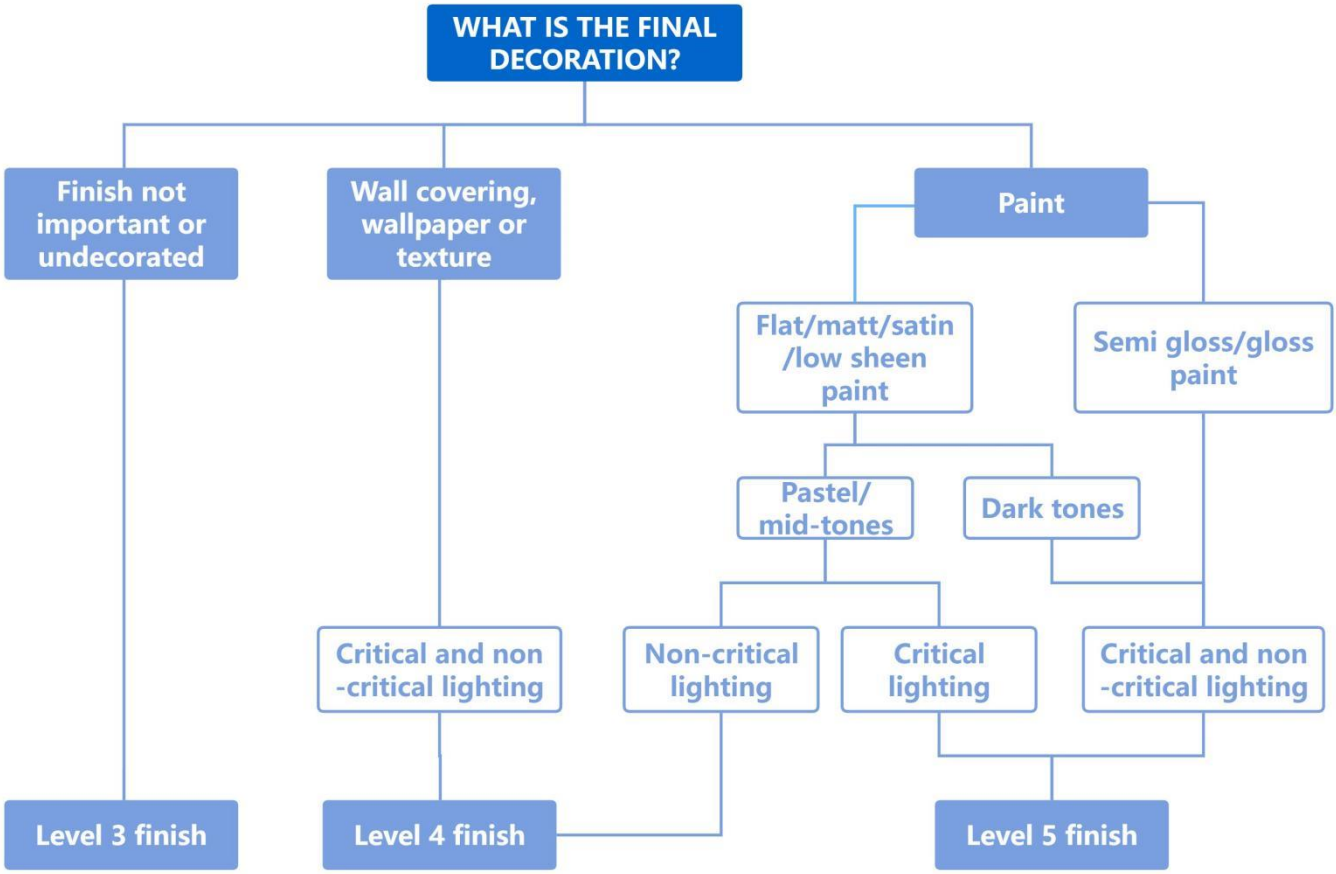
Level 4 shall be the default level for gypsum lining. Flat, matt or low sheen paints shall be used for this Level 4.
All joints and interior angles shall have tape embedded in jointing cement/jointing compound and a minimum of two separate coats of jointing cement/jointing compound applied over all joints, angles, fastener heads and accessories. All jointing cement/jointing compound shall be finished evenly and be free of tool marks and ridges in preparation for decoration.

