

# Installation instructions

**IMPORTANT NOTES**

1. Failure to install, finish or maintain this product in accordance with applicable building codes, regulations, standards and James Hardie's written application instructions may lead to personal injury, affect system performance, violate local building codes, and void James Hardie's product warranty.
2. All warranties, conditions, liabilities (direct, indirect or consequential) and obligations whether arising in contract, tort, industry negligence or otherwise other than those specified in James Hardie's product warranty are excluded to the fullest extent allowed by law. For James Hardie's product warranty information and disclaimers about the information in this manual, see the section at the end of this manual
3. The builder must ensure the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying aesthetic surface variations following installation.
4. Make sure your information is up to date. When specifying or installing James Hardie® products, ensure you have the current manual. If in doubt, or you need more information, visit [www.jameshardie.com.au](http://www.jameshardie.com.au) or Ask James Hardie™ on 13 11 03.

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

James Hardie products contain sand, a source of respirable crystalline silica which is considered by some international authorities to be a cause of cancer from some occupational sources. Breathing excessive amounts of respirable silica dust can also cause a disabling and potentially fatal lung disease called silicosis, and has been linked with other diseases. Some studies suggest smoking may increase these risks. During installation or handling:

- (1) work in outdoor areas with ample ventilation;
- (2) minimise dust when cutting by using either 'score and snap' knife, fibre cement shears or, where not feasible, use a HardieBlade™ saw blade and dust reducing circular saw attached to a HEPA vacuum;
- (3) warn others in the immediate area to avoid breathing dust;
- (4) wear a properly-fitted, approved dust mask or respirator (e.g. P1 or P2) in accordance with applicable government regulations and manufacturer instructions to further limit respirable silica exposures. During clean-up, use HEPA vacuums or wet cleanup methods - never dry sweep. For further information, refer to our installation instructions and Material Safety Data Sheets available at [www.jameshardie.com.au](http://www.jameshardie.com.au). FAILURE TO ADHERE TO OUR WARNINGS, MATERIAL 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. Use a dust reducing circular saw equipped with HardieBlade™ saw blade and HEPA vacuum extraction.

**DRILLING/OTHER MACHINING**

When drilling or machining you should always wear a P1 or P2 dust mask and warn others in the immediate area.

**IMPORTANT NOTES**

1. NEVER use a power saw indoors.
2. NEVER use a circular saw blade that does not carry the HardieBlade™ logo.
3. NEVER dry sweep - Use wet suppression or HEPA vacuum.
4. NEVER use grinders.
5. ALWAYS follow tool manufacturers' safety recommendations.

P1 or P2 respirators should be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at [www.jameshardie.com.au](http://www.jameshardie.com.au) to help you determine the most appropriate cutting method for your job requirements. 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 James Hardie building products should be stored with edges and corners of the product protected from chipping. James Hardie building products must be installed in a dry state and protected from weather during transport and storage. The product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc.

**SCYON™ STRIA™ CLADDING AND SCYON™ AXENT™ TRIM**

PRODUCT	DESCRIPTION	SIZE (NOMINAL)			COVERAGE INFORMATION				
		Length (mm)	Width (mm)	Thickness (mm)	Effective cover (mm)	No. of boards/ metre height	Mass kg/lin m	Mass kg/m²	Pallet weight kg
	<b>Scyon- Stria- cladding Standard and Wide Profiles</b> A pre-primed board to create a 15mm horizontal and vertical joint design on external and internal walls.								
	Standard Part No. 404063	4200	325	14	300	3.3	5.2	17.3	1310 (60/pack)
	Wide Part No. 404413	4200	405	14	380	2.6	6.6	17.3	1127 (40/pack)
	<b>Scyon- Stria- cladding Splayed Profile</b> A pre-primed board to create a splayed shiplap horizontal joint design on external and internal walls. Splayed Part No. 404522	4200	255	16	230	4.3	4.6	19.8	1150 (60/pack)

Scyon™ Axent™ trim - Refer to current Scyon™ Axent™ trim manual for sizes.

