# Installation Guide

## Horizontal Orientation
Stria™ Cladding Smooth
Stria™ Cladding Fine Texture

**EXTERIORS**

**Australia** November 2025

**Make sure your information is up to date.**
When specifying or installing Hardie™ products, ensure that you have the current technical information and guides. If in doubt, or you need more information, visit jameshardie.com.au or contact James Hardie on 13 11 03.

JamesHardie™

CodeMark Australia
Certificate CM40301

CONTENTS



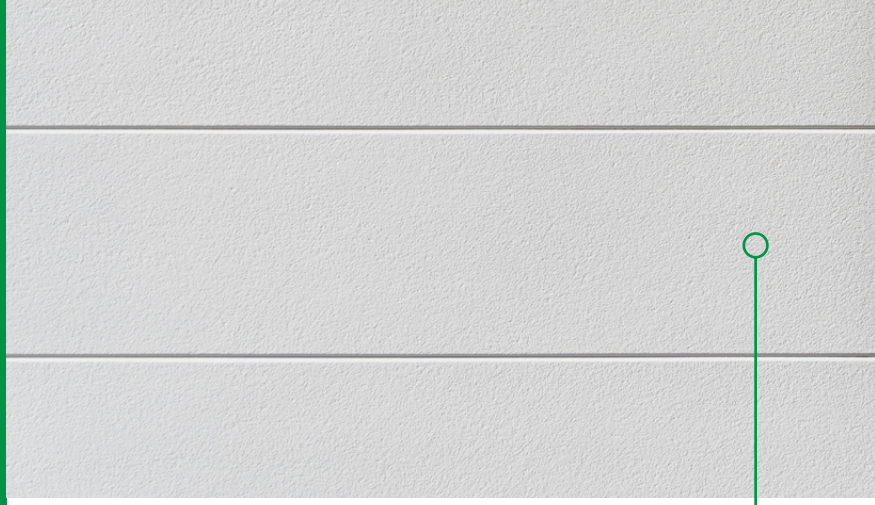
## SCOPE

This guide covers the use of Stria™ Cladding Fine Texture & Smooth in a residential wall application over a seasoned timber wall frame or a light-gauge steel frame installed in a vertical upright application.

## CODEMARK CERTIFICATION

The CodeMark Certification Scheme is a voluntary third-party building product certification scheme that authorises the use of new and innovative products in specified circumstances in order to facilitate compliance with Volume 1 and 2 of the NCC.

Stria™ Cladding Fine Texture & Smooth have been certified under the CodeMark scheme (Stria™ Cladding Smooth Certificate Number CM40223, Stria Cladding Fine Texture Certificate Number CM40301) and available at www.jameshardie.com.au. This certificate can be provided to building certifiers and other regulatory authorities to facilitate the assessment of the product compliance or used to verify the suitability of the product for certain applications.



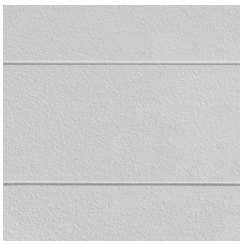
**Stria™ Cladding Fine Texture**

# 1 Introduction

## Create diverse modern designs with Stria™ Cladding.

Elevate your exterior with the Stria™ Cladding range — combining durability and ease of installation in a stackable board. With clean lines and striking visual appeal, Stria™ Cladding has become a tried and tested favourite among homeowners and trade professionals looking for the perfect balance of practicality and architectural elegance.

The boards are pre-sealed, and flush driven brad nails remove the need for patching. Simply apply regular exterior acrylic flat paint on-site (Refer to the Finishing section on page 12 for more information).



**Stria™ Cladding Fine Texture**
Featuring a sharp v-groove combined with an embedded fine render texture, Stria™ Cladding Fine Texture gives a robust feel on the ground floor.



**Stria™ Cladding Smooth**
Featuring deep 15mm wide square-shaped grooves, Stria™ Cladding Smooth delivers strong lines for a clean and sleek aesthetic.

## IMPORTANT NOTES

1. Failure to install, finish or maintain this product in accordance with applicable building codes, regulations, standards and James Hardie's written application instructions may lead to personal injury, affect system performance, violate local building codes, and void James Hardie's product warranty.
2. All warranties, conditions, liabilities (direct, indirect or consequential) and obligations whether arising in contract, tort or otherwise other than those specified in Hardie™ product warranty are excluded to the fullest extent allowed by law. For Hardie™ product warranty information and disclaimers about the information in this guide, visit www.jameshardie.com.au.
3. The builder must ensure the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying aesthetic surface variations following installation.

# 2 Safe Working Practices

## WARNING - DO NOT BREATHE DUST AND CUT ONLY IN WELL VENTILATED AREA

Fibre cement products manufactured by James Hardie contain sand, a source of respirable crystalline silica. **May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product.** Intact fibre cement products are not expected to result in any adverse toxic effects. The hazard associated with fibre cement arises from the respirable crystalline silica present in dust generated by activities such as cutting, rebating, drilling, routing, sawing, crushing, or otherwise abrading fibre cement, and when cleaning up, disposing of or moving dust. When doing any of these activities in a manner that generates dust, follow Hardie™ instructions and best practices to reduce or limit the release of dust, warn others in the area and consider rotating personnel across the cutting task to further limit respirable silica exposure. If using a dust mask or respirator, use an AS/NZS1716 P2 filter and refer to Australian/New Zealand Standard 1715:2009 Selection, Use and Maintenance of Respiratory Protective Equipment for more extensive guidance and more options for selecting respirators for workplaces. For further information, refer to our installation instructions and Safety Data Sheets available at www.jameshardie.com.au. FAILURE TO ADHERE TO OUR WARNINGS, SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.

### James Hardie Recommended Safe Working Practices

**CUTTING OUTDOORS**

1. Position cutting station so wind will blow dust away from the user or others in working area.
2. Warn others in the area to avoid dust.
3. Consider rotating personnel across cutting tasks to further limit respirable silica exposures.
4. Use one of the following methods based on the required cutting rate:
   **Best** ▪ Villaboard™ knife ▪ Hand guillotine ▪ Fibreshear
   **Better** ▪ Position the cutting station in a well-ventilated area. Use a dust reducing circular saw equipped with Hardie™ Blade Saw Blade or comparable fibre cement blade and well maintained M-class vacuum or higher with appropriate filter for capturing fine (respirable) dust. Wear a properly-fitted, approved dust mask or respirator (minimum P2).

**CUTTING INDOORS**

- Cut only using Villaboard™ knife, hand guillotine or fibreshears (manual, electric or pneumatic).
- Position cutting station in a well-ventilated area.

**DRILLING/OTHER MACHINING**

When drilling or machining you should always wear a P2 dust mask and warn others in the immediate area.

**IMPORTANT NOTES**

1. For maximum protection (lowest respirable dust production) James Hardie recommends always using best practice cutting methods where feasible.
2. NEVER use a power saw indoors or in a poorly ventilated area.
3. ALWAYS use a dust reducing circular saw equipped with a sawblade specifically designed to minimise dust creation when cutting fibrecement - preferably a sawblade that carries the Hardie™ Blade logo or one with at least equivalent performance - connected to a M class or higher vacuum.
4. NEVER dry sweep - Use wet suppression, or an M class vacuum or higher with appropriate filter.
5. NEVER use grinders.
6. ALWAYS follow tool manufacturers' safety recommendations.
7. ALWAYS wear a properly fitted, approved dusk mask, P2 or higher

**DUST MASKS AND RESPIRATORS**

As a minimum, an AS/NZS1716 P2 respirator must be used when doing any activity that may create dust. For more extensive guidance and options for selecting respirators for workplaces please refer to Australian/New Zealand Standard 1715:2009 "Selection, Use and Maintenance of Respiratory Protective Equipment". P2 respirators should be used in conjunction with the above cutting practices to minimise dust exposure. For further information, refer to Safety Data Sheet (SDS) available at www.jameshardie.com.au. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

# 3 Design Considerations

## STORAGE AND HANDLING

To avoid damage, all Hardie™ products and accessories should be stored with edges and corners of the product protected from chipping. Hardie™ products and accessories must be installed in a dry state and protected from weather during transport and storage. The product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc.

All design and construction must comply with the appropriate requirements of the current National Construction Code (NCC) and other applicable regulations and standards.

### Slab and Footings

The slab and footings on which the building is situated must comply with AS 2870 'Residential slabs and footings – Construction' and the requirements of the NCC.

### Ground Clearances

Install Hardie™ external cladding with a minimum 150mm clearance to the earth on the exterior of the building or in accordance with local building codes if greater than 150mm is required. Maintain a minimum 50mm clearance between Hardie™ external cladding and roofs, decks, paths, steps and driveways.

Adjacent finished grade must slope away from the building in accordance with local building codes, typically a minimum slope of 50mm over the first metre.

Do not install external cladding such that it may remain in contact with standing water.

### NOTE

Greater clearance may be required in order to comply with termite protection provisions, see below for more information.

### Termite Protection

The NCC specifies the requirements for termite barriers. Where the exposed slab edge is used as part of the termite barrier system, a minimum of 75mm of the exposed slab edge must be visible to permit ready detection of termite entry.

### Fire Rated Walls

Stria™ Cladding can be used as part of a fire rated wall when constructed with additional fire rated linings as specified in Hardie™ Fire and Acoustically Rated Design Manual and Construction of Fire and Acoustically Rated Walls Technical Specification or the Hardie™ Smart Boundary Wall System Design Guide. The length of fasteners must be increased for the additional linings.

### Moisture Management

It is the responsibility of designer or specifier to identify moisture related risks associated with any particular building design. Wall construction design must effectively manage moisture, accounting for both the interior and exterior environments of the building, particularly in buildings that have a higher risk of wind driven rain penetration or that are artificially heated or cooled.

In addition, all wall openings, penetrations, junctions, connections, window sills, heads and jambs must incorporate appropriate flashing and waterproofing. Materials, components and their installation that are used to manage moisture in framed wall construction must, at a minimum, comply with the requirements of relevant standards and the NCC.

### Weather Barrier

A suitable water control membrane must be installed under Hardie™ cladding products/ Hardie™ Wrap Weather Barrier in accordance with the AS/NZS 4200.2 'Pliable building membranes and underlays – Installation' and NCC requirements.

James Hardie has tested and certified the use of Hardie™ cladding products/ Hardie™ Wrap Weather Barrier for Climate Zones 2-8 within Australia. Hardie™ cladding products/ Hardie™ Wrap Weather Barrier is a Class 4 vapour permeable membrane that delivers a tripleshield of protection to help against external weather penetration, internal condensation management and external heat penetration through its safeglare reflective layer.

If using an alternate product in lieu of Hardie™ cladding products/ Hardie™ Wrap Weather Barrier or the project is located in a hot, humid area (Climate Zone 1), the designer must ensure that the product is fit for purpose and it has the following classification in accordance with AS/NZS 4200.1:2017 'Pliable building membranes':

**TABLE 1**

| Weather Barrier Classification | | |
|---|---|---|
| Climate Zone | Water Control Classification | Vapour Control Category |
| 2-8 | Water Barrier | Vapour Permeable (Class 3 or 4) |
| 1 | | Vapour Barrier (Class 1 or 2) |

Soft compressible insulation installed between the front of the wall studs and directly behind the external cladding can cause installation issues and is thus not recommended.

### Flashing

All wall openings, penetrations, intersections, connections, window sills, heads and jambs must be flashed prior to cladding installation.

## FRAMING

### General

Stria™ Cladding Fine Texture & Smooth can be installed over a timber or steel frame and either direct fixed to frame or to Hardie™ Cavity Battens or timber battens. The general framing requirements for installation are given in Table 2.

Maximum stud, Hardie™ Cavity Batten and fastener spacing for Stria™ Cladding for wind load classifications of AS 4055 'Wind Loads for Housing' are given in Table 3, 4 and 5.

Ensure framing joints are tight and all framing is fully loaded before Stria™ Cladding is installed.

