



Technical Specification

External Cladding

Primeline™ Weatherboard
Heritage and Chamfer profiles

Hardie™ Plank Weatherboard

Hardie™ Flex Sheet

EXTERIORS

Australia September 2025

Make sure your information is up to date.

When specifying or installing Hardie™ products, ensure that you have the current technical information and guides. If in doubt, or you need more information, visit www.jameshardie.com.au or Ask James Hardie™ on 13 11 03.

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1 Introduction

1.1 APPLICATION

The good looking, versatile sheets, weatherboards and planks made in Australia by James Hardie are ideally suited to the local conditions that shape our homes, towns and cities.

With their inherent design flexibility, Hardie™ fibre cement products contribute to inspirational new homes, renovations and commercial buildings. The simple lines of individual products can enhance classic, period or contemporary designs. Whatever the style, using Hardie™ fibre cement products will ensure it needs little maintenance, over a long life.

Hardie™ fibre cement building materials are resistant to rotting, fire, or permanent water and termite damage, when installed and maintained in accordance with James Hardie's published installation instructions.

They are also easy to work with, durable and low maintenance. These qualities make them the ideal choice for homeowners and renovators as well as professional builders, designers and architects.

The specifier or other party responsible for the project must ensure the details in this specification are appropriate for the intended application and additional detailing is performed for specific design or any areas that fall outside the scope and specifications of this manual.

1.2 MATERIAL SELECTION

1.2.1 General

The comprehensive range of materials available to clad houses, and the way in which these options can be combined and joined, gives designers and builders a wide choice of low maintenance solutions to suit virtually any requirement. Products are manufactured in two main forms: sheets and weatherboards or planks. These products come in various thicknesses and, in the case of weatherboards and planks, widths and profiles.

Applications include all forms of external cladding to suit all types of construction including ground level and upper storey extensions, gable ends and feature walls.

1.2.2 Hardie™ Flex sheet

Hardie™ Flex Sheets have square edges and come in two thicknesses, 4.5mm and 6mm, and in a variety of lengths that can be easily trimmed to length on site.

Hardie™ Flex Sheets are normally jointed with a PVC straight joint mould and finished at corners with surface mounted PVC corner moulds.

1.2.3 Primeline™ Weatherboard

Primeline™ Weatherboards are available in three milled profiles that are 9mm thick and finished with a high quality prime coat that saves the painter time on site.

2 Framing, Fixing and Installation

The Heritage profile is a double width board that allows faster wall coverage. The Heritage and Chamfer profiles have rebated edges that create a shadow line effect.

Easy to use aluminium snap-on corners and variable corner accessories are available to give a neat, attractive finish.

1.2.4 Hardie™ Plank Weatherboard

Hardie™ Plank Weatherboard is available in two 7.5mm thick profiles. Woodgrain is available in two widths, 230 and 300mm and has a traditional woodgrain finish; Smooth is available in the same widths, with a smooth finish and straight, modern lines.

1.2.5 Successful installation

The correct design of the supporting framework and correct selection and fixing of the sheet, weatherboard or plank cladding material, will contribute to the overall success of all Hardie™ external cladding systems described in this manual.

This manual contains separate sections covering the various types of cladding suitable for both single and multi storey houses.

1.2.6 Finishes

Primeline™ Weatherboard comes pre-primed and can be readily installed for faster on site finishing. To ensure the durability of Hardie™ external cladding products, the exterior surface must be finished with a suitable paint or texture system in accordance with the coating manufacturer's written recommendations for fibre cement substrates.

Stains containing linseed oil are specifically designed for wood and may not be suitable for fibre cement cladding products, primed or unprimed. 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.

2.1 FRAMING

2.1.1 General

Sheets, weatherboards and planks can be fixed to either timber or light gauge domestic type steel framing. The framing used must comply with the relevant building regulations and standards and the requirements of this manual.

Frames must be straight and true to provide a flush face to receive the sheeting. A suggested maximum tolerance of between 3mm and 4mm in any 3000mm length of frame will give best results. Sheets, weatherboards and planks will not straighten excessively warped or distorted frames and any warping may still be visible after the external cladding is applied.

2.1.2 Timber

'Timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life and conditions including exposure to insect attacks or to moisture, which could cause decay.'

Reference AS1684.2 'Residential Timber Framed Construction'.

Use only seasoned timber. Unseasoned timber must not be used as it is prone to shrinkage and can cause sheets, weatherboards, planks and frames to move.

NOTE

Refer to separate products for minimum framing widths.

2.1.3 Steel

The base metal thickness of a steel frame must be between 0.55 and 1.6mm (BMT).

NOTE

Refer to separate products for minimum framing widths.

2.1.4 Thermal Break

For steel frames, the National Construction Code (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. James Hardie recommends the Hardie™ Break thermal strip. Refer to the Hardie™ Break thermal strip installation guide for more information.

2.2 FIXING

2.2.1 General

Select the fastener suitable for the required framing from the appropriate product section depending on the type of framing, either timber or metal. (Refer to Sections 3, 4 or 5.)

NOTE

At least Class 3 external grade finish fasteners must be used for all external applications.

2.2.2 Fastener durability

Fasteners must have the appropriate level of durability required for the intended project. This is particularly important in coastal areas located within 1km of the shoreline or large expanses of salt water, areas subject to salt spray and other corrosive environments.

Fasteners must be fully compatible with all other materials that they are in contact with to ensure the durability and integrity of the assembly.

Contact fastener manufacturers for more information.

2.2.3 Adhesives

Adhesives must not be used to attach sheets, weatherboards or planks to the frame.

NOTE

Fasteners must not be overdriven as this can reduce the holding capacity of the cladding. If the nailing depth cannot be controlled adequately when gun nailing, under-drive fasteners then tap flush with a hammer. Refer to Figure 1.

When gun nailing, refer to Table 1.

TABLE 1

RECOMMENDED GUN NAILING				
COIL NAILER		NAILS		
Manufacturer	Name	Manufacturer	Name	Size
Hitachi	VH650 coil nailer	Otter	Galv. coil nail	38mm x 2.5mm dia. (6mm Hardie™ Flex only) 45mm x 2.2mm dia. 50mm x 2.2mm dia.
Paslode	Impulse compact nailer (B20544)	Paslode	Impulse DekFast® 50mm Value Pack (B20561V)	50mm x 2.87mm dia.
			Impulse DekFast® 50mm Handy Pack (B20557)	50mm x 2.87mm dia.
Duo-Fast	KD665A coil nailer (Part No. D40040)	Duo-Fast	C27/32 GD coil nail (D41800)	32mm x 2.7mm dia. (6mm Hardie™ Flex only)
Stanley-Bostitch	N80C coil nailer	Stanley-Bostitch	AC45P250 gal coil nail	45mm x 2.5mm dia.
Senco	SCN-60 coil nailer (fitted with adjustable depth of drive)	Senco	BTN 45 ADB Weatherex gal and Sencoted	45mm x 2.5mm dia.
Airco	Airco coil nailer	Airco	AC50R250 ring shank, gal coil nail	50mm x 2.5mm dia.

* This nail will also fit the Bostitch N80C coil nailer.

NOTES

1. Fasteners with equivalent dimensions, (ie head size and shape, shank diameter and length to those above) are acceptable for use.
2. All fasteners are to be galvanised or suitably coated for intended external application.
3. Nailing guns must be fitted with flush drive attachments.
4. Some nailing guns incorporate an adjustable head set to control nail depth (eg Duo-Fast coil nailer and Senco coil nailer).
5. When gun nailing, apply pressure to the face of the cladding by holding the cladding against the stud to reduce blow out at back of the cladding.

Nail gun manufacturers have supplied the information contained in this table. Should a nail gun model or nail shown in the table not be available, please contact the relevant nail gun manufacturer for advice.

If the nail gun overdrives sheets, contact nail gun manufacturer for advice.

2.2.4 Steel

Fasteners should be screwed as close as possible to the stud corners to avoid deflection of the stud flange. Refer to Figure 2.

2.2.5 Screw gun specification

Use variable speed screw guns with high torque, a maximum speed of 2500rpm, fitted with a depth control attachment.

Set the depth control attachment to avoid overdriving. As the screw thread begins to pull into the steel frame, drop the revs back to bed the head flush with the surface of the sheet.

2.3 INSTALLATION

2.3.1 Moisture management

2.3.1.1 General

It is the responsibility of the builders and designers to identify moisture related risks associated with any particular building design.

It is the responsibility of the builder to ensure appropriate moisture management is provided during framed wall construction through effective use of flashings, sealants and vapour permeable membranes such as vapour permeable sarking, building wraps, vapour retarders and damp-proof course. Before installing cladding, all wall openings, penetrations, intersections, 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, building codes and the manufacturer's specifications.

2.3.1.2 Flashing

Where sheets, weatherboards or planks are finished against horizontal flashings, ensure the underside of the external cladding is a minimum of 50mm clear of the horizontal leg of the flashing. Ensure the fibre cement cladding will not sit in ponding water and the flashing is installed in an acceptable method to prevent water running up behind the sheeting to ingress into framing. Refer to Figure 3.

2.3.1.3 Weather Barrier

A suitable water control membrane must be installed under Hardie™ external 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':

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.

2.3.2 Sealant jointing

Sealant jointing can be used to joint sheets, weatherboards and planks.

When filling joints with sealant, cut the nozzle of the cartridge to suit the specified gap between the sheets, weatherboards and planks. Mask the edges with easily removable masking tape. Then apply the sealant in an upward motion, pushing the sealant into the gap to fill it. Carry this operation out slowly to ensure the sealant completely fills the gap and bonds to the edges of the cladding. Run a spatula over the joint, carefully wiping away the excess sealant. Carefully remove the masking tape immediately after you complete the sealant application.

NOTE

Do not use a mix of sealant types to fill joints. Use of Hardie™ polyurethane joint sealant is recommended.

2.3.3 Painting

Contact paint manufacturers for specific advice on paint systems that are compatible with the fibre cement claddings outlined in this manual.

Hardie™ external cladding must be painted within 90 days of installation.

James Hardie does not recommend tiling in an external application.

NOTE

When painting PVC accessories, ensure the paint has a Light Reflective Value (LRV) greater than 40%. Refer to the texture coat manufacturer for the paint's LRV.

2.3.4 Ground clearances

Install Hardie™ external cladding with a minimum 150mm clearance to the earth on the exterior of the building as shown in Figure 4 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 minimum 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 Clause 2.3.5.

2.3.5 Termite protection

The National Construction Code (NCC) specifies the requirements for termite barriers and must be complied with. 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.

3 Sheet Cladding

3.1 GENERAL

For general information on framing, fixing and installation refer to Section 2.

To determine which accessories are required, refer to Section 8.

For flashing, sarking and rising damp requirements refer to Clause 2.3.

Unless otherwise noted, details in this section apply to both Hardie™ Flex Sheets.

Fix sheets to studs and top and bottom plates with nails or screws.

3.2 BRACING

Hardie™ Flex Sheets can also be used as structural bracing. Refer to the Hardie™ Structural Bracing Application Guide or for further information Ask James Hardie™ on 13 11 03.

NOTE

4.5mm thick Hardie™ Flex Sheets must not be used as bracing.

3.3 FIXING

3.3.1 General

The minimum width of studs at Hardie™ Flex Sheet joints must be 42mm for timber and 38mm for steel.

Where a stud is less than the required minimum width under a joint, sufficient landing must be provided by planting an additional stud or continuous packer to the side of the stud affected.

Where sheets are not used as sheet bracing, locate fasteners at centres given in Table 2, around the perimeter, and on the intermediate stud.

Fasteners must not be less than 12mm from sheet edges and 50mm from corners. Refer to Figure 5.

3.3.2 Timber

When hand nailing - use 2.8 x 30mm fibre cement nails for fixing 4.5mm and 6mm thick Hardie™ Flex Sheets.

3.3.3 Steel

For steel framing thickness of 0.5mm – 1.6mm BMT – use 41mm Hardie™ Drive Screws.

NOTE

Self embedding head screws must not be used in 4.5mm thick sheets.

TABLE 2

MAXIMUM STUD AND FASTENER SPACING FOR HARDIE™ FLEX SHEETS FOR WIND CATEGORIES								
TO AS4055-1992								
	non-cyclonic	N1	N2	N3		N4	N5	N6
	cyclonic				C1	C2	C3	C4
6mm HARDIE™ FLEX SHEETS								
max. studs spacing	within 1200mm of building edge	600	600	600	450	450	300	300
	intermediate	600	600	600	450	450	450	300
max. fasteners spacing	within 1200mm of building edge: intermediate	300	200	200	200	150	150	100
	within 1200mm of building edge: sheet edges	200	200	200	200	150	150	100
	elsewhere intermediate	300	300	200	200	200	200	200
	elsewhere sheet edges	200	200	200	200	200	200	200
4.5mm HARDIE™ FLEX SHEETS								
max. studs spacing	within 1200mm of building edge	450	450	450	300	300	N/A	N/A
	elsewhere	450	450	450	450	300	N/A	N/A
max. fasteners spacing	within 1200mm of building edge: intermediate	300	200	200	200	150	N/A	N/A
	within 1200mm of building edge: sheet edges	200	200	200	200	150	N/A	N/A
	elsewhere intermediate	300	300	200	200	200	N/A	N/A
	elsewhere sheet edges	200	200	200	200	200	N/A	N/A

3.4 INSTALLATION

For framing and general fixing layout refer to Figure 5.

We recommend you fix from the centre of the sheet and work outwards to ensure sheets are hard against the frame. This avoids drumminess.

3.5 JOINTING AND CORNERS

3.5.1 General

A number of options are available for jointing sheets and corners.

