

EXTERIORS



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.





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SCOPE

This guide covers the use of Hardie[™] Oblique[™] Cladding Horizontal 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[™] Oblique[™] Cladding has been certified under the CodeMark scheme (Certificate Number CM40223) 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.



1 Introduction

A fresh slant on modern home design.

Evoke a bold, contemporary aesthetic with the wide grooves and bespoke design flexibility of Hardie™ Oblique™ Cladding.

The only Hardie[™] exterior cladding product with a slanted groove edge, delivering highlights and shadows that shift throughout the day.

Available in 200mm and 300mm widths, these 14mm thick shiplap boards offer multiple installation options and can be arranged in alternating or bespoke patterns.

Horizontal Orientation. The cladding boards fixed direct to frame with the shiplap joints making installation simple and fast.

IMPORTANT NOTES

- 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.
- 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 3 Design Considerations

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. 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

- 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.
- 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 P1).

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 P1 dust mask and warn others in the immediate area.

IMPORTANT NOTES

- 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.
- 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. 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™ 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

Hardie[™] Oblique[™] 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	water Barrier	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

Hardie[™] Oblique[™] Cladding 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 Hardie™ Oblique™ Cladding for wind load classifications of AS 4055 'Wind Loads for Housing' are given in Table 3 and 4.

Ensure framing joints are tight and all framing is fully loaded before $Hardie^{TM}$ ObliqueTM Cladding is installed.

FASTENERS

General

All nails must be driven flush. Before fixing to steel frame, ensure the aesthetic finish of Hardie™ Oblique™ 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.

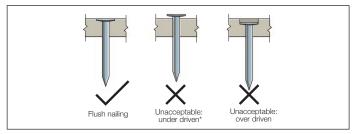


FIGURE 1 NAIL FASTENER DEPTH

* 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). All fastener penetrations must be patched and sanded. Refer to the Finishing and Maintenance section on Page 15.

TABLE 2

General Framing Requirements						
Туре	Timber		Steel			
Design	Use of timber framing must be in acc 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 appropriate for the relevant climate an AS 1684.2 'Residential timber-framed	nd expected service life. Reference	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 frame will give best results.	n a central datum line. A suggested ma	aximum tolerance of between 3mm and	d 4mm in any 3000mm length of		
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.			
ВМТ	N/A.		Framing members must have a base metal thickness (BMT) between 0.55 to 1.6mm.			
Orientation	Horizontal					
Туре	Direct Fix	Cavity Fix	Direct Fix	Cavity Fix		
Min. Stud Width	When using the Stria™ Vertical Stop: -Double 45mm stud, or -Triple 35mm studs 35mm studs elsewhere.	35mm	32mm	32mm		
Min. Stud Depth	70mm 70mm		64mm	64mm		
Max. Nogging Spacing	1350mm	Refer to Table 4	1350mm	Refer to Table 4		
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 Hardie™ Oblique™ Cladding Fixing Options.								
Non- Cyclonic Wind	Cyclonic Wind	Fasteners Details					Max. Stud Spacing (mm)	
		Direct Fix	Cavity Fix (70x35mm timber battens)	Cavity Fix (Hardie™ Cavity Battens)	Configuration	Fixing Figure	General areas of walls	Within 1200mm of building edges
Concealed F	ixing Option	า						
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	600 450 (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	600 450 (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		-	1 per board-through face	2	600	450
N5, N6	C3, C4	(Ring-Shank)	-	-	2 per board-through face	2	450	300

 $^{^{\}star}$ 50 x 2.5mm Coil Ring Shank Nails are only suitable for cavity fix when the 70x35mm timber battens are installed on-stud.

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 $^{\! \text{TM}}$ 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 $^{\text{TM}}$ Cladding. Refer to the Hardie $^{\text{TM}}$ Break Thermal Strip Installation Guide for more information.

TABLE 4

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:

 $^{^{\}star}$ Denotes x1 fastener per intersection of batten with nogging and top/bottom plates; ** and *** denote two and three of the same fasteners.

