

SURFACE DEPOT

WALL PANEL SYSTEMS

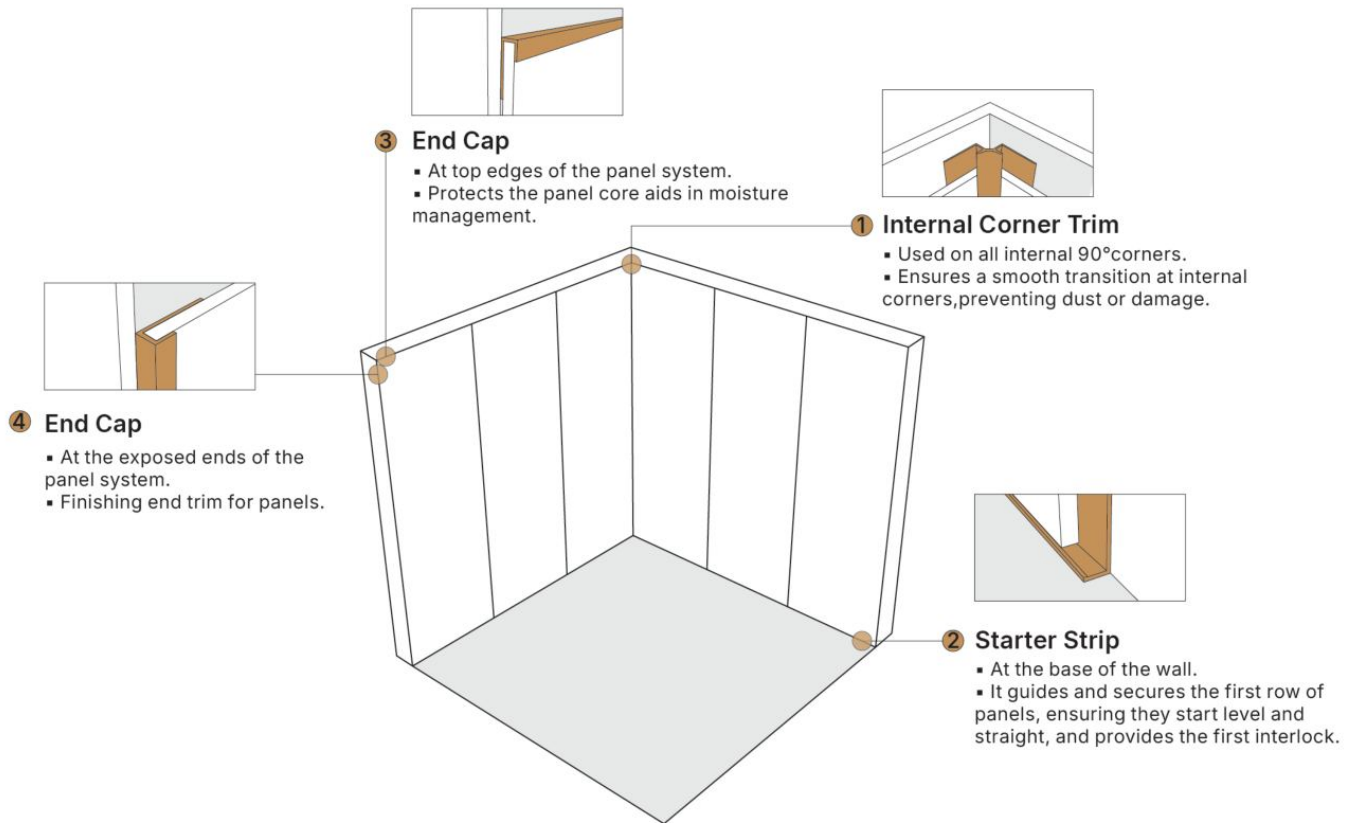
INSTALLATION GUIDE

Wall Panels

Panel Size: 2400mm x 600mm

Wall Panel Installation Guide

PRODUCT OVERVIEW



The Large Mineral Core Wall Panel (2400 x 600mm) creates a seamless, monolithic aesthetic that dramatically enhances the sense of space.

Seamless & Durable Wall System

1-Perfectly Smooth Surface

Ultra-precise locking mechanism eliminates visible gaps for a continuous, unbroken wall appearance.

2-Fast & Easy Installation

Designed for DIY, a standard room can be completed in hours with minimal tools.

3-Waterproof & Moisture-Resistant

Integrated silicone-groove locking prevents moisture penetration, making it safe for wet areas such as bathrooms.

4-Design Flexibility

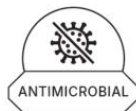
Compatible with cross-layout (4-panel intersection) installation and includes matching profiles for a fully integrated finish.

5-Ideal for Quick Renovation

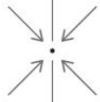
Lightweight and flexible panels can be installed directly over existing walls without removing old coverings.

6-Low Maintenance & Clean

Stain-resistant surface is easy to clean and requires minimal upkeep.



Click Together, Refresh in an Instant



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AREAS OF APPLICATION

1. Suitable Areas

In residential spaces, for example

Hallways and entrances;

Kitchens (the product can be used near induction cooktops but is not suitable for use near gas stoves);

Staircases and passageways;

Living rooms and other rooms;

Bathrooms and toilets (Tip: The product is suitable for use in shower enclosures and around bathtubs)

Commercial Spaces, for example:

- Offices & conference rooms;
- Hotel rooms;
- Corridors, staircases & passageways;
- Bars & restaurants;
- Changing rooms & backrooms.

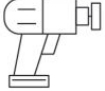
2. Not Suitable Areas

- × Outdoors, such as on balconies or verandas;
- × In winter gardens;
- × In saunas;
- × Near fire sources: directly next to gas stoves or around fireplaces.

PREINSTALLATION PREPARATION

1. Tools & Materials

1.1 Essential Tools

					
PENCIL	GLUE	SQUARE	UTILITY KNIFE	RUBBER Mallet	LASER LEVEL
					
CIRCULAR SAW	HOLE SAW OR MULTITool	SAFETY GOGGLES	PROTECTIVE GLOVES	SPIRIT LEVEL	MEASURING TAPE

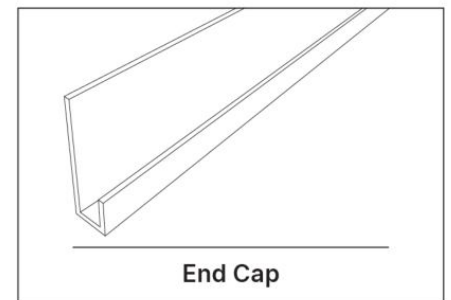
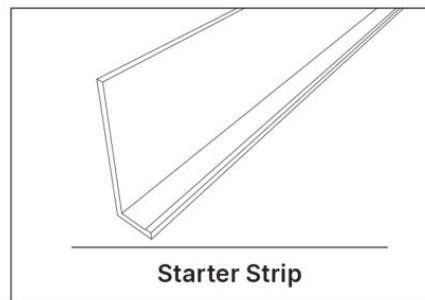
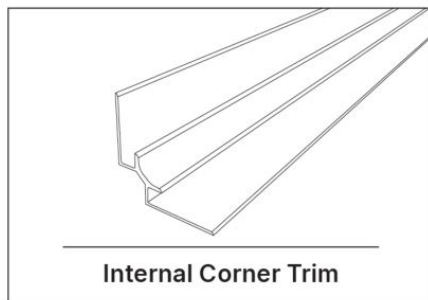
1.2 Guidelines for Adhesives

Use a suitable high-quality adhesive recommended for mineral core wall panels and wet area applications.