3.5.2 Vertical joints

For vertical joints, a timber batten can be planted over the abutting panels. Refer to Figure 6.

Alternatively, use a PVC straight jointer for Hardie™ Flex Sheets. Refer to Figure 7. Fix PVC straighter to frame at 200mm maximum centres.

Refer to Clause 2.3.2 for more information on sealant jointing.

3.5.3 Horizontal joints

For horizontal joints, use a PVC drip strip for 4.5mm thick Hardie™ Flex Sheets. Refer to Figure 8.

Alternatively, for 6mm thick sheets use a PVC flashing mould. Refer to Figure 9. Fix pre flashing mould to frame at 200mm maximum centres.

Horizontal moulds must be supported by noggings and fixed at 200mm centres.

3.5.4 Corners

Timber battens can be used. For finishing internal or external corners refer to Figure 10 and Figure 11.

Alternatively, PVC corners can be used to form internal or external corners. Refer to Figure 12 and Figure 13.

A further option for either internal or external corners is to use a Hardie™ 75mm Colorbond® Corner Flashing. This accessory should be fixed through alternative opposite legs at 200 centres. Refer to Figure 14.

4 Primeline™ Weatherboard

4.1 GENERAL

For general information on framing, fixing and installation refer to Section 2. For details see Section 9.

To determine which accessories are required, refer to Section 8.

For flashing, sarking and rising damp requirements refer to Clause 2.3.

Fasten internal and external corner accessories to the frame before starter strips and planks are installed. If using the two piece snap on corner, ensure corner studs are straight prior to installation.

NOTE

1. If using snap on corner, do not fit pieces together until all cladding is installed and final attachment to wall is required. For further information on snap on corners, refer to Clause 9.2.1.
2. When a starter strip and lead flashing is used, run sarking over lead flashing between flashing and starter strip. Cut sarking just below starter strip.

4.2 HERITAGE AND CHAMFER PROFILE

4.2.1 General

These profiles sit flat against the framing, eliminating the traditional displacement of the bottom of the weatherboards by the top of the previously fixed weatherboard.

4.2.2 Bracing

Primeline™ Heritage and Chamfer Weatherboards can be used in bracing applications. Refer to the Hardie™ Structural Bracing Application Guide.

4.2.3 Fixing

4.2.3.1 General

Where cladding is not used as bracing, locate studs at centres given in Table 3, then fasten to each stud. Fasteners must not be less than 20mm from weatherboard edges and must be pre-drilled.

For nail spacings and lap, refer to Figure 15.

NOTE

For N4/C2, N5/C3 or N6/C4 wind categories, two rows of fixings are required. Refer to Figure 16 for location of rows of fixings.

4.2.3.2 Timber

When hand nailing - use 2.8 x 50mm fibre cement nails for fixing Primeline™ Heritage and Chamfer Weatherboards.

4.2.3.3 Steel

For steel framing thickness of 0.5mm – 1.6mm BMT – use 41mm Hardie™ Drive Screws.

4.2.4 Installation

Install Primeline™ Heritage and Chamfer weatherboards as follows:

Step 1

Using a spirit or water level, establish the lowest point of the cladding around the perimeter. Then use a level string or flick line across the face of the studs to establish a level that coincides with the top of the first Heritage and Chamfer weatherboard bottom row from this lowest point.

Step 2

Fix the top of the first (bottom) row against the string line, with one weatherboard end flush with an external corner accessory. Fasten the profile with one row of fixings. Refer to Figure 15.

Step 3

If using on-stud joining of Primeline™ Heritage and Chamfer weatherboards, refer to Clause 4.3.4.2. If using off stud joining of Primeline™ Heritage and Chamfer weatherboards, fit Unclip accessory to the free end of the first weatherboard and continue fitting bottom row using Unclips at joints between lengths of weatherboards. Refer to Clause 4.3.4.3.

Step 4

After completing the first row, install the next row and subsequent rows, sitting the bottom recess over the top of the previous row. This will help provide the required overlap of 18mm.

4.2.5 Jointing

4.2.5.1 General

On-stud jointing can give a tidier result than off-stud jointing. In addition, since the joint is fully supported by the backing stud, the joint is more resistant to impact loading and the board ends to displacement. The sealant joint filler will also be more resistant to cracking and failure.

To maximise the strength, integrity and good looks of a wall, butt joints between weatherboards in an area of wall must be staggered over two or more stud lines (ie do not locate joints in the same vertical line).

TABLE 3

MAXIMUM SPACING FOR PRIMELINE™ HERITAGE AND CHAMFER WEATHERBOARDS FOR WIND CATEGORIES								
TO AS4055-1992								
	non-cyclonic	N1	N2	N3		N4	N5	N6
	cyclonic				C1	C2	C3	C4
Primeline™ WEATHERBOARD (HERITAGE AND CHAMFER)								
max. studs spacing	within 1200mm of building edge	600	600	600	450	450	300	300
	elsewhere	600	600	600	450	450	450	450

5 Hardie™ Plank Weatherboard

4.2.5.2 On stud jointing

Step 1

Primeline™ Heritage and Chamfer should be joined on a 45mm min. single stud or a double 35mm stud. Ensure the ends of weatherboards are square and smooth. Use factory cut ends where possible.

Step 2

Pack out stud with timber off cut for fixing end of plank.

Step 3

Pre-drill holes 20mm from end of weatherboards.

Step 4

Fix weatherboards leaving a 3mm gap ready to receive sealant. Refer to Clause 2.3.1.5 for sealant jointing details. Alternatively, butt them together without sealant.

4.2.5.3 Off-stud jointing (with Uniclip)

NOTE

Off-stud jointing of Primeline™ Heritage and Chamfer Weatherboards using Uniclips is not recommended in coastal areas (refer to Clause 2.2.2 for definition of coastal areas). As this accessory may corrode in these areas, only join the Primeline™ Heritage and Chamfer Weatherboards profile on-stud.

For concealed off-stud jointing of weatherboards in non-coastal areas, Uniclips are recommended. Install Uniclips as follows:

Step 1: Ends of weatherboards must be cut square and smooth. Use factory cut ends where possible.

Step 2: Slip the Unclip over the end of the weatherboard, ensuring it fits hard up against the weatherboard end. Refer to Figure 17. Then nail weatherboard to studs.

Step 3: Fasten the next weatherboard in position, ensuring the lower edges of the abutting weatherboards are aligned and the end of the weatherboard is hard up against the stop in the Unclip. A 3mm gap must be formed using the stops for later sealing with sealant.

Step 4: Sealing

Fill the joint with sealant. Refer to Clause 2.3.2 Sealant jointing.

5.1 GENERAL

For general information on framing, fixing and installation refer to Section 2. For details see Section 9.

To determine which accessories are required, refer to Section 8.

For flashing, sarking and rising damp requirements refer to Clause 2.3.

Fasten internal and external corner accessories to the frame before foot mould and planks are installed.

NOTE

If using snap on corner, do not fit pieces together until all cladding is installed and final attachment to wall is required. For further information on snap on corners refer to Clause 9.2.1.

5.2 BRACING

Hardie™ Plank Weatherboard can also be used as structural bracing. Refer to the Hardie™ Structural Bracing Application Guide or, for further information, Ask James Hardie™ on 13 11 03.

5.3 FIXING

5.3.1 General

Where cladding is not used as bracing, locate studs at centres given in Table 4, then fasten Hardie™ Plank Weatherboard to each stud.

Fasteners must not be less than 20mm in from plank ends and must be pre-drilled.

For nail spacings and lap for Hardie™ Plank Weatherboard profiles, refer to Figure 22.

5.3.2 Timber

When hand nailing - use 2.8 x 50mm fibre cement nails for fixing Hardie™ Plank Smooth and Woodgrain Weatherboard.

When gun nailing - use 2.5 x 50mm ring shank galvanised coil nails for fixing Hardie™ Plank Smooth and Woodgrain Weatherboard.

5.3.3 Steel

For steel framing thickness of 0.5mm – 1.6mm BMT – use 41mm Hardie™ Drive Screws.

For metal framing, screw fix above the lap through the top plank only. Refer to Figure 23.

Alternatively, Hardie™ Plank galv stud clips can be used on metal framing. Stud clips are positioned along the top of the planks then fixed directly through the top leg of the clip with external grade #10 - 1.6x16mm hex head, drill point screws, automatically setting the lap at 25mm. Refer to Figure 24.

NOTE

Hardie™ Plank galv stud clips are not recommended in coastal areas (refer to Clause 2.2.2 for definition of coastal areas). This accessory may corrode in these areas.

NOTE

For wind load categories C2, C3 and C4, stud clips must not be used.

TABLE 4

MAXIMUM STUD SPACING FOR HARDIE™ PLANK WEATHERBOARD FOR WIND CATEGORIES							
TO AS4055-1992							
	non-cyclonic	N1	N2	N3	N4		N5
	cyclonic				C1	C2	C3
HARDIE™ PLANK WEATHERBOARD (UP TO 230 WIDE)							
max. stud spacing	within 1200mm of building edge	600	600	600	450	450	300
	elsewhere	600	600	600	450	450	450
HARDIE™ PLANK WEATHERBOARD (300 WIDTH ONLY)							
max. stud spacing	within 1200mm of building edge	600	600	600*	450	N/A	N/A
	elsewhere	600	600	600	450	N/A	N/A

* 450mm max stud spacing where hand nailing with 2.8 x 50mm fibre cement nails

5.4 INSTALLATION

5.4.1 Installation procedure for Hardie™ Plank Weatherboard

Step 1

Using a spirit or water level, establish a level line around lower perimeter of the frame and fix the Hardie™ Plank footmould. Refer to Figure 18.

Step 2

Start the first plank against the Hardie™ Plank 7.5mm zincalume footmould, flush with an external corner. Fasten the plank to the frame through the strip. Ensure that the holding clips on the Hardie™ Plank 7.5mm zincalume footmould are opened out prior to fitting the first board.

Step 3

If off-stud jointing is to be used, fit either metal soaker (refer to Clause 5.5.3) or jointing strip (refer to Clause 5.5.4) to the free end of the first plank, and continue fitting the bottom course of planks.

Step 4

After completing the first course, position subsequent courses using a storey rod or lap gauge to obtain the required lap, staggering the joints as you go.

5.5 JOINTING

5.5.1 General

Generally, on-stud jointing can give a tidier result than off-stud jointing. In addition, since the joint is fully supported by the backing stud, the joint is more resistant to impact loading and the board ends to displacement. The sealant joint filler will be more resistant to cracking and failure.

To maximise the wall strength, integrity and good looks of a wall, butt joints between weatherboards in an area of wall should be staggered over two or more stud lines (ie. avoid joints located directly in the same vertical line).

5.5.2 On-stud jointing

Hardie™ Plank Weatherboards should be joined on a 45mm single stud or a double 35mm stud.

Step 1

Ensure ends of planks are square and smooth. Use factory cut ends where possible.

Step 2

Pack out stud with timber off cut for fixing end of plank.

Step 3

Pre-drill holes 20mm from end of plank if hand nailing.

Step 4

Fix planks leaving a 3mm gap if sealant is to be used or butt them together without sealant. Refer to Clause 2.3.2 for sealant jointing details.

5.5.3 Off-stud jointing (with metal soakers)

For concealed off-stud jointing of planks, metal soakers are recommended. Select a soaker sized to suit the required 205, 230 or 300mm wide profile.

NOTES

- 1. Metal soakers are not recommended in coastal areas (refer to Clause 2.2.2 for definition of coastal areas) as this accessory may corrode in these areas.
- 2. For an alternative method of fixing planks that is recommended in coastal areas, refer to Clause 5.5.4.

Install metal soakers as follows:

Step 1

Ends of planks must be cut square and smooth. Use factory cut ends where possible.

Step 2

At the bottom row of planks only, cut off the lower flanges of the soaker with tin snips before use. Slip the metal soaker over the end of the plank, ensuring it fits hard up against the plank end. Fasten plank to studs. Refer to Figure 21.

Step 3

Fasten the next plank in position, ensuring that the lower edge of abutting planks are aligned and the end of each plank is hard up against the stop in the metal soakers. The stop helps form a 3mm gap that must be filled with sealant.

Step 4

Fill the gap with sealant. Refer to Clause 2.3.2 for sealant jointing details.

Step 5

With subsequent rows of planks, ensure the lower prongs of the metal soakers are firmly located over the top of the previous row.

5.5.4 Off-stud jointing (alternative detail)

For Hardie™ Plank Woodgrain and Smooth Weatherboard profiles, PVC jointing strips can be used.

For Smooth profile, use PVC Smooth jointer. Refer to Figure 22.

6 Safe Working Practices

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

Hardie™ products 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's 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

1. Position cutting station so wind will blow dust away from the user or others in working area.
2. Warn others in the area to avoid dust.
3. Consider rotating personnel across cutting tasks to further limit respirable silica exposures.
4. Use one of the following methods based on the required cutting rate:
 - Best** ■ Villaboard™ Knife ■ Hand guillotine ■ Fibreshear
 - Better** ■ Position the cutting station in a well-ventilated area. Use a dust reducing circular saw equipped with Hardie™ Blade Saw Blade or comparable fibre cement blade and well maintained M-class vacuum or greater 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

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 greater 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.

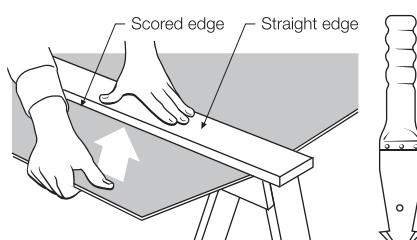
WORKING INSTRUCTIONS

Refer to recommended safe working practices before starting any cutting or machining of product.