Level 5 shall be used where gloss or semi-gloss paints are to be used or where critical lighting conditions occur on flat, matt or low sheen paints. A Level 5 finish is characterized by a parity of texture and porosity. The surface texture shall be random in fashion and monolithic, concealing joints and fixing points.
All joints and interior angles shall have tape embedded into jointing cement/jointing compound and a minimum of two separate coats of jointing cement/jointing compound applied over all joints, angles, fastener heads and accessories. All jointing cements/jointing compounds shall be finished free of tool marks and ridges.
A paint or plaster material shall then be sprayed, rolled or trowelled over the defined area.

For future information of levels of finishes, refer to AS/NZS 2589.2017


Butt joints for Level 5 finish to be between framing members and backblocked (see Clause 4.4.4.2.2)
Staggered nogging
Adhesive daubs at 300 max. centres
6-10 mm min gap between plasterboard bottom edge and floor


Plasterboard Lining
Masonry Wall
600mm max
Timber or Steel Framing
6-10mm gap at bottom


WHAT IS THE FINAL DECORATION?
Finish not important or undecorated
Wall covering, wallpaper or texture
Paint
Flat/matt/satin /low sheen paint
Semi gloss/gloss paint
Pastel/ mid-tones
Dark tones
Critical and non -critical lighting
Non-critical lighting
Critical lighting
Critical and non -critical lighting
Level 3 finish
Level 4 finish
Level 5 finish

8.Maintenance

8.1 General Maintenance

8.1.1 Dry Environment Requirement: Alrite Boards Moistureshield is engineered to require minimal maintenance, provided it is installed in, and remains in, a dry internal environment. Ensuring the environment remains dry is crucial to maintain the plasterboard's condition and performance. The building must be maintained weathertight and all lining systems protected from internal and external moisture.

8.1.2 Installation Compliance: For optimal performance and durability, it is essential that these products are installed following the specific design and installation requirements as outlined in the Alrite Boards technical documentation.

- The finishes in areas prone to water splashes and showers, such as tiles, grout, waterproof membranes, sealants, and flexible sheet vinyl, should be regularly inspected to make sure the system stays intact. If any damage or wear is found, repairs or replacements should be made as needed. When fixing or replacing these finishes, be sure to inspect the Alrite Moistureshield substrate for any damage and repair or replace it if necessary.

- Flexible Sheet Vinyl： Pay special attention to the joints, especially in the corners, to ensure the vinyl has not been punctured or damaged. If any issues are found, repairs should be made immediately to prevent further problems.

8.2 Damage Remediation

8.2.1 Need for Replacement: In instances where Alrite Boards Moistureshield incurs damage due to fire, flooding, or excessive structural movement, a thorough assessment should be conducted. Damaged plasterboard should be removed from the affected areas and replaced during the remediation process to ensure the area returns to its pre-damage condition and complies with the Building Code.

8.2.2 Overlay Option: In scenarios where damage is limited or superficial, overlaying a new sheet of plasterboard over the existing damaged one might be considered a viable option. This method should only be adopted following a professional assessment to ensure compliance with all relevant codes and standards.

8.2.3 Impact and Other Damage: Any impact damage or similar harm to the Alrite Boards Moistureshield should be addressed promptly to maintain compliance with the Building Code. Remedial actions are necessary to ensure the structural integrity and fire resistance properties of the plasterboard are not compromised.

8.3 Seeking Further Guidance

8.3.1 Access to Information: For comprehensive maintenance instructions following damage to Alrite Boards plasterboard linings or for advice on conducting appropriate remediation work, reference to the published Alrite Boards technical literature is advised. This literature contains detailed guidance on maintaining and repairing Alrite Boards plasterboard to uphold its quality and compliance.

8.3.2 Professional Support: For further assistance or clarification on maintenance and remediation processes, the Alrite Boards Helpline is available to provide expert advice and support. Our dedicated team is committed to assisting with queries and ensuring that your Alrite Boards plasterboard installations continue to meet and exceed industry standards.

Email Support: info@alriteboards.com

9.Warranty

Alrite Moistureshield has a service life of at least 15 years when used as a fully protected lining in shower areas or places exposed to water splashes. As a general wall and ceiling lining, it can last over 50 years. The durability of Alrite Moistureshield depends on it being properly protected, staying dry during use, and being maintained according to the technical manual provided.

9.1 Alrite Boards's Quality Guarantee

9.1.1 Alrite Boards is committed to excellence, offering high-quality plasterboard products and systems designed to meet the rigorous standards of the construction industry and ensuring customer satisfaction. Our Moistureshield products come with a warranty for a 15 years from the date of purchase, underscoring our confidence in their quality and durability.

9.1.2 Warranty Coverage

Duration: Alrite Moistureshield products are covered by this warranty for 15 years from the purchase date.