Prior to commencing installation, conduct an adhesion test by applying a minimal amount of adhesive to a discrete substrate section to verify bonding characteristics.

1.3 Accessories Preparation



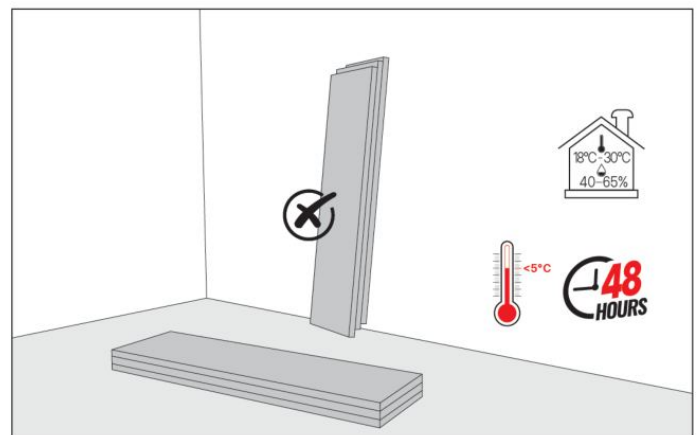
2 . Panel Acclimatization

Under controlled ambient conditions (18°C to 30°C / 65°F to 86°F; 40–65% RH):

- Minimum 24-hour stabilization period when prior thermal exposure $\geq 5^{\circ}\text{C}$ (41°F).
- Minimum 48-hour stabilization period when prior thermal exposure $< 5^{\circ}\text{C}$ (41°F).

Critical handling requirements:

- Prevent direct sunlight exposure.
- Maintain horizontal stacking orientation.
- Limit palletized height to 3-unit maximum.



3 . Substrate Preparation

3.1 Acceptable Substrates

Mineral core wall panels may be applied to

- Plastered walls;
- Drywall (plasterboard);
- Ceramic tiles;
- OSB boards or plywood.

Substrate moisture content

- Plastered walls / drywall / ceramic tiles $\leq 8\%$.
- OSB boards or plywood $\leq 10\%$.

Substrate strength

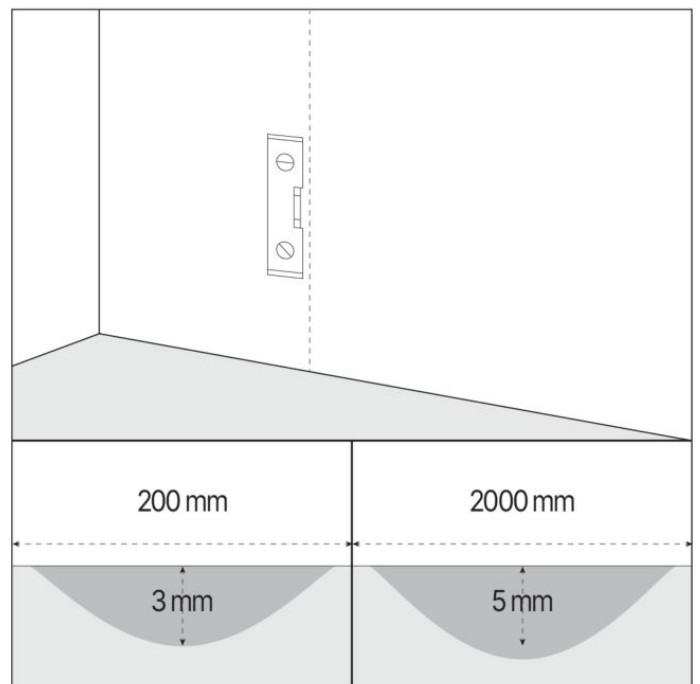
- Compressive strength ≥ 25 MPa.

Substrate cleanliness

- Should be free from grease and chemical substances.

Substrate flatness

- Max 3 mm variance per 200 mm;
- Max 5 mm variance over 2000 mm Non-compliant areas require leveling.



The wall surface must be flat, stable, clean and dry before installation. Uneven areas should be repaired before fitting the panels. Do not install over loose, damp or unstable surfaces.

3.2 Removal Of Elements:

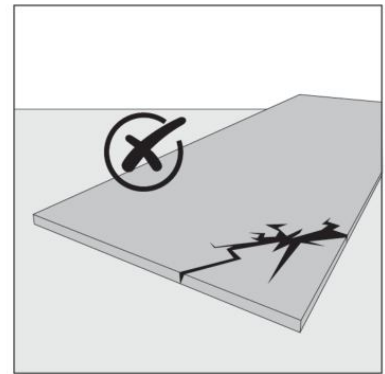
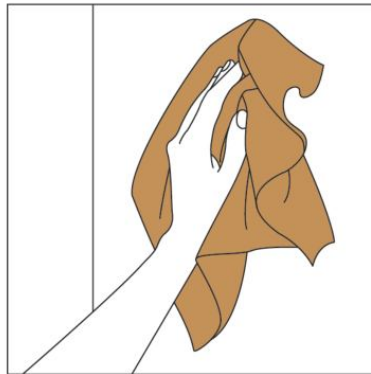
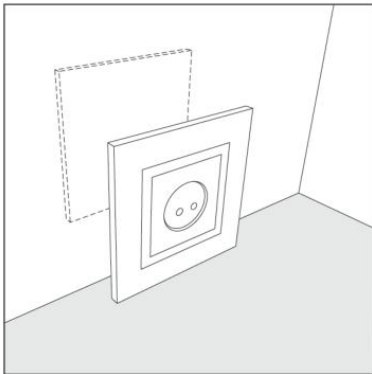
- Remove sockets, switches and any protruding fittings before installation.

3.3 Clean The Substrate:

- Ensure the wall surface is clean, dry, flat and free from dust or loose material.