Score and snap

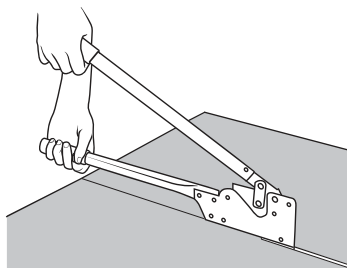
Score and snap is a fast and efficient method of cutting Hardie™ building products using James Hardie's special tungsten tipped score and snap knife.

Preferably score on the face side of the product. Score against a straight edge and repeat the action to obtain adequate depth for clean break – normally one third of sheet thickness. Snap upwards to achieve break. Smooth any rough edges with a rasp.



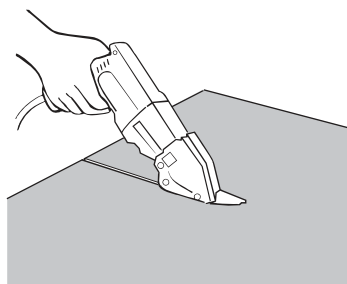
Hand guillotine

Make guillotine cut on the off-cut side of line to allow for the thickness of the blade.



Fibreshear

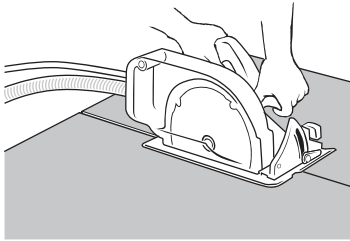
An electrically powered, fast, clean and effortless way of cutting Hardie™ building products, especially around curves such as archways. Make fibreshear cut on the off-cut side of the line to allow for the thickness of the shear.



7 Product Information

Hardie™ Blade Saw Blade

The Hardie™ Blade Saw Blade used with a dust-reducing saw connected to a M class or higher vacuum allows for fast, clean cutting of Hardie™ fibre cement products. A dust-reducing saw uses a dust deflector or a dust collector which can be connected to a vacuum system. When sawing, clamp a straight-edge to the sheet as a guide and run the saw base plate along the straight edge when making the cut.



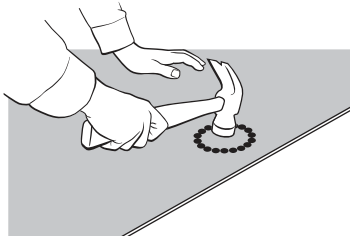
HOLE-FORMING

For smooth clean cut circular holes:

- Mark the centre of the hole on the sheet.
- Pre-drill a pilot hole.
- Using the pilot hole as a guide, cut the hole to the appropriate diameter with a hole saw fitted to a heavy duty electric drill.

For irregular holes:

- Small rectangular or circular holes can be cut by drilling a series of small holes around the perimeter of the hole then tapping out the waste piece from the sheet face.
- Tap carefully to avoid damage to sheets, ensuring the sheet edges are properly supported.



STORAGE AND HANDLING

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

Hardie™ building products must be installed in a dry state and be protected from rain 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.

QUALITY

James Hardie conducts stringent quality checks to ensure any product manufactured falls within our quality spectrum. It is the responsibility of the builder to ensure the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying obvious aesthetic surface variations following installation.

7.1 GENERAL

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

Hardie™ building products are manufactured 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.

7.2 PRODUCT MASS

Refer to Section 8.1 for the approximate mass at equilibrium moisture content for Primeline™ Weatherboard, Hardie™ Plank Weatherboard and Hardie™ Flex Sheet.

7.3 DURABILITY

7.3.1 Resistance to moisture/rotting

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

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

7.3.2 Resistance to fire

The Primeline™ Weatherboard, Hardie™ Plank Weatherboard and Hardie™ Flex Sheet (JH external cladding) are suitable where non-combustible materials are required in accordance with C1.12 of the National Construction Code (NCC).

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 C1.10a of the National Construction Code (NCC).

7.3.3 Resistance to termite attack

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

7.4 ALPINE REGIONS

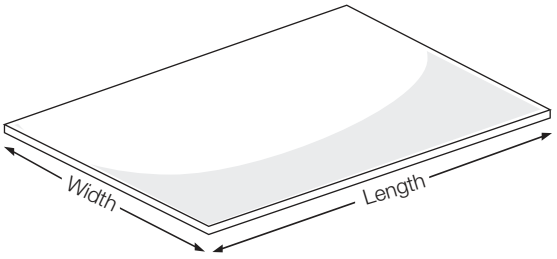
In regions subject to freeze/thaw conditions, all Hardie™ fibre cement external cladding must be installed and painted in the warmer months of the year where the temperature does not create freeze and thaw conditions or paint issues. The cladding must be painted immediately after installation. In addition, 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.

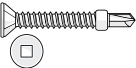
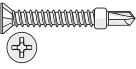
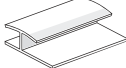
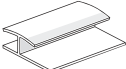
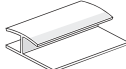
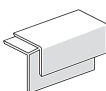
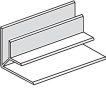
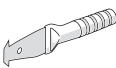
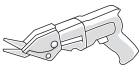
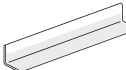
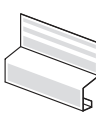
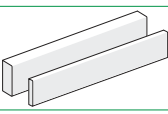
8 Components

8.1 SHEET CLADDING

HARDIE™ FLEX SHEET		
	NOTE Sheets fixed using self embedding head (SEH) screws must be 6mm thick as embedment of the fastener head in 4.5mm sheets reduces wind loading capacity.	
	Mass: 4.5mm = 6.0kg/m² 6mm = 8.1kg/m²	
	SURFACE TEXTURE: SMOOTH	
	Length (mm)	Width (mm)
	1800	1200
	2400	1200
		Thickness (mm):
		4.5
		4.5/6.0
		4.5/6.0
		4.5/6.0

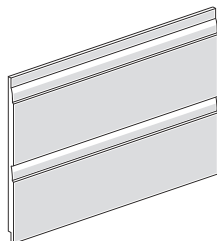
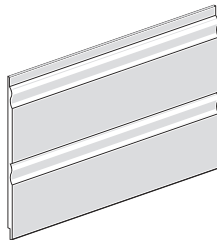
*All dimensions and masses are approximate and subject to manufacture tolerances.

SHEET CLADDING ACCESSORIES

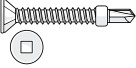
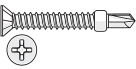
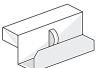
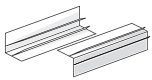
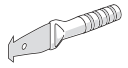
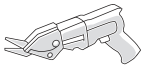
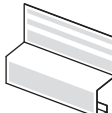
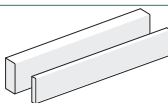
		HARDIE™ FLEX SHEET	
		4.5mm*	6mm
	Hardie™ Drive Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. 1000 per box. Part No. 305984		■
	Hardie™ Drive Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. Suitable for use in most auto feed screw guns 1000 per box. Part No. 305982		■
	Hardie™ PVC Flashing Mould for 6mm thick sheets. 3000mm long A PVC extrusion for multicourse fixing of 6mm thick sheets. Part No. 305552	■	■
	Hardie™ PVC Straight Jointer for 6mm thick sheets. 3000mm long A PVC extrusion used to join 6mm thick sheets. Part No. 305546		■
	Hardie™ PVC Straight Jointer for 4.5mm thick sheets. 2,400mm long A 2,400mm long PVC extrusion used to join 4.5mm thick sheets. Part No. 305538	■	
	Hardie™ PVC Straight Jointer for 4.5mm thick sheets. 3,000mm long A 3,000mm long PVC extrusion used to join 4.5mm thick sheets. Part No. 305541	■	
	Hardie™ PVC External Corner Angle for 6mm thick sheets 3,000mm long A PVC extrusion, to be used with 6mm thick sheets at external corner junctions to conceal the sheet edge. Part No. 305544		■
	Hardie™ PVC Internal Corner Angle for 6mm thick sheets 3,000mm long A PVC extrusion, to be used with 6mm thick sheets at internal corner junctions to conceal the sheet edge. Part No. 305545		■
	Hardie™ 75x75mm Colorbond® Corner Flashing. 3,000mm long A Colorbond® corner flashing for use behind cladding at internal and external corners. Part No. 305564	■	■
	Hardie™ PVC Cap Mould for 4.5mm thick sheets. 3,000mm long A PVC extrusion used to finish 4.5mm thick sheet edges. Part No. 305542	■	
	Hardie™ PVC Cap Mould for 6mm thick sheets. 3,000mm long A PVC extrusion used to finish 6mm thick sheet edges. Part No. 305543		■
	Hardie™ Score and Snap Knife A tungsten tipped knife for scoring fibre cement sheets. Part No. 305576	■	■
	Hardie™ Fibreshears Electric tool for cutting fibre cement sheets. Part No. 300653	■	■
	Hardie™ Blade Saw Blade. 185mm diameter A 185mm diameter poly-diamond blade for fast and clean cutting of Hardie™ fibre cement. Part No. 300660	■	■
	Hardie™ 45x45mm PVC Corner Angle Mould Corner Angle Mould. 3,000mm long. Part No. 305554	■	■
	Hardie™ Edge Trim An architectural slab edge solution fabricated from high-quality powder coated aluminium. Unit size: 3950mm. 4 per pack. Part No. 305911 Also available: Base Trim Jointer 12 per pack. Part No. 305912, Internal Corner 4 per pack. Part No. 305913 and External Corner 4 per pack. Part No. 305914	■	■
	Hardie™ Weather Barrier A non-perforated, highly breathable and reflective safe-glare weather barrier designed to be used behind Hardie™ external cladding products to help protect the building. For alternate products, please refer to Hardie™ Weather Barrier section 2.3.1.3. Unit size 2750mm x 3000mm Part No. 305664.	■	■
	Hardie™ Axent™ Trim Material composite trim used for box corners and for trim around windows and doors. For internal corners: 45 x 38mm. 3000mm long. Product Code: 405261 For external corners: 45 x 19mm. 3000mm long. Product Code: 405260	■	■
COMPONENTS NOT SUPPLIED BY JAMES HARDIE James Hardie recommends the following products be used in conjunction with its external cladding products. James Hardie does not supply these products and does not provide a warranty for their use. Please contact component manufacturers for information on their warranties and further information on their products.			
	Fibre cement nails Galvanised nail 2.8 x 30mm	■	■

* Not suitable for use with SEH screws as fastener head embedment reduces wind load capacity.

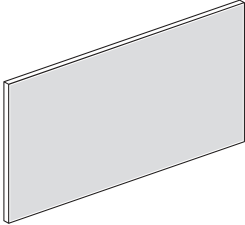
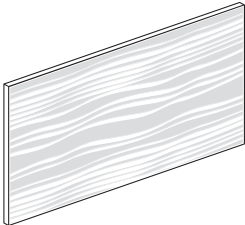
8.2 PRIMELINE™ WEATHERBOARD

PRIMELINE™ WEATHERBOARD PROFILES		
CHAMFER		
	Surface texture: Length: Width: Thickness: *Effective cover: Mass:	Two-in-one milled profiles for narrow plank effect. Matt smooth. 4200mm 300mm 9.0mm 18mm overlap - 278mm 3.6kg/lin.m
	*Pre-primed	
HERITAGE		
	Surface texture: Length: Width: Thickness: *Effective cover: Mass:	Two-in-one milled profiles for narrow plank effect. Matt smooth. 4200mm 300mm 9.0mm 18mm overlap - 278mm 3.6kg/lin.m
	*Pre-primed	

* Effective cover is based on maximum manufactured sheet widths. These values are provided for guidance only. Due to manufacturing tolerances it is recommended that actual cover is measured on site.

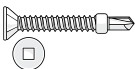
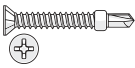
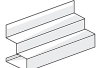
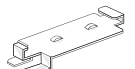
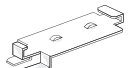
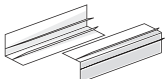
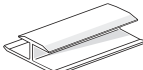
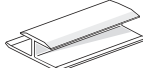
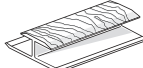
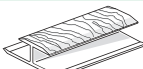
PRIMELINE™ WEATHERBOARD ACCESSORIES			
	Hardie™ Drive Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. 1000 per box. Part No. 305984	Chamfer ■	Heritage ■
	Hardie™ Drive Collated Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. Suitable for use in most auto feed screw guns. 1000 per box. Part No. 305982	■	■
	Primeline™ Galvanised Universal Off Stud Joint Clip A galvanised metal clip to be used for off stud jointing of Primeline™ Heritage and Primeline™ Chamfer Weatherboards. Part No. 305525	■	■
	Hardie™ Aluminium Snap on Corner. 3,000mm long (2 pieces per set) A ready to paint aluminium extrusion set, to be used with Axon™ Cladding, Hardie™ Plank Weatherboard and Primeline™ weatherboard, at internal and external corner junctions to conceal the board edge. Part No. 305513	■	■
	Hardie™ Joint Sealant. 300ml cartridge A general purpose, paintable, exterior grade polyurethane joint sealant. Part No. 305534	■	■
	Hardie™ Score and Snap Knife A tungsten tipped knife for scoring fibre cement sheets. Part No. 305576	■	■
	Hardie™ Fibreshears Electric tool for cutting fibre cement sheets. Part No. 300653	■	■
	Hardie™ Blade Saw Blade. 185mm diameter A 185mm diameter poly-diamond blade for fast and clean cutting of Hardie™ fibre cement. Part No. 300660	■	■
	Hardie™ 75x75mm Colorbond® Corner Flashing. 3,000mm long A Colorbond® corner flashing for use behind cladding at internal and external corners. Part No. 305564	■	■
	Hardie™ Edge Trim An architectural slab edge solution fabricated from high-quality powder coated aluminium. Unit size: 3950mm. 4 per pack. Part No. 305911 Also available: Base Trim Joints 12 per pack. Part No. 305912, Internal Corner 4 per pack. Part No. 305913 and External Corner 4 per pack. Part No. 305914	■	■
	Hardie™ Weather Barrier A non-perforated, highly breathable and reflective safe-glare weather barrier designed to be used behind Hardie™ external cladding products to help protect the building. For alternate products, please refer to Hardie™ Weather Barrier section 2.3.1.3. Unit size 2750mm x 3000mm Part No. 305664.	■	■
	Hardie™ Axent™ Trim Material composite trim used for box corners and for trim around windows and doors. For internal corners: 45 x 38mm. 3000mm long. Product Code: 405261 For external corners: 45 x 19mm. 3000mm long. Product Code: 405260	■	■
COMPONENTS NOT SUPPLIED BY JAMES HARDIE James Hardie recommends the following products be used in conjunction with its external cladding products. James Hardie does not supply these products and does not provide a warranty for their use. Please contact component manufacturers on their warranties and further information on their products.			
	Fibre cement nails Galvanised nail 2.8 x 50mm	■	■