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

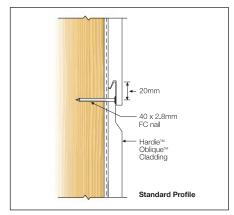


FIGURE 1 CONCEALED FIXING FOR STANDARD PROFILE

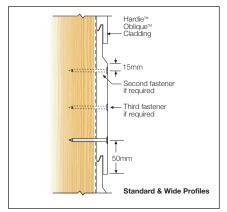
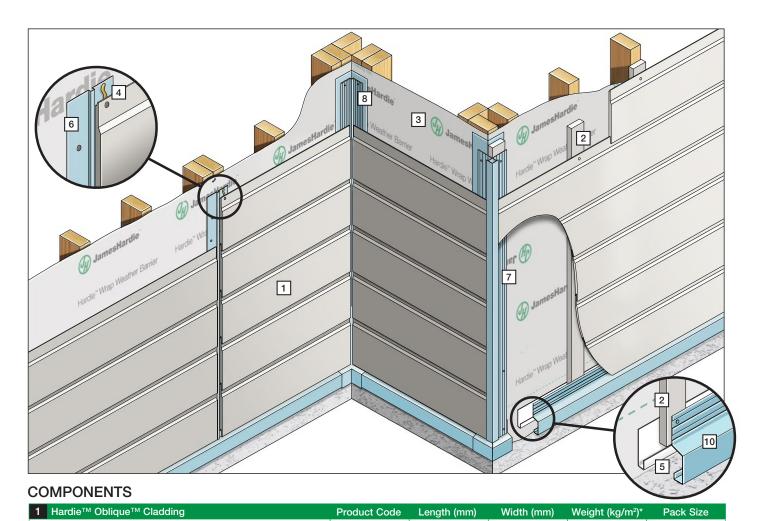


FIGURE 2 FACE FIXING GUN & BRAD NAILS

4 Products and Accessory Details



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



3 Hardie[™] Wrap Weather Barrier

Pre-sealed 14mm thick shiplap boards with

unique square and angled groove edges to

cast shadows and deliver highlights.

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

405503

405301

405303



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

300

200

300

3000

4200

4200



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

5 Hardie™35mm PVC Cavity Vent Strip

18.8

18.4

18.8



45

45

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

External Corner Options -

7 Hardie[™] 14mm



Aluminium External

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

7 Hardie[™] 14mm Aluminium External Slimline Corner



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

Internal Corner Options 8 Hardie[™] 14mm



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

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

9 Hardie[™] Trimline Flashing



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

Hardie™ FoamBack 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 Hardie™ Oblique™ Cladding Cladding.

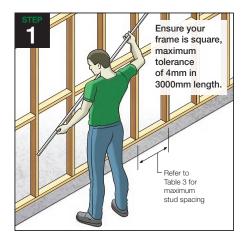
Gun Nails and Nailers

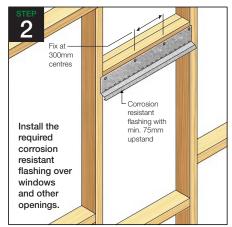


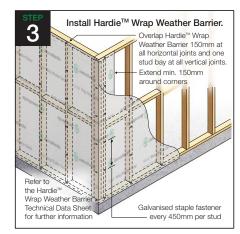


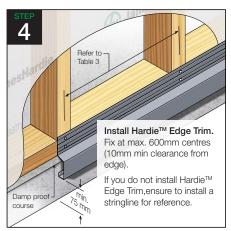
Suitable gun nails and nailers for face fixing to timber framing only. Minimum nail length of 50mm is required. Minimum class 3.

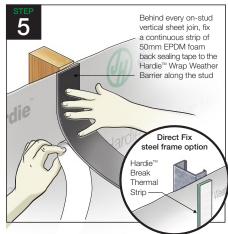
5 Cladding Installation Steps* - Direct Fix