**NOTES**

1. All dimensions and masses provided are approximate only and subject to manufacturing tolerances. Masses are based on equilibrium moisture content of product.

**ACCESSORIES / TOOLS SUPPLIED BY JAMES HARDIE**

ACCESSORIES	DESCRIPTION	ACCESSORIES	DESCRIPTION
	<b>Stria™ Vertical Flashing Stop. 3,000mm long</b> For use with Scyon™ Stria™ cladding behind boards at vertical joints. 5 per pack. Part No. 305547		<b>Stria™ Aluminium External Box Corner. 3,000mm long.</b> A ready to paint aluminium extrusion to be used with Scyon™ Stria™ cladding standard and wide profile to create external boxed corners. 5 per pack. Part No. 305519
	<b>HardieBlade™ Saw Blade. 185mm diameter</b> A 185mm diameter poly-diamond blade for fast and clean cutting of James Hardie fibre cement. 1 each. Part No. 300660		<b>JH 16mm Aluminium External Trim Corner 3,000mm long</b> A ready to paint aluminium extrusion to be used with Scyon™ Stria™ cladding - Splayed profile to create an external boxed corners. 5 per pack. Part No. 305630
	<b>Stria™ 14mm Aluminium Internal Corner. 3,000mm long</b> A ready to paint aluminium extrusion to be used with Scyon™ Stria™ cladding standard and wide profiles to create internal corners. 5 per pack. Part No. 305518		<b>HardieDrive™ Screw 40mm long</b> A class 3 finish self-tapping wing-tipped screw for fastening to 0.8mm to 1.6mm BMT steel frames. 500 per box. Part No. 305532
	<b>JH Aluminium Internal Corner Mould. 3,600mm long</b> A ready to paint aluminium used with 16mm Scyon™ Stria™ cladding splayed profile. Part No. 305511		<b>James Hardie™ Joint Sealant. 300ml cartridge</b> A general purpose, paintable, exterior grade polyurethane joint sealant. 20 per box. Part No. 305534
	<b>James Hardie™ 75x75mm Colorbond Corner Flashing. 3,000mm long</b> A Colourbond corner flashing for use behind cladding at internal and external corners. 5 per pack. Part No. 305564		<b>HardieWrap™ thermal strip</b> A building code requirement and is installed behind James Hardie external cladding over metal framing and HardieWrap™ weather barrier. 42x12x2750mm. Refer to HardieBreak thermal strip installation guide. 45 per pack. Part No. 305612

**COMPONENTS NOT SUPPLIED BY JAMES HARDIE** James Hardie recommends the following products for use in conjunction with its Scyon™ Stria™ cladding and Scyon™ trim. James Hardie does not supply these products and does not provide a warranty for their use. Please contact component manufacturer for information on their warranties and further information on their products.

	<b>40 and 50 x 2.8mm fibre cement nails</b> Minimum Class 3 (see fastener durability section) 40mm for concealed fixing. 50mm for face fixing.		<b>Bostik Seal 'N' Flex 1</b> A suitable replacement for where James Hardie joint sealant is specified (supplied in sausage form)
	<b>40mm Buidex FibreTEKS®</b> Galvanised screw for concealed fixing to 0.55 - 0.75mm BMT steel framing.		<b>Compound mitre saw</b> Dust reducing compound mitre saw used with HardiBlade® saw blade. Makita: LS0714/LS1013/LS1212 Hitachi: C10FSB/C12FSB
	<b>Quikdrive Collated Screw</b> 40mm long Class 3 galvanised screw for fixing to 0.8-1.6mm BMT steel framing.		<b>Gun nails and nailers</b> Suitable gun nails and nailers for face fixing to timber framing only. Minimum nail length of 50mm is required. Refer to fastener section. Minimum Class 3
	<b>Bond Breaking Tape</b> Used behind sealant at joints, refer to this document for more information.		<b>Vacuum extraction with HEPA filter</b> Used with HEPA filter and paper bag for reduced dust exposure.
	<b>ND or DA Stainless Steel Brad Nail</b> 14 gauge x 50mm ND or DA stainless steel nail for an alternative to fixing Scyon Stria cladding to frame. Two per board and suitable up to N3 only, refer to tables 1 and 2.		