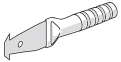
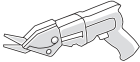
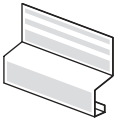
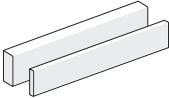
8.3 HARDIE™ PLANK WEATHERBOARD

HARDIE™ PLANK WEATHERBOARD PROFILES		
SMOOTH		
	Surface texture: Length: Width: Thickness: *Effective cover: Mass:	Matt smooth. 4200mm 230mm; 300mm 7.5mm For 230: 25mm overlap - 205mm For 300: 25mm overlap - 275mm For 230: 2.3kg/lin.m For 300: 3.0kg/lin.m
WOODGRAIN		
	Surface texture: Length: Width: Thickness: *Effective cover: Mass:	Timber grained. 4200mm 230mm; 300mm 7.5mm For 230: 25mm overlap - 205mm For 300: 25mm overlap - 275mm For 230: 2.3kg/lin.m For 300: 3.0kg/lin.m

* Effective cover is based on maximum manufactured sheet widths. These values are provided for guidance only. Due to manufacturing tolerances it is recommended that actual cover is measured on site.

HARDIE™ PLANK CLADDING ACCESSORIES

		Smooth	Woodgrain
	Hardie™ Drive Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. 1000 per box. Part No. 305984	■	■
	Hardie™ Drive Collated Screw 41mm long A class 3 self-tapping wing-tipped screw for fastening to 0.5mm to 1.6mm BMT light gauge steel frames. Suitable for use in most auto feed screw guns. 1000 per box. Part No. 305982	■	■
	Hardie™ Plank Zincalume Footmould. 3,000mm long A zincalume starter strip to be used with Hardie™ Plank Weatherboard to kick out the bottom row to the correct angle. Part No. 305528	■	■
	Hardie™ Plank Galvanised Soaker Jointer for 230mm wide boards A galvanised metal jointer used to join 230mm wide Hardie™ Plank Weatherboards. It's a concealed alternative to PVC jointers. Part No. 305522	■	■
	Hardie™ Plank Galvanised Soaker Jointer for 300mm wide boards A galvanised metal jointer used to join 300mm wide Hardie™ Plank Weatherboards. It's a concealed alternative to PVC jointers. Part No. 305527	■	■
	Hardie™ Plank Galvanised Stud Clip A galvanised metal stud clip to be used with Hardie™ Plank Weatherboard to automatically set a 25mm lap. Part No. 305524	■	■
	Hardie™ Aluminium Snap on Corner. 3,000mm long (2 pieces per set). A ready to paint aluminium extrusion set, to be used with Axon™ Cladding, Hardie™ Plank Weatherboard and Primeline™ Weatherboard, at internal and external corner junctions to conceal the board edge. Part No. 305513	■	■
	Hardie™ Plank Aluminium External Corner Soaker for 230mm wide boards A ready to paint aluminium corner soaker, to be used with 230mm wide Hardie™ Plank Weatherboard, at external corner junctions to conceal the board edge. Part No. 305514	■	■
	Hardie™ Plank Aluminium External Corner Soaker for 300mm wide boards A ready to paint aluminium corner soaker, to be used with 300mm wide Hardie™ Plank Weatherboard, at external corner junctions to conceal the board edge. Part No. 305515	■	■
	Hardie™ Plank Aluminium Internal Corner Soaker for 230mm wide boards A ready to paint aluminium corner soaker, to be used with 230mm wide Hardie™ Plank Weatherboard, at internal corner junctions to conceal the board edge. Part No. 305516	■	■
	Hardie™ Plank Aluminium Internal Corner Soaker for 300mm wide boards A ready to paint aluminium corner soaker, to be used with 300mm wide Hardie™ Plank Weatherboard, at internal corner junctions to conceal the board edge. Part No. 305517	■	■
	Hardie™ Plank Smooth PVC Jointer for 230mm wide boards A smooth PVC extrusion used to join 230mm wide Hardie™ Plank Weatherboards. Part No. 305548	■	
	Hardie™ Plank Smooth PVC Jointer for 300mm wide boards A smooth PVC extrusion used to join 300mm wide Hardie™ Plank Weatherboards. Part No. 305549	■	
	Hardie™ Plank Woodgrain PVC Jointer for 230mm wide boards A woodgrain textured PVC extrusion used to join 230mm wide Hardie™ Plank Weatherboards. Part No. 305550		■
	Hardie™ Plank Woodgrain PVC Jointer for 300mm wide boards A woodgrain textured PVC extrusion used to join 300mm wide Hardie™ Plank Weatherboards. Part No. 305551		■
	Hardie™ Joint Sealant. 300ml cartridge A general purpose, paintable, exterior grade polyurethane joint sealant. Part No. 305534	■	■

HARDIE™ PLANK CLADDING ACCESSORIES CONTINUED			
		Smooth	Woodgrain
	Hardie™ Score and Snap Knife A tungsten tipped knife for scoring fibre cement sheets. Part No. 305576	■	■
	Hardie™ Fibreshears Electric tool for cutting fibre cement sheets. Part No. 300653	■	■
	Hardie™ Blade Saw Blade. 185mm diameter A 185mm diameter poly-diamond blade for fast and clean cutting of Hardie™ fibre cement. Part No. 300660	■	■
	Hardie™ 75x75mm Colorbond® Corner Flashing. 3,000mm long A Colorbond® corner flashing for use behind cladding at internal and external corners. Part No. 305564	■	■
	Hardie™ Edge Trim An architectural slab edge solution fabricated from high-quality powder coated aluminium. Unit size: 3950mm. 4 per pack. Part No. 305911 Also available: Base Trim Joister 12 per pack. Part No. 305912 Internal Corner 4 per pack. Part No. 305913 External Corner 4 per pack. Part No. 305914	■	■
	Hardie™ Weather Barrier A non-perforated, highly breathable and reflective safe-glare weather barrier designed to be used behind Hardie™ external cladding products to help protect the building. For alternate products, please refer to Hardie™ Weather Barrier section 2.3.1.3. Unit size 2750mm x 30000mm Part No. 305664.	■	■
	Hardie™ Axent™ Trim Material composite trim used for box corners and for trim around windows and doors. For internal corners: 45 x 38mm. 3000mm long. Product Code: 405261 For external corners: 45 x 19mm. 3000mm long. Product Code: 405260	■	■
COMPONENTS NOT SUPPLIED BY JAMES HARDIE James Hardie recommends the following products be used in conjunction with its external cladding products. James Hardie does not supply these products and does not provide a warranty for their use. Please contact component manufacturers for information on their warranties and further information on their products.			
	Fibre cement nails Galvanised nail 2.8 x 50mm	■	■
	Ring Shank Coil Nail Galvanized 2.5 x 50mm	■	■

9 Details

NOTE: All product BIM and CAD content from James Hardie can be downloaded at myhardies.jameshardie.com.au

9.1 GENERAL

This section contains general details relating to the use of Hardie™ products in external cladding applications. These details are referenced throughout this specification.

9.2 HARDIE™ PLANK WEATHERBOARD AND PRIMELINE™ WEATHERBOARD DETAILS

9.2.1 General

This section includes details for internal and external corners for Hardie™ Plank Weatherboard and Primeline™ Weatherboard applications, window details, instructions for cutting around openings and details at eaves.

9.2.2 Internal and external corners

9.2.2.1 Snap on corners

Fix the inner sections of the two piece aluminium snap on accessory to the framing. Once all weatherboards or planks on both sides are fixed in place, snap the outer part of the accessory into place over the teeth of the first installed section. Refer to Figure 23 and Figure 24.

9.2.2.2 Timber stops

Alternatively, sawn timber stops can be used. Use a 25 x 25mm timber stop at internal corners. Refer to Figure 25 and Figure 26.

9.2.2.3 Aluminium corner for Hardie™ Plank Weatherboard profiles

A third option is available for Hardie™ Plank Weatherboard profiles using aluminium internal and external corners that are clipped on to the boards during installation. Refer to Figure 27 and Figure 28.

9.2.3 Window details

For trimming and flashing the ends of weatherboards or planks at window openings, you must observe similar principles used for sheet cladding. Refer to Figure 29, Figure 30 and Figure 31 for guidance on head, jamb and sill details respectively.

Refer to window manufacturer for appropriate installation and flashing details.

9.2.4 Cutting around openings

Where the width of a weatherboard or plank is reduced at openings, joints in weatherboards or planks must be provided as follows:

- For opening widths up to 1800mm - 1 joint minimum. Ideally, this should be located at a corner, but where joint lengths override this, the location of the joint can fall between the two corners. Refer to Figure 32.
- For opening widths over 1800mm - 1 joint at each corner.

9.2.5 Detail at eaves

When the weatherboards or planks do not finish at a full width to the underside of the eave, a suggested detail is to cut the weatherboard or plank to suit and cover with a timber batten. Refer to Figure 33.

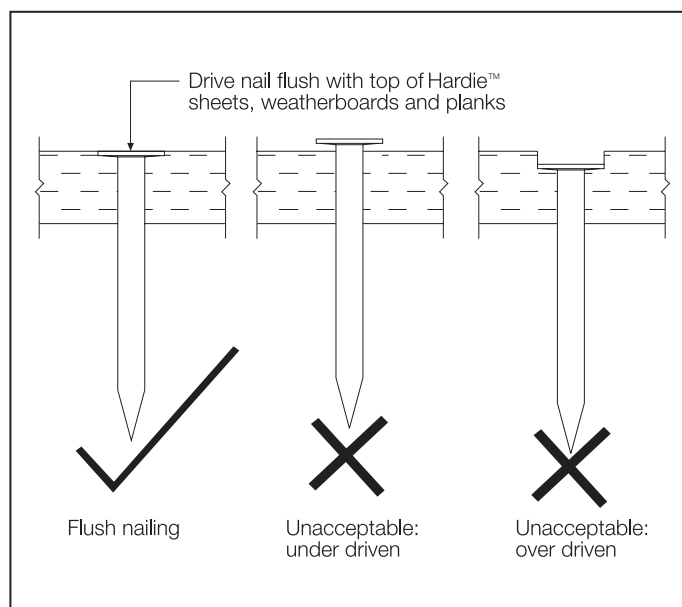


FIGURE 1 NAIL FASTENER DEPTH

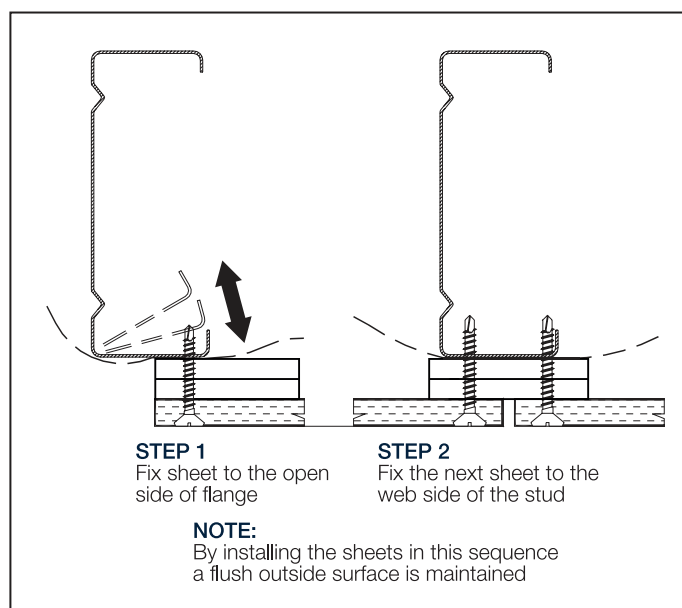


FIGURE 2 SCREW FASTENING

NOTE

- Drive screws flush with top of Hardie™ sheets, weatherboards and planks.
- By installing the sheets in this sequence a flush outside surface is maintained.