3.4 Check the wall vertical:

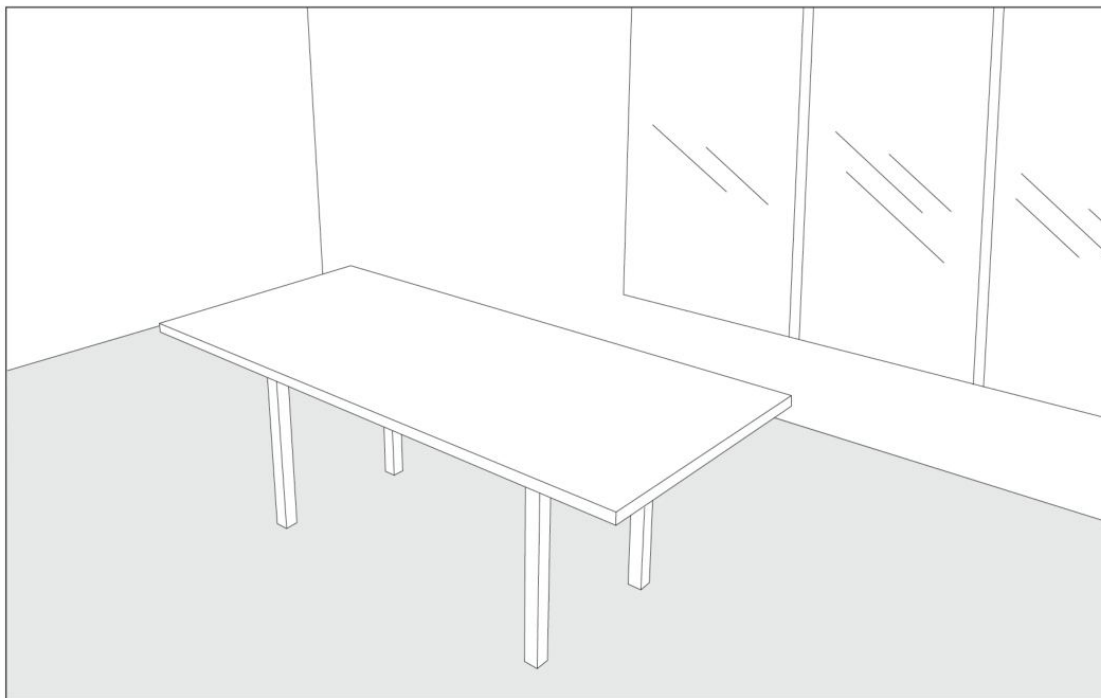
- Check the wall is level, plumb and suitable for installation.



Before and during installation, inspect all wall panels under proper lighting for defects, including cracks, color mismatch, uneven gloss, or texture irregularities.

4 Workspace Preparation

- Arrange a workplace (such as a table) specifically for free panels cutting to prevent lock damage.



MEDIUM MINERAL CORE WALL PANEL INSTALLATION (CROSS LAYOUT)

1. Accessory Measurement & Installation

1.1 Internal Corner Trim

Measure & Cut

- Measure the vertical height from floor to ceiling at the corner.(Fig.1)
- Transfer this measurement to the internal corner trim, that cut circular saw.(Fig.2)

Install

- Test fit the cut internal corner trim in the corner. It should contact both walls and span floor to ceiling.
- Apply adhesive to the back of the internal corner trim.(Fig.3)
- Press the internal corner trim firmly into the corner and check for perfect vertical alignment with a level. (Fig.4)



Support the Internal Corner Trim securely during cutting to avoid splintering.

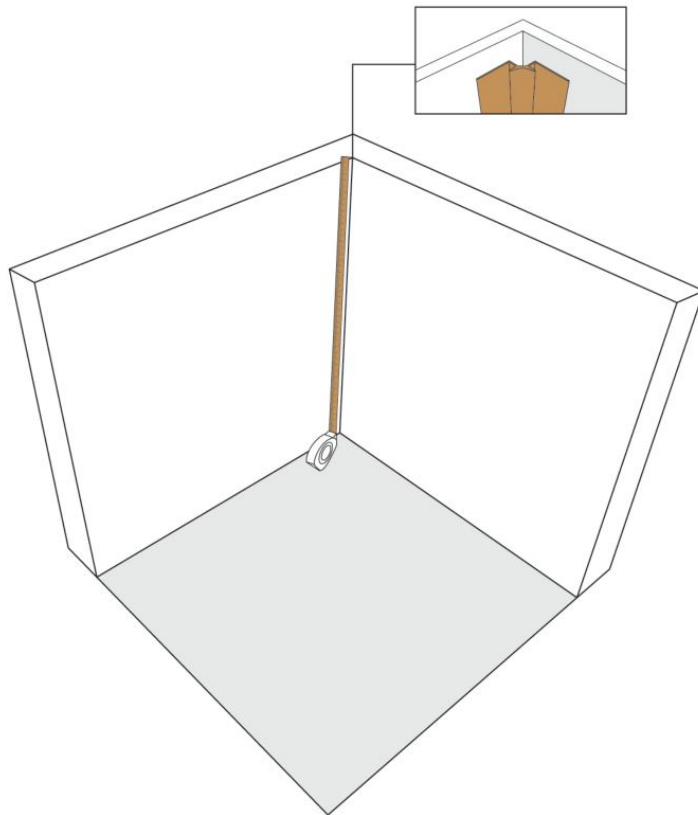


Fig.1

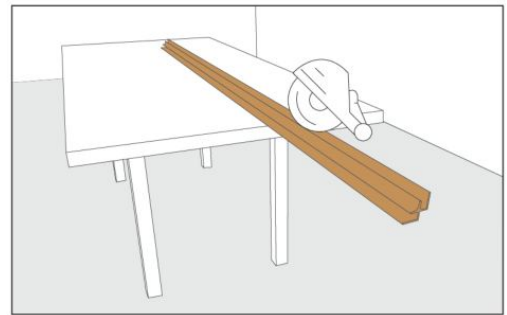


Fig.2

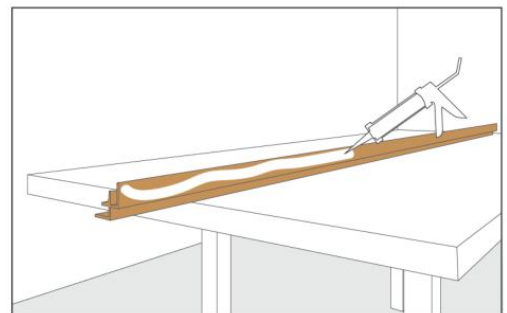


Fig.3

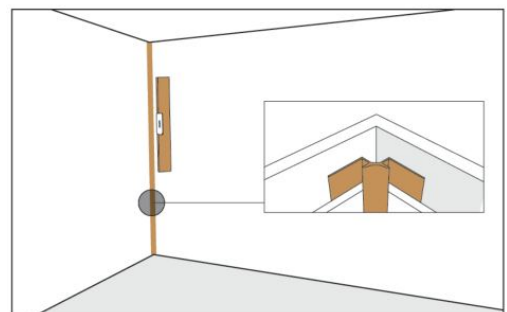


Fig.4

1.2 Starter Strip

Measure & Cut

- Measure starting from the corner to the end of the installation section. Ensure the measurement is accurate to avoid gaps or overlaps.(Fig.5)
- Transfer this measurement to the starter strip, then cut with a circular saw.(Fig.6)

Install

- Test fit the cut starter strip in its planned position. Ensure it sits flush and straight along the starting edge.
- Apply adhesive to the back of the starter strip.(Fig.7)
- Ensure the starter strip is installed level before fitting the first panel. Use a spirit level or laser level to check alignment. (Fig.8)



Support the starter strip securely during cutting to avoid splintering.