## SCOPE

### General

This manual covers the use of Scyon™ Stria™ cladding in a residential facade application over a seasoned timber wall frame or a light-gauge steel frame.

## DESIGN

### Compliance

All design and construction must comply with the appropriate requirements of the current Building Code of Australia (BCA), regulations and standards.

### Responsibility

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

### 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 Building Code of Australia (BCA).

### Ground Clearances

Install James 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 James 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 below.

### Termite Protection

The BCA specifies the requirements for termite barriers. All of these requirements must be satisfied. 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.

### 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 BCA. For more information in relation to designing for weather tightness, refer to the Building Research Association of New Zealand (BRANZ), [www.branz.co.nz](http://www.branz.co.nz)

## Fire Rated Walls

Fire rated walls can be created with Scyon™ Stria™ cladding and other additional linings to achieve a 60/60/60 and 90/90/90 fire rating when constructed as specified in the James Hardie Fire and Acoustically Rated Walls Design Manual. Longer fasteners for fixing the cladding to the wall studs are required to account for the additional linings in a fire rated wall.

## FRAMING

### General

Scyon™ Stria™ cladding is installed to timber or steel framed structures. Refer to Tables 1 and 2 for maximum stud spacings for Scyon™ Stria™ cladding for Australian wind load classification of AS 4055 'Wind loads for Housing'.

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

### Special framing requirements

The following are special framing requirements for timber framing:

- Additional framing may be required at internal corners and sides of openings, see relevant details on the following pages.
- Extra framing may be necessary for fixing of head flashing and trim. Lintels must be located in the frame flush externally to adequately support the head flashing.

At vertical joints where the flashing strip is used, provide either:

- Double 45mm studs or
- Double 35mm studs separated by 15mm packers or
- Triple 35mm studs

Everywhere else, minimum single 35mm studs unless shown otherwise.

## TIMBER

Use of timber framing must be in accordance with AS 1684 - 'Residential timber-framed construction' and the framing manufacturer's specifications.

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

'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 AS 1684.2 'Residential timber-framed construction'.

## STEEL

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 manufactures specifications. Framing members must have a base metal thickness (BMT) between 0.55 to 1.6mm. The steel framing must have the appropriate level of durability required to prevent corrosion.

### Thermal Break

For steel Frames, its a building code requirement to install a thermal break behind direct fixed cladding. James Hardie recommends the James Hardie® HardieBreak™ thermal strip. Refer to the HardieBreak thermal strip installation guide for more information

### NOTE

When using 70mm deep framing it is recommended that the Scyon™ Stria™ cladding be installed prior to plumbing, electrical and other services within the frame. This will prevent these services being damaged by fasteners used to install Scyon™ Stria™ cladding.

## Tolerances

Ensure that the frame is square and work from central datum line. Frames must be straight and true to provide a flush face to receive the Scyon™ Stria™ cladding. A suggested maximum tolerance of between 3 and 4mm in any 3000mm length of frame will give best results. The Scyon™ Stria™ cladding will not straighten excessively warped or distorted frames and any warping may still be visible after product is applied. Non-flat walls will hinder ease of install and full engagement of cladding overlap interlock.

## PREPARATION

### HardieWrap™ weather barrier

HardieWrap™ weather barrier must be installed under Scyon™ Stria™ cladding in accordance with the AS/NZS 4200.2 'Pliable building membranes and underlays – Installation' and HardieWrap™ Technical Data Sheet.

HardieWrap™ weather barrier delivers a triple-shield of protection to help against external weather penetration, internal condensation build-up and external heat penetration. Additionally, it enhances the wall thermal performance, please refer to [www.jameshardie.com.au](http://www.jameshardie.com.au) or [www.accel.com.au](http://www.accel.com.au) for more information.

If using an alternate product in lieu of HardieWrap™ weather barrier, the designer must ensure that the product is fit for purpose and it has the following properties in accordance with AS/NZS 4200.1:

- Vapour barrier - low or medium
- Water barrier - high

In hot humid areas of Australia, HardieWrap™ weather barrier may not be suitable, refer to the building designer for a suitable membrane and Ask James Hardie® on 13 11 03.

