



# Installation Guide

Hardie™ Fine Texture Cladding

## EXTERIORS

**Australia** March 2022

**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 [www.jameshardie.com.au](http://www.jameshardie.com.au) or Ask James Hardie™ on 13 11 03.



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## Made in Australia

### SCOPE

This guide covers the use of Hardie™ Fine Texture Cladding 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.

Hardie™ Fine Texture Cladding has been certified under the CodeMark scheme (Certificate Number CM40302) and available at [www.jameshardie.com.au](http://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.



## Hardie™ Fine Texture Cladding.

**The beauty of clean lines and a modern look.**

Streamline the building process and deliver the modern looks and clean lines homeowners want.

Hardie™ Fine Texture Cladding is the first fibre cement cladding panel manufactured in Australia embedded with the texture of fine render.

## 1 Introduction

Hardie™ Fine Texture Cladding is a fibre cement panel embedded with a consistent fine render texture. The shiplap joint on the long edges leaves a subtle V-joint. It removes the need for time-consuming set joints and specialty coatings that could be prone to cracking.

The panels 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 16 for more information).



### Renovation.

The texture is designed to match popular cement or acrylic render for a consistent match with the rest of the house.

### New homes and townhouses.

Mix it with other cladding products by James Hardie to achieve design diversity.

**Specifiers.** Ensure the information in these specifications is appropriate for the application you're planning. Undertake specific design and detailing for areas which fall outside the scope of these specifications.

**Installers.** Ensure that you follow the design, moisture management and associated details and material selection provided by the designer and the Hardie™ Fine Texture Cladding Installation Guide.

### 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 Hardie™ 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 James Hardie's 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](http://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 P1 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](http://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** ▪ Hardie™ 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 P1).

##### CUTTING INDOORS

- Cut only using Hardie™ 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 P1 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, P1 or higher

##### DUST MASKS AND RESPIRATORS

As a minimum, an AS/NZS1716 P1 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". P1 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](http://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.

### STORAGE AND HANDLING

To avoid damage, all Hardie™ building products should be stored with edges and corners of the product protected from chipping. Hardie™ building products 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.

## 3 Design Considerations

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™ Fine Texture 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 the 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.

### Structural Bracing

Hardie™ Fine Texture Cladding can be installed to provide wall bracing against lateral forces due to wind. For further information, Contact James Hardie on 13 11 03.

### Fire Rated Walls

Hardie™ Fine Texture Cladding can achieve fire ratings of 60/60/60 and 90/90/90 when constructed with additional fire rated linings as specified in James Hardie's Fire and Acoustically Rated Design Manual and Construction of Fire and Acoustically Rated Walls Technical Specification. 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.

### Joint Location

Before starting the installation of Hardie™ Fine Texture Cladding, plan the location of vertical and horizontal joints to follow the house design. To achieve this, consider aligning the joints with key building features such as windows or other opening, or work from the centerline out to the wall edge to achieve symmetry.

## Weather Barrier

A suitable water control membrane must be installed under Hardie™ cladding 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™ Weather Barrier for Climate Zones 2-8 within Australia. Hardie™ Weather Barrier is a Class 4 vapour permeable membrane that delivers a triple-shield of protection to help against external weather penetration, internal condensation management and external heat penetration through its safe-glare reflective layer.

If using an alternate product in lieu of Hardie™ 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 and underlays – Materials':

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.

TABLE 2

General Framing Requirements			
Type	Timber		Steel
<b>Design</b>	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.
<b>Durability</b>	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.
<b>Tolerances</b>	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.		
<b>Thermal Break Requirement</b>	Not required.		For steel frames, the NCC Sections J1.5 and 3.12.1 Volumes 1 and 2 respectively, state for both residential and commercial buildings a thermal 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, off-stud vented cavity installation using Hardie™ Cavity Trims or minimum 70x20mm timber battens can be used in these applications.
Framing specifications			
	Direct Fix	Cavity Fix	Cavity Fix
<b>BMT</b>	NA		From 0.55 to 1.6mm.
<b>Min. Stud Width</b>	45mm at sheet edges. 35mm at intermediates.	35mm	Min. 32mm
<b>Min. Stud Depth</b>	70mm	70mm	64mm
<b>Max. Nogging spacing</b>	1350mm	1350mm for on stud batten fixing. 800mm for off stud batten fixing.	1350mm when battens are fixed on stud or 800mm when fixed off stud
<b>Battens</b>	N/A	Hardie™ Cavity Trims or minimum MGP10 70x20mm timber battens	Hardie™ Cavity Trims or minimum MGP10 70x20mm timber battens

TABLE 3

Maximum Stud, Hardie™ Cavity Trim or timber batten & fastener spacing for Hardie™ Fine Texture Cladding in AS4055 Wind Classification							
Wind Classification	Stud and cavity trims or timber batten spacing	Only required for cavity fix				Sheet Fastener Spacing (Except Brad Nails)	Sheet Fastener Spacing (Brad Nails)
		Can be fixed off stud?		Batten fastener spacings			
		Hardie™ Cavity Trims	Timber Battens	Hardie™ Cavity Trims	Timber Battens		
N1, N2, N3/C1	600	Yes	Yes	300	300	200	125
N4/C2	450	No	No	200	200	150	125*
N5/C3	300	No	No	200		150	
N6/C4	300	No	No	200		125	

NOTE - When using brad nails:

- Refer to the accessories page for brad nails options.

NOTE - Off-stud cavity installation:

- When fixing Hardie™ Cavity Trims or timber battens offstud, noggings must be spaced based on the maximum batten span as described on Table 4.

\* Only suitable when fixing to Hardie™ Cavity Trims or timber battens. Not suitable for direct fix to frame.

## FRAMING

### General

Hardie™ Fine Texture Cladding panels are installed vertically either directly fixed to frame or installed to vertically oriented Hardie™ Cavity Trim or timber battens to provide a vented cavity, this can be done over either timber or steel frames. The general framing requirements for installation are given in Table 2. Please ensure the frame design considers correct load transfer between the different wall components.

Maximum stud, Hardie™ Cavity Trim and fastener spacing for Hardie™ Fine Texture Cladding panels for wind load classifications of AS 4055 'Wind Loads for Housing' are given in Table 3.

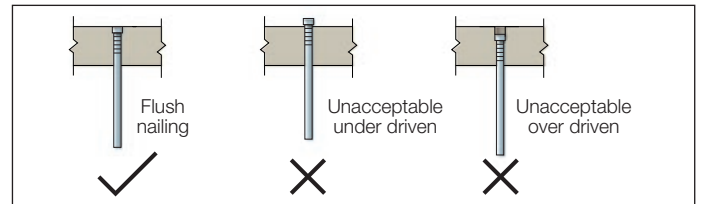
## FASTENERS

### General

All nails must be driven flush. **Brad nails are recommended for best aesthetic finish.** For more information and advice, Contact 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.



NAIL FASTENER DEPTH

TABLE 4

Maximum span for Hardie™ Cavity Trim or timber batten			
Batten	Dimensions (mm)	Max. Span (mm)	
		Timber Frame	Steel Frame
Hardie™ Cavity Trims	70 x 19	800	800*
Timber Battens	70 x 20	800	800*
	70 x 35	1350*	800*

NOTES:

\*Requires using two nails per fixing point when installing the battens off-stud. Refer to the Product and Accessories Details on page 7 for fastener and fixing requirements.

A continuous bead of Hardie™ Joint Sealant is required between the vertical battens and the back of the cladding in all cases.

# 4 Hardie™ Fine Texture Cladding Design



**Panel Layout**  
Align horizontal and vertical joints with key building features to achieve an uninterrupted look

**Paint**  
For best results, use a roll-on, low-sheen or matt finish exterior paint in natural colours

## RECOMMENDED ACCESSORIES



NEW

### Hardie™ 9mm Aluminium External Slimline Corner

A sleek external corner that prioritises design with a sharp, minimal edge. It holds the panels tight with just 3.5mm of coverage.



NEW

### Hardie™ 9mm Aluminium Internal Concave Corner

A concave internal corner that aids design and productivity. Replace inconsistent sealant application with an aluminium extrusion with 10mm of cover to conceal panel edges.



NEW

### Hardie™ 9mm Aluminium Horizontal Express Jointer

A new horizontal flashing that creates an attractive 6mm horizontal shadow line. To assist installation, it features an alignment tab for the top panels and a groove to conceal the edge of the bottom panels.



NEW

### Hardie™ 9mm Aluminium Base Trim

A elegant aluminium trim for the base which can be used to cover the slab edges or as a detail under balconies and cantilevers. An alignment tab helps installation and creates a 6mm horizontal shadow line between the cladding and the trim.

## ALTERNATIVE ACCESSORIES

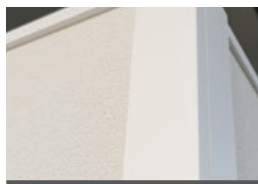
### External Corners



NEW

### Hardie™ 9mm Aluminium External Square Corner

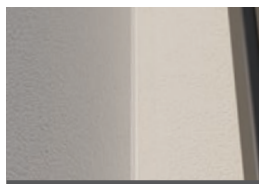
Aluminium extrusion that creates a square edge in external corner.