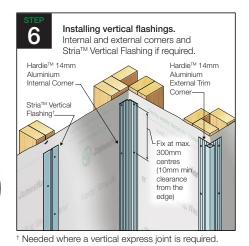


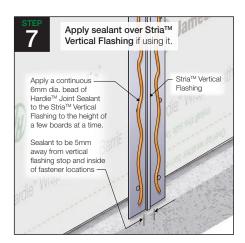


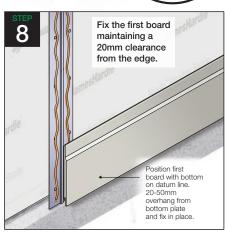




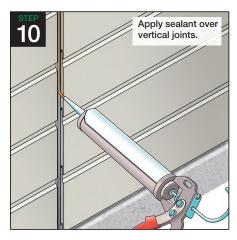












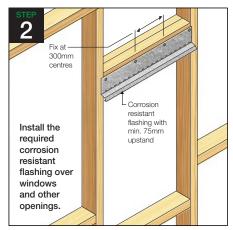




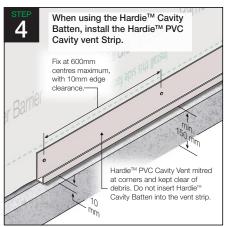
^{*}This is an overview of the installation process only. It is not a substitute for reviewing this document in its entirety prior to installation.

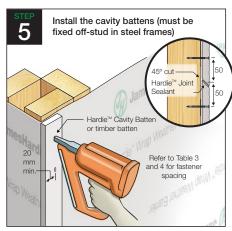
6 Cladding Installation Steps* - Cavity Fix

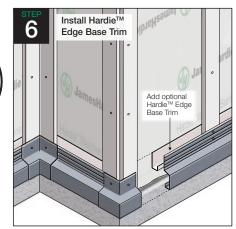


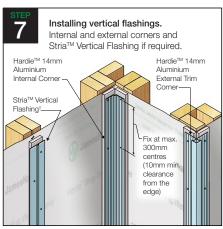


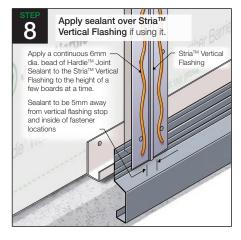


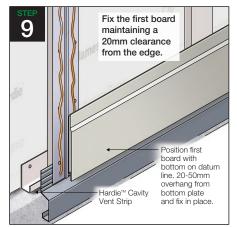


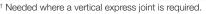


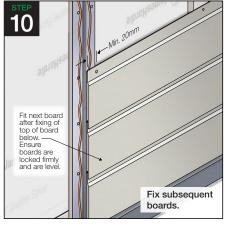












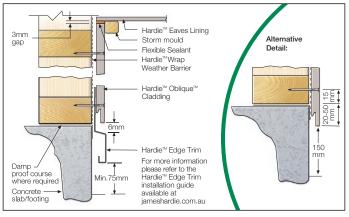




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7 Construction Details - Direct Fix

JUNCTION DETAILS



Hardie™ Wrap
Weather Barrier
Hardie™ Oblique™
Cladding

Damp proof
course where
required

Wall frame
Secura™ Interior
Flooring

The panels must not continue
over a floor junction or where
excessive movement or creep
will occur.

FIGURE 1 SLAB/EAVE JUNCTION DETAIL

Hardie™ Wrap Weather Barrier
overlapping flashing

Hardie™ Oblique™
Cladding

Suitable corrosion
resistant metal
flashing

Masonry wall

Timber frame

FIGURE 2 LOWER FLOOR JUNCTION

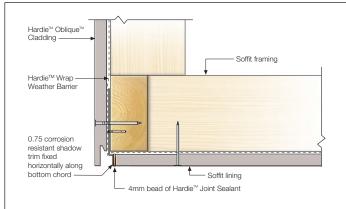
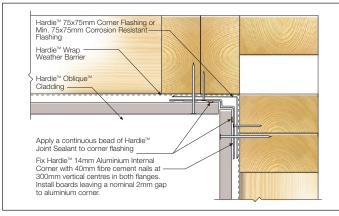


FIGURE 3 HORIZONTAL JUNCTION

FIGURE 4 FACADE/SOFFIT JUNCTION

INTERNAL CORNER DETAIL



Hardie™ Wrap
Weather Barrier

Hardie™ Oblique™
Cladding

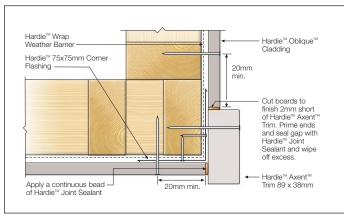
Apply a continuous bead of Hardie™
Joint Sealant to corner flashing

Fix Hardie™ 75mm Corner Flashing with 40mm
fibre cement nails at 300mm vertical centres in
both flanges. Cut compound angle mittre to
boards. Prime ends and join with sealant.
Push tightly together and wipe off excess sealant.