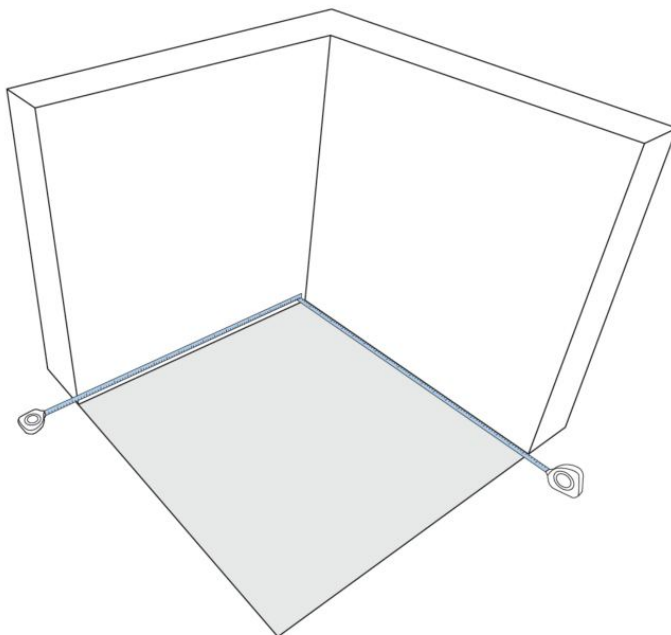


Fig.5

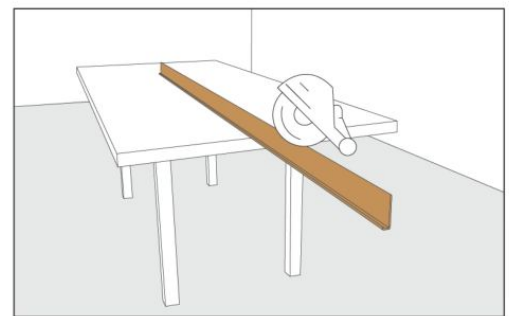


Fig.6

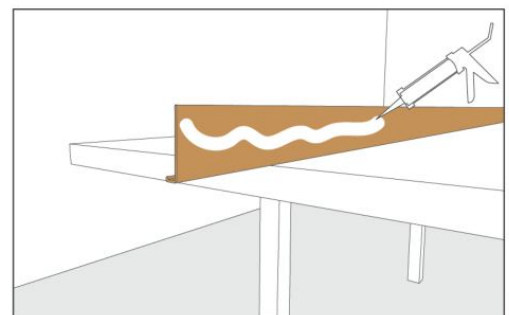


Fig.7

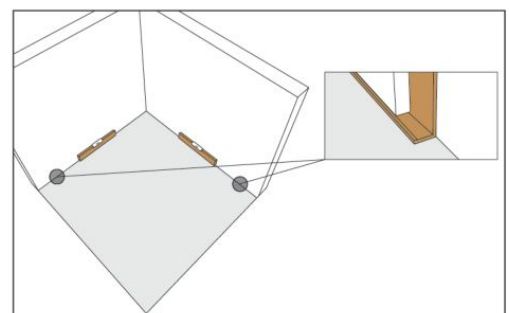


Fig.8

2 . Wall Panel Installation

2.1 Overview of Wall Panel Installation Sequence

Installation sequence for 2400mm×600mm mineral core wall panel cross layout(Based fig.9 on the diagram)

- Start with the corner reference panel (**panel 1**)

Install **panel 1** first—it serves as the positioning benchmark for the corner area.

- Install **panel 2** (adjacent to the left of **panel 1**).
- Install **panel 3** (adjacent to the left of **panel 2**).
- Install **panel 4** ((adjacent to the right of **panel 1**).
- Install **panel 5** (adjacent to the right of **panel 4**).
- Install **panel 6** (adjacent to the right of **panel 5**).

Apply adhesive evenly to the rear of the panel. Position the first panel carefully and check it is level and square. Use a rubber mallet to gently tap the panel into position if required.

The most crucial requirement during the whole process is to ensure that all cross joints of the panels are precisely aligned without any deviation, which is essential for guaranteeing the structural stability and the neat, uniform finish of the entire wall surface.

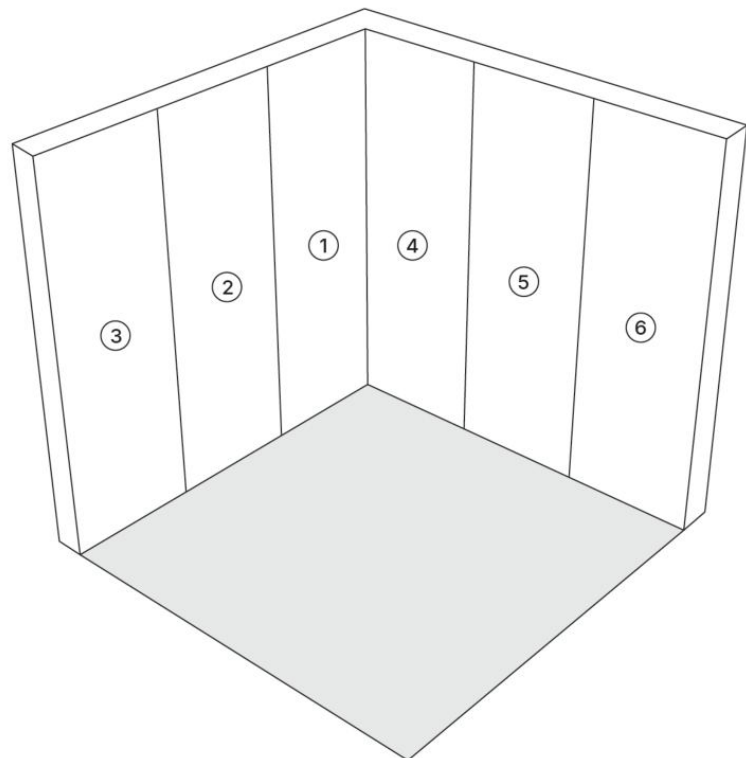


Fig.9

2.2 Key Points to Align Wall Panels Horizontally & Vertically

Specialized Tool Checking

- Use a level gauge to check each panel's levelness and a laser level gauge to calibrate verticality when installing individual panels – a fundamental, critical step.

Precise Splicing Alignment

- Align locking tongues/lock grooves precisely (e.g., bottom latch to starter strip/lower panel slot, side latch to adjacent panel slot) before fitting panels to the wall. Align first, then check to avoid post-installation adjustments for misalignment.

Multi-Dimensional Vertical Check

Calibrate verticality using the wall as the benchmark; verify overall vertical consistency of adjacent installed panels (e.g., 1-2/2-4) and multi-panel joints to prevent individual panels from being vertical but overall splices from being misaligned.

Pre-Fixing Confirmation

- Complete level/vertical checks and adjustments to meet standards before securing with a rubber mallet. Tap with even force and recheck joints post-fixing to avoid tapping-induced misalignment.

Joint Gap Verification

- Ensure no gaps between panels (e.g., 1 and 2, 2 and 3) and at multi-panel joints. Uneven gaps usually indicate alignment deviations and serve as a visual auxiliary check standard.

2.3 Wall Panel Cutting

Circular cutout cutting

- Measure the center point of the circular hole on the wall. Mark the center point of the circular hole on the installation position panel. Use a hole saw or multitool to cut at the center point.(Fig.10-12)
- Keep the drill stable and avoid tilting during operation.

