



HardiePlank® Cladding

Quick Installation Guide

HardiePlank® Cladding with ColorPlus® Technology.
For façades that last longer.



JamesHardie

Simple. Reliable. Durable.

Installation instructions

This document is a step by step guide to help installers fix HardiePlank® cladding. For full instructions and warranty information refer to James Hardie® installation instructions which can be found at www.jameshardie.co.uk. For information relating to construction requirements refer to local building codes and standards.

Product specifications

Basic composition: Portland cement, ground sand, cellulose, water and selected additives.

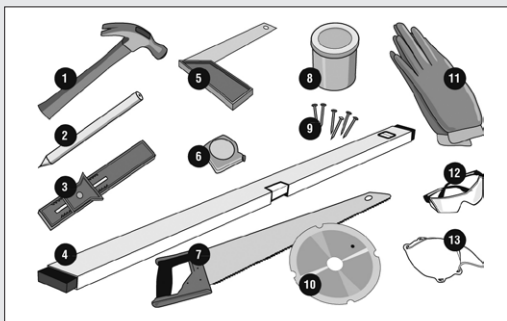
Dimension: 3600 x 180 x 8 mm (exposure 150 mm)

Weight: 7.4 kg per plank

Tools and accessories

For larger jobs a circular saw fitted with James Hardie® saw blade is recommended.

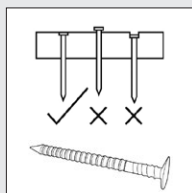
- | | | |
|----------------|-----------------------|-----------------------|
| 1 Hammer | 6 Tape Measure | 11 Protective Gloves |
| 2 Pencil | 7 Saw | 12 Protective Goggles |
| 3 Lap Gauge | 8 Touch-Up Paint | 13 FFP 2/3 Dust Mask |
| 4 Spirit Level | 9 Nails | |
| 5 Set Square | 10 Circular Saw Blade | |



Fixings

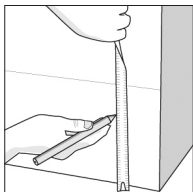
The nails need to be flush installed to the surface of the plank. Do not under or over drive the nails as this will impair performance. These readily available nails can be used for installing HardiePlank® cladding in order of preference:

- **Zinc and yellow passivated ring nails** 50mm x \varnothing 8mm head
- **Galvanised clout nails** 50mm x \varnothing 9mm head
- **Galvanised round wire nails** 50mm x \varnothing 6.5mm head



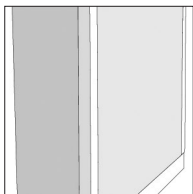
Note: Do not use bright nails as they will rust and thus may cause staining down the planks.

Preparation



Minimum clearance

Determine the lowest level of the cladding ensuring a minimum clearance from finished ground level of 150mm.



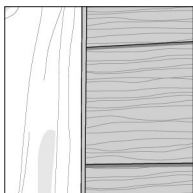
Check substrate

Check that substrate is sound and ready to receive any supporting framing.



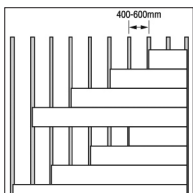
Vapour permeable barrier

Cover substrates that are required to be waterproofed with a vapour permeable barrier. New block work generally does not require a waterproof membrane.



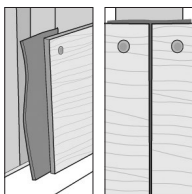
Finishing profiles

Decide what type of corner and window finish you require, HardieTrim® profile is used to finish these details. It can be installed either over plank, in which case the planks are installed first, or butted to the plank in which case the trim is installed before the planks.



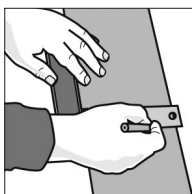
Location of joints

On walls longer than 3.6m you will need to join the planks. Please note all planks must be nailed to a minimum of three battens. James Hardie® also recommends that the joints are randomly staggered across the wall.



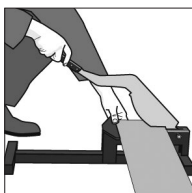
Jointing HardiePlank® cladding

HardiePlank® cladding must be butted together using a 180mm long piece of EPDM gasket behind the joint to protect the batten. It can be stapled separately or trapped with the plank fixing. Be sure to position the gasket so that it does not protrude from the bottom of the plank.