FIGURE 5 INTERNAL CORNER

FIGURE 6 INTERNAL MITRE CORNER

EXTERNAL CORNER DETAILS



Hardie™ Wrap
Weather Barrier
Hardie™ 75x75mm
Corner Flashing or
Min. 75x75mm Corrosion
Resistant Flashing

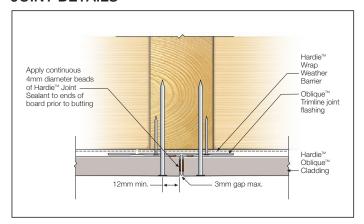
Fix Hardie™ 14mm
Aluminium External
Box Corner with
40mm fibre cement
nails at 300mm
vertical centres in
both flanges

Install boards leaving
a nominal 2mm gap
to aluminium corner
and seal with Hardie™
Joint Sealant to corner flashing

FIGURE 7 EXTERNAL TRIM CORNER

FIGURE 8 EXTERNAL BOX CORNER

JOINT DETAILS



Apply continuous 4mm diameter beads of Hardie™ Joint Sealant to ends of board prior to butting. Wipe off any excess. Hardie[™] Wrap Weather Barrier Ensure gap is completely sealed with sealant. Hardie™ Oblique™ 3mm gap max. Cladding

FIGURE 9 VERTICAL JOINT DETAIL

Hardie™ Wrap Weather Barrier Apply continuous beads of Hardie™ Joint Sealant to the corners Stria[™] Vertical Flashing Hardie™ Oblique™ Cladding 12mm min. — 4

FIGURE 10 OFF-STUD JOINT

Hardie™ Oblique™ Cladding -

Hardie[™] Wrap Weather Barrier

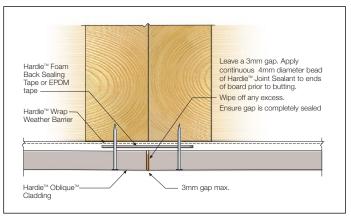


FIGURE 11 VERTICAL JOINT USING STRIA™ VERTICAL **FLASHING STOP**

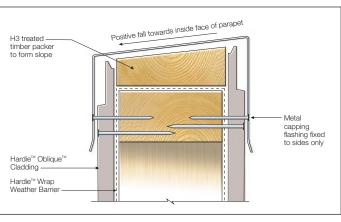
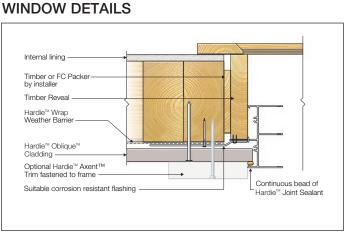
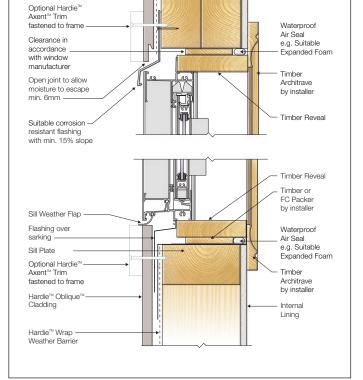


FIGURE 12 HARDIE™ FOAM BACK SEALING TAPE DETAIL

FIGURE 13 PARAPET DETAIL





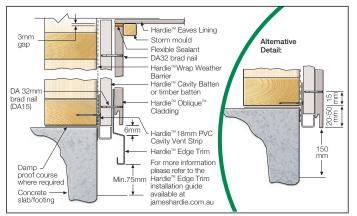
Lintel

FIGURE 14 WINDOW JAMB - TRIM

FIGURE 15 WINDOW HEAD AND SILL - TRIM

8 Construction Details - Cavity Fix

JUNCTION DETAILS



Wall frame Hardie[™] Wrap Weather Barrier Alternative Detail: Secura™Interior Flooring Hardie[™] Oblique[™] Oblique™ Cladding Hardie™ Cavity Batten fixed to bearer. Do not fix to joist fixed to bearer. Do not fix to joist ND/DA 50mm Brad nail
Hardie™35mm PVC
Cavity Vent Strip 20mm to 50mm overhang † The panels must not continue Hardie[™]18mm — PVC Cavity Vent Strip over a floor junction or where excessive movement or creep Damp proof will occur, see Figures 25 and 26. required