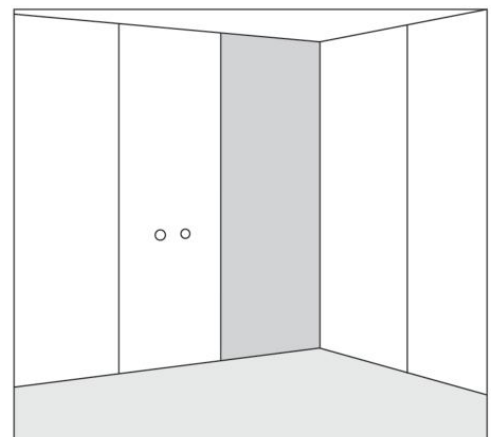


Fig.10

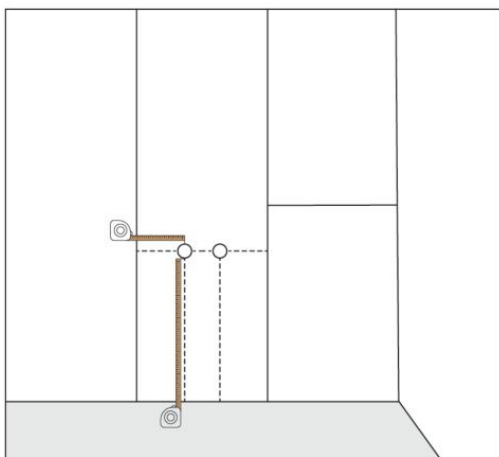


Fig.11

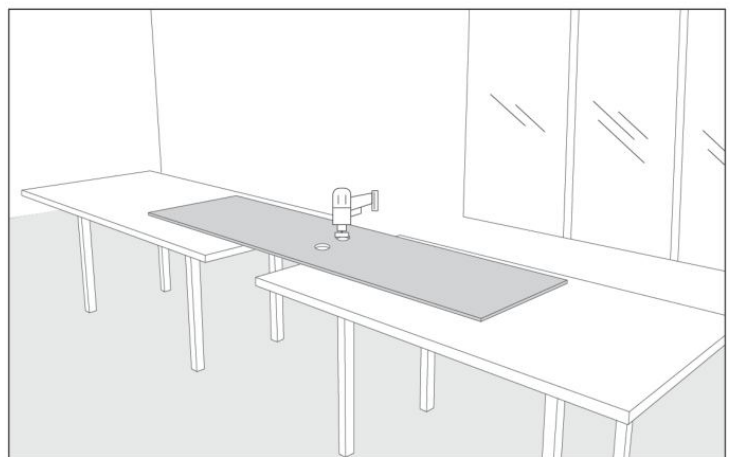


Fig.12

Panel Cutting

- As fig.13 in the layout diagram, panels 3 are the last two panels installed at the end of the wall segment. If the measured width of the end wall is less than 600 mm, panels 3 need to be cut to ensure proper installation.
- Measure the width of the wall, transfer the precise dimensions to the wall panel, and mark the cutting lines.
- Fabricate wall panel to specified dimensions using a utility knife or a circular saw.(Fig.14)

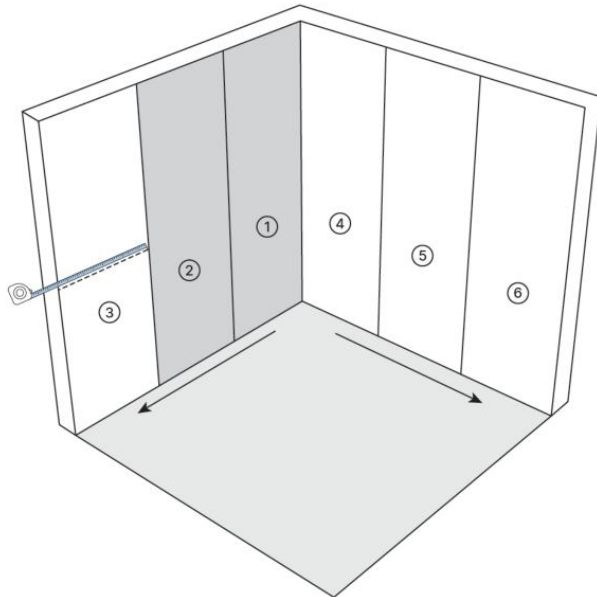


Fig.13

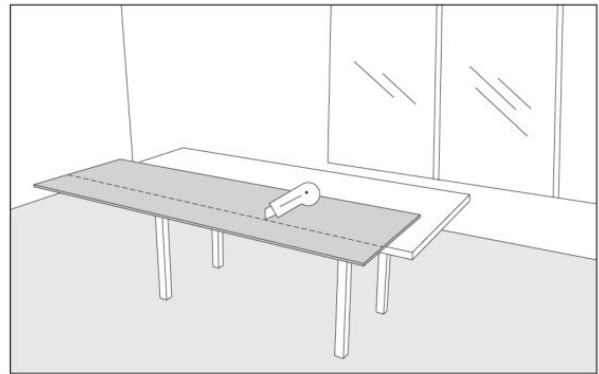


Fig.14

2.4 Step-By-Step Installation

Expansion Gaps

- Maintain a 3-5 mm expansion gap under the ceiling, After at least 12 hours from gluing, fill it with silicone.(Fig.15)

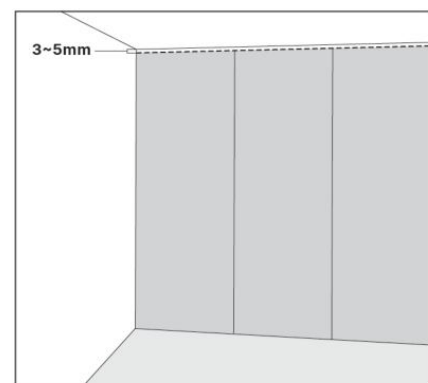


Fig.15

Start with Corner Panel 1**Orientation:**

- Place the panel with the short side (600mm) horizontal and the long side (2400mm) vertical. The locking tongues should face toward the right and downward for interlocking with adjacent panels and internal corner trim.

Interlocking:

- The panel is connected to the internal corner trim strip on the right and the bottom starter strip via locking tongues.(First install the short side, then install the long side.)

Apply adhesive:

- You can apply adhesive to the back of the mineral core wall panel or apply it directly to the wall surface.(Fig.17 and 18)

Install on the wall :

- Butt the mineral core wall panel tightly to the wall; check horizontal level with a gauge and vertical alignment with a laser level gauge, then secure it by gentle tapping with a rubber hammer.



Ensure the panel is perfectly level and plumb before proceeding to the next panel.

