



WALL CLADDING – Installation Guide

IMPORTANT

As a provider of exclusive wall cladding at the cutting edge of design and craftsmanship, we require that you read and understand this information completely prior to receiving/installing Havwoods wall cladding, since improper installation can void the warranties. By following these instructions and guidelines you will ensure to have and enjoy the presence of our beautiful wall cladding for years to come.

Owner/Installer Responsibility

Carefully inspect ALL material prior to installation for defects. Materials installed with visible defects are not covered under warranty. Remember – Wood is a natural product that can vary in colour, grain, and contains natural characteristics that varies from plank to plank and is to be expected. We do not warrant against these natural variations from plank to plank or variations from sample to plank. Remember: If you are not satisfied with the wall panelling prior to installation, contact Havwoods Limited – DO NOT INSTALL the wall panelling. Accepting or rejecting the material must be done on full shipment of quantities only, not bundle by bundle or plank by plank.

NOTE:

As every wallboard differs in colour, the individual Havwoods wallboard can therefore constitute a visual orientation aid only.

- Prior to installation, the installer and owner must ensure that the work environment and wall meet or even exceed minimal specifications listed in this installation guide.
- Prior to installation, the installer and owner should conduct a final inspection of grade, colour, and manufacture and finish quality of boards to ensure that the panelling conforms to purchase product. Care should be taken at this time to remove particular characteristics you do not desire. Havwoods Limited declines responsibility for any costs incurred when plank(s) with visible defects have been installed.
- One installed, any board is considered as having been accepted by installer and owner, even if owner is absent at time of installation.
- Standard trade practice allows for up to a 5% margin of error for natural imperfections and manufacturing defects. When ordering, add at least 5% to the actual square footage needed, for cutting and grading allowance.

NOTE:

Angle installation causes greater cutting losses, allow for at least 10%. For reclaimed wood floors allow for 10% for extra selection.

Please make sure you use proper tools for any installation.

Havwoods Limited cannot be held responsible for any wall panelling damage resulting from use if inadequate tools or adhesive, differing from those recommended. All the installation material must be at the recommended room temperature prior to the installation 15-24°C (59-75°F).

Jobsite Inspection/Preparation

It is the installer/owners' responsibility to ensure that the jobsite conditions and jobsite walls are environmentally and structurally acceptable prior to the installation of any wall panelling. Havwoods Limited declines any responsibility for failures or deficiencies of wall panelling resulting from or related to wall, subsurface, or job-site environmental conditions. All substrates must be clean, flat, dry and structurally sound.

- To avoid any moisture-related damages, the wall must be dry and basements must be dry and well ventilated.
- Permanent heating, ventilation and air conditioning should be in and operational a minimum of 5 days and maintained between 15-24°C (50-75°F) and a relative humidity of 40-55% prior to delivery, during, and forever after installation of the wall panelling.

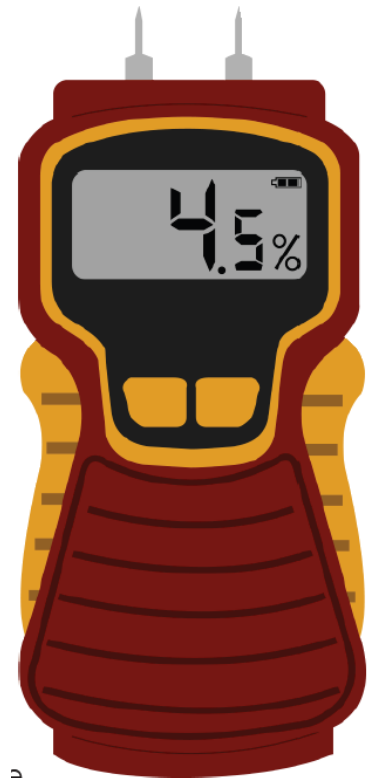
Wall Preparation and Recommendations for all installations

- Walls must be clean and free of dirt, curing compounds, sealers, drywall mud, grease, urethane, or other materials that may affect the integrity of the panelling material or adhesives used to install the panelling.
- Our warranties DO NOT cover any problems caused by inadequate substructures or improper installation of said substructures.

Wall Moisture Check

- The recommended wood flooring adhesive may be used for above, on, and below level applications and on all common substrates. On and below level applications are susceptible to moisture and should be tested for moisture prior to installation in three locations tests per 1,000 square feet of surface area and one additional test for each 1000 square feet thereafter.
- Wood substrates must have a moisture reading of less than 12% when using a suitable moisture metre and differential between boards and wall must be less than 4%. If moisture reading is too high, postpone installation, find moisture source and correct it if needed, raise heat and increase ventilation until proper conditions are met.

If it exceeds these limits, **DO NOT** install the wall board. To correct any wall problems concerning moisture, either wait until the wall dries to meet specifications or use an appropriate moisture barrier.



Job Preparation

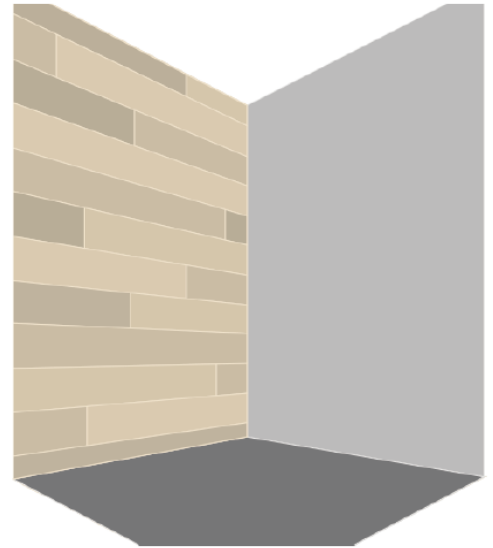
- Plan your project by making an installation sketch.
- Determine the installation starting point. Is it one regular-shaped room, a number of rooms with landings, or room on one floor, including a hall or main room? Think about how to get the most of out your project.
- Choose the wallboard direction, either vertical or horizontal.
- (Recommended) Paint receiving wall black and let it dry prior to installation.