### External Corner using Axent™ Trim

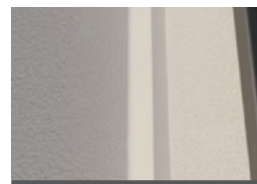
External corner created with 2 Axent™ Trims 45x19mm.

### Internal Corners



### Hardie™ 9mm Aluminium Internal Corner

Aluminium extrusion that creates an internal box corner.



### Internal Corner using Axent™ Trim

Internal corner created with 1 Axent™ Trims 45x38mm.

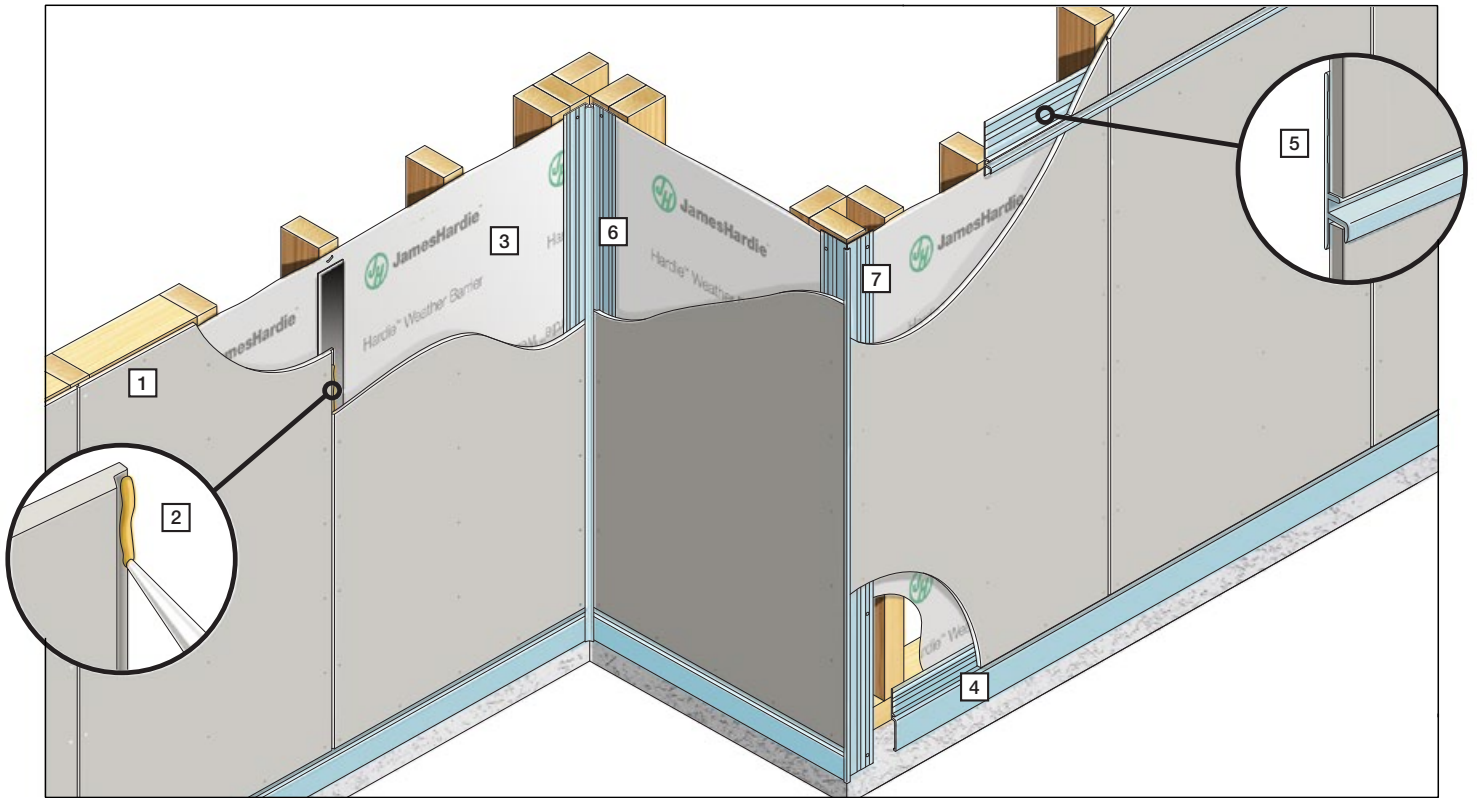
### Horizontal Joiner



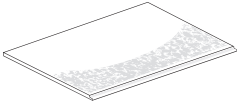
### Hardie™ 9mm Aluminium Horizontal T Joiner

A ready to paint aluminium flashing which creates a 6mm horizontal express joint while maintaining a subtle look.

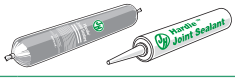
# 5 Products and Accessory Details



## COMPONENTS


1	Hardie™ Fine Texture Cladding (8.5mm thick)	Product Code	Length (mm)	Width (mm)	Mass (kg)	Pack Size	Coverage (m <sup>2</sup> )
 <p>Pre-sealed and ready to paint textured sheet with a shiplap V-shaped joint along the two vertical edges.</p>	405252	2440	1200	38	40	2.92	
	405255	2750	1200	43	40	3.30	
	405253	3000	1200	47	40	3.60	
	405254	3600	1200	56	30	4.32	

### 2 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<sup>2</sup>/100ml (5mm dia bead)

### 3 Hardie™ Weather Barrier



High water barrier and vapour permeable membrane.  
Unit size: 2.75 x 30m. Pack Size: 1 Each.  
Product Code: 305664  
Coverage: 85.5m<sup>2</sup> per roll

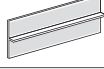
### 4 Hardie™ 9mm Aluminium Base Trim



**NEW**  
Aluminium Base trim that creates a shadow line over slab or balcony edges.  
Product Code: 306105  
Coverage: Length of horizontal joints / 3000mm


## Horizontal Flashing Options

### 5 Hardie™ 9mm Aluminium Horizontal T Jointer



Aluminium Sheet joiner that creates a subtle look.  
Product Code: 306040  
T flashing 3000mm (5/pack)  
Coverage: Length of horizontal joints / 3000mm

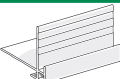
### 5 Hardie™ 9mm Aluminium Horizontal Express Jointer



**NEW**  
Aluminium Sheet joiner that creates a 6mm shadow line.  
Product Code: 306104  
Coverage: Length of horizontal joints / 3000mm

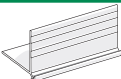
## External Corner Options

### 7 Hardie™ 9mm Aluminium External Square Corner



**NEW**  
Aluminium extrusion to be used in external corners.  
3000mm long. Pack Size: 5  
Product Code: 306100  
Coverage: Height of wall x no. of external corners / 3000mm

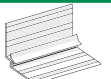
### 7 Hardie™ 9mm Aluminium External Slimline Corner



**NEW**  
Aluminium extrusion that creates a minimalist edge.  
Product Code: 306102  
Coverage: Length of horizontal joints / 3000mm


## Internal Corner Options

### 6 Hardie™ 9mm Aluminium Internal Concave Corner



**NEW**  
Aluminium extrusion that replicates the traditional sealant bead look.  
Product Code: 306103  
Coverage: Length of horizontal joints / 3000mm


### 6 Hardie™ 9mm Aluminium Internal Corner



Aluminium extrusion that creates a box corner.  
3000mm long. Pack Size: 5  
Product Code: 305520  
Coverage: Height of wall x no. of internal corners / 3000mm

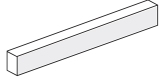
## Alternative Corner Options

### 8 Hardie™ Corner Flashing



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

### 9 Axent™ Trim



Material composite trim used for box corners and for trim around windows and doors. Pack Size: 1.  
For internal corners: 45 x 38mm. 4200mm long. Product Code: 403626  
For external corners: 45 x 19mm. 4200mm long. Product Code: 404662

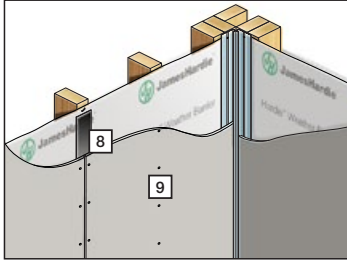
† All dimensions and masses are approximate and subject to manufacture tolerances.

# 5 Products and Accessory Details cont.


## FASTENERS, BATTENS AND TAPES

Hardie™ Fine Texture Cladding can be fixed either to timber or steel frames, which can be done directly or over Hardie™ Cavity Trims. Depending on the fixing method and substructure, there will be different components required, these are:

### OPTION 1: DIRECT FIX - TIMBER FRAME



**8 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

**9 ND 50mm Stainless Steel Brad Nail\***



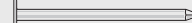
14 gauge x 50mm ND 304 stainless steel nail for fixing Hardie™ Fine Texture panels to timber framing. Not supplied by James Hardie.

**Gun Nail\***



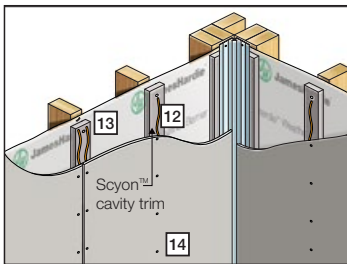
**Only required in high wind areas.**  
2.8 x 40mm minimum class 3 nail with a minimum 6mm head diameter to be used with gun nails. Not supplied by James Hardie.