FIGURE 16 SLAB/EAVE JUNCTION DETAIL

FIGURE 17 LOWER FLOOR JUNCTION



Hardie[™] Oblique[™]
Cladding
Hardie[™] Cavity
Batten or timber
batten
Hardie[™] Wrap
Weather Barrier

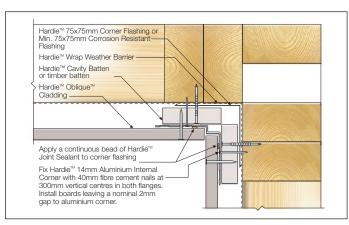
0.75 corrosion
resistant shadow
trim fixed
horizontally along
bottom chord

4mm bead of Hardie[™] Joint Sealant

FIGURE 18 HORIZONTAL JUNCTION

FIGURE 19 FACADE/SOFFIT JUNCTION - CAVITY FIX

INTERNAL CORNER DETAIL



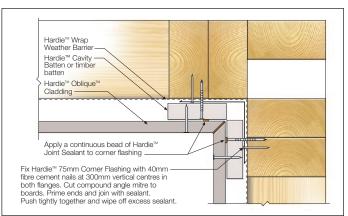
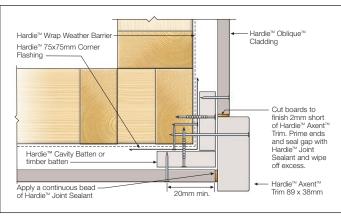


FIGURE 20 INTERNAL CORNER

FIGURE 21 INTERNAL MITRE CORNER

EXTERNAL CORNER DETAILS



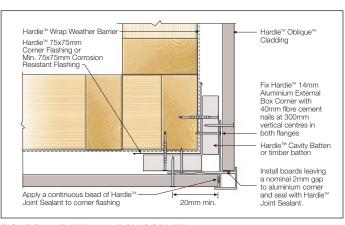
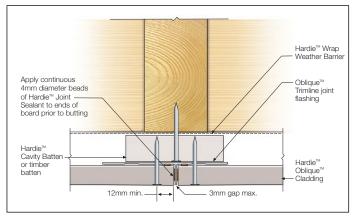


FIGURE 23 EXTERNAL BOX CORNER

FIGURE 22 EXTERNAL TRIM CORNER

JOINT DETAILS



Apply continuous 4mm diameter beads of Hardie™ Joint Sealant to ends of board prior to butting. Wipe off any excess.

Hardie™ Cavity Batten or timber batten

Hardie™ Oblique™

3mm gap max.—

Cladding

FIGURE 24 VERTICAL JOINT DETAIL

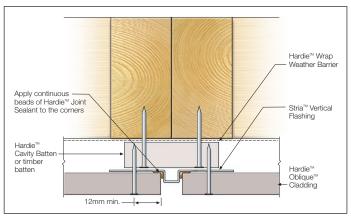


FIGURE 25 OFF-STUD JOINT

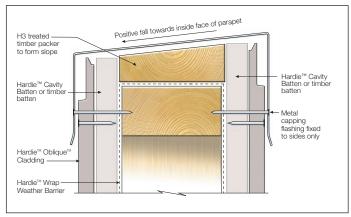


FIGURE 26 VERTICAL JOINT USING STRIA™ VERTICAL FLASHING STOP

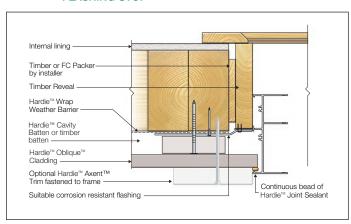


FIGURE 28 WINDOW JAMB - TRIM

FIGURE 27 PARAPET DETAIL

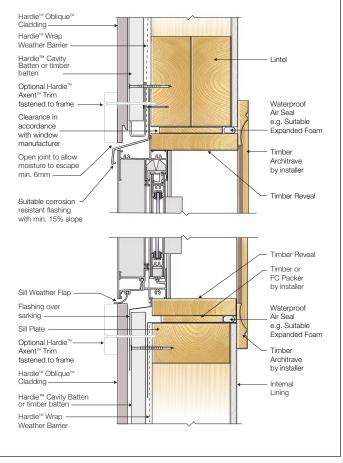


FIGURE 29 WINDOW HEAD AND SILL - TRIM

9 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. All patches must be sanded and primed before applying the 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.