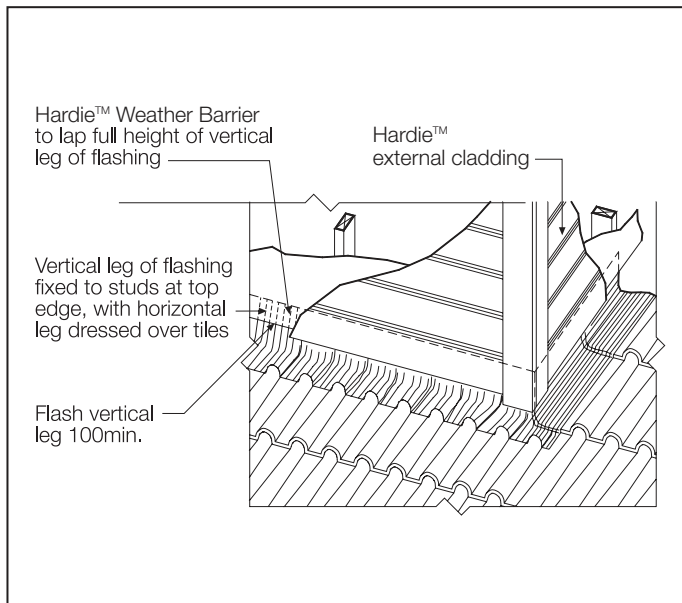


FIGURE 3 SARKING REQUIREMENT FOR EXPOSED CONDITIONS

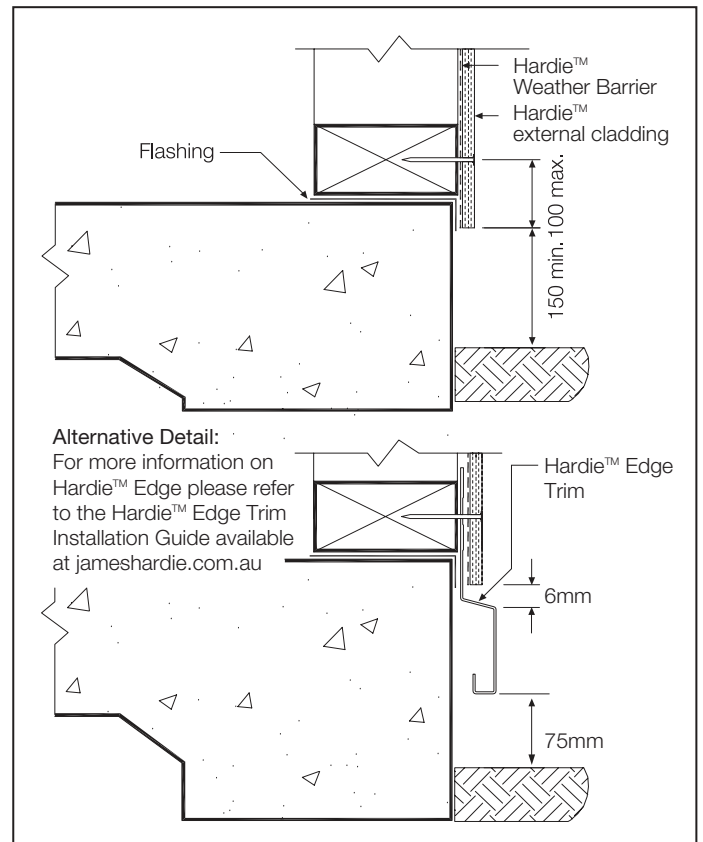


FIGURE 4 TYPICAL DETAIL AT GROUND LEVEL

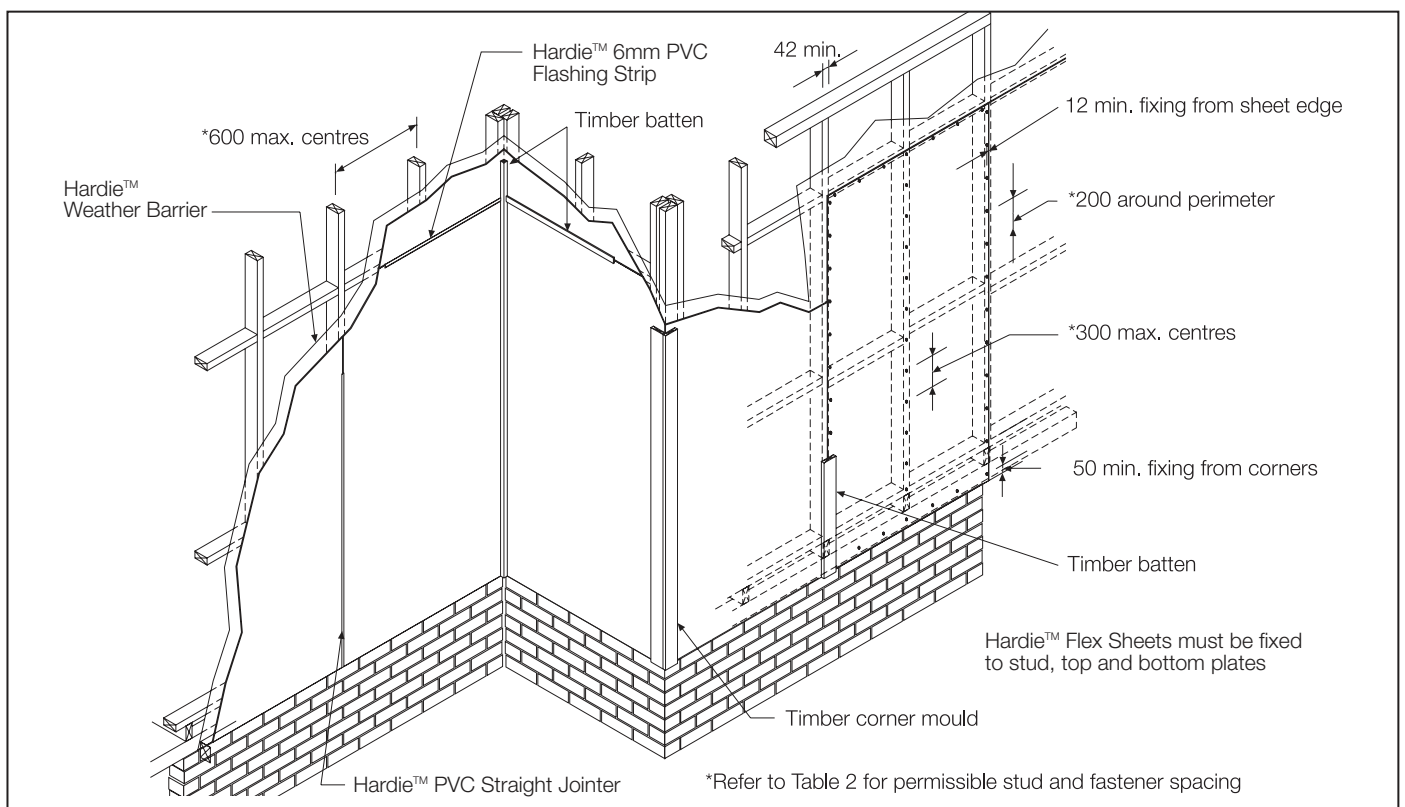


FIGURE 5 FIXING AND FRAMING

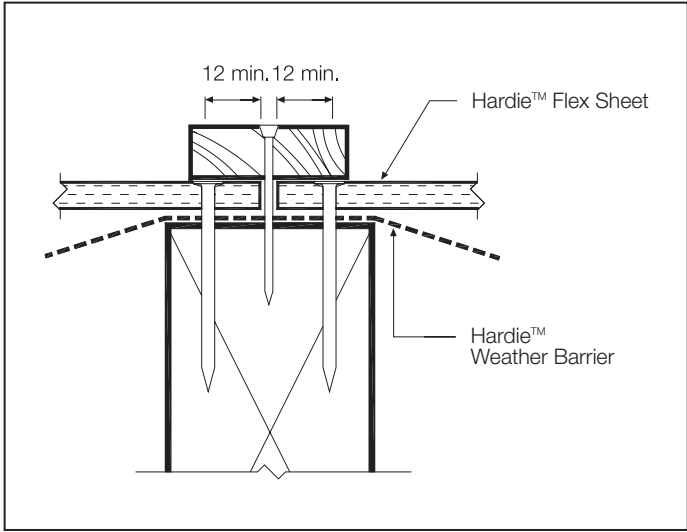


FIGURE 6 TIMBER BATTEN JOINT

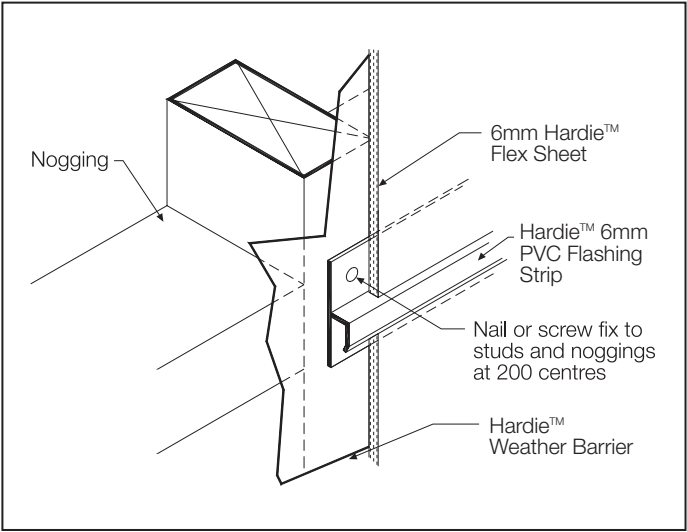


FIGURE 9 HORIZONTAL FLASHING MOULD

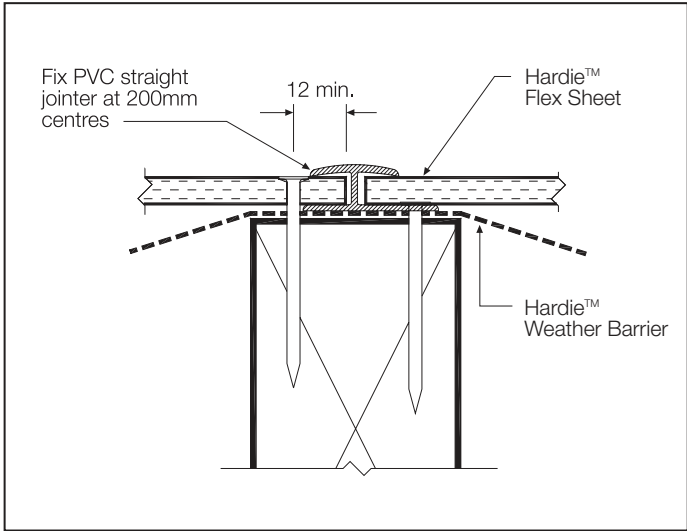


FIGURE 7 PVC STRAIGHT JOINTER

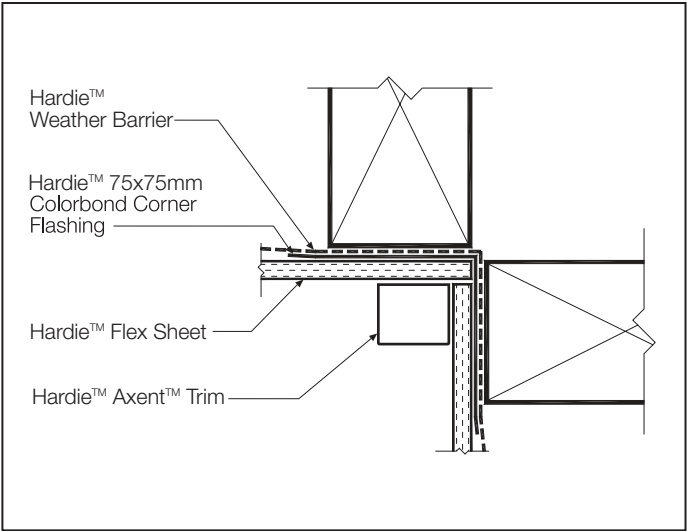


FIGURE 10 INTERNAL TRIM CORNER

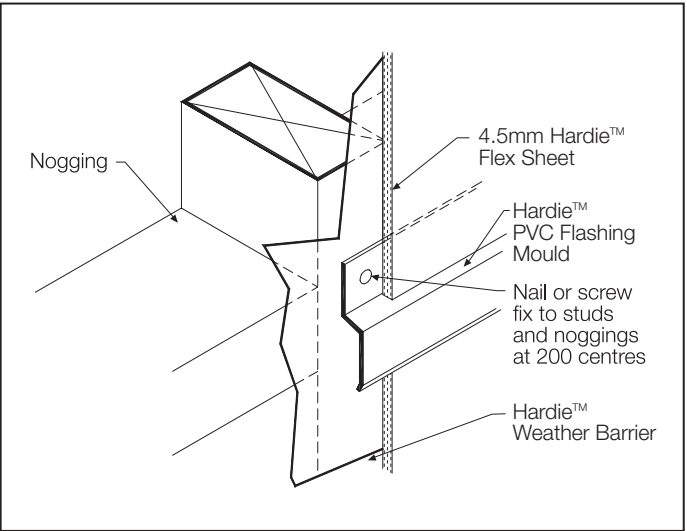