## FASTENERS

### General

All nails must be driven flush. **Before fixing to steel frame, ensure the aesthetic finish of Stria™ Cladding when using Hardie™ Drive screws is of acceptable quality prior to installation, see Important Note 3 on page 2 of this guide**. For more information and advice, Ask James Hardie™ on 13 11 03.

### Fastener Durability (Including Coastal Areas)

Fasteners must have the appropriate level of durability and be fully compatible with all other materials required for the intended project. In areas within 1km of a coastal area, areas subject to salt spray and other corrosive environments, class 4 fasteners must be used.

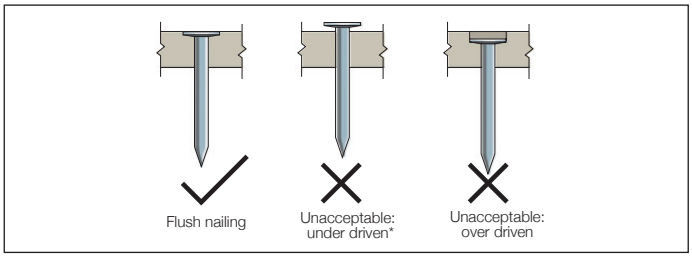



**FIGURE 1** NAIL FASTENER DEPTH

* Only when face fixing, fasteners can be under driven and tapped maximum 1mm below the surface of the board (Do not overdrive using gun nails). For Stria™ Cladding Fine Texture, all fastener penetrations must be patched and sanded following the fine texture of the boards. Refer to the Finishing and Maintenance section on Page 16.

**TABLE 2**

| General Framing Requirements | | | | |
|---|---|---|---|---|
| **Type** | **Timber** | | **Steel** | |
| **Design** | Use of timber framing must be in accordance with AS 1684 and the framing manufacturer's specifications | | Use of steel framing must be in accordance with NASH standard for Residential and Low-Rise Steel Framing Part 1: Design Criteria and the framing manufacturer's specifications. | |
| **Durability** | 'Timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life. Reference AS 1684.2 'Residential timber-framed construction'. | | The steel framing must have the appropriate level of durability required to prevent corrosion, particularly in coastal areas. | |
| **Tolerances** | Ensure frame is square and work from a central datum line. A suggested maximum tolerance of between 3mm and 4mm in any 3000mm length of frame will give best results. | | | |
| **Thermal Break Requirement** | Not required. | | For steel frames, the NCC Sections J3D6 and 13.2.5 Volumes 1 and 2 respectively, state for both residential and commercial buildings a thermal break such as Hardie™ Break with an R 0.2m2 K/W must be installed behind external cladding where the cladding and internal lining make direct contact with the same steel frame. Alternatively, vented cavity installation using minimum 70x35mm timber battens or off-stud Hardie™ Cavity Battens can be used in these applications. | |
| **BMT** | N/A. | | Framing members must have a base metal thickness (BMT) between 0.55 to 1.6mm. | |
| **Orientation** | **Horizontal** | | | |
| **Type** | Direct Fix | Cavity Fix | Direct Fix | Cavity Fix |
| **Min. Stud Width** | When using the Stria™ Vertical Stop:<br>-Double 45mm stud, or<br>-Triple 35mm studs<br>35mm studs elsewhere. | 35mm | 32mm | 32mm |
| **Min. Stud Depth** | 70mm | 70mm | 64mm | 64mm |
| **Max. Nogging Spacing** | 1350mm | Refer to Table 5 | 1350mm | Refer to Table 5 |
| **Battens** | N/A | Hardie™ Cavity Battens or min MGP10 70x35mm timber battens | N/A | Hardie™ Cavity Battens or min MGP10 70x35mm timber battens |

TABLE 3

| Horizontal Stria™ Cladding 325 Smooth and Stria™ Cladding Fine Texture Fixing Options. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Non-Cyclonic Wind | Cyclonic Wind | Fasteners Details | | | | Fixing Figure | Max. Stud Spacing (mm) | |
| | | Direct Fix | Cavity Fix (70x35mm timber battens) | Cavity Fix ( Hardie™ Cavity Battens) | Configuration | | General areas of walls | Within 1200mm of building edges |
| **Concealed Fixing Option** | | | | | | | | |
| N1, N2 | - | 40 x 2.8mm Fibre Cement Nail or 50 x 2.5mm Coil Ring Shank Nail* or Paslode 45 x 2.5 Coil Ring Shank | | 25 x 2.8mm Clout Nail | 1 per board in underlap | 1 | 600 | 600<br>450 (For steel frame) |
| N3 | C1 | 50 x 2.5mm Coil Ring Shank Nail* or Paslode 45 x 2.5 Coil Ring Shank | | Paslode 27 x 2.5 Coil Ring Shank | 1 per board in underlap | 1 | 600 | 450 |
| N3 | C1 | 40 x 2.8mm Fibre Cement Nail | | - | 1 per board in underlap | 1 | 600 | 600<br>450 (For steel frame) |
| **Face Fixing Options** | | | | | | | | |
| N1, N2, N3 | C1 | 50mm ND or DA Brad Nail | | 32mm DA Brad Nail | 2 per board-through face | 2 | 600 | 600 |
| N1, N2, N3 | C1 | 50mm Gun Nail (Ring-Shank) | | - | 1 per board-through face | 2 | 600 | 600 |
| N4 | C2 | 50mm Gun Nail (Ring-Shank) | - | - | 1 per board-through face | 2 | 600 | 450 |
| N5, N6 | C3, C4 | | | - | 2 per board-through face | 2 | 450 | 300 |

* 50 x 2.5mm Coil Ring Shank Nails are only suitable for cavity fix when the 70x35mm timber battens are installed on-stud.

TABLE 4

| Horizontal Stria™ Cladding 405 Smooth Fixing Options. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Non-Cyclonic Wind | Cyclonic Wind | Fasteners Details | | | | Fixing Figure | Max. Stud Spacing (mm) | |
| | | Direct Fix | Cavity Fix (70x35mm timber battens) | Cavity Fix ( Hardie™ Cavity Battens) | Configuration | | General Areas of Walls | Within 1200mm of building edges |
| **Face Fixing Options** | | | | | | | | |
| N1, N2, N3 | C1 | 50mm ND or DA Brad Nail | | 32mm DA Brad Nail | 2 per board-through face | 2 | 600 | 600 |
| N1, N2, N3 | C1 | 40 x 2.8mm Fibre Cement Nail + (50mm ND or DA Brad Nail or 50 x 2.8mm Ring Shank Gun Nail) | | - | 2 per board -1 in underlap, (Hand nailed) and 1 through face (Gun nail) | 3 | 600 | 600 |
| N4 | C2 | 40 x 2.8mm Fibre Cement Nail + 50 x 2.8mm Ring Shank Gun Nail | - | - | 2 per board -1 in underlap, (Hand nailed) and 1 through face (Gun nail) | 3 | 600 | 450 |
| N5, N6 | C3, C4 | 50 x 2.8mm 2.8mm Ring Shank Gun Nail | - | - | 3 per board-through face | 2 | 450 | 300 |

NOTES: FIXING TOP AND BOTTOM ROWS OF BOARDS

1. For N1, N2, N3 & C1 Bottom and top boards must be fixed with brad nails at 150mm centres or 300mm centres for other fixings.
2. For N4, N5, N6, C3 & C4 top and bottom board must be fixed at 150mm centres.
3. For Concealed Fixing to Cavity Battens in N1, N2, N3 & C1, Bottom and Top boards must be additionally face fixed with either 50mm ND or DA brad nails to timber battens, or 32mm DA brad nails to Hardie™ Cavity Battens.
4. Fixing at every stud. Unless otherwise stated all values are for timber & steel.
5. For both concealed and face fixing, use minimum class 3 fasteners.
   For steel framing thickness of 0.5mm – 1.6mm BMT use 41mm Hardie™ Drive screws. Hardie™ Break Thermal Strip must be installed behind the Stria™ Cladding. Refer to the Hardie™ Break Thermal Strip Installation Guide for more information.

TABLE 5

| Maximum span and fastener specifications for Hardie™ Cavity Trim or Timber Batten for horizontal cladding installation. | | | | | |
|---|---|---|---|---|---|
| Batten Type | Dimensions (mm) | Timber Frame | | Steel Frame | |
| | | Max. Span (mm) | Fasteners | Max. Span (mm) | Fasteners |
| **Hardie™ Cavity Battens** | 70 x 19 | 800* (900**) | 2.87 x 65mm Long Galvanised Ring Shank Nail. | 900** | Hardie™ Drive Screws - Class 3 Self-Tapping Wing-Tipped Screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. 1000 per box. Product Codes: 305984 (loose) 305982 (collated). |
| **Timber Battens** | 70 x 35 | 1350*** | 2.87 x 65mm Long Galvanised Ring Shank Nail. | 1350^ | Two 14 x 75mm Metal Bugle Batten Screws per fixing point. |

NOTES:

* Denotes x1 fastener per intersection of batten with nogging and top/bottom plates;

** and *** denote two and three of the same fasteners.

^ Limited to BMT 0.75, the fixings shall be x2 2No 14 x 75mm Metal Bugle Batten Screw per fixing point.