**Fibre Cement Nail\***




**Only required in high wind areas.**  
2.8 x 30mm corrosion resistant fibre cement nail for fixing panels onto timber stud frame. Not supplied by James Hardie.

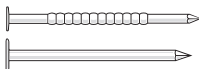
### OPTION 2: CAVITY FIX - TIMBER FRAME



**12 Battens**




**13 Nails to fix trim to frame\***



**14 Brad Nails\* to fix cladding to battens**



**14 Fibre Cement Nails\* to fix cladding to battens**



#### When using Hardie™ Cavity Trims

Fibre cement trim used to fix external cladding to steel or timber frame. Pack Size: 96 Size: 70 x 19 x 2450mm. Product Code: 403840

2.8 x 65mm long ring shank nail or 75 x 2.8mm D or round head galvanised smooth shank nail. Not supplied by James Hardie.

25mm DA or C 16-gauge 304 stainless steel brad nails. Not supplied by James Hardie. Apply continuous Hardie™ Joint Sealant between the batten and cladding.

**Only required in high wind areas.**  
2.8 x 30mm corrosion resistant fibre cement nail. Not supplied by James Hardie.

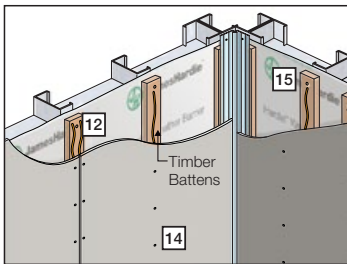
#### When using Timber Battens

Timber batten used to fix external cladding to steel or timber frame. Size: 70 x 20mm min. Not supplied by James Hardie.


**For 70 x 19mm battens:**  
2.8 x 65mm long ring shank nail or 75 x 2.8mm D or round head galvanised smooth shank nail.  
**For 70 x 35mm battens:**  
Two 75 x 3.06mm D Head Class 3 nails per fixing

25mm DA or C 16-gauge 304 stainless steel brad nails. Not supplied by James Hardie. Apply continuous Hardie™ Joint Sealant between the batten and cladding.

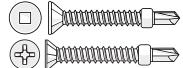
### OPTION 3: CAVITY FIX - STEEL FRAME



**12 Battens**




**15 Screws to fix trim to frame\***



**14 Brad Nails\* to fix cladding to battens**



**14 Fibre Cement Nails\* to fix cladding to battens**



#### When using Hardie™ Cavity Trims

Fibre cement trim used to fix external cladding to steel or timber frame. Pack Size: 96 Size: 70 x 19 x 2450mm. Product Code: 403840

Two 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).

25mm DA or C 16-gauge 304 stainless steel brad nails. Not supplied by James Hardie. Apply continuous Hardie™ Joint Sealant between the batten and cladding.

**Only required in high wind areas.**  
2.8 x 30mm corrosion resistant fibre cement nail. Not supplied by James Hardie.

#### When using Timber Battens

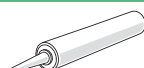
Timber batten used to fix external cladding to steel or timber frame. Size: 70 x 20mm min. Not supplied by James Hardie.

**For 70 x 19mm battens:**  
Two 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).  
**For 70 x 35mm battens:**  
Two 10-24 x 65mm Class 3 self-drilling CSK-Head screws per fixing.

25mm DA or C 16-gauge 304 stainless steel brad nails. Not supplied by James Hardie. Apply continuous Hardie™ Joint Sealant between the batten and cladding.

## Accessories


**Exterior Water Based Gap Filling Agent**



Recommended sealers include Selseys® No More Gaps - Exterior/Weatherboard or Polyfilla® - Large Cracks.


## Tools

**Sponge or course Utility Pad**




Used with recommended external based filling agent to match the panel texture finish.

**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. Makita® 5057KB / Hitachi® C7YA.

**Drop Saw\***



Drop saw with an aluminium blade. \*Not to be used for cutting the Hardie™ Fine Texture Cladding.

\* In coastal areas and other corrosive environments class 4 fasteners must be used. All other areas require minimum class 3.

# 6 Panel Installation Process\* - Direct Fix

**STEP 1**

Plan the location of sheet joints to align with the house design.

Consider working from the centerline out to the wall edge to achieve symmetry, or Align the joints with key features of the house such as windows

**STEP 2**

Ensure your frame is square, maximum tolerance of 4mm in 3000mm length

Refer to Table 3 for maximum stud spacing

**STEP 3**

Install the required corrosion resistant flashing over windows and other openings.

Fix at 300mm centres

Corrosion resistant flashing with min. 75mm upstand

**STEP 4**

Install Hardie™ Weather Barrier

Overlap Hardie™ Weather Barrier 150mm at all horizontal joints and one stud bay at all vertical joints. Extend min. 150mm around corners

Galvanised staple fastener every 450mm per stud

Refer to the Hardie™ Weather Barrier Technical Data Sheet for further information

**STEP 5**

Behind every vertical sheet joint, fix a continuous strip of 50mm EPDM foam back sealing tape to the Hardie™ Wrap Weather Barrier along the stud

**STEP 6**

Fix at max. 300mm centres (10mm min. clearance from the edge)

Install the corner accessories extending them by 60mm below the bottom plate. The bottom edge of the corner accessories must be at least 90mm from the ground.

**STEP 7**

When using the Slimline corners, the base flashing must be cut at 45 degrees.

Install base flashing, sliding it into the corner accessories

**STEP 8**

Fix the first sheet along the perimeter and to each intermediate stud

50mm min. clearance at corners

Refer to Table 3 for fastener spacings

**STEP 9**

Apply a continuous 4mm diameter bead of Hardie™ joint sealant to the edge of the shiplap and fix the subsequent boards along the perimeter and to intermediate studs. Repeat the process to the following boards. Wipe any excess sealant from joint.

**STEP 10**

Slide the Hardie™ Fine Texture Cladding panels into the corner accessory and apply a continuous bead of sealant along the vertical joint.

When using the Slimline Corner, Hardie™ Fine Texture Cladding Panels must be cut at 45 degrees

**STEP 11**

Apply a continuous 4mm diameter bead of Hardie™ joint sealant to the edge of the panel and install the horizontal jointer

When using the Slimline corners, the horizontal jointer flashing must be cut at 45 degrees.

**STEP 12**

Paint the wall with an exterior acrylic paint within 3 months of being fixed or within 7 days if located within 1km of a coastal area or corrosive environment

If patching is required use a gap filling agent and a sponge to mimic the texture of the surface and do not sand the wall. Ensure to refer to Finishing section on page 17 for full information.

\*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 Panel Installation Process\* - Cavity Fix

**STEP 1** Plan the location of sheet joints to align with the house design.

Consider working from the centerline out to the wall edge to achieve symmetry, or Align the joints with key features of the house such as windows

**STEP 2** Ensure your frame is square, maximum tolerance of 4mm in 3000mm length

Max. 800mm centres when fixing cavity trim off-stud  
Refer to Table 3 for maximum stud spacing

**STEP 3** Install the required corrosion resistant flashing over windows and other openings.

Fix at 300mm centres  
Corrosion resistant flashing with min. 75mm upstand

**STEP 4** Install Hardie™ Weather Barrier

Overlap Hardie™ Weather Barrier 150mm at all horizontal joints and one stud bay at all vertical joints. Extend min. 150mm around corners

Refer to the Hardie™ Weather Barrier Technical Data Sheet for further information

Galvanised staple fastener every 450mm per stud

**STEP 5** Install the Hardie™ PVC cavity vent Strip

Fix at 600mm centres maximum, with 10mm edge clearance.

Hardie™ PVC cavity vent mitred at corners and kept clear of debris. Do not insert Hardie™ cavity trim into the vent strip

Damp proof course

**STEP 6** Install the cavity trims (must be fixed off-stud in steel frames)

45° cut  
Hardie™ Joint Sealant

Hardie™ cavity trim or timber batten

20 mm min.

Refer to Table 3 for fastener spacing

**STEP 7** Install corner accessories as required. For alternative corners refer to Detailing section

Fix at max. 300mm centres (10mm min. clearance from the edge)

Install the corner accessories extending them 60mm below the bottom plate. The bottom edge of the corner accessories must be at least 90mm from the ground.

60mm below the bottom plate

**STEP 8**

When using the Simline corners, the base flashing must be cut at 45 degrees.

Simline Corner  
45°  
Base Flashing

Install base flashing, sliding it into the corner accessories

**STEP 9** Apply Hardie™ Joint Sealant over the cavity trims or timber battens and fix the first sheet along the perimeter and to each intermediate stud

50mm min. clearance at corners

Refer to Table 3 for fastener spacings

18 mm

**STEP 10**

Apply a continuous 4mm diameter bead of Hardie™ joint sealant to the edge of the shiplap and fix the subsequent boards along the perimeter and to intermediate studs. Repeat the process to the following boards. Wipe any excess sealant from joint.

18 mm

**STEP 11**

Apply a continuous 4mm diameter bead of Hardie™ joint sealant to the edge of the panel and install the horizontal jointer

When using the Simline corners, the horizontal jointer flashing must be cut at 45 degrees.