FIGURE 8 DRIP STRIP JOINT

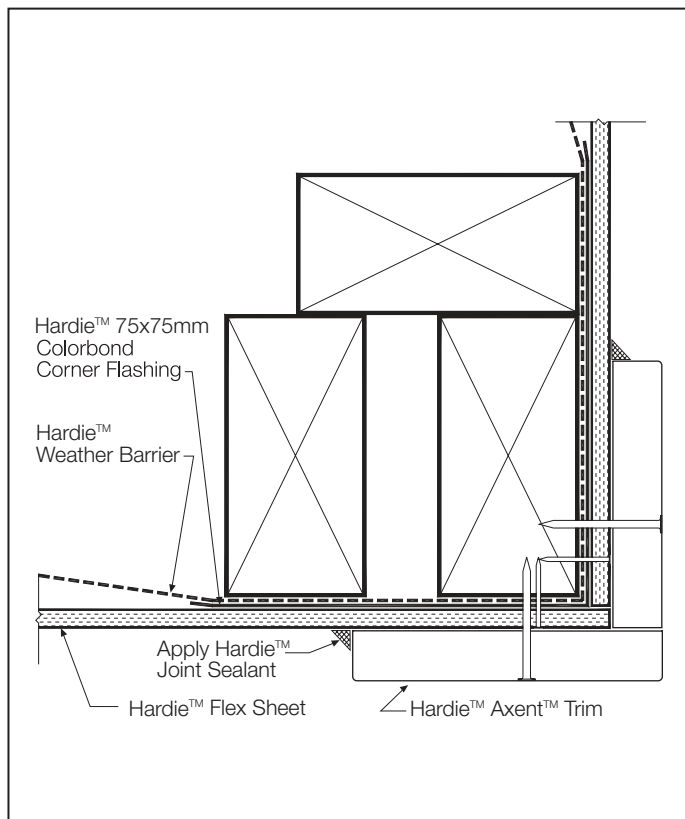


FIGURE 11 HARDIE™ AXENT™ TRIM EXTERNAL CORNER

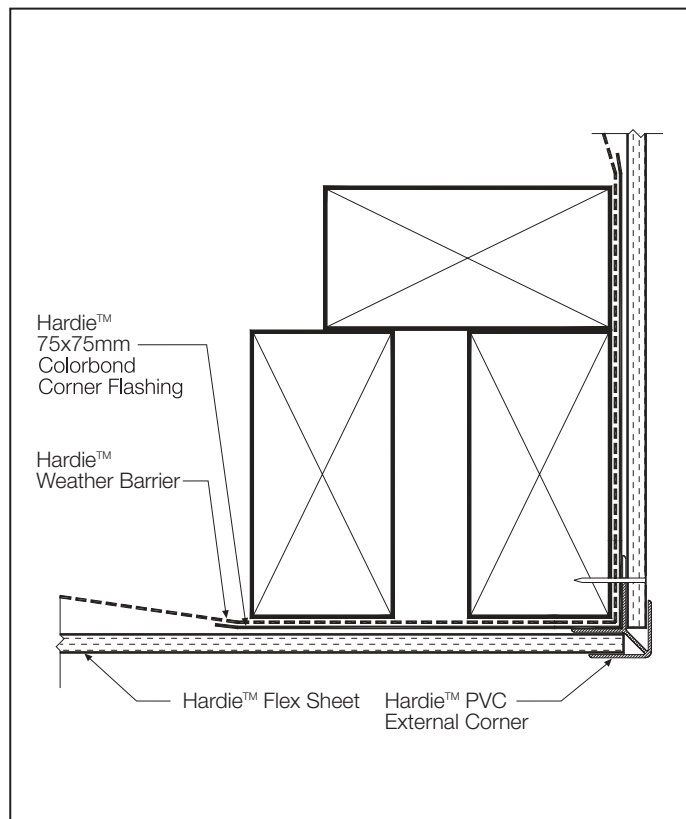


FIGURE 13 PVC EXTERNAL CORNER

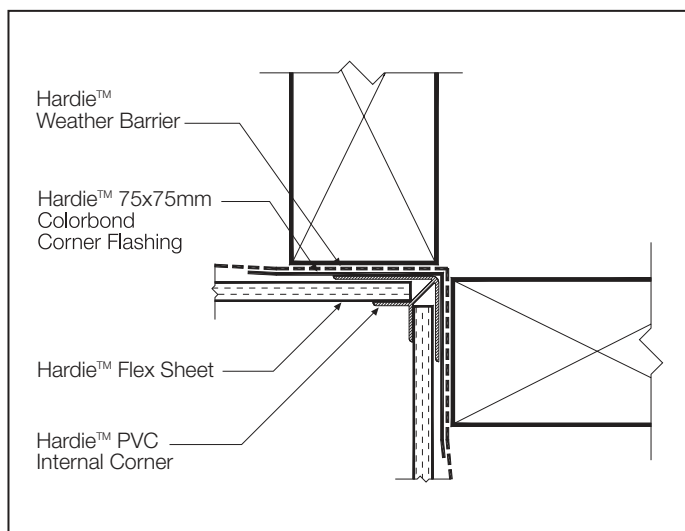


FIGURE 12 PVC INTERNAL CORNER

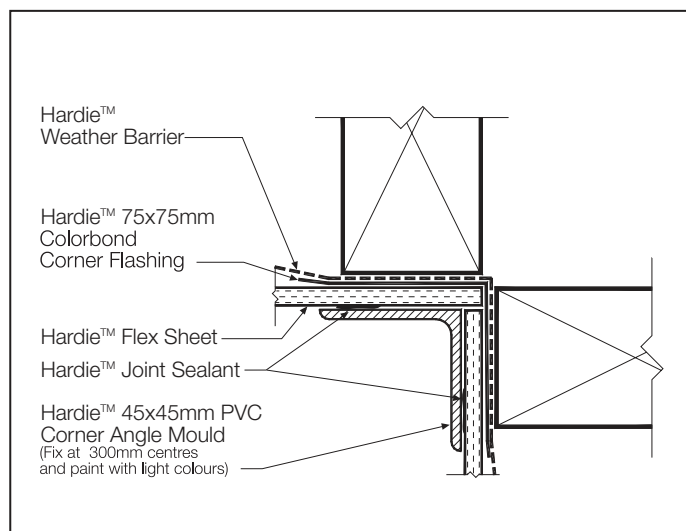


FIGURE 14 PVC CORNER ANGLE MOULD

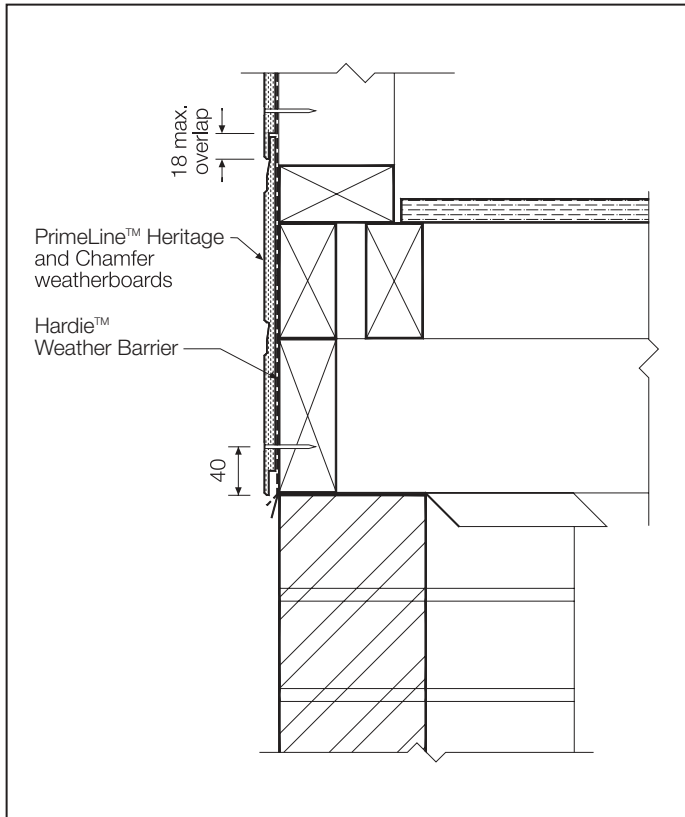


FIGURE 15 FIXING THE FIRST PRIMELINE™ HERITAGE AND CHAMFER WEATHERBOARD

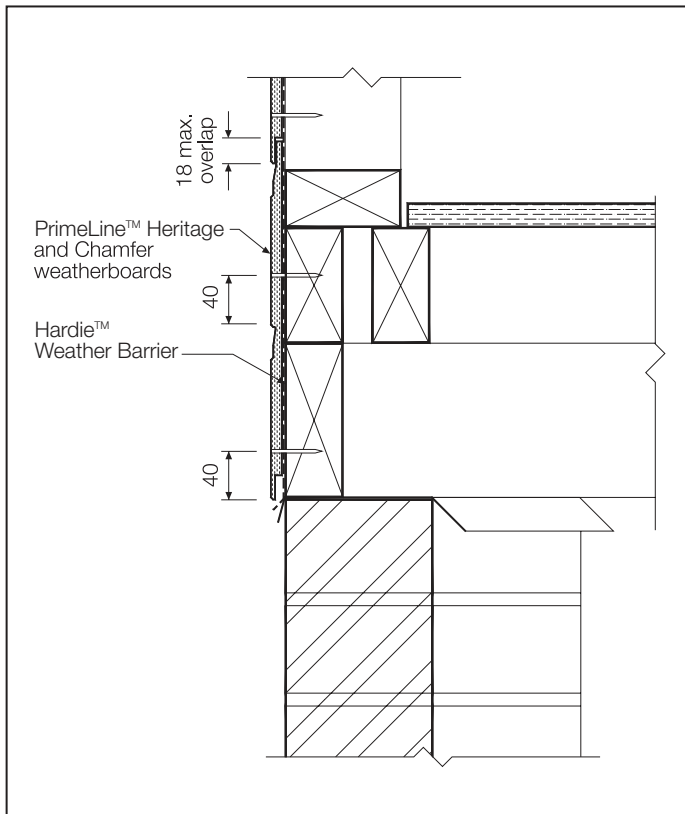
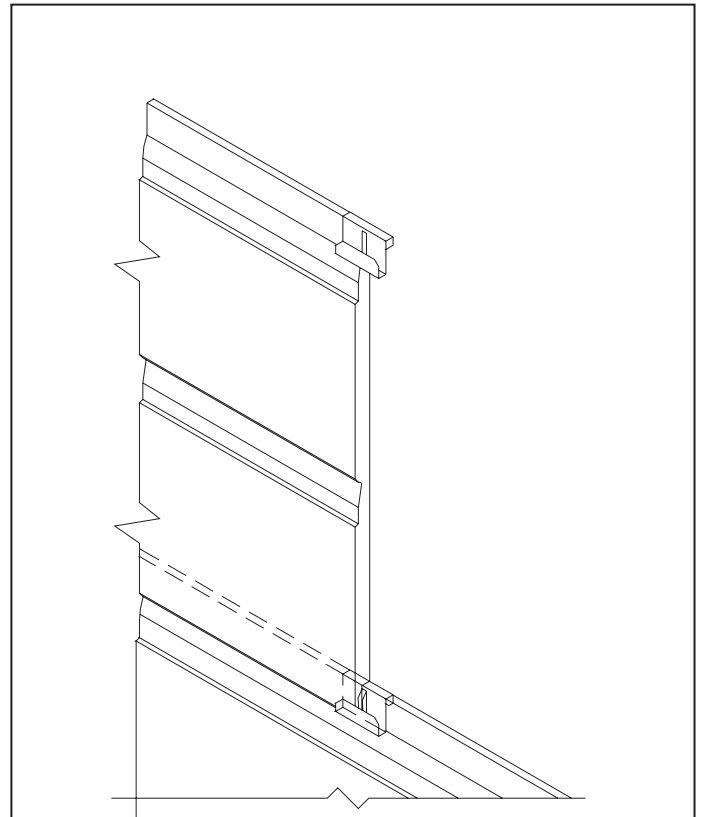
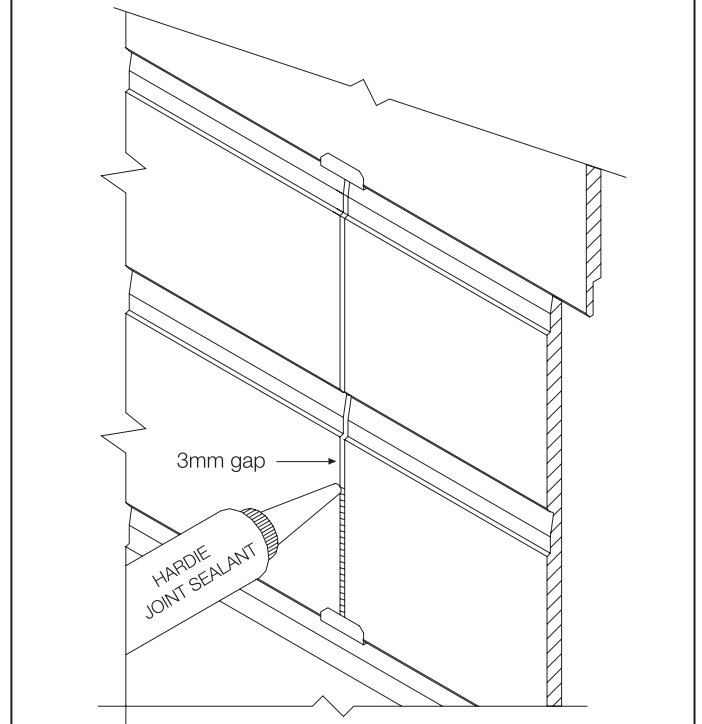