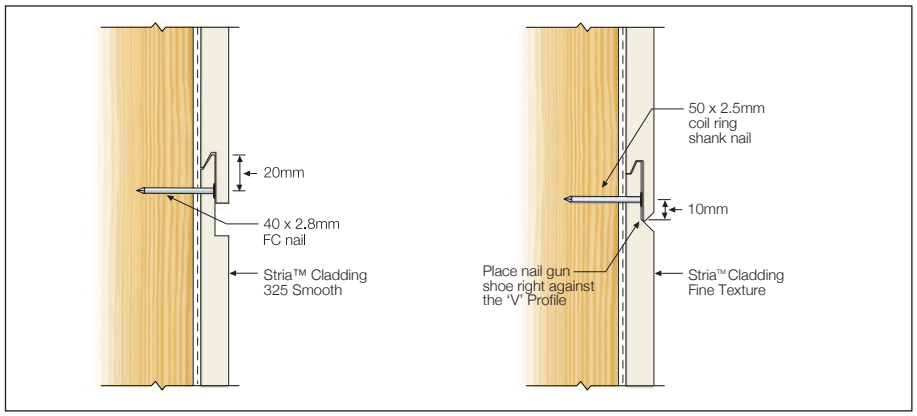



FIGURE 1 CONCEALED FIXING FOR STRIA™ CLADDING 325 SMOOTH AND STRIA™ CLADDING FINE TEXTURE PROFILES

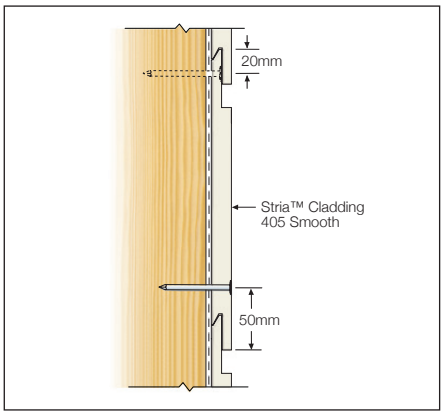



FIGURE 3 FACE/CONCEALED FIXING FOR STRIA™ CLADDING 405 SMOOTH

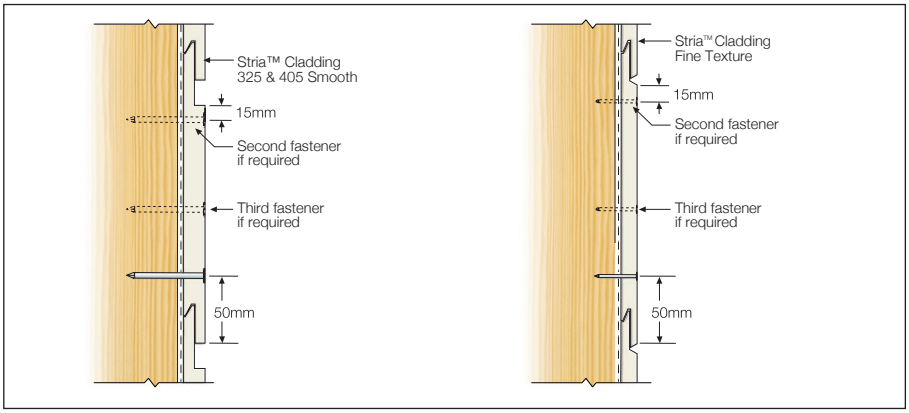
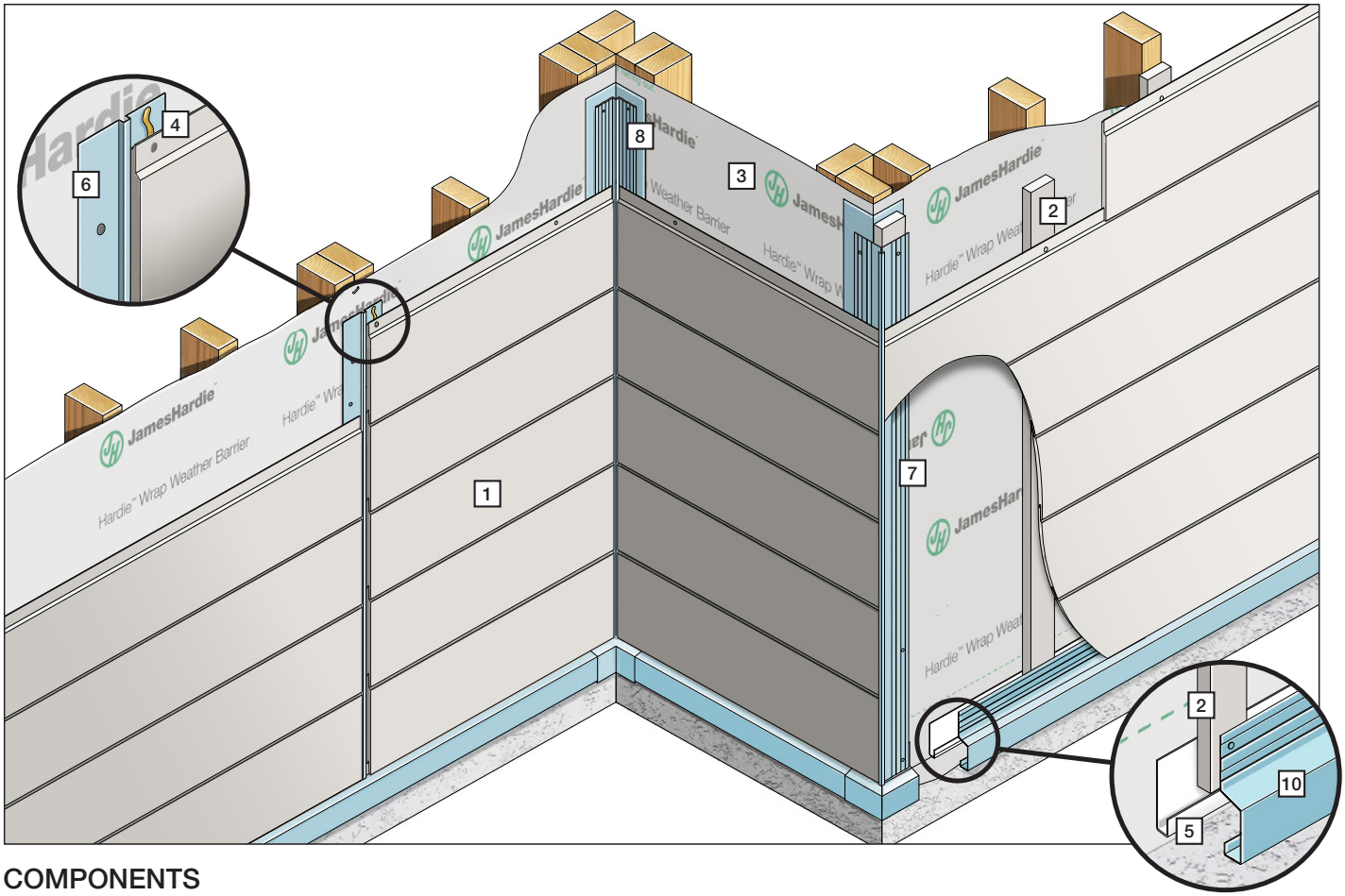
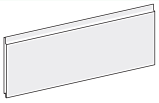
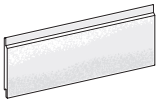



FIGURE 2 FACE FIXING GUN & BRAD NAILS FOR STRIA™ CLADDING SMOOTH AND STRIA™ CLADDING FINE TEXTURE PROFILES

# 4 Products and Accessory Details

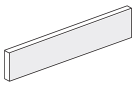



## COMPONENTS

| 1 Stria™ Cladding Smooth | | Product Code | Length (mm) | Width (mm) | Weight (kg/m²)* | Pack Size |
|---|---|---|---|---|---|---|
|  Pre-sealed 14mm thick shiplap boards with deep and wide grooves to create strong, clean lines. | Stria™ Cladding 325 Smooth | 404063 | 4200 | 325 | 19.1 | 60 |
| | | 405504 | 3000 | 325 | 19.1 | 60 |
| | Stria™ Cladding 405 Smooth | 404413 | 4200 | 405 | 19.4 | 40 |
| | | 405505 | 3000 | 405 | 19.4 | 40 |
| **Stria™ Cladding Fine Texture** | | **Product Code** | **Length (mm)** | **Width (mm)** | **Weight (kg/m²)*** | **Pack Size** |
|  Pre-sealed 14mm stackable board with embedded texture and a sharp v-groove for a consistent tactile render-like finish. | | 405570 | 4200 | 325 | 19.1 | 60 |
| | | 405571 | 3000 | 325 | 19.1 | 60 |

* Includes the product weight only, taking into account effective coverage. This excludes fasteners, sealants and other accessories.

### 2 Hardie™ Cavity Batten

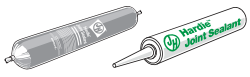


Fibre cement trim used to fix external cladding to steel or timber frame. Size: 70 x 19 x 3000mm. Pack Size: 96
Product Code: 405307

### 3 Hardie™ Wrap Weather Barrier

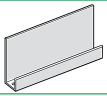
Water barrier and vapour permeable membrane.
Unit size: 2.75 x 30m.
Pack Size: 1 Each.
Product Code: 305664
Coverage: 85.5m² per roll

### 4 Hardie™ Joint Sealant



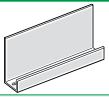

General purpose polyurethane exterior grade joint sealant.
Pack Size: 20/Box.
Product Code: 305534 300ml Cartridge
Product Code: 305672 600ml Sausage
Coverage: 2.67m/100ml (5mm dia bead)

### 5 Hardie™ 18mm PVC Cavity Vent Strip



A perforated PVC extrusion used at the bottom of walls behind cladding.
Pack Size: 25.
Product Code: 305555

### 5 Hardie™ 35mm PVC Cavity Vent Strip



A 3000mm long perforated PVC extrusion installed at the base of the cladding wall system to provide drainage, ventilation and vermin proofing.
Pack Size: 25.
Product Code: 306253

## Vertical Flashing

### 6 Stria™ Stop

For use with Stria™ Cladding behind boards at vertical joints
Product Code: 305547
T flashing 3000mm (5/pack)
Coverage: Length of horizontal joints / 3000mm

## External Corner

### 7 Hardie™ 14mm Aluminium External Box Corner

A ready to paint aluminium extrusion. 3000mm long. Pack Size: 5
Product Code: 305519
Coverage: Height of wall x no. of external corners / 3000mm

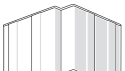
### 6 Hardie™ 14mm Aluminium External Slimline Corner

NEW

A sleek external corner with a sharp, minimal edge. It holds the panels tight with just 3.5mm of coverage.
Product Code: 306281
Coverage: Length of horizontal joints / 3000mm

## Internal Corner Options

### 8 Hardie™ 14mm Aluminium Internal Corner

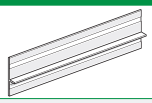


A ready to paint aluminium extrusion. 3000mm long. Pack Size: 5.
Product Code: 305518
Coverage: Height of wall x no. of external corners / 3000mm

### 8 Hardie™ 75mm Corner Flashing

Manufactured using COLORBOND® steel, used behind cladding at internal and external corners. 75 x 75mm.
Pack Size: 5. Product Code: 305564
Coverage: Height of clad walls x no. of corners / 3000mm

### 9 Hardie™ Trimline Flashing

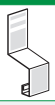


To be used at horizontal joints (vertical cladding) or vertical butt joints (Horizontal cladding). (5/pack)
Product Code: 306128. 3000mm
Coverage: Length of horizontal joints / 3000mm

### 10 Hardie™ Edge Base Trim

Powder coated aluminium extrusion used at slab edges.
Pack Size: 25 units.
Product Code: 305911

### 10 Hardie™ Edge Base Trim Jointer



Powder coated aluminium extrusion used with Hardie™ Edge Base Trim.
Pack Size: 12 units.
Product Code: 305912

### 10 Hardie™ Edge Internal Corner

Powder coated aluminium extrusion used with Hardie™ Edge Base Trim at internal corner junctions.
Pack Size: 4 units.
Product Code: 305913

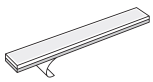
### 10 Hardie™ Edge External Corner

Powder coated aluminium extrusion used with Hardie™ Edge Base Trim at external corner junctions.
Pack Size: 4 units.
Product Code: 305914

### 11 Hardie™ Foam Back Sealing Tape

Installed under sheet vertical joints to improve water tightness. 50mm wide 25mtr long roll.
Pack Size: Each
Product Code: 304560

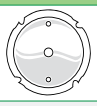
### 12 Hardie™ Break Thermal Strip



A hard, dual layer density self-adhesive strip, for quick installation. The thermal strip is installed directly over a vapour permeable membrane and framing members. Pack Size: 45 units
Product Code: 305612

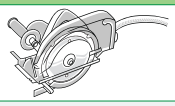
## Tools

### Hardie™ Blade Saw Blade 185mm Diameter



Poly-diamond blade for Hardie™ fibre cement. Product Code: 300660
Pack Size: 1 each.

### Dust-Reducing Saw with M class or higher vacuum Extraction



Dust reducing saw with a Hardie™ Blade saw blade. E.g. Makita 5057KB / Hitachi C7YA.

### Drop Saw*

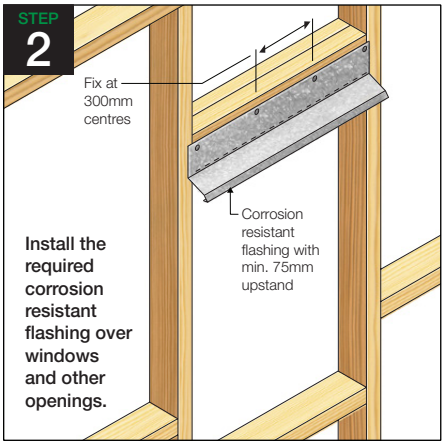
Drop saw with an aluminium blade. *Not to be used for cutting Stria™ Cladding.