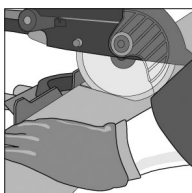
Measuring the correct length

Measure the planks to the correct length and use the set square to ensure the line is straight.



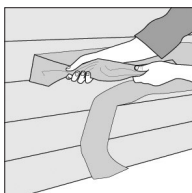
Cutting the planks - HardieGuillotine™

Custom-designed manual tool that cuts HardiePlank® cladding fast and accurately every time, with no breaking, chipping or sawing dust. The cutting movement is stiffly controlled to enable safe, precise cutting of even the smallest slivers of material.



Cutting the planks - Circular saw fitted with James Hardie® saw blade

When cutting larger quantities of HardiePlank® cladding, the HardieBlade® saw blade may be a quicker and simpler solution. Available to special order from your local merchant in the following sizes: 160mm, 190mm 254 and 305mm.



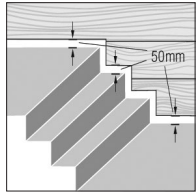
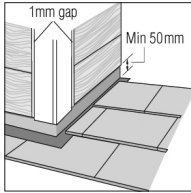
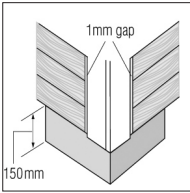
Working with the laminate

The laminate is applied to the plank and trim to protect it from site dirt. Leave the laminate on until the product is placed on the wall. When cutting, simply cut and peel back laminate to allow for cutting. When installing the plank on the wall, leave laminate on to protect until the project is installed. Ensure that laminate is not trapped by overlapping HardiePlank® cladding during installation.

IMPORTANT NOTE - Clearances

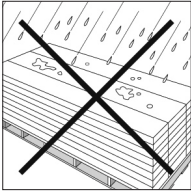
For the best performance from HardiePlank® cladding it is important to observe the following clearances between the bottom edge of the product and existing structures and finishes.

- Finished ground level - min. 150mm
- Dormer cheek to roof slate/tile - min. 50mm
- Tread and riser of steps or access ramp - min. 50mm

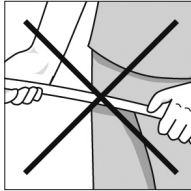


Storage and handling

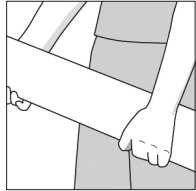
Do not leave HardiePlank® cladding uncovered. Ensure it is dry prior to installation.



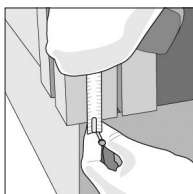
DO NOT leave uncovered



Carry plank on edge to prevent bowing

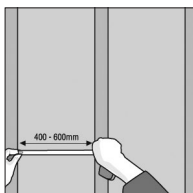


Installation steps



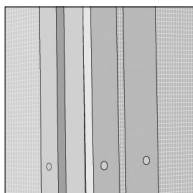
STEP 1 (a) Supporting framework (new)

Install supporting framing over substrate which must be straight flat and plumb. Please keep clearances in mind (see note); additionally the first plank of HardiePlank® cladding should go 10mm past the lower part of the battens. HardiePlank® cladding will not correct an out of square frame. James Hardie® recommends a maximum of 3mm in 4m deviation. Battens should be 600mm centres apart or 400mm centres for windy areas. Ensure ground clearance is maintained as per local building regulations.



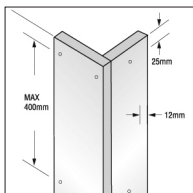
STEP 1 (b) Supporting framework (existing)

When using existing framework check that it is level and plumb. The maximum centres between battens must not exceed 600mm.



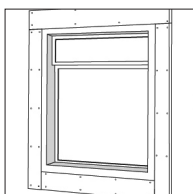
STEP 2 Corners and around windows

If you are using HardieTrim® profiles at the corners of buildings and around window reveals, you will need to install two battens side by side. One to fix the trim to and one to fix the plank to. A strip of EPDM gasket must be stapled to the batten the full height of the planked area at a point where the trim and plank butt up. This is to protect the batten from water damage.