FIGURE 16 FIXING PRIMELINE™ HERITAGE AND CHAMFER WEATHERBOARDS IN N4/C2, N5/C3 WIND REGIONS



STEP 1



STEP 2

FIGURE 17 UNICLIP ACCESSORY FOR PRIMELINE™ HERITAGE AND CHAMFER WEATHERBOARDS OFF-STUD JOINTING

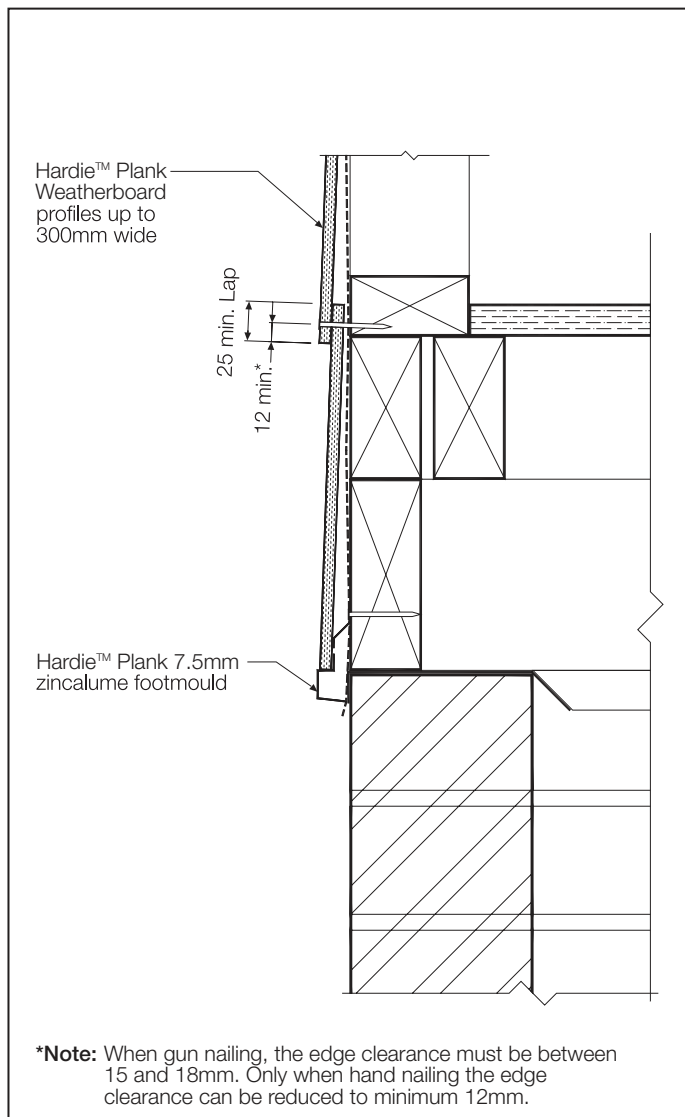


FIGURE 18 NAIL SPACINGS AND LAP FOR HARDIE™ PLANK WEATHERBOARD

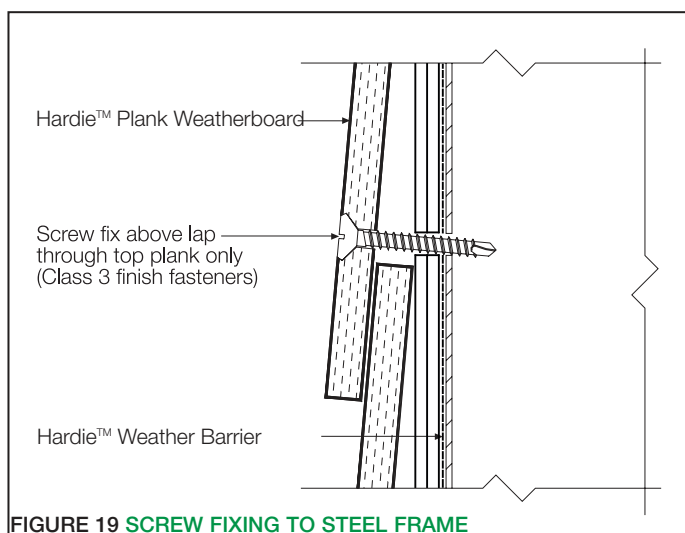


FIGURE 19 SCREW FIXING TO STEEL FRAME

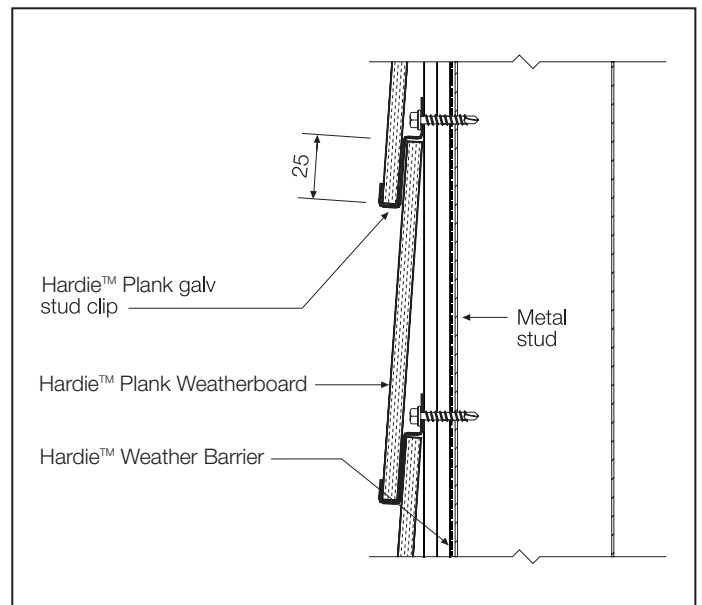


FIGURE 20 FIXING HARDIE™ PLANK STUD CLIPS

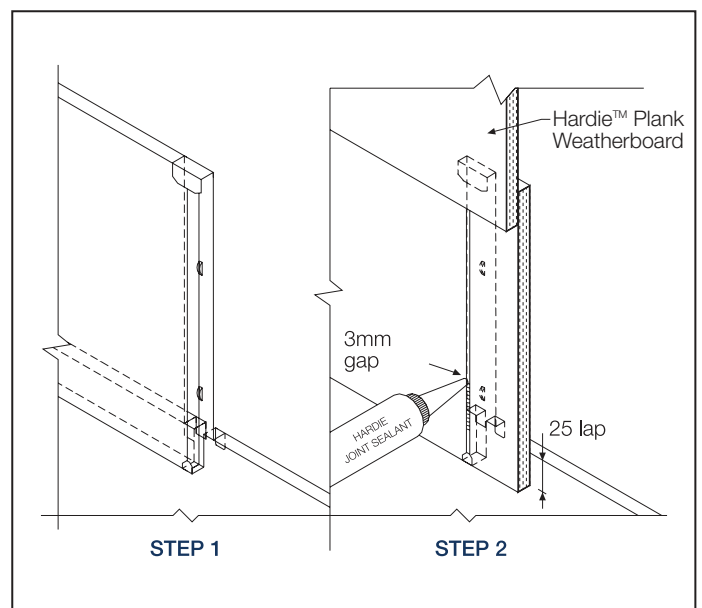


FIGURE 21 FITTING METAL SOAKER

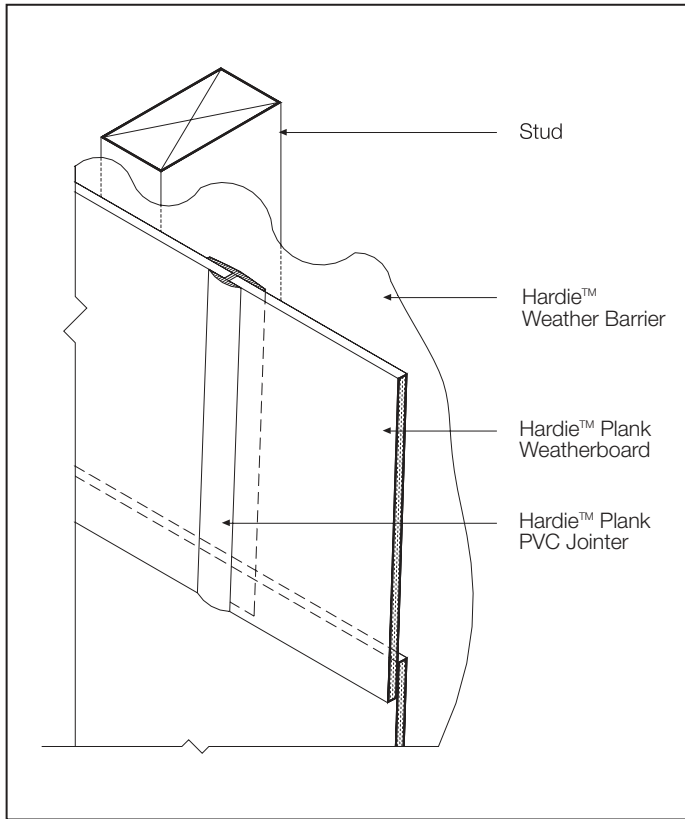


FIGURE 22 PVC JOINTING STRIP

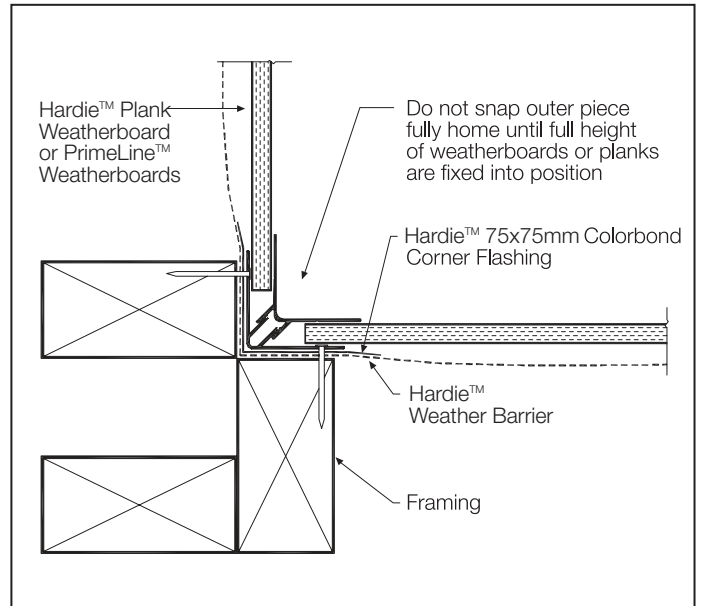


FIGURE 23 INTERNAL CORNER OPTION 1

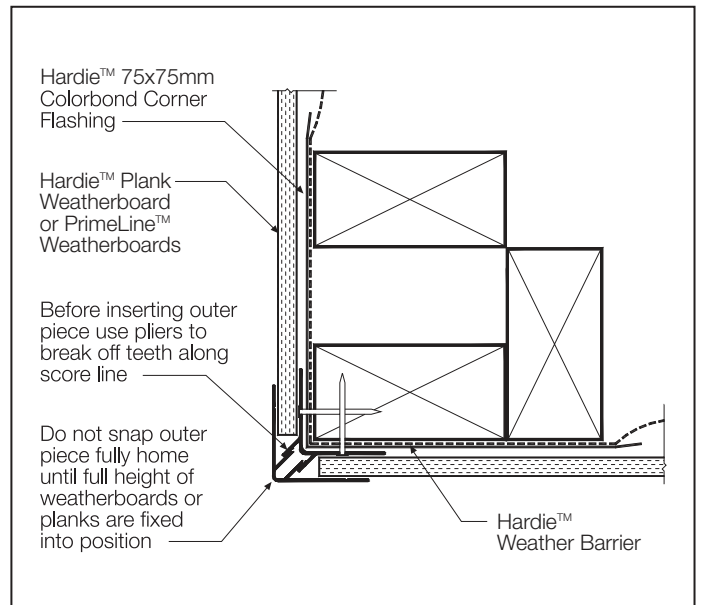


FIGURE 24 EXTERNAL CORNER OPTION 1

NOTE

For Primeline™ Heritage and Chamfer Weatherboards only, use pliers to break off teeth along score line and fix.

Warning: Do not snap pieces together until final attachment to wall.