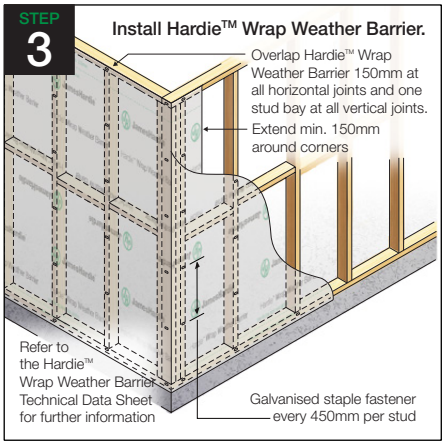
### Gun Nails and Nailers

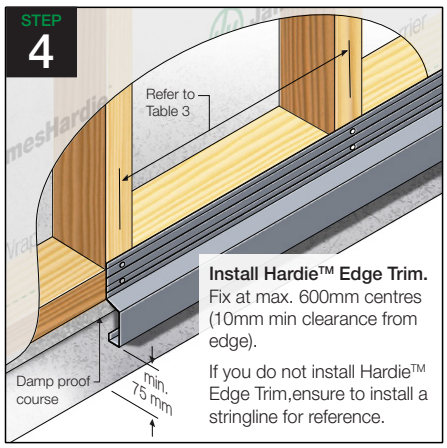
Refer to fastener section

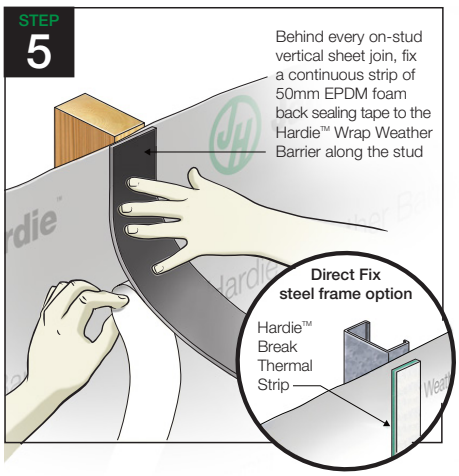
Suitable gun nails and nailers for face fixing to timber framing only. Minimum nail length of 50mm is required. Minimum class 3.

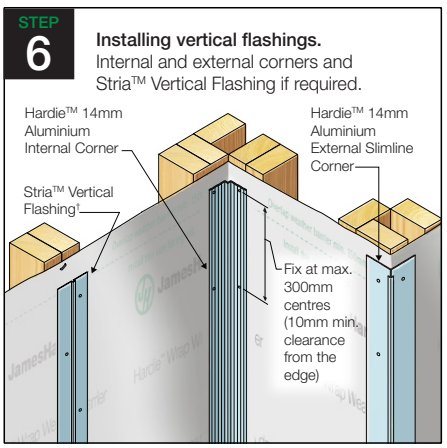
# 5 Cladding Installation Steps* - Direct Fix

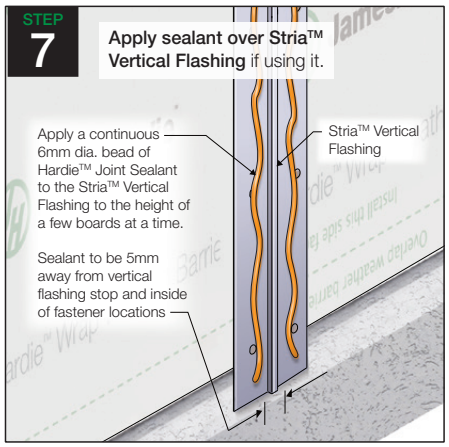



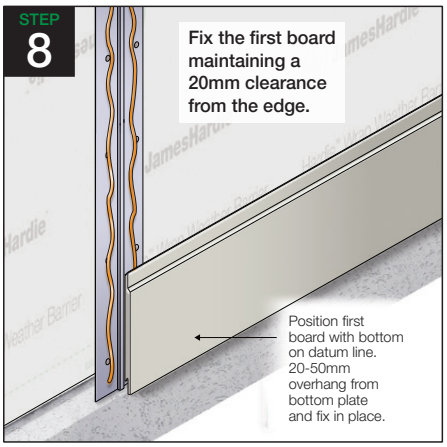



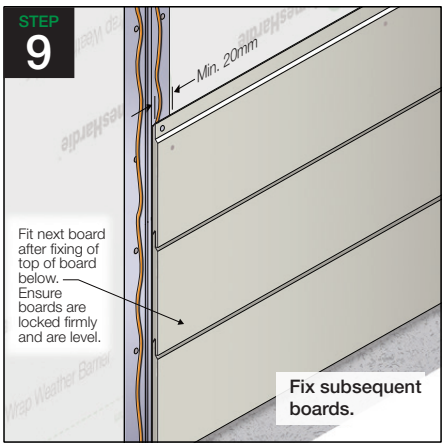



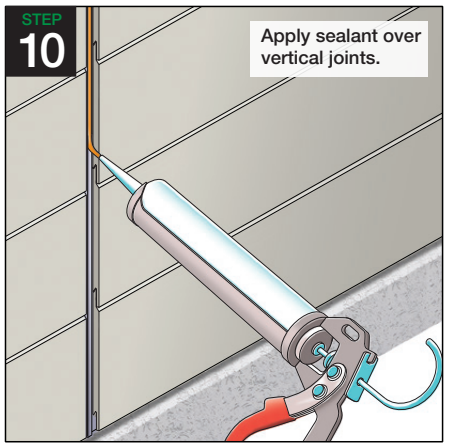




† Needed where a vertical express joint is required.



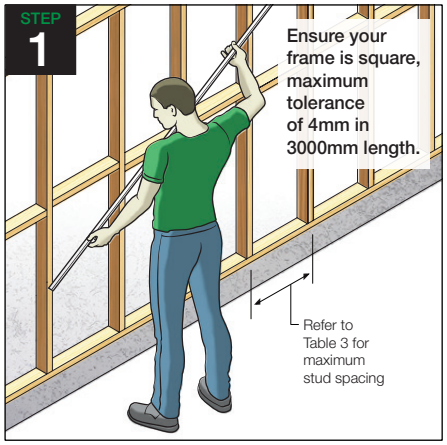



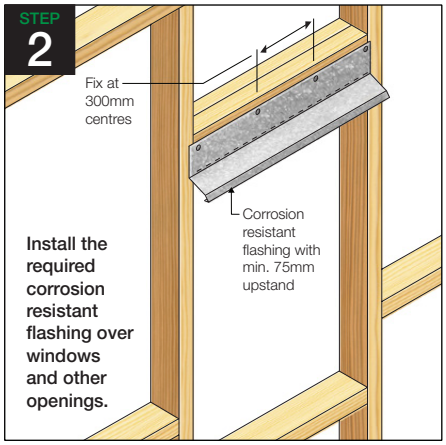



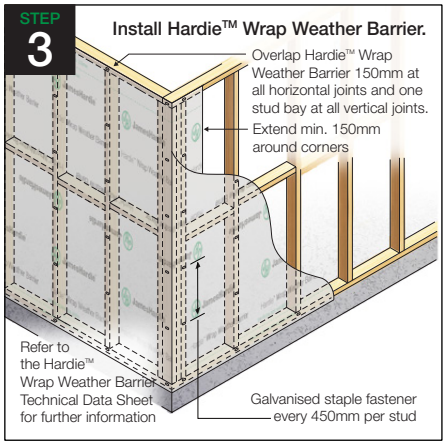


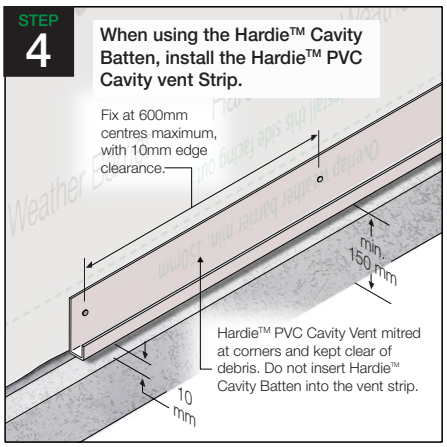

*This is an overview of the installation process only. It is not a substitute for reviewing this document in its entirety prior to installation.

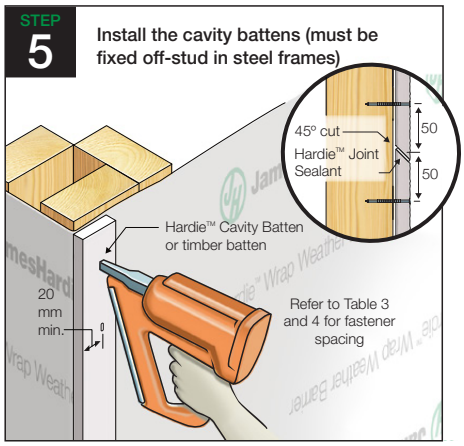
# 6 Cladding Installation Steps* - Cavity Fix

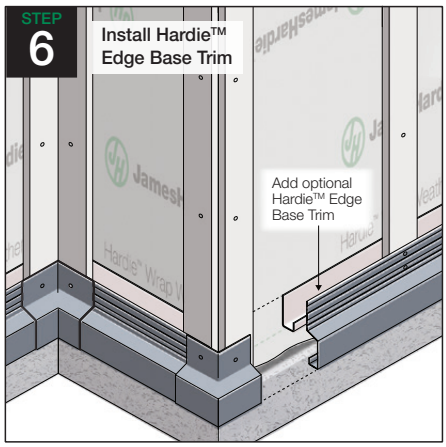


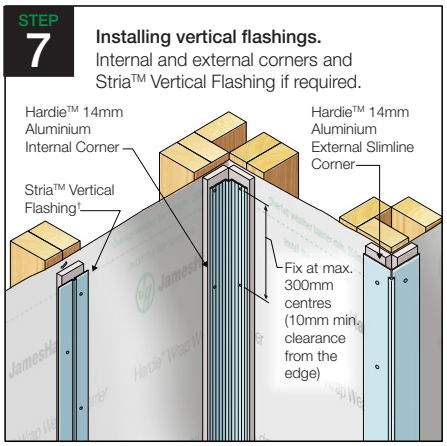



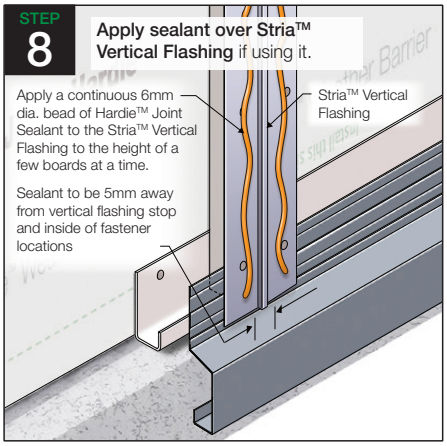



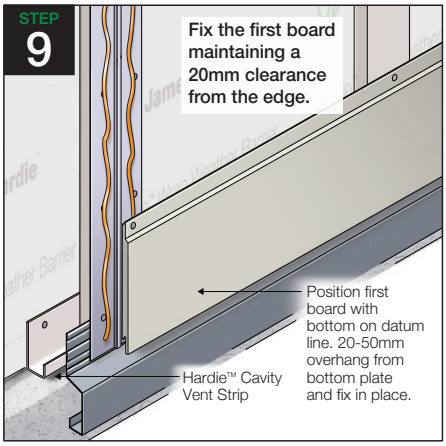



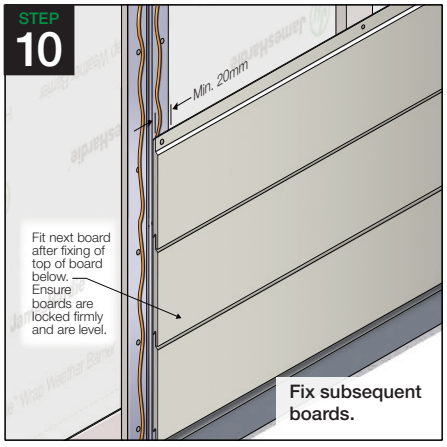



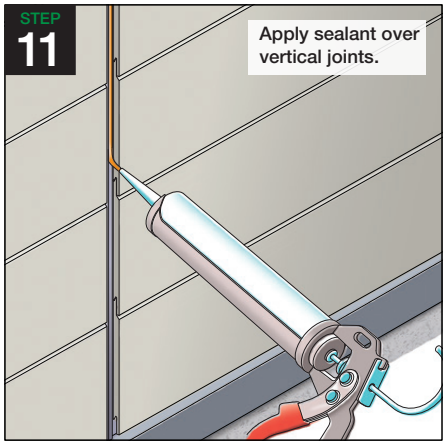




† Needed where a vertical express joint is required.