Simline Corner  
45°  
Horizontal Jointer

**STEP 12** Paint the wall with an exterior acrylic paint within 3 months of being fixed or within 7 days if located within 1 km of a coastal area or corrosive environment

If patching is required use a gap filling agent and a sponge to mimic the texture of the surface and do not sand the wall. Ensure to refer to Finishing section on page 17 for full information.

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

# 8 Construction Details - Direct Fix

## JUNCTION DETAILS

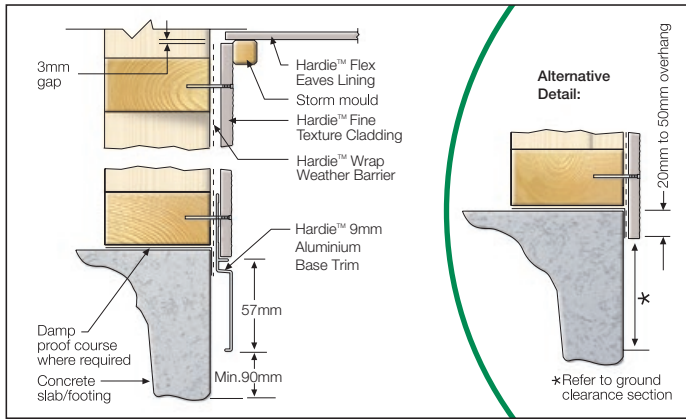


FIGURE 1 SLAB/EAVE JUNCTION DETAIL

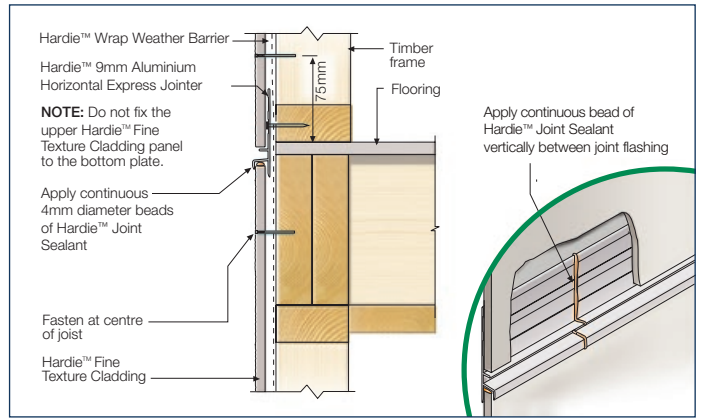


FIGURE 2 UPPER FLOOR JUNCTION OPTION 1

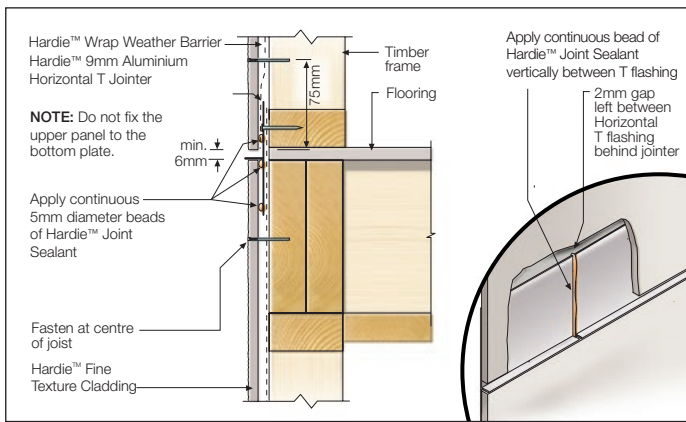


FIGURE 3 UPPER FLOOR JUNCTION OPTION 2

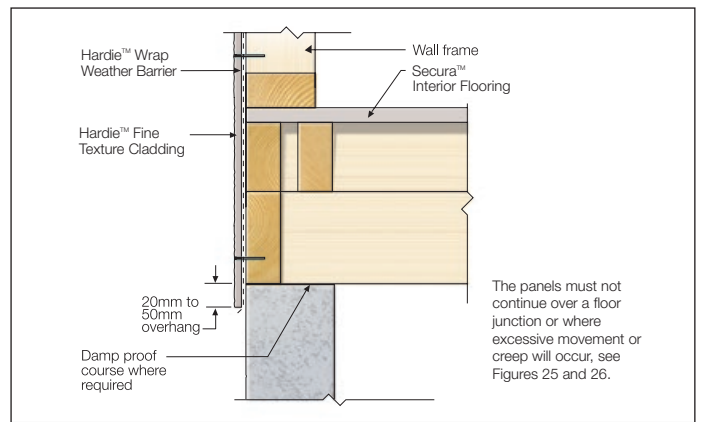


FIGURE 4 LOWER FLOOR JUNCTION

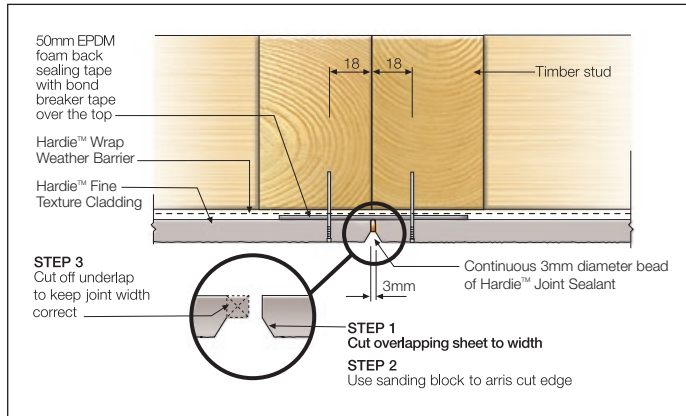


FIGURE 5 VERTICAL BUTT JOINT

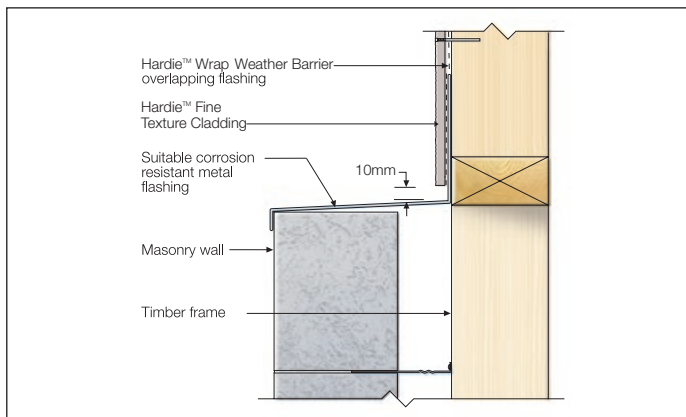
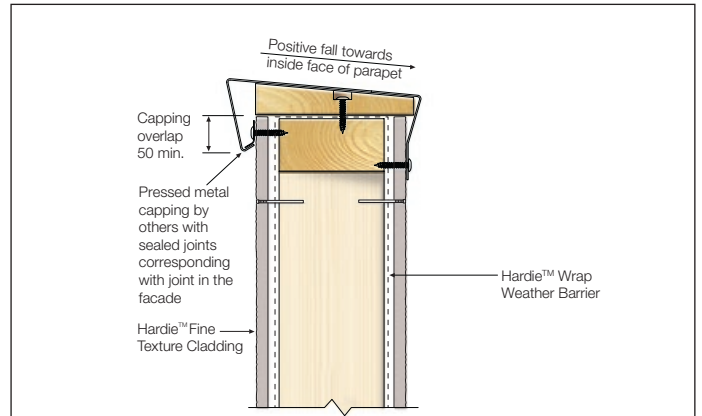