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. See 'Moisture management' Section for requirements.

### Accessories

Some Scyon™ Stria™ cladding accessories may require installation prior to fixing of the boards. Refer to the relevant details in this document.

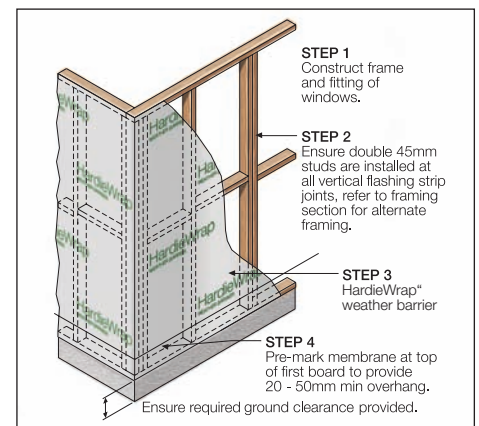


FIGURE 1 PREPARATION

### NOTES

1. Ensure all double studs are well nailed together, and flush at the outside face.
2. Generally external and internal corners have additional framing requirements and require that flashings and/or components are fitted prior to fixing the Scyon™ Stria™ cladding. Refer to the external and internal corner details.
3. Before each board is fastened, check that it is level and fully engaged with the lower board.

## INSTALLATION

### NOTES

1. You must ensure the product is of acceptable quality prior to installation, see Important Note 3.
2. Unless otherwise noted, Scyon cladding standard is shown in the following step by step instructions.

### Vertical Flashing Stop

At vertical joints, vertical flashing stops are fixed to double 45mm studs, see Figure 2. The rear of the boards are then adhered to the vertical flashing strips using James Hardie™ joint sealant.

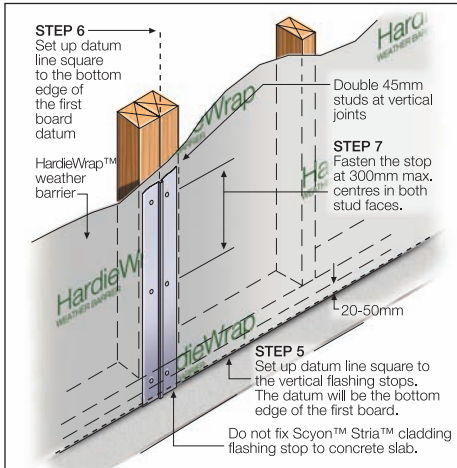


FIGURE 2 INSTALLATION OF FLASHING STRIP

When the boards are ready to be installed, apply James Hardie™ joint sealant to either side of the vertical flashing just prior to installation of each board.