*This is an overview of the installation process only. It is not a substitute for reviewing this document in its entirety prior to installation.

# 7 Construction Details - Direct Fix

## JUNCTION DETAILS

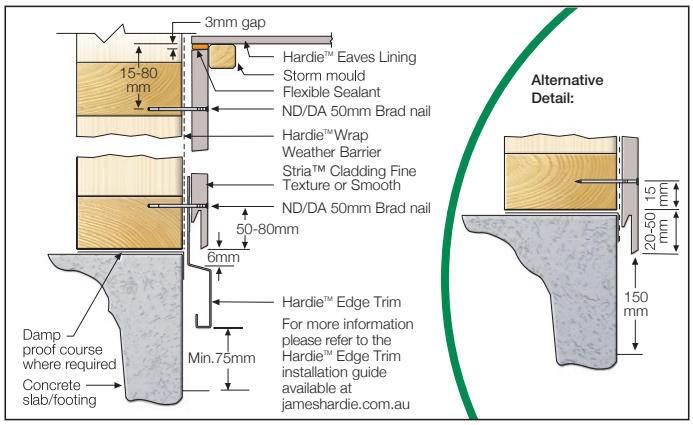



FIGURE 1 SLAB/EAVE JUNCTION DETAIL

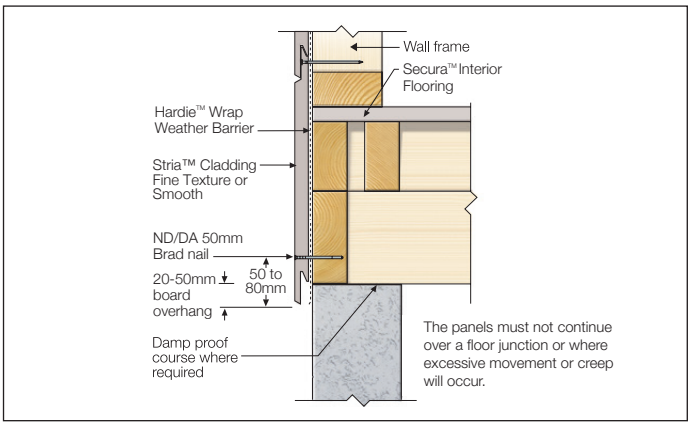



FIGURE 2 LOWER FLOOR JUNCTION

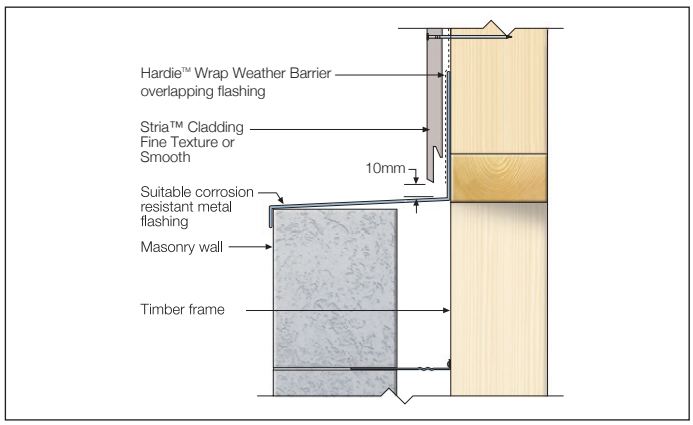



FIGURE 3 HORIZONTAL JUNCTION

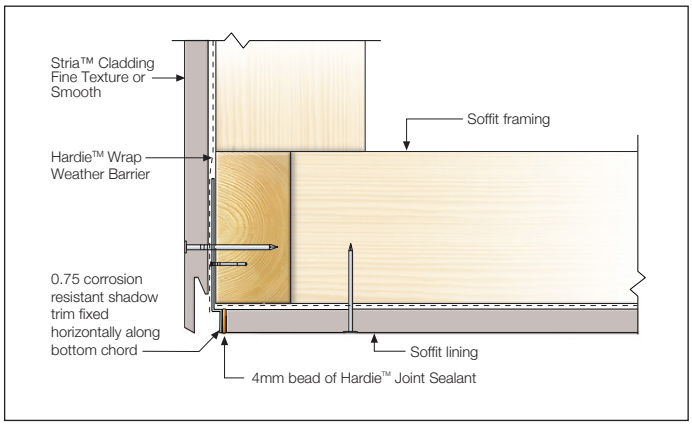



FIGURE 4 FACADE/SOFFIT JUNCTION

## INTERNAL CORNER DETAIL

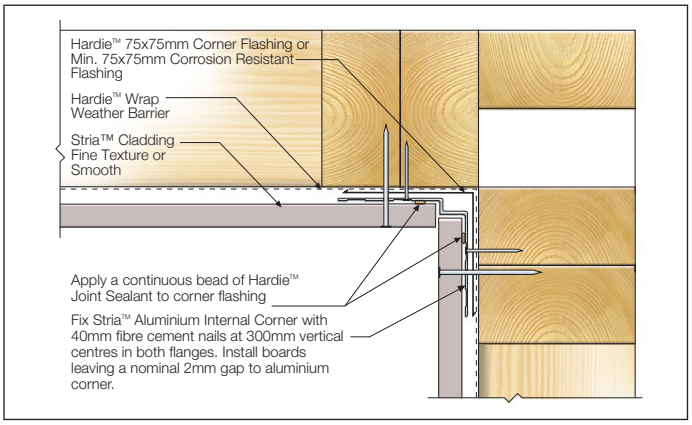



FIGURE 5 INTERNAL CORNER

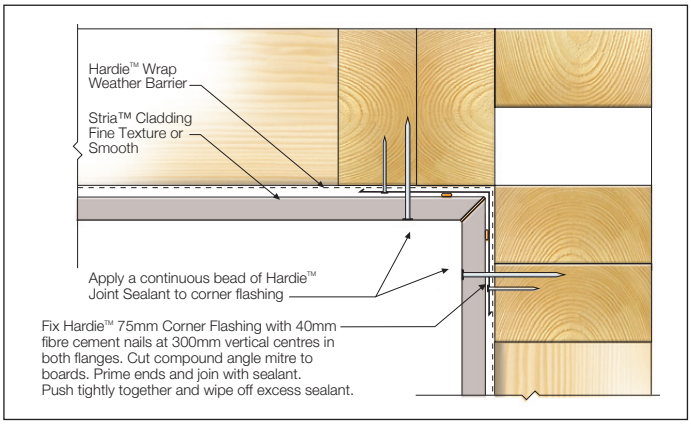



FIGURE 6 INTERNAL MITRE CORNER

## EXTERNAL CORNER DETAILS

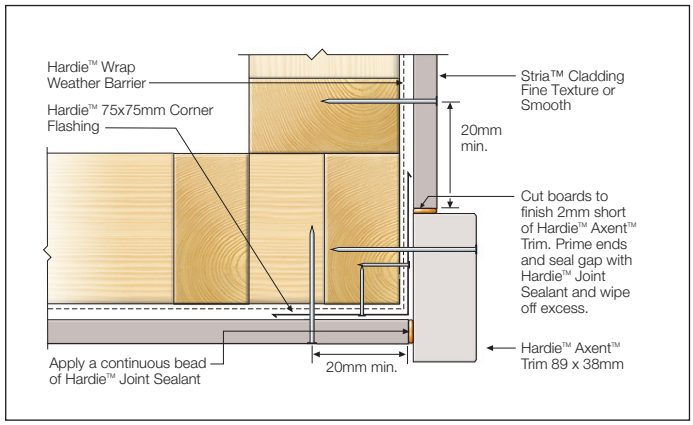



FIGURE 7 EXTERNAL TRIM CORNER

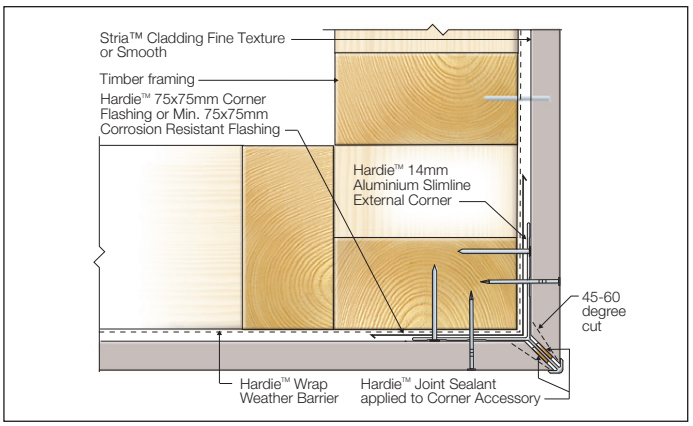



FIGURE 8 EXTERNAL SLIMLINE CORNER

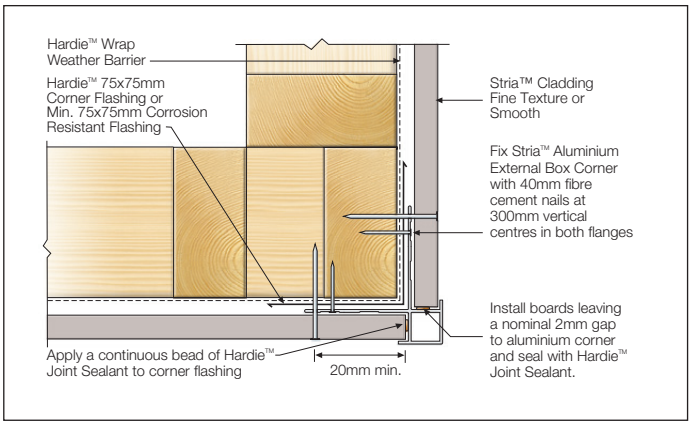



FIGURE 9 EXTERNAL BOX CORNER

## JOINT DETAILS

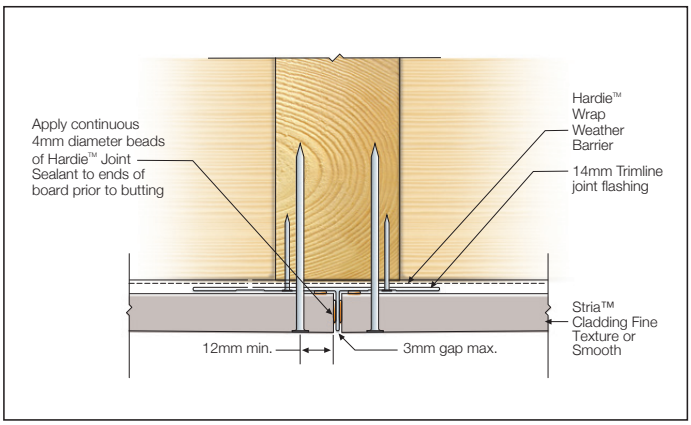



FIGURE 10 VERTICAL JOINT DETAIL

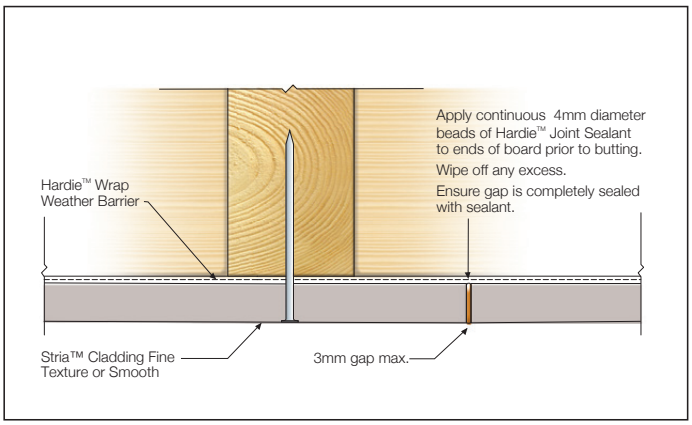



FIGURE 11 OFF-STUD JOINT