FIGURE 6 HORIZONTAL JUNCTION 2

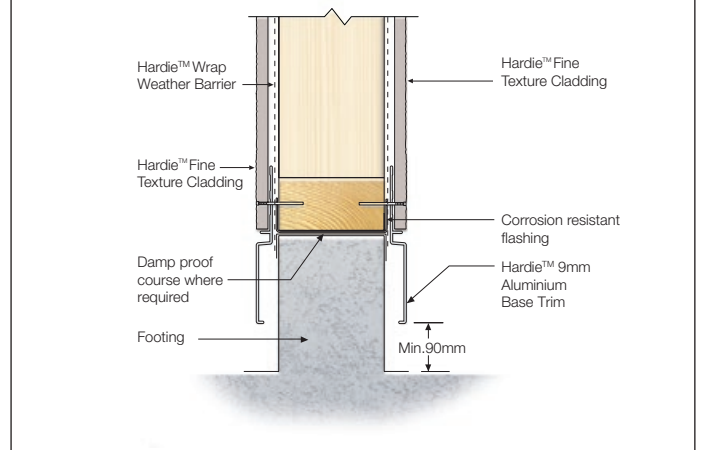


FIGURE 7 BLADE WALL

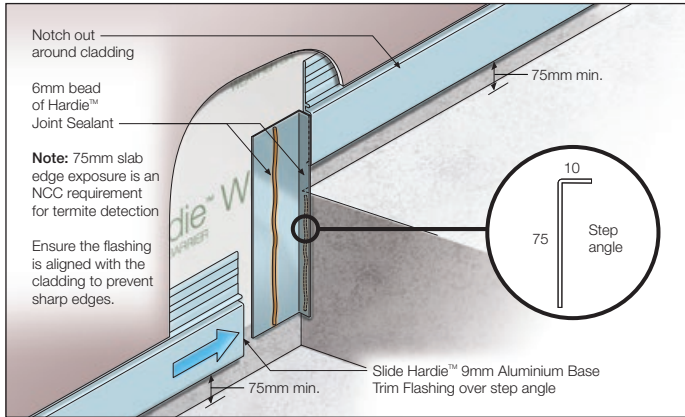


FIGURE 8 SLAB STEP OPTION

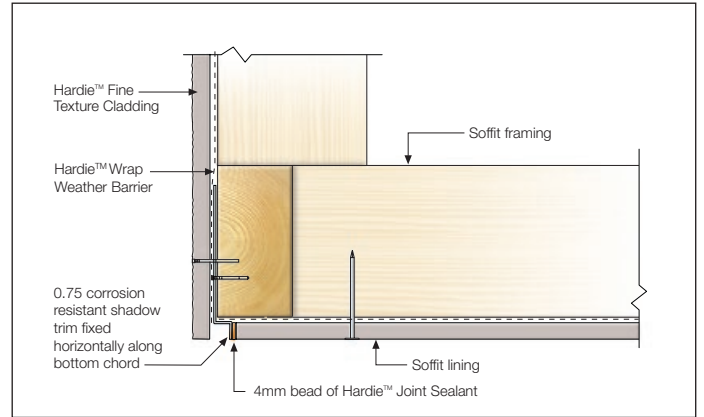


FIGURE 9 FACADE/SOFFIT JUNCTION

EXTERNAL CORNER DETAILS

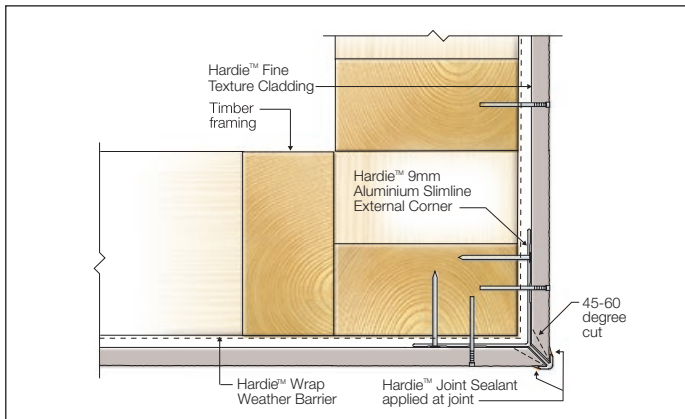


FIGURE 10 SLIMLINE CORNER OPTION

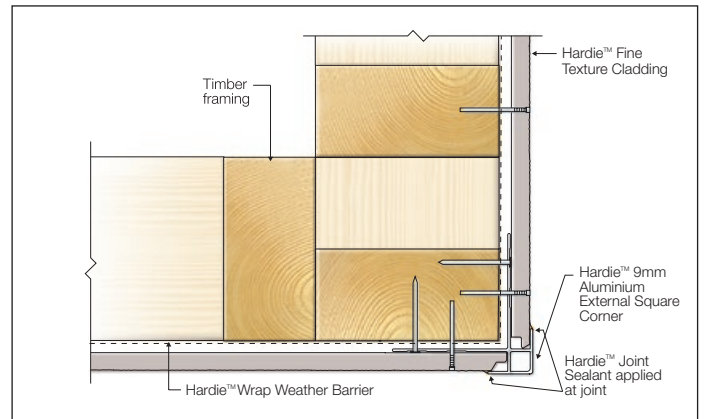


FIGURE 11 ALUMINIUM SQUARE CORNER OPTION

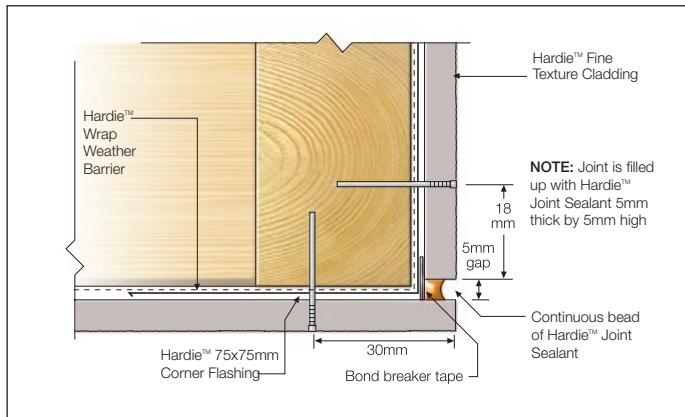


FIGURE 12 SEALANT FILL OPTION

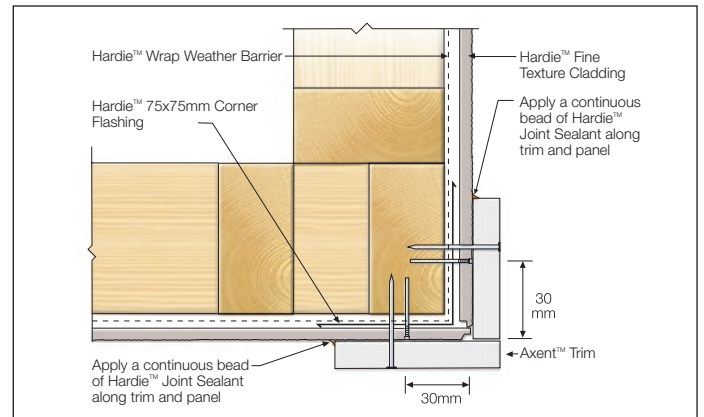


FIGURE 13 TRIM CORNER OPTION

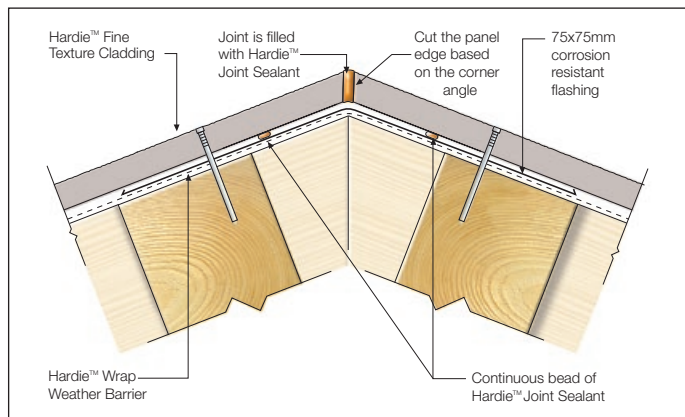


FIGURE 14 SEALANT FILL OPTION - MORE THAN 90° EXTERNAL CNR

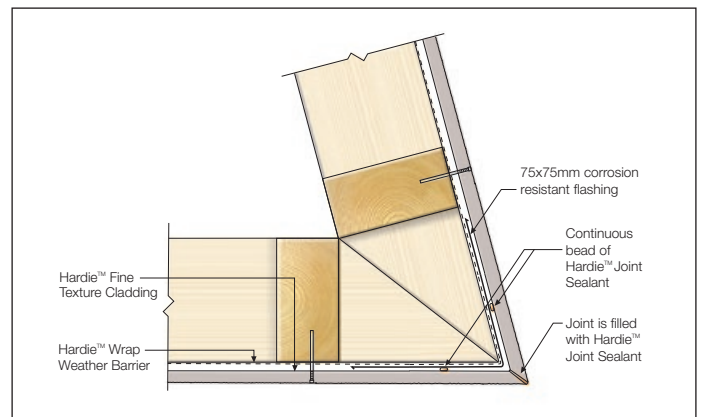


FIGURE 15 SEALANT FILL OPTION - LESS THAN 90° EXTERNAL CNR

## INTERNAL CORNER DETAILS

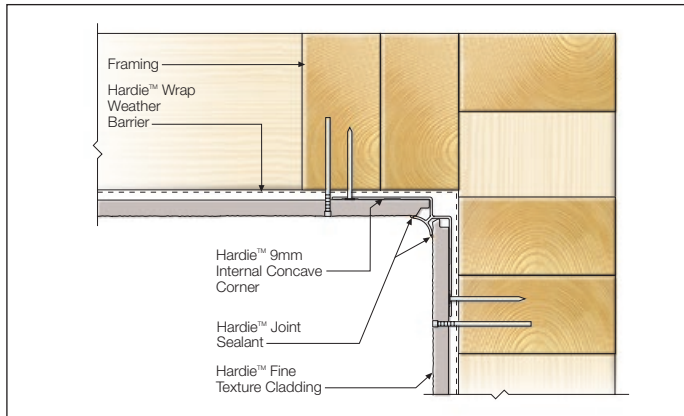


FIGURE 16 ALUMINIUM CORNER DETAIL

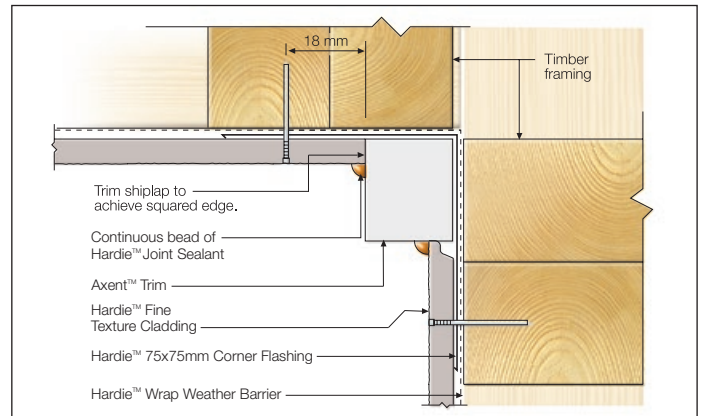


FIGURE 17 TRIM CORNER OPTION

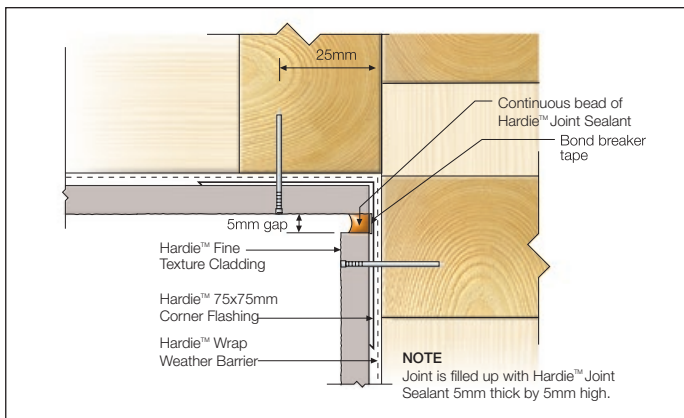


FIGURE 18 SEALANT FILL OPTION

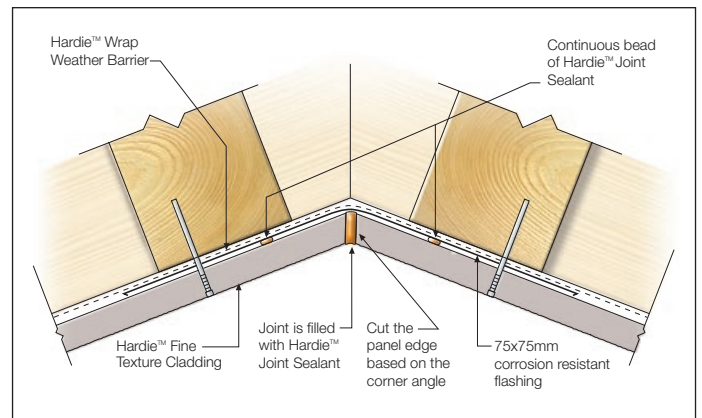


FIGURE 19 SEALANT FILL OPTION - LESS THAN 90° INTERNAL CNR

## WINDOW DETAILS

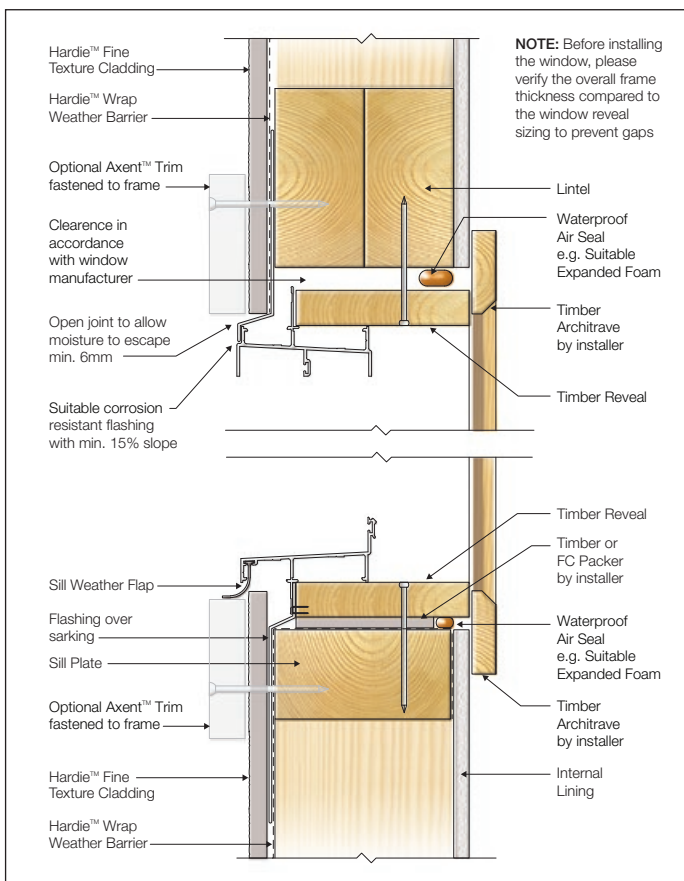


FIGURE 20 WINDOW HEAD AND SILL - TRIM

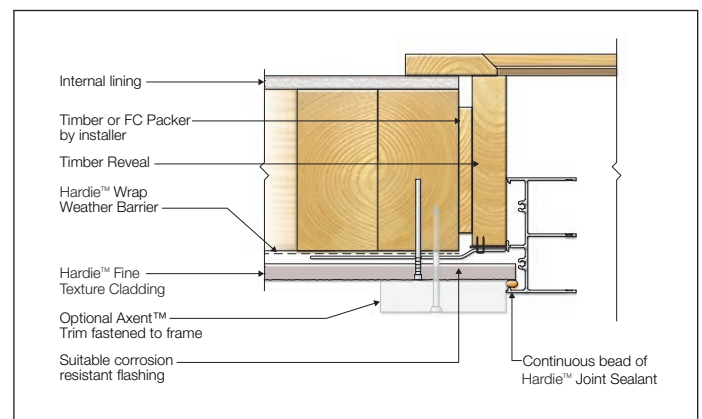


FIGURE 21 WINDOW JAMB - TRIM

# 9 Construction Details - Cavity Fix

## JUNCTION DETAILS

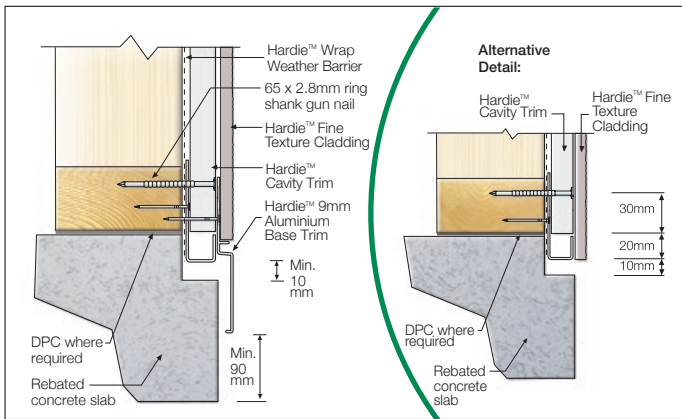


FIGURE 22 ALTERNATIVE SLAB EDGE DETAILS

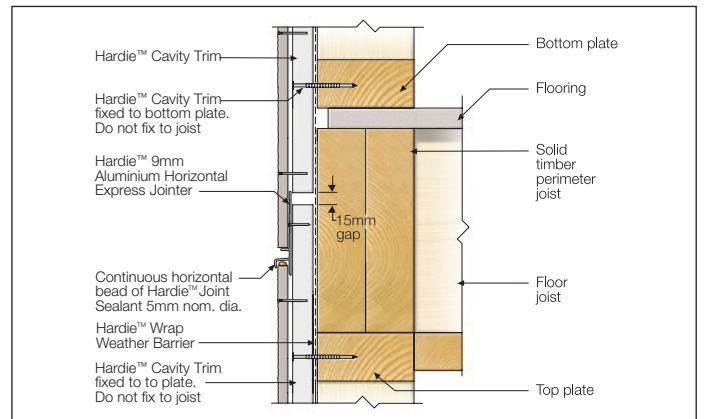


FIGURE 23 FLOOR LEVEL JUNCTION HORIZONTAL EXPRESS JOINTER