Random Width Walls

It is important that the installer/owner obtains a tally sheet of the actual footage of each size/width that has been received to the jobsite as there is no repeating pattern implied or guaranteed. If the tally hasn't been obtained, then Havwoods Limited should be contacted and a tally will be provided. From the information on the tally sheet, the random pattern should then be planned out prior to installation of the product to avoid running out of any particular size. Do not install the panelling in such a pattern (3, 4, 5, 3, 4, 5, etc. ...) or you will run out of one of the appropriate widths before the installation is complete.

NOTES:

- Install your wall under good lighting conditions. This lets you balance the board length and colour variations in the wood.
- Open several bundles at a time to mix the planks and ensure that wall board characteristics are evenly distributed over the entire wall.



GLUE ON INSTALLATION GUIDELINES, APPLICABLE FOR 15mm-21mm THICKNESS

Before you begin using the following instructions, please refer to the previous pre-installation job prep information.

Step 1- Getting started

- Using a levelling bar, determine how level the floor is at the base of the wall being installed. If not straight and level, use a scribe for the purpose of cutting the bottom row, or first row, if installation boards vertical, to fit snug. Boards are to be installed with the groove side down (for horizontal installation) or groove side towards the edge of the starting adjacent wall (for vertical installation).
- If a scribe tool is required, place a board for the second row and make a chalk line to ensure a level installation. Cut and adjust the width of the bottom row/first boards as needed, to ensure all other rows are level.

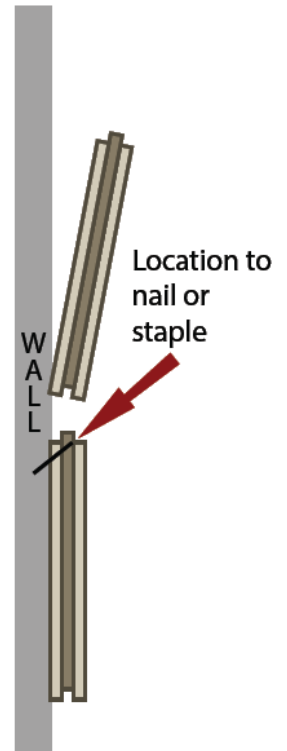
Step 2 – Spreading the adhesive

- Spread adhesive on the back of each wall board, just prior to installation in streaks roughly 6" apart.
- Temperature and air flow across the adhesive can have an effect on the open time of the adhesive. The adhesive will have a longer open time in areas of low humidity and will have a shorter open time in areas of high humidity. (See adhesive label for further information).
- Test for proper bod of glue by occasionally lifting a board and looking for good coverage (90%), and then replace it into the adhesive (prior to nailing, if nailing).
- Clean any adhesive off the surface, as you work, before it cures using a non-abrasive towel.

Step 3 – Nailing (if nailing)

It is best to set the compressor PSI at 35-40kg (77-988lbs) to keep the staples from going through or breaking the tongues. Adjustments may be necessary to provide adequate penetration of the mail or staple into the nail bed. You want it flush in the nail pocket. Use a scrap piece of panelling material to set tools properly before installation.

- Keep in mind there is no complete moisture barrier system for staple or nail down installations.
- Use brads or small finishing nails to secure the first starter row along the wall edge 25-50mm (1"-2") from the ends and every 100-150mm (4"-6") along the side.
- Blind nail at a 45° angle through the tongue (see figure 3). Nail 25-50mm (1"-2") from the ends and every 100-150mm (4"-6") along the sides. It will be necessary to blind nail the next 2 rows.
- The last few rows will need to be fastened by hand. To fasten the final plank into place, you must either manually blind nail and/or face-nail through the surface on the final planks. Drill pilot holes at a 45-degree angle and blind nail using 1" finishing nails. Alternatively, drill pilot holes in the face every 6" (try to drill holes in darker portion of the wood) and install with 1" finishing nails.



Step 4 – Job completion

- Place tongue into groove of planks and press firmly into adhesive. Never slide planks through adhesive. Never install planks further than you can comfortably reach.
- As you continue working across/up the wall try to maintain a 24" minimum space between end joints. Randomly install different lengths to avoid a patterned appearance.
- Cut length of end pieces to fit length of wall.

NOTE:

If installation is for multiple/adjacent walls, mitre the end boards at a 45 degree angle to fit against boards of the adjacent wall.

- As you approach the ceiling /adjacent wall, it will likely be necessary to cut the width of the top/last row, same as the first row. Saw the back portion of the top side at a 20 degree angle to fit snug, with ease. Once the final cuts are made set and glue planks into place.

Final Inspection:

After the wall(s) has/have been cleared, inspect the wall(s) for nicks, scratches, gaps or planks that may have moved during installation, as well as any other imperfections that need attention.

Notes:

- Extremely precise board milling may require use of tapping block for better tongue and groove fit.
- Row to row installation requires that no glue seeps into grooves at any time for perfect tongue and groove fit.

NOTE:

Make sure the planks use for the starter row have full tongues. Proper alignment is critical. Misaligned starter rows can cause side and end gaps to appear in proceeding rows of flooring. When you have the starter rows complete you can begin the next row.