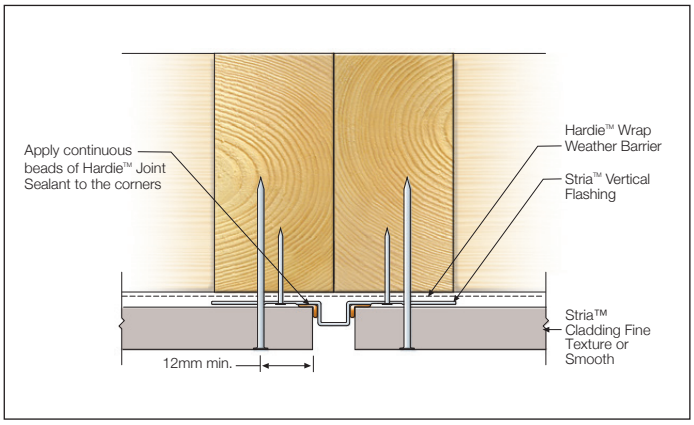



FIGURE 12 VERTICAL JOINT USING STRIA™ VERTICAL FLASHING STOP

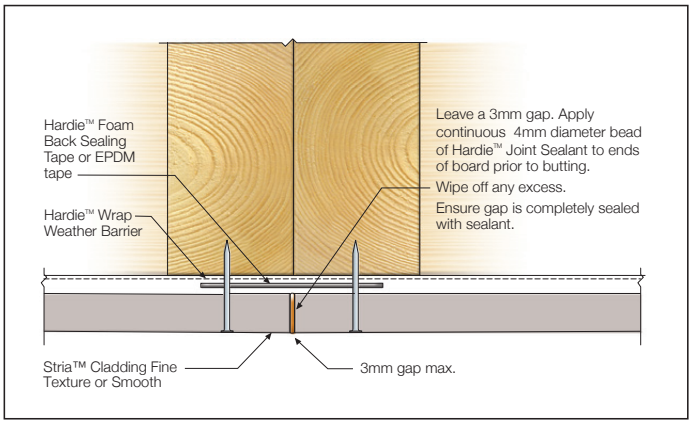



FIGURE 13 HARDIE™ FOAM BACK SEALING TAPE DETAIL

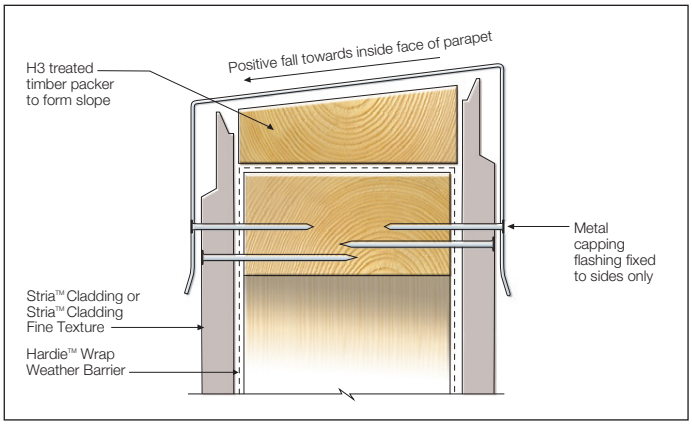



FIGURE 14 PARAPET DETAIL

## WINDOW DETAILS

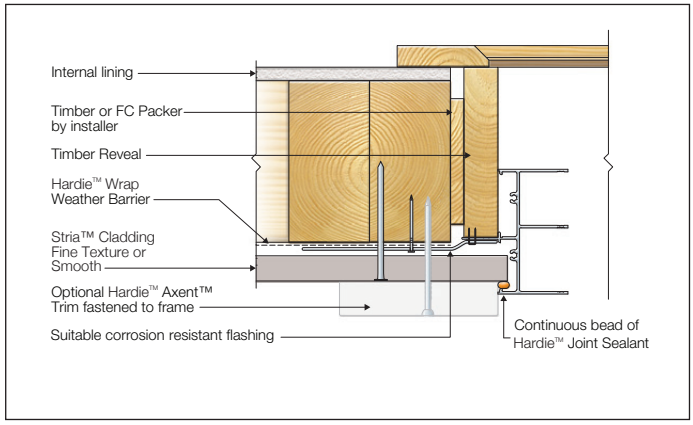



FIGURE 15 WINDOW JAMB - TRIM

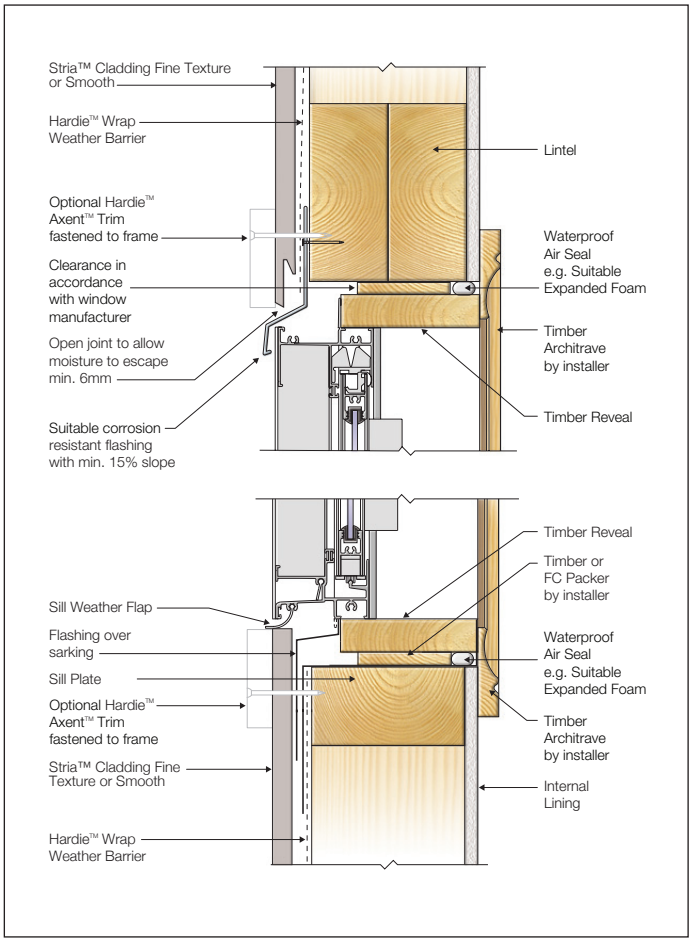



FIGURE 16 WINDOW HEAD AND SILL - TRIM

# 8 Construction Details - Cavity Fix

## JUNCTION DETAILS

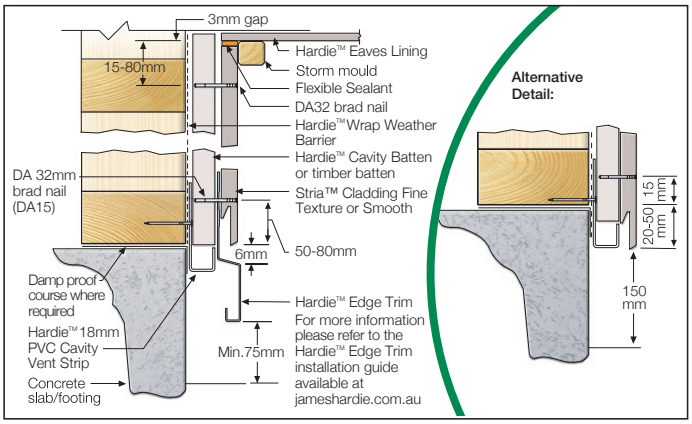



FIGURE 17 SLAB/EAVE JUNCTION DETAIL

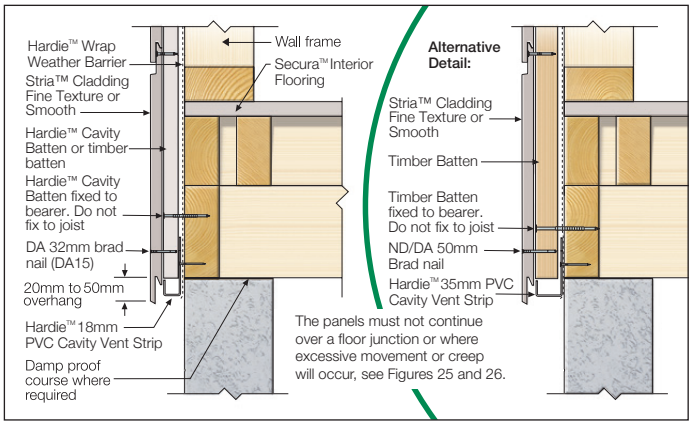



FIGURE 18 LOWER FLOOR JUNCTION

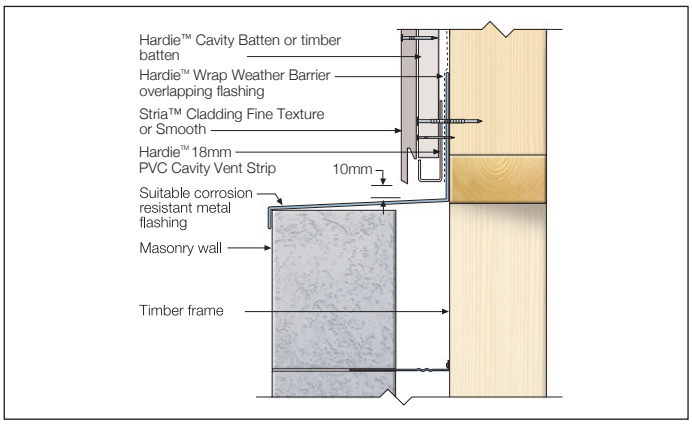



FIGURE 19 HORIZONTAL JUNCTION

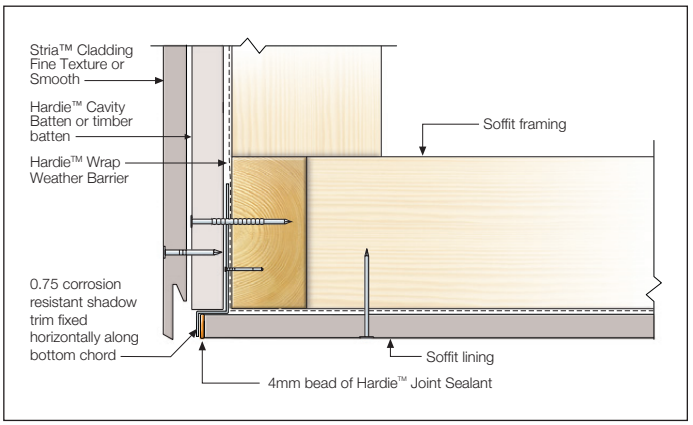



FIGURE 20 FACADE/SOFFIT JUNCTION - CAVITY FIX

## INTERNAL CORNER DETAIL

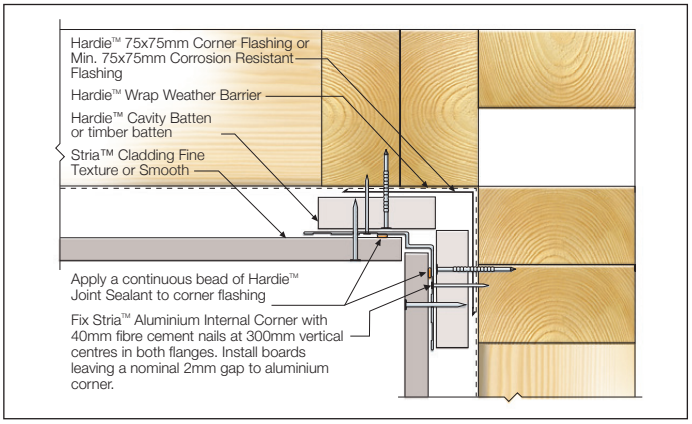



FIGURE 21 INTERNAL CORNER

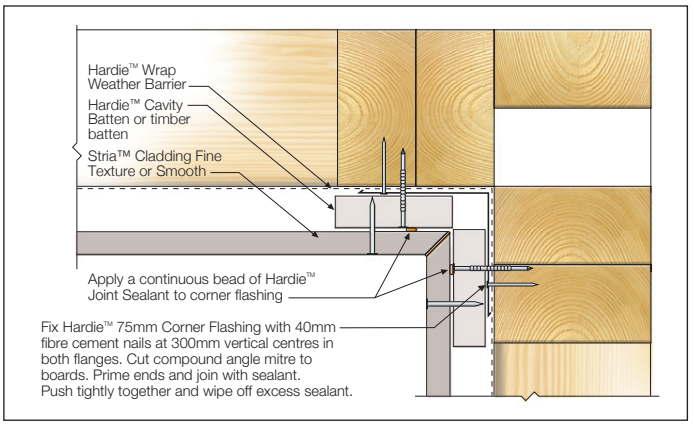



FIGURE 22 INTERNAL MITRE CORNER

## EXTERNAL CORNER DETAILS

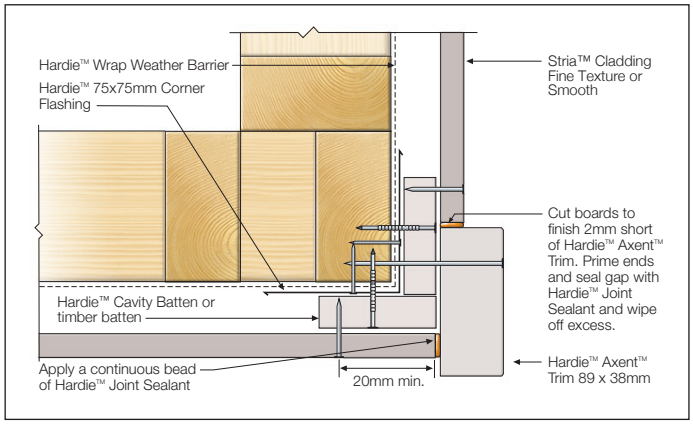



FIGURE 23 EXTERNAL TRIM CORNER