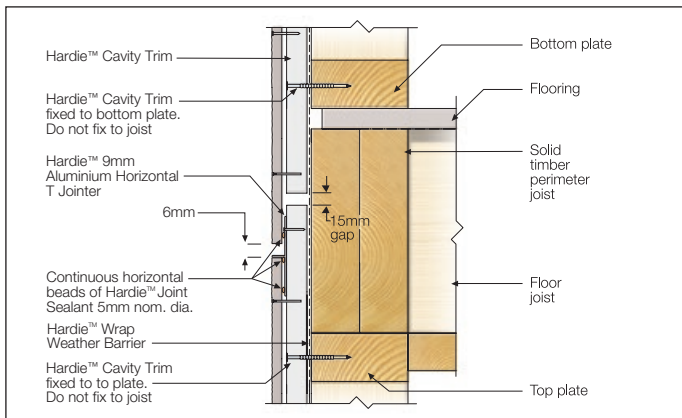


FIGURE 24 FLOOR LEVEL JUNCTION HORIZONTAL T-JOINTER OPTION

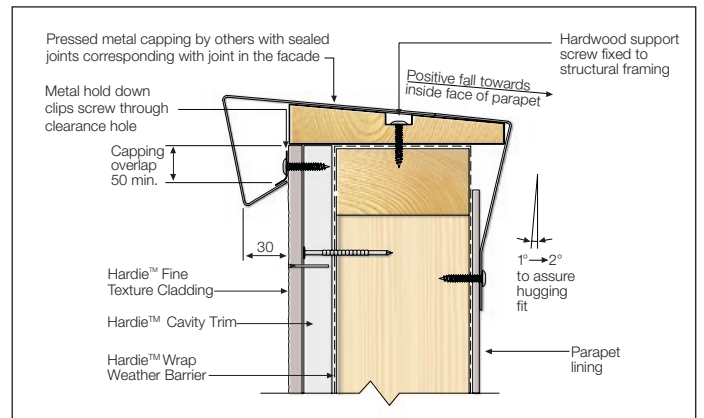


FIGURE 25 PARAPET CAPPING DETAIL

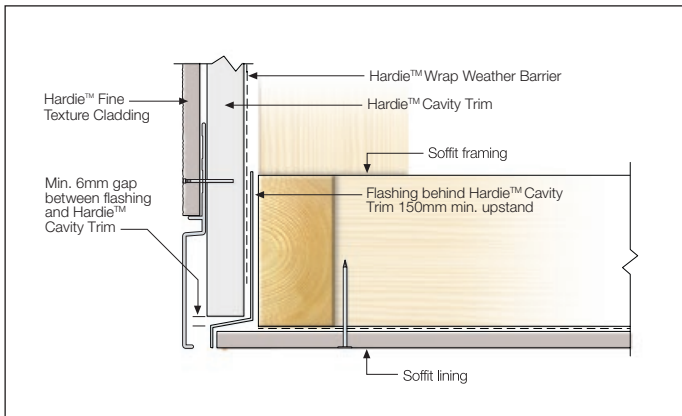


FIGURE 26 FACADE/SOFFT JUNCTION

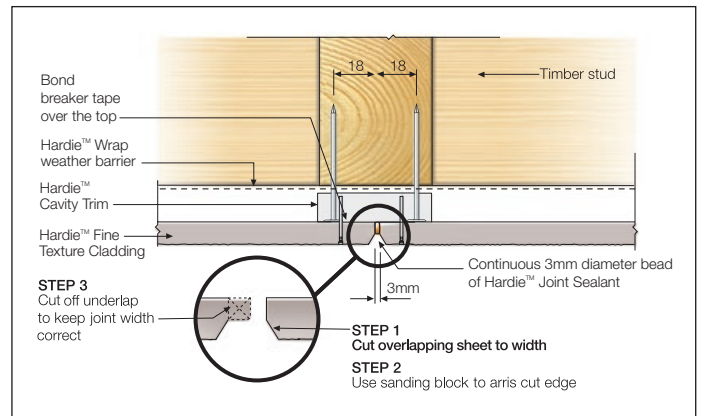


FIGURE 27 VERTICAL BUTT JOINT

## EXTERNAL CORNER DETAILS

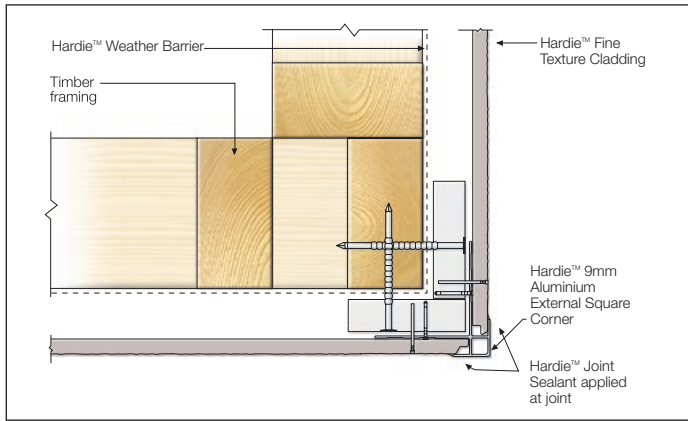


FIGURE 28 ALUMINIUM SQUARE CORNER OPTION - CAVITY TRIM

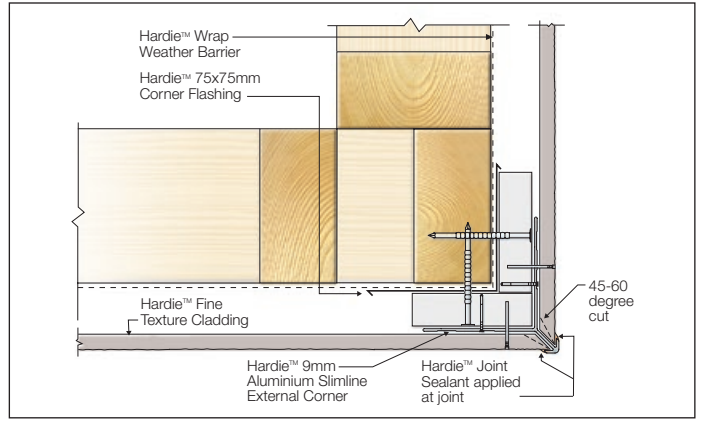


FIGURE 29 SLIM CORNER OPTION - CAVITY TRIM

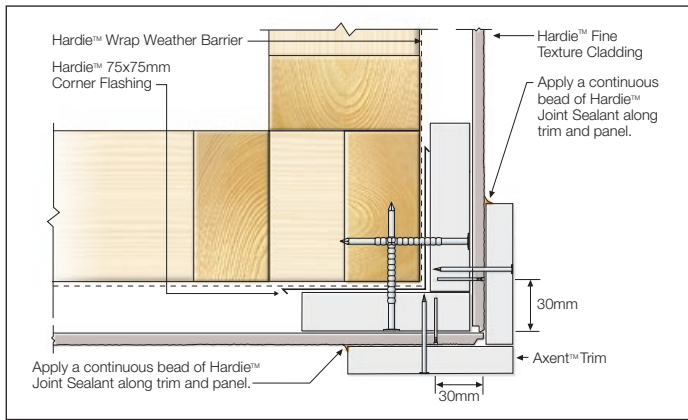


FIGURE 30 TRIM CORNER OPTION - CAVITY TRIM

## INTERNAL CORNER DETAILS

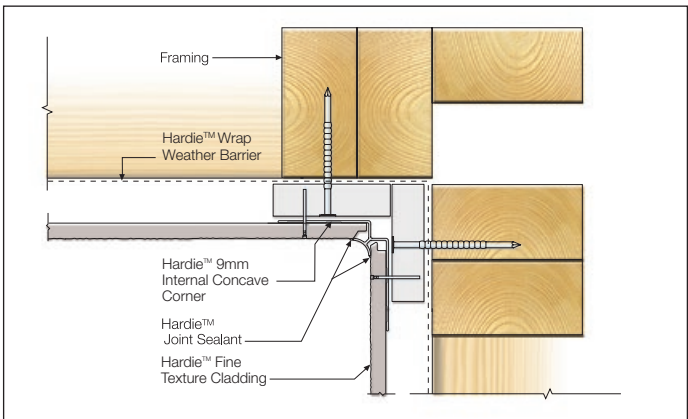


FIGURE 31 ALUMINIUM CORNER DETAIL - CAVITY TRIM

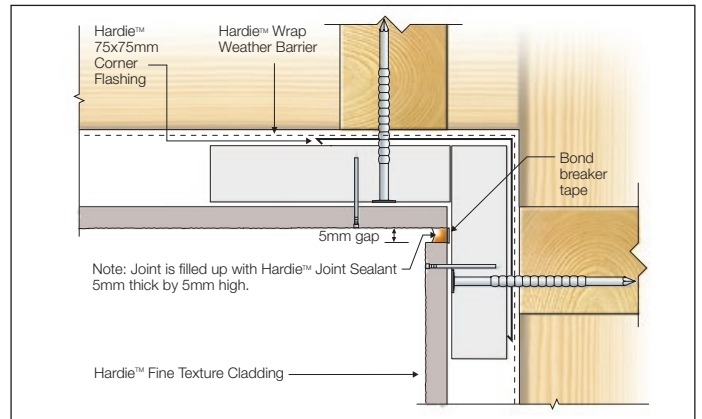


FIGURE 32 SEALANT FILL OPTION - CAVITY TRIM

## WINDOW DETAILS

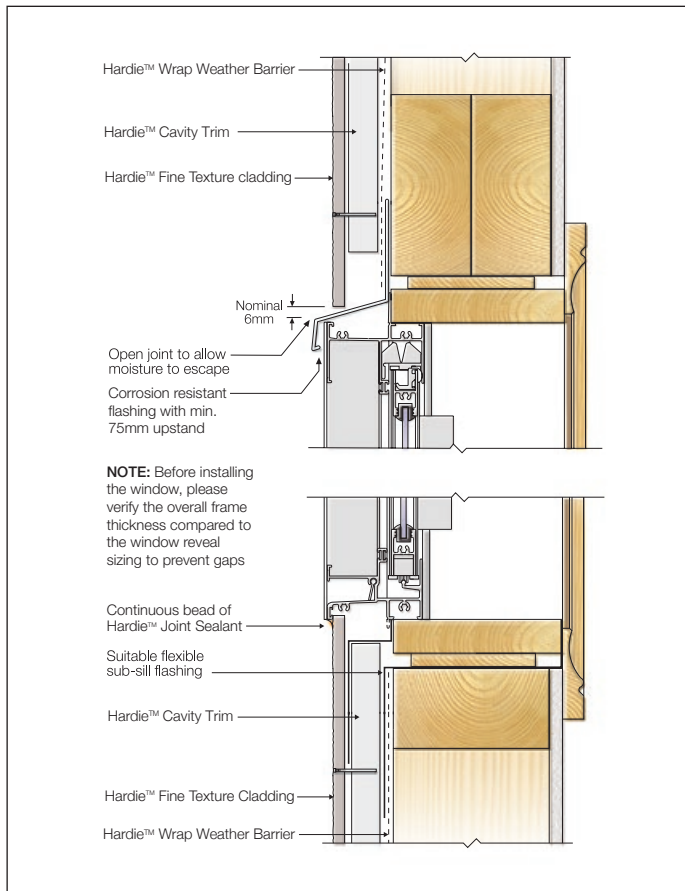


FIGURE 33 WINDOW HEAD AND SILL - CAVITY TRIM

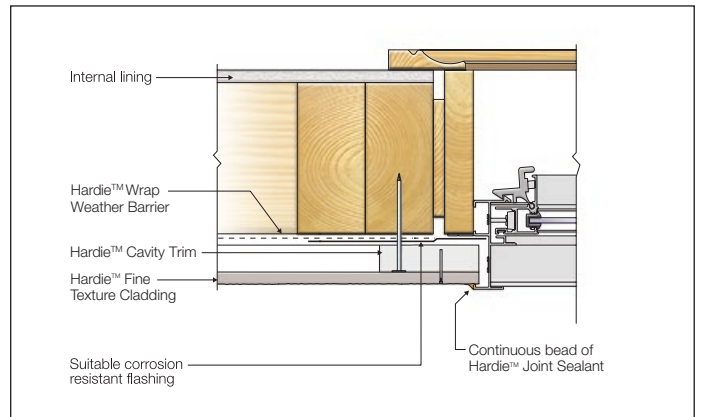


FIGURE 34 WINDOW JAMB - CAVITY TRIM

## INFILLS

Where Hardie™ Fine Texture Cladding is to be used as an infill piece, such as above garage or porticos, refer to the figures below:

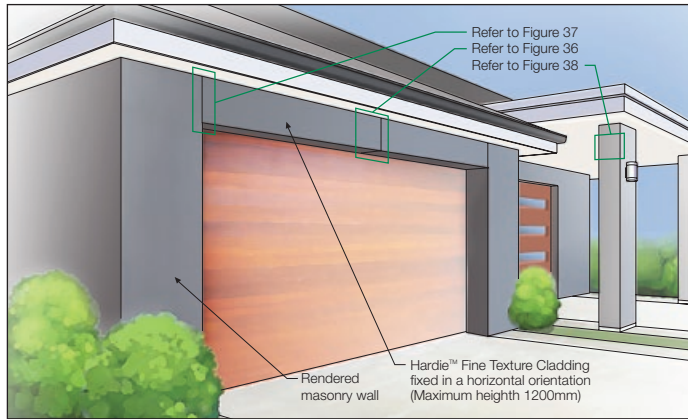


FIGURE 35 GARAGE DOOR DIAGRAM

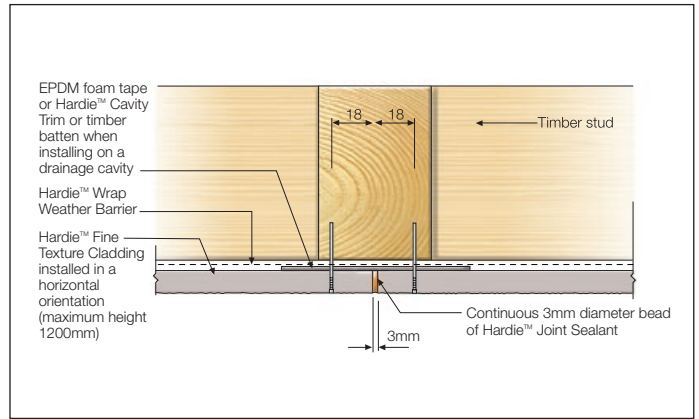


FIGURE 36 VERTICAL BUTT JOINT DIRECT FIX

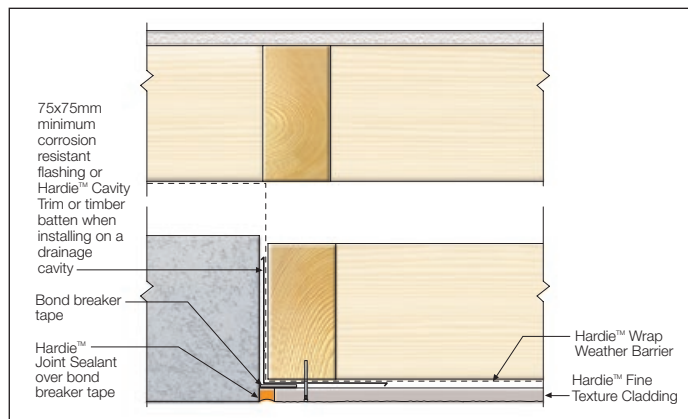


FIGURE 37 MASONRY (E.G. BRICK) ABUTMENT DETAIL

## COLUMN

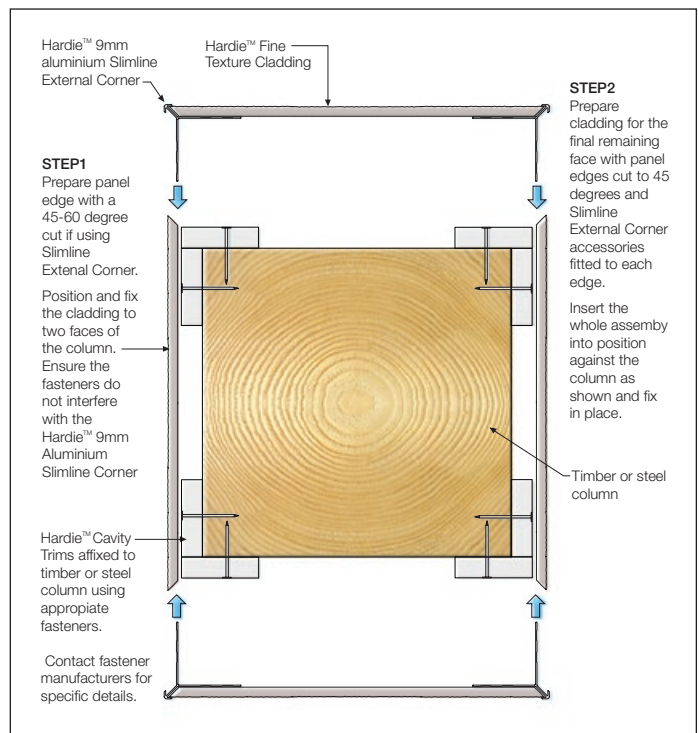


FIGURE 38 FIXING TO TIMBER OR STEEL COLUMN