PAINTING

Panels must be finished within 3 months of being fixed with the recommended coating. In areas within 1km of a coastal area or corrosive environment, panels must be coated within 7 days of fixing sheets to minimise contamination build up on the heads of the fasteners.

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

Hardie[™] Oblique[™] 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)
- Heat rain (Clause 6.5)
- Warm water (Clause 8.2.4)
- Soak dry (Clause 8.2.5)

Resistance to fire

The Hardie[™] Oblique[™] 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 250m²/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 $^{\text{TM}}$ 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 Hardie™ Oblique™ Cladding Horizontal Installation Guide, this checklist has been created to assist you in the installation of Hardie™ Oblique™ 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 Hardie[™] Oblique[™] 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 Hardie[™] Oblique[™] Cladding Horizontal Installation Guide.

Project location: Installer:					
Project Wind Category: N1	& N2 N3/C1	N4/C2 N5/C3 N6/C4	Fixing method: Face Fix	ing Concealed Fixing	
Frame Material: Timber Ste	el Masonry Batter	Spacing (mm): 900 600 450	Stud Spacing (mm): 600	450 300 Board Fastener:	
Batten Fastener:	No. of	Board Fasteners: 1 2 3 C	corrosive environment: Yes	s - Less than 1km to coastal area \mid Yes - Other \mid No	
Stage Diagram		Requirement	Reference	Completed Comments	
		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	
Planning		Vertical joint location Plan the location of vertical joints to align with the house design.	Page 9 - Step 6 Page 10 - Step 7	YES NO	
	0	Window/door reveal sizing Verify overall frame thickness compared to window reveal sizing.	Page 12 - Fig 14 and 15 Page 14 - Fig 28 and 29	YES NO	
		- Customized flashing Determine the geometry of flashings over openings.	Page 9 and 10 - Step 2	YES NO	
		Verify the maximum stud spacing based on the projects wind category.	Page 5 - Table 3	YES NO	
		Noggin Spacing Ensure the noggins are within the maximum allowed.	Page 4 - Table 2	YES NO	
Framing Preparation		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	
A		Ground Clearance Frame installed considering minimum distance to the ground.	Page 3 - Ground clearances	YES NO	
		- Windows/doors installed Windows and doors installed to manufacturers specification.	Page 12 - Fig 14 and 15 Page 14 - Fig 28 and 29	YES NO	
3/1.4	0	- Hardie [™] Wrap Weather Barrier Installed in accordance with the product's installation guide.	Page 9 - Step 4 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	
Pre-Cladding	olyte Head	Cavity trims or timber battens (cavity fix only) Vertical battens installed.	Page 10 - Step 5	YES NO	
	O lesh	- Corner installation Internal and external corner accessories installed.	Page 9 - Step 6 Page 10 - Step 7	YES NO	
	Hardy Sherry	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 13 - Fig16	YES NO	

11 Site Installation Checklist cont.

Stage	Diagram	Requirement	Reference	Completed	Comments
		Sealant applied over vertical flashing Hardie™ Joint Sealant applied over vertical battens.	Page 9 - Step 7 Page 10 - Step 8	YES NO	
		Fastener Spacing Fastener spacing within the maximum based on wind category.	Page 5 - Table 3	YES NO	
Cladding Installation		Edge clearance Fasteners within the maximum distance from panel edges.	Page 9 - Step 8 and 9 Page 10 - Step 9 and 10	YES NO	
		Sealant over vertical joints RII vertical joints sealed with Hardie™ Joint Sealant.	Page 9 - Step 10 Page 10 - Step 11	YES NO	
		Sealant behind corners All corners sealed with Hardie™ Joint Sealant.	Page 11 - Fig 5 - 8 Page 13 - Fig 20 to 23	YES NO	
Painting		Surface imperfections repaired All imperfections and over-driven nails are fixed.	Page 15 - Section 10	YES NO	
		Wall painted Wall painted within the maximum recommended time.	Page 15 - Section 10	YES NO	

Notes



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

Australia April 2025