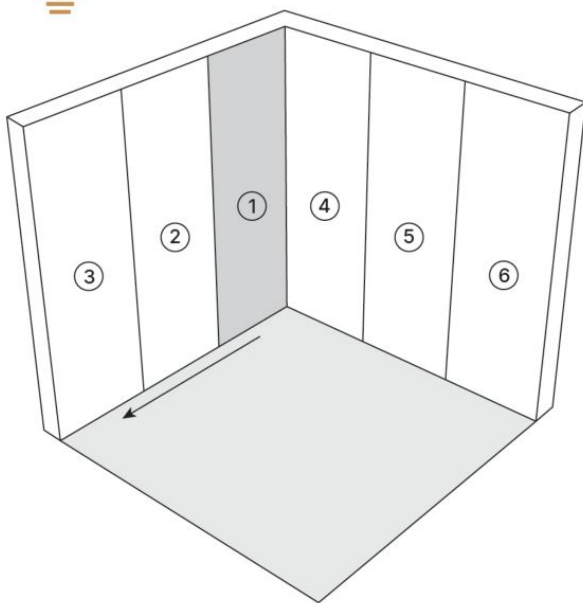


Fig.16

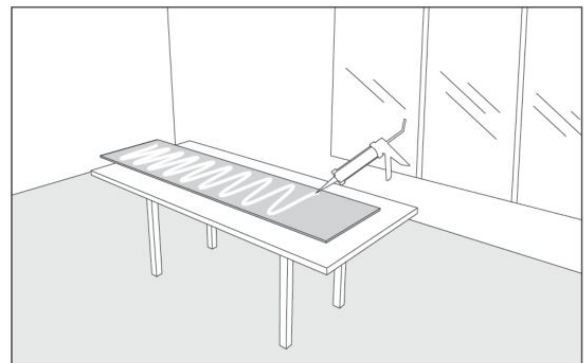


Fig.17

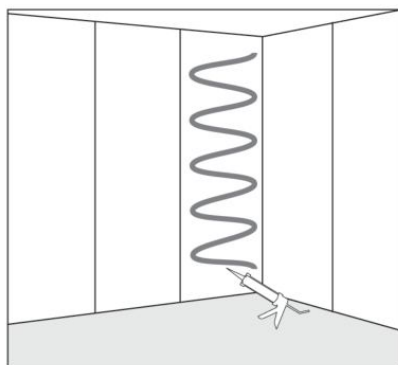


Fig.18

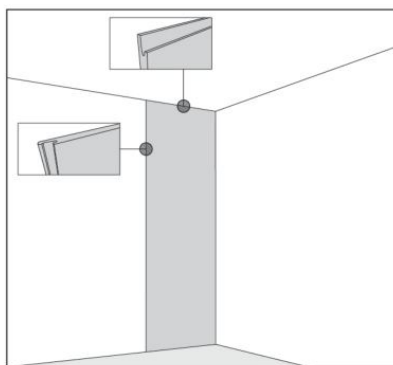


Fig.19

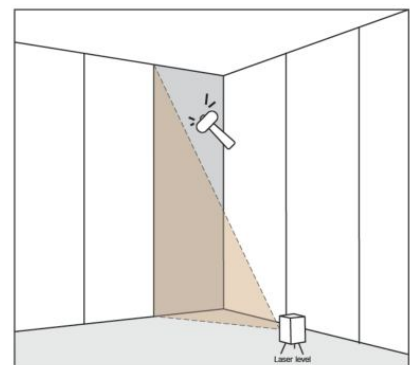


Fig.20

Panel 2 Installation Points

Orientation:

- Place the panel with the short side (600mm) horizontal and the long side (2400mm) vertical. The locking tongues should face toward the right and downward for interlocking with adjacent panels.

Interlocking:

- The bottom locking tongues connect to the top lock groove of internal corner trim; the right side connects to the panel 1.(First install the short side, then install the long side.)

Apply adhesive:

- You can apply adhesive to the back of the mineral core wall panel or apply it directly to the wall surface. (Repeat Fig.17 and 18)

Install on the wall :

- Butt the mineral core wall panel firmly to the wall, align its bottom edge flush with internal corner trim top edge; check horizontal alignment with a level gauge and vertical alignment against both the wall and panel 1 with a laser level gauge, then tap gently with a rubber hammer to secure tightly, leaving no gaps between panel 2 and panel 1.



Before installing the next panel, ensure that the current panel is perfectly horizontal and perpendicular to panel 1 and the wall.

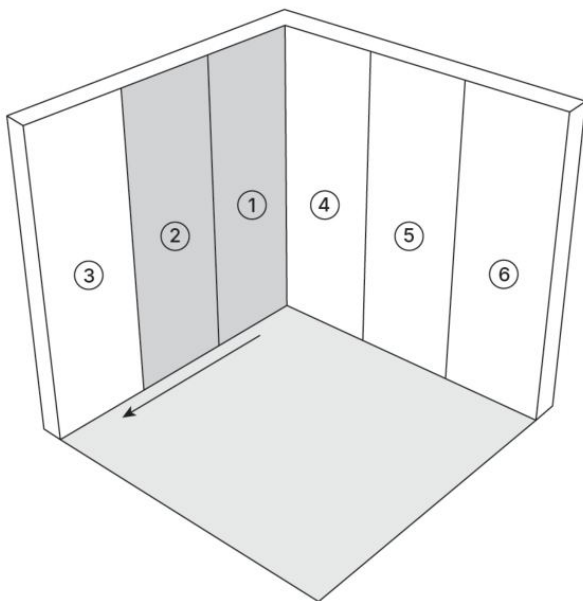


Fig.21

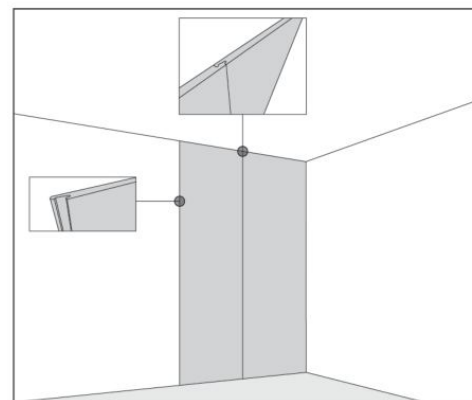


Fig.22

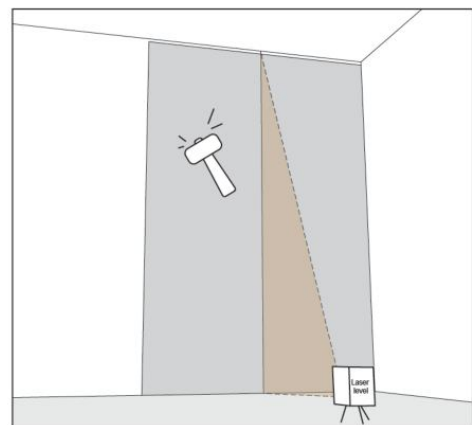


Fig.23

Panel 3 Installation Points

Orientation:

- Place the panel with the short side (600mm) horizontal and the long side (2400mm) vertical. The locking tongues should face toward the right and downward for interlocking with adjacent panels.

Interlocking:

- Connected to the panel 2 on the right and the bottom starter strip via locking tongues clips.(First install the short side, then install the long side.)

Apply adhesive:

- You can apply adhesive to the back of the mineral core wall panel or apply it directly to the wall surface. (Repeat Fig.17 and 18)

Install on the wall :

- Place the mineral core wall panel tightly against the wall and align its bottom edge with the starter strip and its right side is aligned with panel 2. Use a level gauge to check for horizontal alignment, and a laser level gauge to confirm its vertical alignment with both the wall and panel 2. Gently tap the panel with a rubber hammer to secure it firmly, ensuring no gaps exist between panel 3 and panel 2.



Before installing the next panel, ensure that the current panel is perfectly horizontal and perpendicular to panel 2 and the wall.