STEP 3 Installation of HardieTrim® profiles

Build trim first on the ground by nailing two pieces together at 90 degrees, place on the corner of the wall and nail at 400mm centres. Nails: 50mm corrosion resistant finish nails.



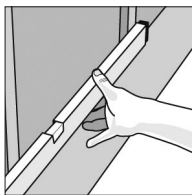
STEP 4 Trimming around windows

Ensure that the trim is installed in the correct order. Do not mitre the trims to form a 'picture frame'.



STEP 5 Installing ventilation grille

It is important that all areas of planking are ventilated at the top and bottom by the insertion of a ventilation grille (a combination Starter Ventilation Profile is available from your local builders merchant). This will allow an unrestricted free flow of air behind the planks (inside the cavity) which is essential for their correct performance, to comply with building regulations and to prevent ingress of pests.



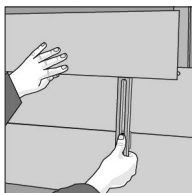
STEP 6 Kicking the first plank out

To kick the first plank out to match the rest of the wall, cut a starter strip from a sheet of HardiePlank® cladding (30mm wide). Nail the starter strip to the base of the frame. Install the first plank over the starter strip. Check the level of the first plank.



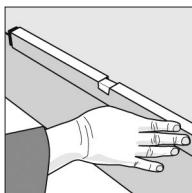
STEP 7 Installing the first plank

Care should be taken when installing the first plank. The first plank should go past the bottom edge of the batten by 10mm to provide a drip edge so water does not track back onto the framing. Leave a 1mm drainage joint between the end of the plank and the side of HardieTrim® profiles. This gap is weathered by the EPDM previously installed in step 2.



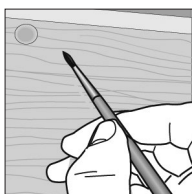
STEP 8 Installing subsequent planks

To correctly space the cladding use either a lap gauge or mark out where the top of each plank falls. Typically 150mm from the top of the lower plank.



STEP 9 Check levels

To ensure that the planks are being installed correctly check the level of every 4th plank to ensure that the correct lap has been achieved and the planks are horizontal.



STEP 10 Top layer of HardiePlank® cladding

To finish the last row of HardiePlank® cladding simply cover the exposed nail heads with touch up paint.



WARNING - AVOID BREATHING SILICA DUST

James Hardie® products contain crystalline silica. This mineral is found everywhere in the world - often in the form of sand - and therefore commonly used in many construction products (for example brick, concrete, glass wool and abrasives). The mineral itself is inert, but certain building practices such as drilling, high speed cutting and abrading can release fine particulate dust which may constitute a health hazard. Excessive or protracted inhalation of fine particle silica dust can lead to a lung disease called silicosis. There is also some evidence that it may increase the risk of lung cancer if inhaled for prolonged periods. Smoking may also exacerbate this risk. Like smoking, the risk from fine particle silica dust is time and concentration dependent.

CONTROL:

To suppress or to reduce excessive inhalation of fine particle silica dust the following steps should be taken to protect operatives who work with products containing silica dust:

- During fabrication operate outdoors or in well ventilated space in a separate area if available or away and down-wind from other operatives;
- Use low speed, low dust cutting tools, HardieGuillotine®, HardieBlade® fitted to a circular saw connected to a dust extraction HEPA filter vacuum cleaner (see James Hardie tools).
- When cutting, drilling or abrading always wear a FFP2/3 dust control or full face mask adjusted and fitted in conformity with regulatory recommendations and affixed with CE marking and/or fully certified to the relevant EN standards if applicable;
- Keep the working environment clean and remove debris as soon as possible; and
- At the end of the operation remove dust from clothes, tools and work areas with a HEPA filter vacuum cleaner or damp with water to suppress the dust before sweeping.

Remember, James Hardie® products are no more dangerous than many other building materials containing crystalline silica sand. We hope through this information to engage in effective education of the construction industry and build upon the requirements of national health and safety regulations. For more information, see our installation instructions and MSDS available on www.jameshardie.co.uk or call James Hardie®.

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