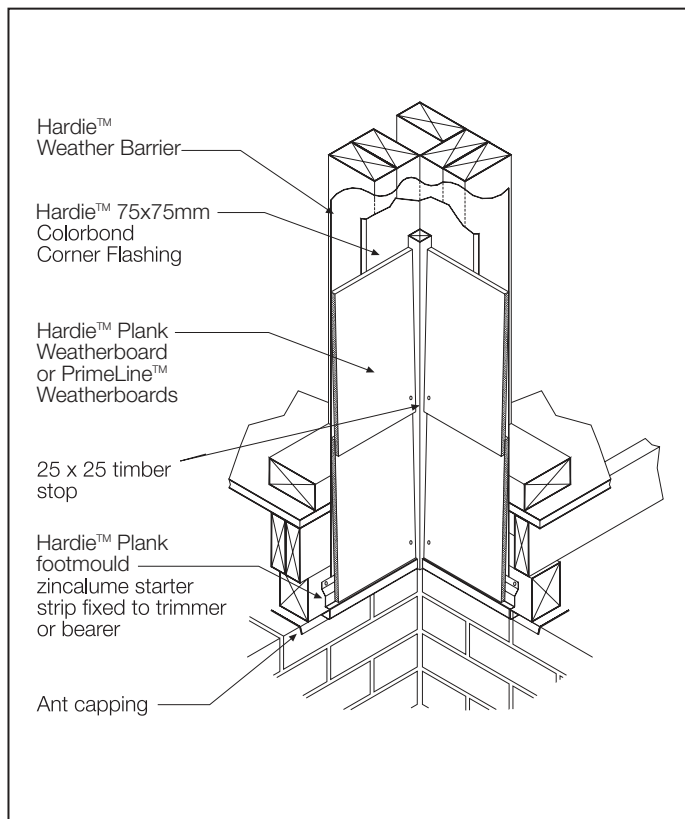


FIGURE 25 INTERNAL CORNER OPTION 2

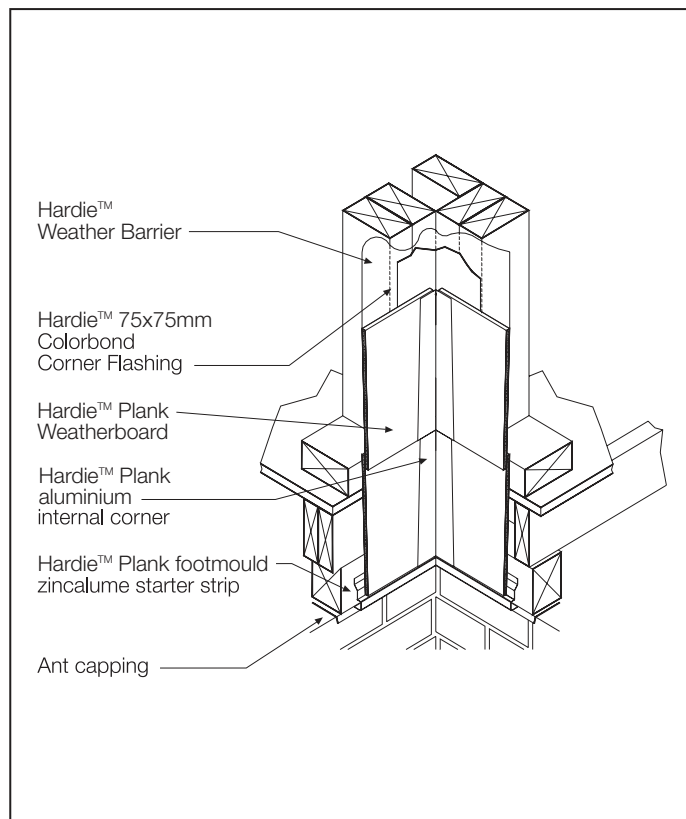


FIGURE 27 INTERNAL CORNER OPTION 3

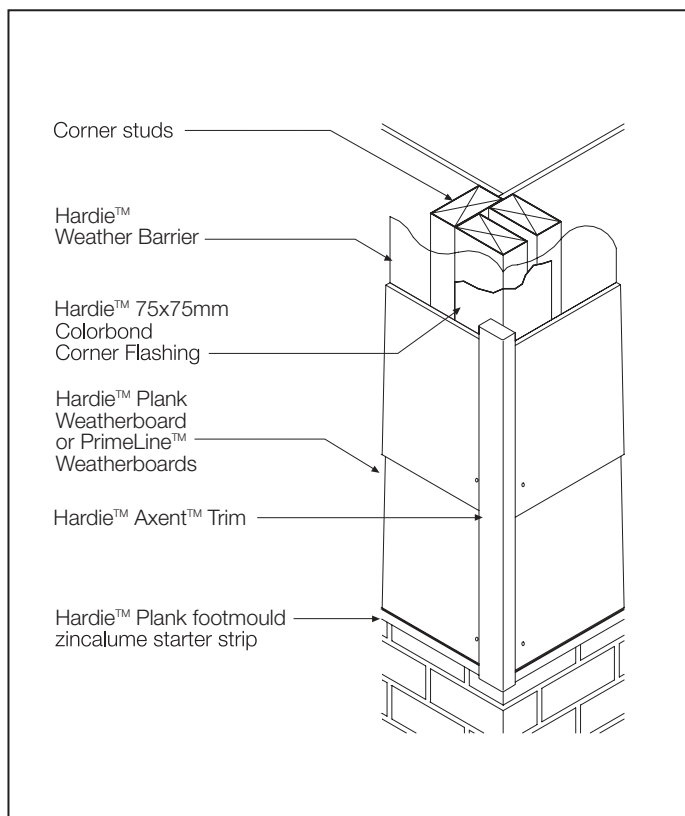


FIGURE 26 EXTERNAL CORNER OPTION 2

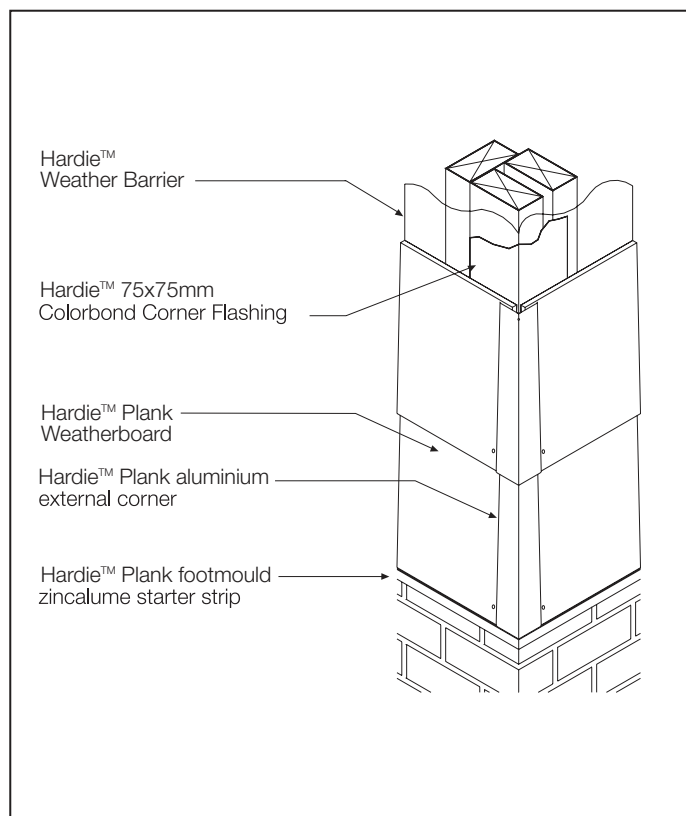


FIGURE 28 EXTERNAL CORNER OPTION 3

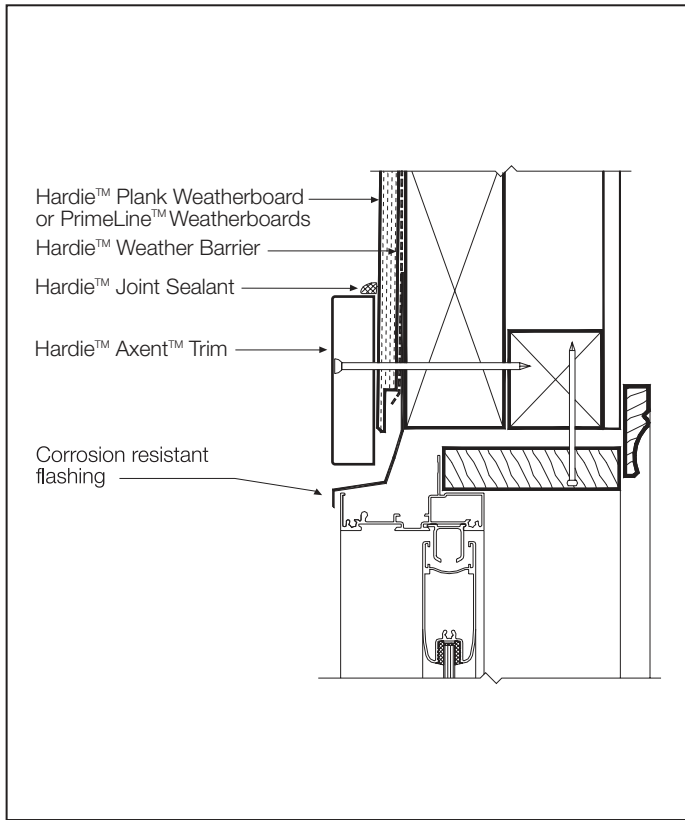


FIGURE 29 WINDOW HEAD DETAIL

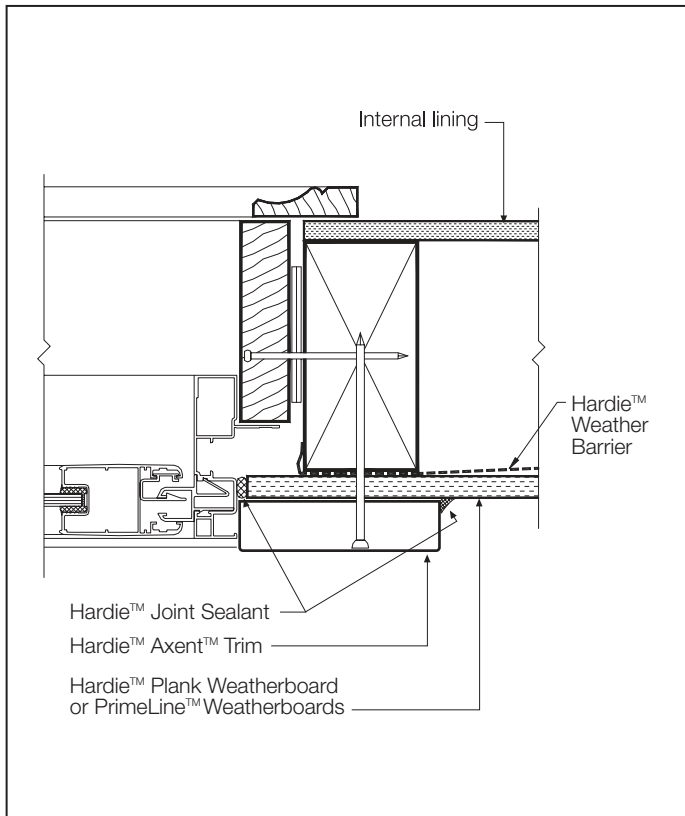


FIGURE 30 WINDOW JAMB DETAIL

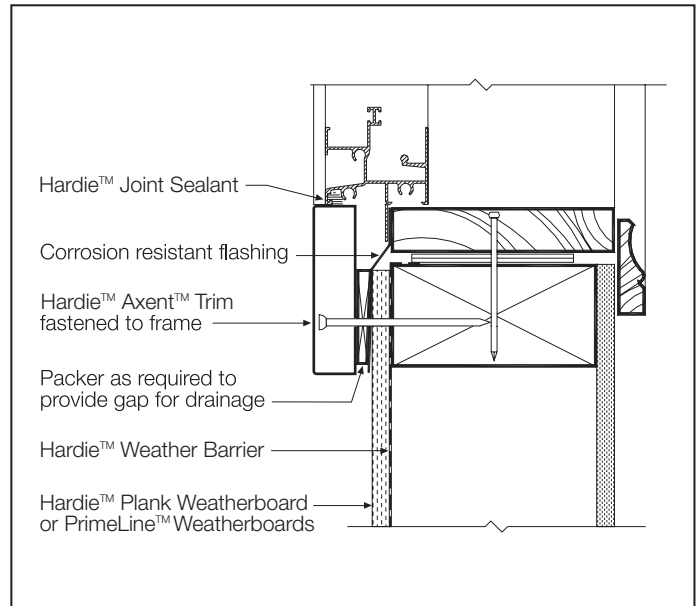


FIGURE 31 WINDOW SILL DETAIL

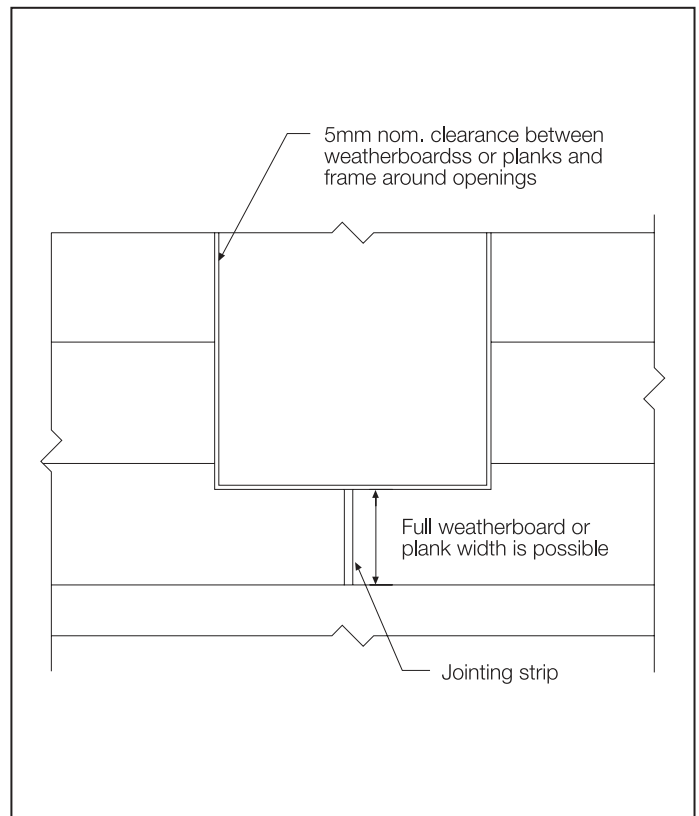


FIGURE 32 CUTTING AROUND OPENINGS

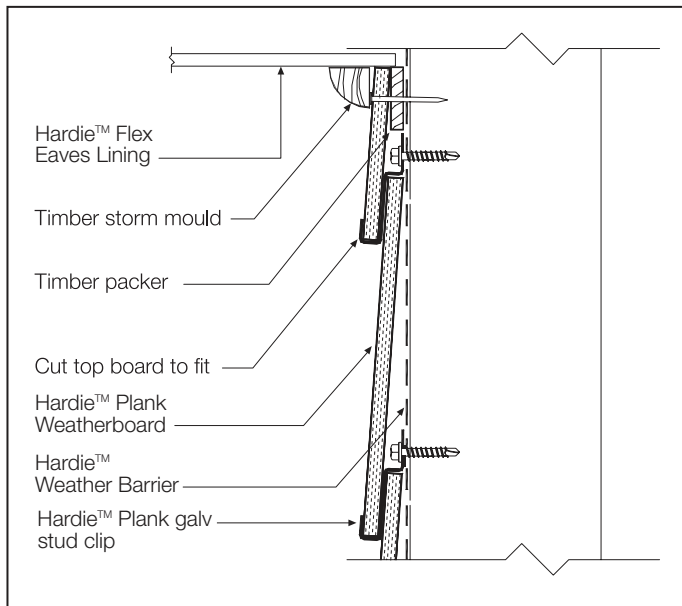


FIGURE 33 DETAIL AT EAVES

Notes



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Australia September 2025



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