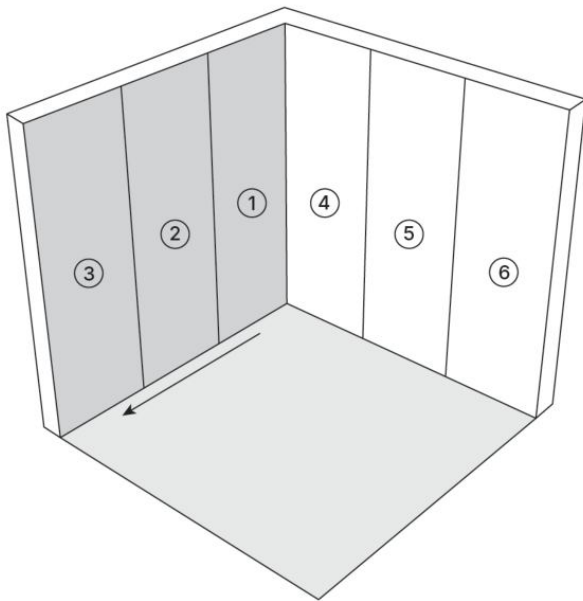


Fig.24

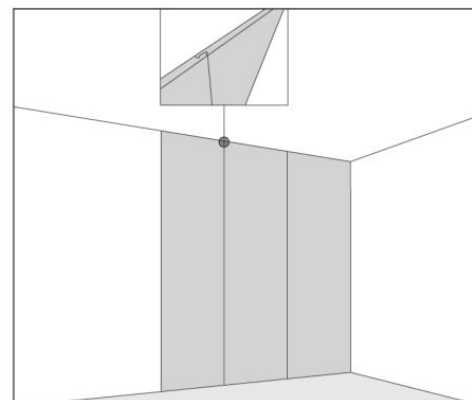


Fig.25

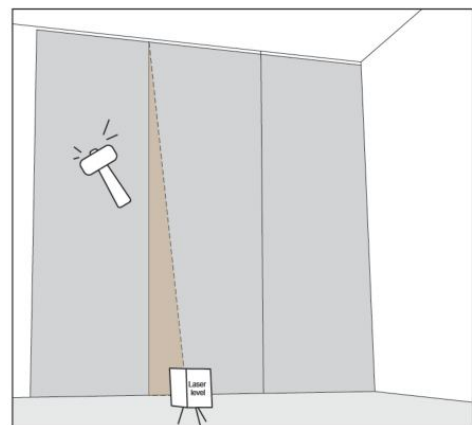


Fig.26

Panel 4 Installation Points

Orientation:

- Place the panel with the short side (600mm) horizontal and the long side (2400mm) vertical. The locking tongues should face toward the left and downward for interlocking with internal corner trim.

Interlocking:

- Connected to the internal corner trim strip on the left and the bottom starter strip via locking tongues clips.(First install the short side, then install the long side.)

Apply adhesive:

- You can apply adhesive to the back of the mineral core wall panel or apply it directly to the wall surface. (Repeat Fig.17 and 18)

Install on the wall :

- Butt the mineral core wall panel firmly to the wall, align its bottom edge flush with internal corner trim edge; check horizontal alignment with a level gauge and vertical alignment against both the wall and panel 4 with a laser level gauge, then tap gently with a rubber hammer to secure tightly, leaving no gaps between panel 4 and internal corner trim.(Fig.19)



Before installing the next panel, ensure that the current panel is perfectly horizontal and perpendicular to panel 7 and the wall.

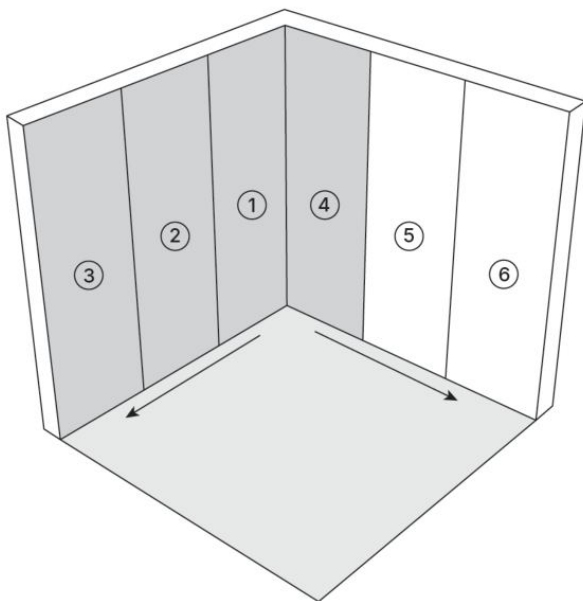


Fig.27

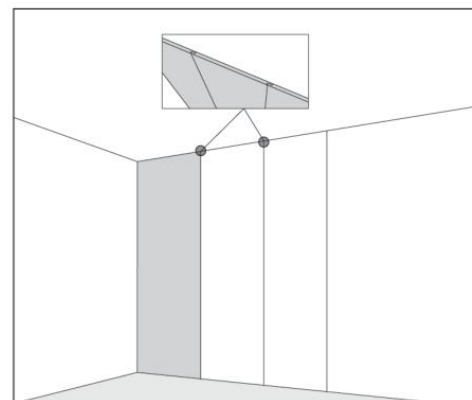


Fig.28

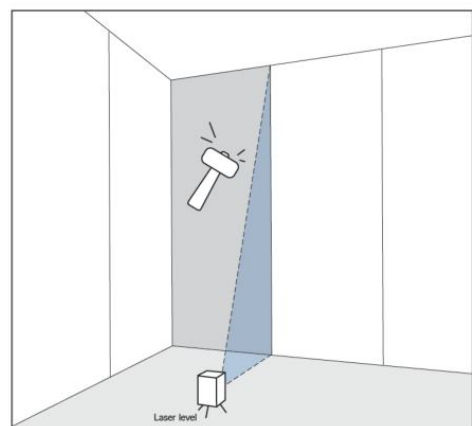


Fig.29

Panel 5 to Panel 6 Installation Points

Orientation:

- The installation method is the same as that of panels 2 to 3, please refer to fig.21 to fig.26. Note that the locking tongues are on the left and bottom of the wall panel.

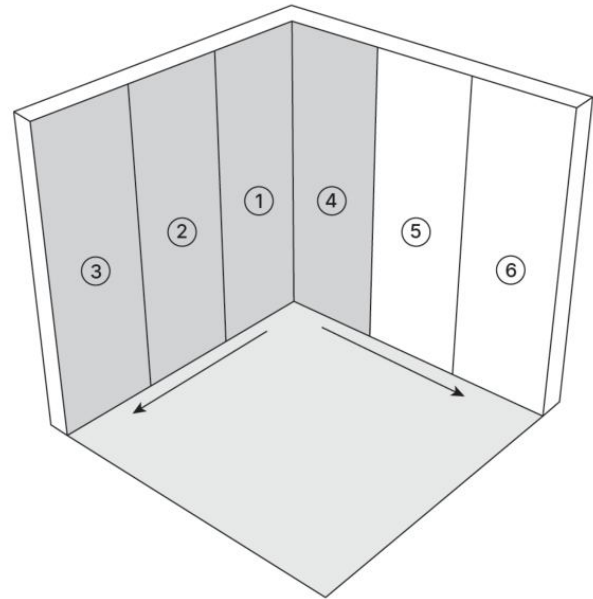


Fig.30

Install the End Cap

- Measuring the wall dimensions as shown in fig.31.
- Please refer to page 8 for instructions on cutting and applying the starter strip to the end cap.