Defect-Free Guarantee: Alrite Boards warrant that Alrite Moistureshield products will be free from defects in workmanship or materials, in line with specifications outlined in our technical documentation.

Remedy for Defective Products: Should any Alrite Plasterboard product be found defective, Alrite Boards will, at its discretion, replace or repair the product, assuming the product's installation followed our guidelines.

9.2 Conditions of the Warranty

Consumer Protections: This warranty respects all rights under the Consumer Guarantees Act, not restricting or altering any legal protections.

9.2.1 Claim Submission: Claims regarding product defects must be submitted in writing within 30 days of recognizing the defect, or prior to installation if the defect was apparent beforehand. Proof of purchase is required.

9.2.2 Compliance with Building Standards: The application of Alrite Boards products must adhere strictly to the New Zealand Building Code and other relevant standards and regulations.

9.2.3 Initial Application: This warranty is valid only for the product's initial application, provided the product was used and maintained as per Alrite Boards' instructions. It does not cover the reuse of any product.

9.2.4 Resolution Process: Alrite Boards will work with the customer to resolve valid claims, which may include product replacement or repair. The company's liability is specifically defined within this warranty scope.

9.2.5 Exclusions: This warranty does not cover issues arising from external factors beyond Alrite Boards' control, including but not limited to poor workmanship, environmental conditions, and the use of incompatible materials.

9.2.6 System Integration: While Alrite Boards provides guidance and assistance, it is the responsibility of the project's stakeholders to ensure that the application is suitable for their specific needs.

9.2.7 Misuse and Abuse: This warranty does not cover damages or defects resulting from misuse, abuse, improper storage or handling, installation not in accordance with Alrite Moistureshield's technical literature, or modifications made to the product after leaving the factory.

9.2.8 Normal Wear and Tear: The warranty does not cover normal wear and tear or cosmetic issues that do not affect the structural integrity or performance of the plasterboard products

9.2.9 Exclusion of Additional Warranties: Other than what is explicitly mentioned in this warranty, Alrite Boards excludes additional warranties to the extent permitted by law.

9.3 Claiming Under the Warranty

To claim under this warranty, the product owner must notify Alrite Boards, providing a detailed description of the issue and proof of purchase. Alrite Boards is committed to addressing and resolving valid claims in a manner that reflects our high standards of customer service and support.

Alrite Moistureshield

Alrite Plasterboard is manufactured by Knauf. Construction projects are multifaceted, influenced by a myriad of factors that determine the suitability of specific construction techniques and products. To navigate these complexities effectively, Alrite Board underscores the importance of professional consultation, the necessity of accessing and utilizing the latest technical information, and the advantages of relying on products with CodeMark certification.

Seeking Professional Advice and Qualified Installation

Before initiating any construction project with Alrite Board Moistureshield, it's crucial to seek expert advice. This ensures that the construction techniques employed are optimally suited to the unique circumstances of your project. Alrite Boards strongly advises the use of qualified tradespersons for the system's installation, ensuring adherence to the highest standards of quality and regulatory compliance.

Ensuring Access to Current Technical Information

The technical data contained within this manual was accurate as of the time of publication. However, the dynamic nature of the construction industry means that building systems, installation details, and product availability are subject to change. Alrite Boards advocates for regularly consulting the most current building information on our website. This commitment to staying informed ensures that your project decisions are based on the latest, most relevant data, aligning with industry advancements and regulatory updates.

CodeMark stands as a voluntary product certification scheme in Aotearoa New Zealand, signifying that a building product or method meets the New Zealand Building Code requirements. The presence of a CodeMark certificate mandates Building Consent Authorities to accept the certified product or method as complying with the Building Code, assuming the certificate is up-to-date and the product is applied according to its specifications. As the only certification scheme deemed to comply, CodeMark certification is invaluable for ensuring and demonstrating Building Code compliance, providing peace of mind and streamlined approval processes.

Further Information and Support

Alrite Boards is dedicated to offering comprehensive support throughout your project. For additional information, clarification on installation practices, or inquiries about CodeMark certification, please do not hesitate to contact our support team. We are here to assist you with expert advice and support, ensuring your construction project with Alrite Moistureshield meets your expectations for quality, safety, and compliance.

Please verify the currency of this publication before proceeding to ensure reliance on the most up-to-date information. Alrite Board does not assume liability for the application of superseded information. For the latest edition of this manual and further support:

Website: www.alriteboards.com

NOTES


ALRITE PLASTERBOARD