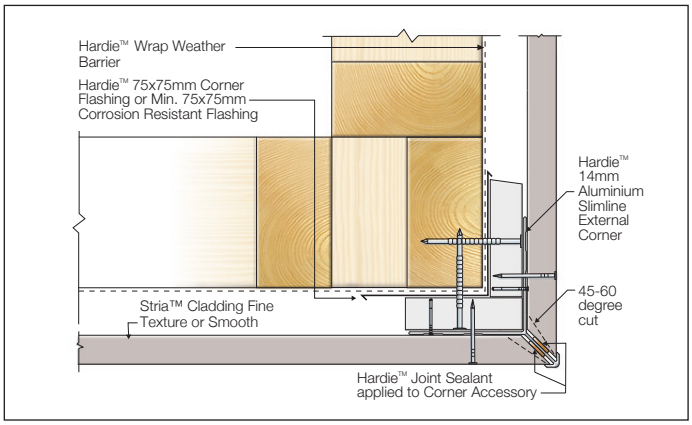



FIGURE 24 EXTERNAL SLIMLINE CORNER

## JOINT DETAILS

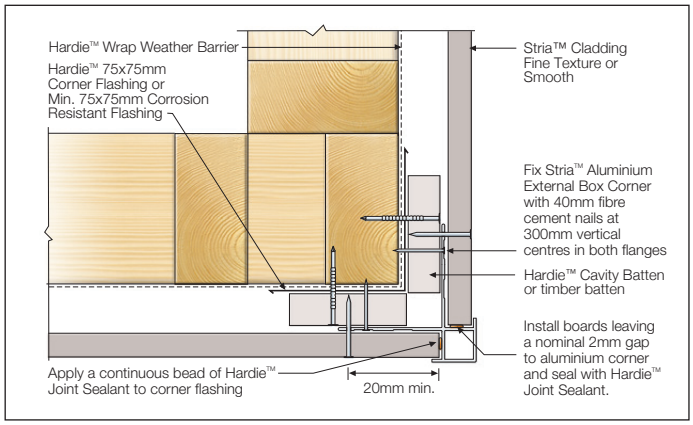



FIGURE 25 EXTERNAL BOX CORNER

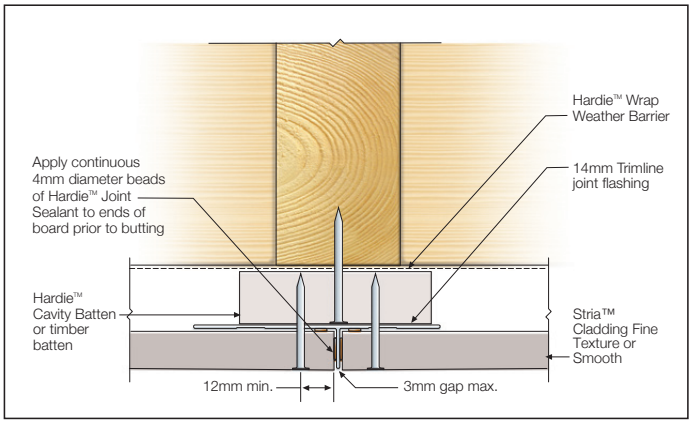



FIGURE 26 VERTICAL JOINT DETAIL

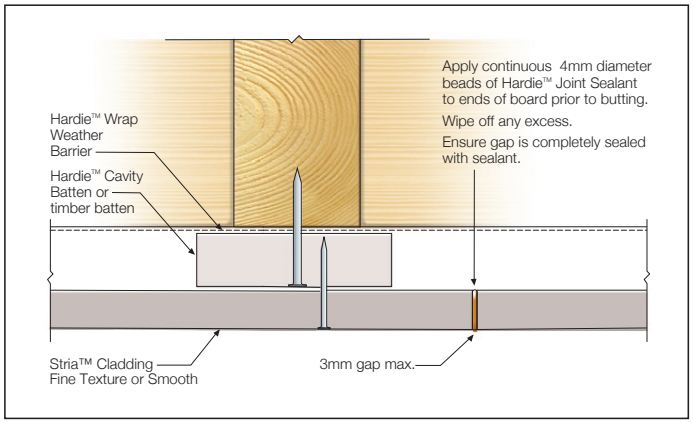



FIGURE 27 OFF-STUD JOINT

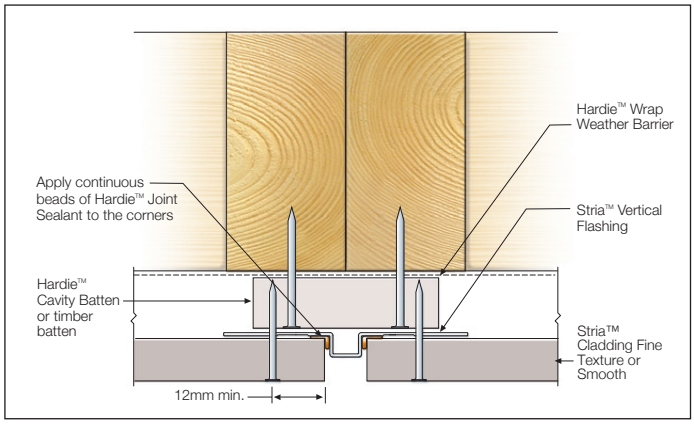



FIGURE 28 VERTICAL JOINT USING STRIA™ VERTICAL FLASHING STOP

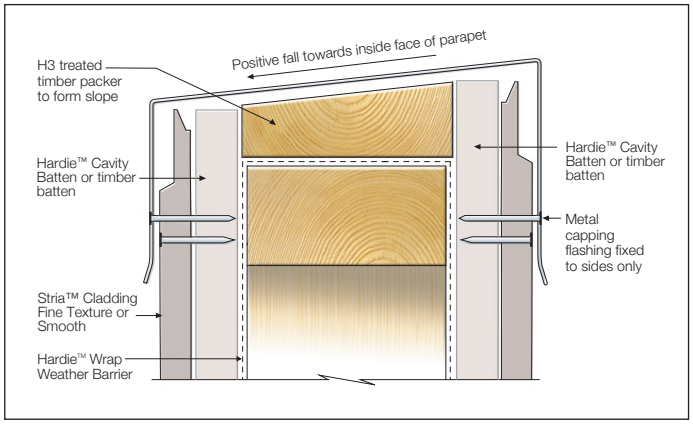
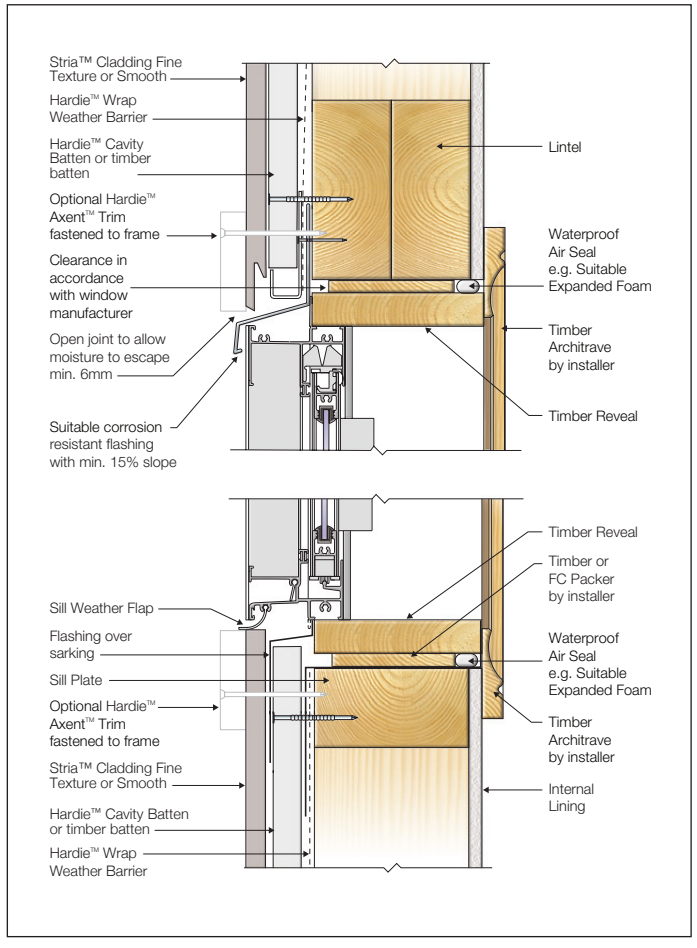



FIGURE 29 PARAPET DETAIL



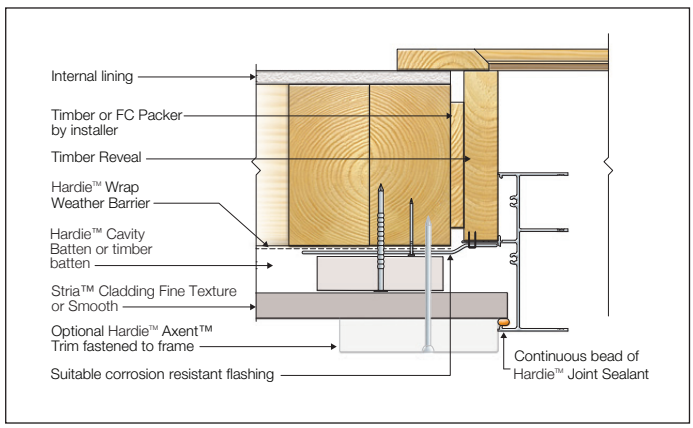




FIGURE 30 WINDOW JAMB - TRIM

FIGURE 31 WINDOW HEAD AND SILL - TRIM

# 9 Finishes and Maintenance

## SURFACE PREPARATION AND PAINTING

Boards must be finished within 3 months of being fixed with a suitable exterior acrylic paint. In areas within 1km of a coastal area or corrosive environment, boards must be coated immediately after fixing sheets to minimise contamination build up on the heads of the fasteners.

To achieve best results, apply first coat of exterior acrylic paint, then assess patching requirements.