# 10 Finishes and Maintenance

## SURFACE PREPARATION

Ensure the surface is dry, clean and any overdriven nails are patched in accordance with this specification.

Any slightly overdriven brad nails (1mm max.) may be repaired using a suitable external grade filling agent and blended with the surrounding texture using a sponge or utility pad if required.

### Sealants

James Hardie recommends the use of Hardie™ joint sealant, which is a paintable polyurethane sealant. Use of alternative sealants must comply with manufacturer's instructions. Sealants, if coated, must be compatible with the paint system.

## PAINTING

Panels must be finished within 3 months of being fixed with the recommended coating set out in Table 4 and the project specification. In areas within 1km of a coastal area or corrosive environment, panels must be coated immediately after fixing sheets to minimise contamination build up on the heads of the fasteners.

TABLE 4

Hardie™ Fine Texture Cladding Finishing Requirements	
Flat Acrylic Paints	✓ Exterior acrylic flat paint. A nap roller of 12mm or greater is recommended for optimal finish. For best results, use low-sheen or matt finish exterior paints in natural colours.
Roll-On Texture Paints (1-2mm)	✗ Panels are pre-textured, they are not compatible with textured paints.
Stains & Clear Sealers	✗ Semi-transparent stains can vary in uniformity of appearance depending on method of application and conditions and will require a high level of skill and craftsmanship to achieve a uniform appearance. Clear coats have not proven durable in exterior exposure and James Hardie considers them a maintenance item that may require application of a refurbishing sealer at regular intervals. James Hardie does not warrant the appearance or durability of semi-transparent stains and clear coats.

## 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.

# 11 Product Information

## PRODUCT INFORMATION

### Material

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

Hardie™ fibre cement 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

Hardie™ Fine Texture Cladding have 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)
- Heat rain (Clause 6.5)
- Warm water (Clause 8.2.4)
- Soak dry (Clause 8.2.5)

#### Resistance to fire

Hardie™ Fine Texture Cladding is suitable where non-combustible materials are required in accordance with C1.9 of the National Construction Code (NCC).

Fibre cement products manufactured by James Hardie 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 250m<sup>2</sup>/kg, as referenced in Specification C1.10a of the National Construction Code (NCC).

#### Resistance to Termite Attack

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

### Alpine Regions

In regions subject to freeze/thaw conditions, all 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

Fibre cement products manufactured by James Hardie are tested for resistance to frost in accordance with AS/NZS 2908.2 Clause 8.2.3.



**For information and advice  
call 13 11 03 | [jameshardie.com.au](https://www.jameshardie.com.au)**

**Australia March 2022**

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