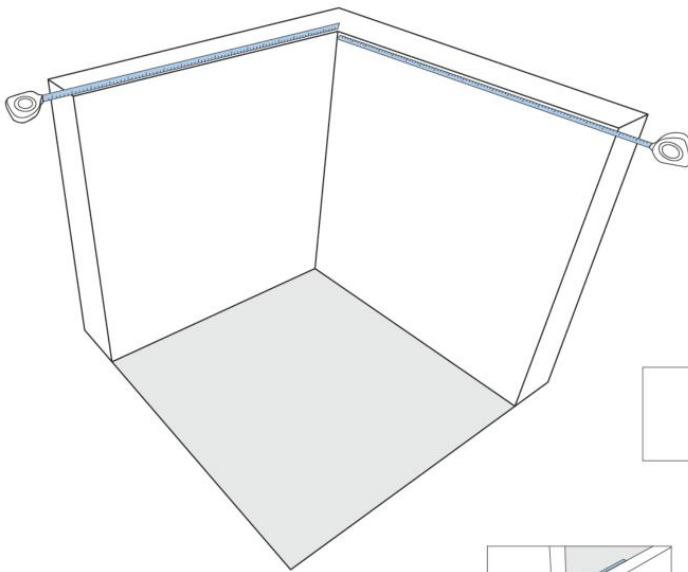


Fig.31

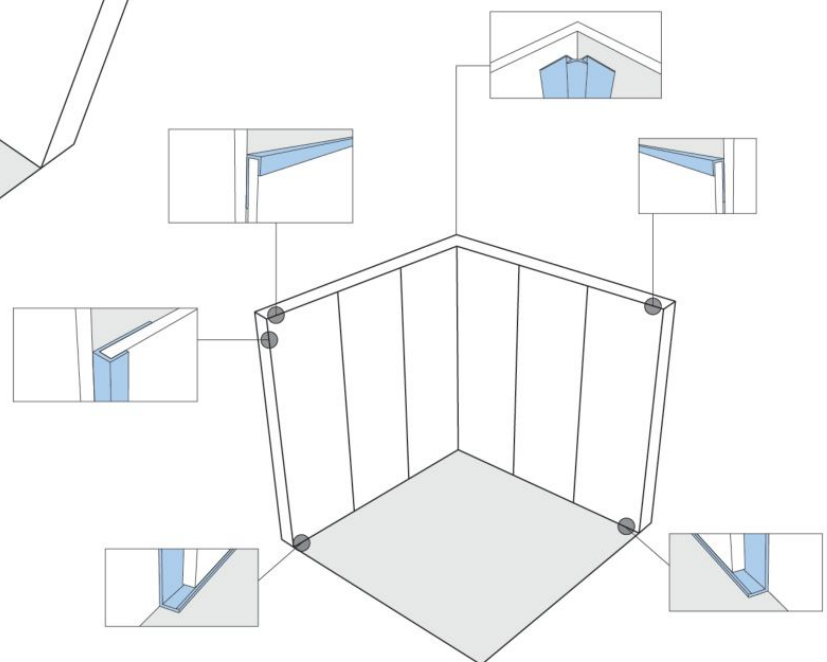


Fig.32

2.5 Installation Of Panel In Wet Areas

- Verify substrate security and humidity compatibility before installation.
- Apply liquid foil waterproof coating to the wall: 2 perpendicular layers for uniform coverage (3 layers for porous substrates). Ensure full curing (confirm drying time with the coating manufacturer) before installing panels.
- Additional waterproofing components:
Sealing tape at wall joints
Sealing collar around openings
Sealing corners at wall-floor intersections

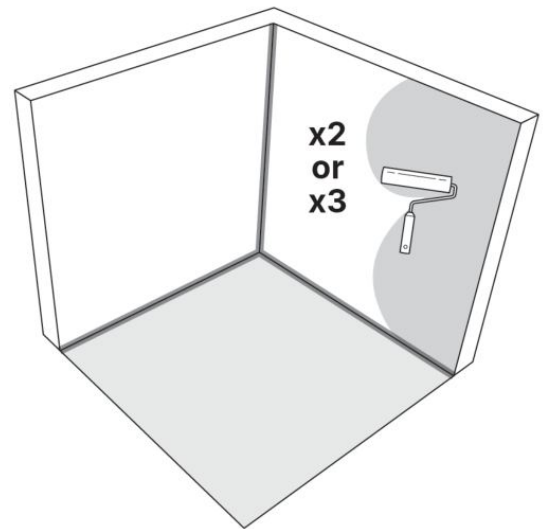


Fig.33

MAINTENANCE PROCEDURE

1. Cleaning

- Agents: Citric/vinegar/tartaric acid solutions
- Tool: Damp/wet cloth
- Rinse timing: ≤10 minutes after application
- Descaler exception: Sulfamic acid products only
- Final rinse: Water <40°C

2. Damage Prevention

- Mandatory pre-test: Validate cleaning agents in an isolated area .
- Prohibited: Abrasive/caustic agents (voids warranty), steel wool or highly abrasive implements (causes scratches).

3. Prohibited Cleaning Agents

- Abrasive compounds (including calcium carbonate powders)
- Chlorine/halogen-based bleaches
- Sodium hydroxide (NaOH) alkaline solutions
- Antifungal chemical treatments
- Wax or polish compounds (risk of irreversible texture modification).
- Always adhere to cleaner manufacturer guidelines.
- Mandatory periodic joint inspection: verify that waterproof sealing remains continuous.

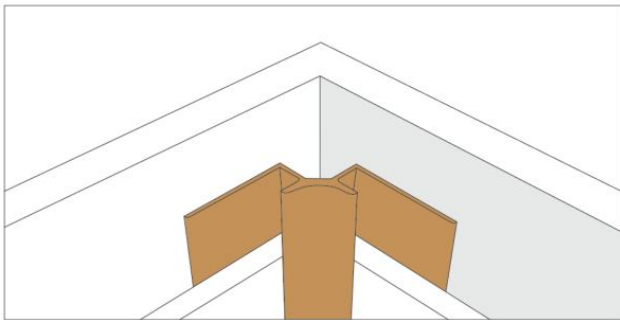


Fig.34

WALL PANEL ACCESSORIES

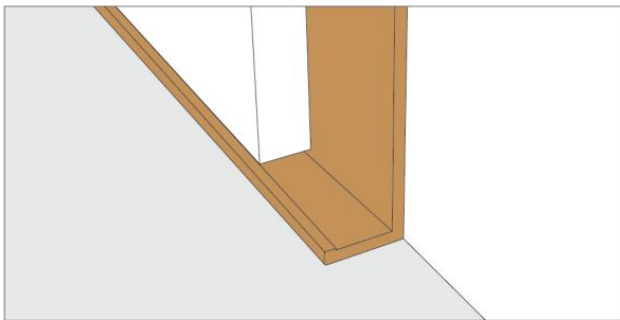
1. Internal Corner Trim

- Used on all internal 90° corners.
- Ensures a smooth transition at internal corners, preventing dust or damage.
- Suitable for internal corner trim decoration on boards below 4mm.



2. Starter Strip

- At the base of the wall.
- It guides and secures the first row of panels, ensuring they start level and straight, and provides the first interlock.
- Suitable for starter strip decoration on boards below 4mm.



3. End Cap

- At top edges of the panel system.
- Protects the panel core aids in moisture management.
- Suitable for end cap decoration on boards below 4mm.