Slight chipping and scratches can be repaired using an exterior grade, fibre cement compatible filling compound and following the below process:

1. Wearing appropriate gloves, place filling compound on finger and wipe over nail hole.
2. If there is excess of filling compound around chpping or scratches, gently wipe away with a moist sponge or cloth before the compound sets.
3. Apply a second coat of exterior acrylic flat paint.


**Sealants**

James Hardie recommends the use of Hardie™ Joint Sealant, which is a paintable polyurethane sealant. If using an alternative sealant, it must be a quality polyurethane sealant compatible with fibre cement and the specified paint system if coated. Please refer to the manufacturer's instructions for further information.

## MAINTENANCE

The extent and nature of maintenance will depend on the geographical location and exposure of the building. As a guide, it is recommended that basic normal maintenance tasks shall include but not be limited to:

- Washing down exterior surfaces every 6-12 months*
- Periodic inspections should be made to ensure fasteners are adequately securing the sheets to framing.
- Re-applying of exterior protective finishes*
- Maintaining the exterior envelope and connections including joints, penetrations, flashings and sealants that may provide a means of moisture entry beyond the exterior cladding.
- Cleaning out gutters, blocked pipes and overflows as required.
- Pruning back vegetation that is close to or touching the building.

*Refer to your paint manufacturer for washing down and recoating requirements related to paint performance.

# 10 Product Information

## PRODUCT INFORMATION

**Material**

The basic composition of Hardie™ building products is Portland cement, ground sand, cellulose fibre, water and proprietary additives.

Hardie™ building products are manufactured to AS/NZS 2908.2 'Cellulose-Cement Products-Flat Sheet'. These are also compliant with equivalent standard ISO 8336 'Fibre-cement flat sheets - Product specification and test methods'. For product classification refer to the relevant Physical Properties Data Sheet.

### Durability

**Resistance to Moisture/Rotting**

Stria™ Cladding has demonstrated resistance to permanent moisture induced deterioration (rotting) by passing the following tests in accordance with AS/NZS 2908.2:

- Water permeability (Clause 8.2.2)
- Warm water (Clause 8.2.4)
- Heat rain (Clause 6.5)
- Soak dry (Clause 8.2.5)

**Resistance to fire**

The Stria™ Cladding is suitable where non-combustible materials are required in accordance with C2D10 and H3D2 of the National Construction Code (NCC) Vol 1 and 2 respectively.

Hardie™ building products have been tested by CSIRO in accordance with AS/NZS 3837 and are classified as conforming to Group 1 material (highest and best result possible), with an average specific extinction area far lower than the permissible 250$m^2$/kg, as referenced in Specification C2D11(1) of the NCC 2022.

**Resistance to Termite Attack**

Based on testing completed by CSIRO Division of Forest Products and Ensis Australia, Hardie™ building products have demonstrated resistance to termite attack.

### Alpine Regions

In regions subject to freeze/thaw conditions, all James Hardie fibre cement external cladding must be installed and painted in the warmer months of the year where the temperature does not create freeze and thaw conditions or paint issues. The cladding must be painted immediately after installation. In addition, fibre cement cladding must not be in direct contact with snow and/or ice build up for extended periods, e.g. external walls in alpine regions subject to snow drifts over winter.

Furthermore, a reputable paint manufacturer must be consulted in regards to a suitable product, specifications and warranty. The paint application must not be carried out if the air temperature or the substrate temperature is outside the paint manufacturer's recommendation including the specified drying temperature range

Hardie™ external cladding products are tested for resistance to frost in accordance with AS/NZS 2908.2 Clause 8.2.3.

# 11 Site Installation Checklist

## USING THE CHECKLIST

Highlighting some key features of the Stria™ Cladding Horizontal Installation Guide, this checklist has been created to assist you in the installation of Stria™ Cladding. Ensure all requirements of each stage are completed and marked as such before progressing to the next stage.

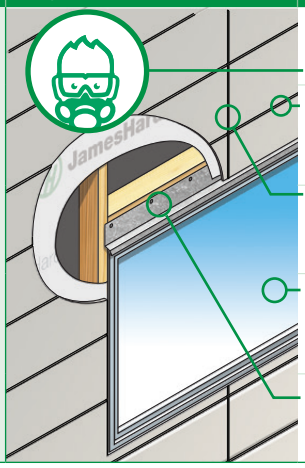
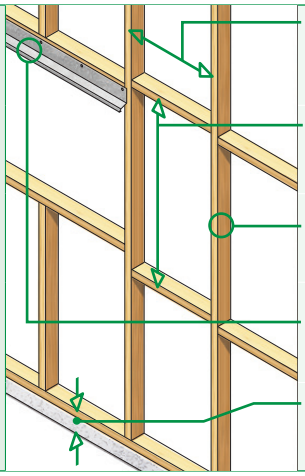
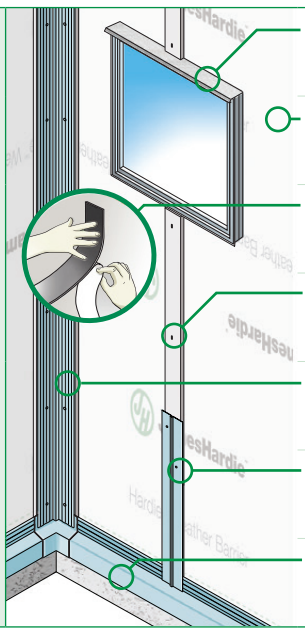
**IMPORTANT:** This checklist is not an exhaustive list of all compliance and construction requirements and it must only be used as a supplement to, and not a substitute for, compliance with the entirety of the Stria™ Cladding Horizontal Installation Guide current at the time of installation. Please note, this checklist is for your own use, it is not to be submitted to James Hardie, and completion of this checklist does not evidence, and will not be accepted as being evidence of compliance with the Stria™ Cladding Horizontal Installation Guide.

**Project location:** _____ **Installer:** _____

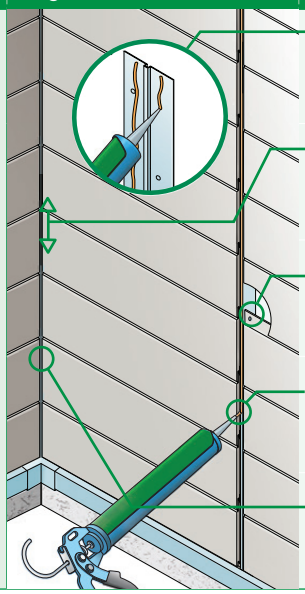
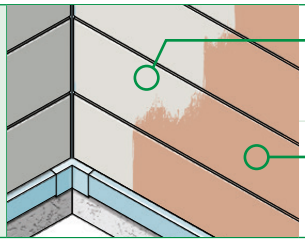
**Project Wind Category:** N1 & N2 | N3/C1 | N4/C2 | N5/C3 | N6/C4 **Fixing method:** Face Fixing | Concealed Fixing

**Frame Material:** Timber | Steel | Masonry **Batten Spacing** (mm)**:** 900 | 600 | 450 **Stud Spacing** (mm)**:** 600 | 450| 300 **Board Fastener:** _____

**Batten Fastener:** _____ **No. of Board Fasteners:** 1 | 2 | 3 **Corrosive environment:** Yes - Less than 1km to coastal area | Yes - Other | No

| Stage | Diagram | Requirement | Reference | Completed | Comments |
|---|---|---|---|---|---|
| Planning |  | **Safe Working Practices** Ensure you understand how to work safely with Fibre Cement. | **Page 3** | ☐ YES ☐ NO | |
| | | **Board sizes** Ensure optimal board length is chosen based on the wall dimensions. | **Page 7 -** Item 1 | ☐ YES ☐ NO | |
| | | **Vertical joint location** Plan the location of vertical joints to align with the house design. | **Page 9 -** Step 7 **Page 10 -** Step 8 | ☐ YES ☐ NO | |
| | | **Window/door reveal sizing** Verify overall frame thickness compared to window reveal sizing. | **Page 13 -** Fig 15 and 16 **Page 15 -** Fig 30 and 31 | ☐ YES ☐ NO | |
| | | **Customized flashing** Determine the geometry of flashings over openings. | **Page 9 and 10 -** Step 2 | ☐ YES ☐ NO | |
| Framing Preparation |  | **Stud spacing** Verify the maximum stud spacing based on the projects wind category. | **Page 5 -** Table 3 & 4 | ☐ YES ☐ NO | |
| | | **Noggin Spacing** Ensure the noggins are within the maximum allowed. | **Page 4 -** Table 2 | ☐ YES ☐ NO | |
| | | **Frame straightness** Ensure the frame is square. | **Page 9 and 10 -** Step 1 | ☐ YES ☐ NO | |
| | | **Flashing above window and openings** All required flashings are installed over openings. | **Page 9 and 10 -** Step 2 | ☐ YES ☐ NO | |
| | | **Ground Clearance** Frame installed considering minimum distance to the ground. | **Page 3 -** Ground clearances | ☐ YES ☐ NO | |
| Pre-Cladding |  | **Windows/doors installed** Windows and doors installed to manufacturers specification. | **Page 13 -** Fig 15 and 16 **Page 15 -** Fig 30 and 31 | ☐ YES ☐ NO | |
| | | **Hardie™ Wrap Weather Barrier** Installed in accordance with the product's installation guide. | **Page 9-** Step 3 **Page 10 -** Step 3 | ☐ YES ☐ NO | |
| | | **EPDM or Hardie™ Thermal Break over studs (direct fix only)** Applied over studs | **Page 9 -** Step 5 | ☐ YES ☐ NO | |
| | | **Cavity trims or timber battens (cavity fix only)** Vertical battens installed. | **Page 10 -** Step 5 | ☐ YES ☐ NO | |
| | | **Corner installation** Internal and external corner accessories installed. | **Page 9 -** Step 6 **Page 10 -** Step 7 | ☐ YES ☐ NO | |
| | | **Vertical Flashing** Vertical flashing installed to manufacturers specifications. | **Page 9 -** Step 7 **Page 10 -** Step 8 | ☐ YES ☐ NO | |
| | | **Horizontal Trim installation** Base trims and flashing installed to manufacturers specifications. | **Page 11 -** Fig 1 **Page 14 -** Fig17 | ☐ YES ☐ NO | |

# 11 Site Installation Checklist cont.

| Stage | Diagram | Requirement | Reference | Completed | Comments |
|---|---|---|---|---|---|
| Cladding Installation |  | **Sealant applied over vertical flashing**<br>Hardie™ Joint Sealant applied over vertical battens. | **Page 9 -** Step 7<br>**Page 10 -** Step 8 | ☐ YES<br>☐ NO | |
| | | **Fastener Spacing**<br>Fastener spacing within the maximum based on wind category. | **Page 5 -**<br>Table 3 and 4 | ☐ YES<br>☐ NO | |
| | | **Edge clearance**<br>Fasteners within the maximum distance from panel edges. | **Page 9 -**<br>Step 8 and 9<br>**Page 10 -**<br>Step 9 and 10 | ☐ YES<br>☐ NO | |
| | | **Sealant over vertical joints**<br>All vertical joints sealed with Hardie™ Joint Sealant. | **Page 9 -** Step 10<br>**Page 10 -** Step 11 | ☐ YES<br>☐ NO | |
| | | **Sealant behind corners**<br>All corners sealed with Hardie™ Joint Sealant. | **Page 11 -** Fig 5 - 9<br>**Page 14 -** Fig 21 to 25 | ☐ YES<br>☐ NO | |
| Painting |  | **Surface imperfections repaired**<br>All imperfections and over-driven nails are fixed. | **Page 16 -**<br>Section 9 | ☐ YES<br>☐ NO | |
| | | **Wall painted**<br>Wall painted within the maximum recommended time. | **Page 16 -**<br>Section 9 | ☐ YES<br>☐ NO | |

# Notes

**For information and advice**
**call 13 11 03 | jameshardie.com.au**

**Australia** November 2025