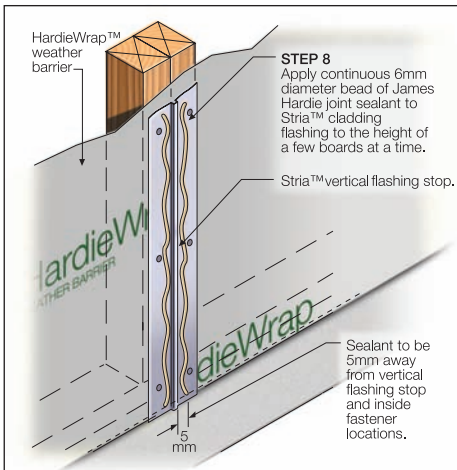


FIGURE 3 APPLY SEALANT TO FLASHING

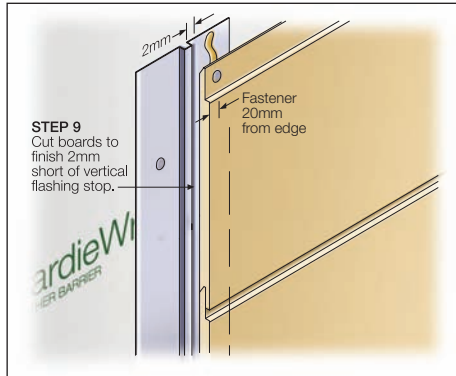


FIGURE 4 BOARD INSTALLATION

### Board Installation

#### NOTES

1. Boards should be nailed to the studs starting from the centre of the board outwards.

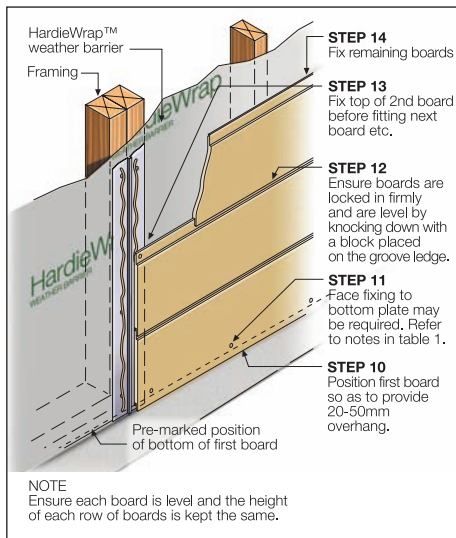


FIGURE 5 BOARD INSTALLATION

#### NOTE

For the purposes of illustration only, Figure 5 shows concealed fixing method for Scyon™ Stria™ cladding 325mm board. Face fixing for all boards may be required for higher wind load areas, see tables 1 & 2.

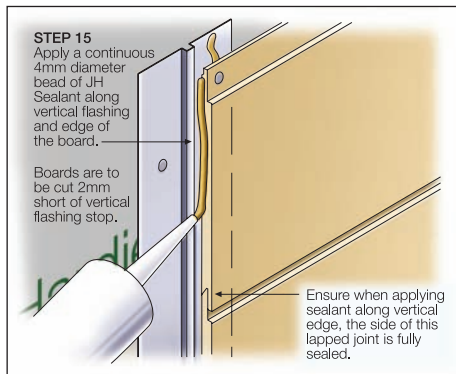


FIGURE 6 SEALING EDGE OF BOARD

### Butt Jointing of Boards

If desired Scyon™ Stria™ cladding can be joined on and off stud without the use of the vertical flashing stop to create a traditional butt joint. To maximise strength and good looks, butt joints should be staggered over two or more stud lines (i.e. do not locate joints in the same vertical line).

Ensure the board ends are square and clean.

### On Stud Jointing

Fix boards to studs leaving a 3mm gap for sealant.

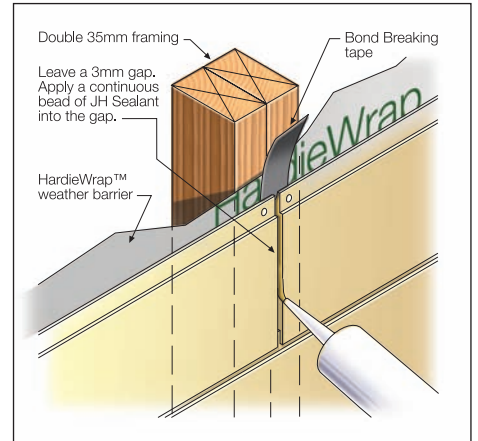


FIGURE 7 ON STUD JOINTING

### Off Stud Jointing

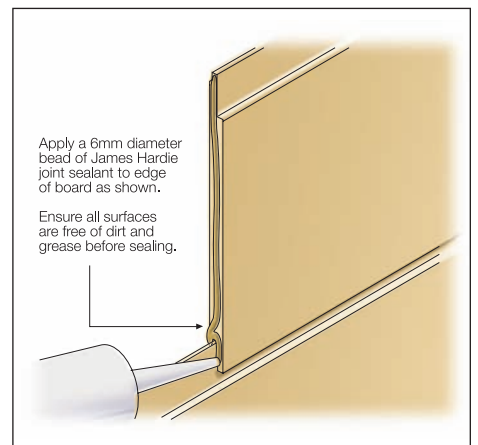


FIGURE 8 SEALING EDGE OF BOARD ( STEP 1/2 )

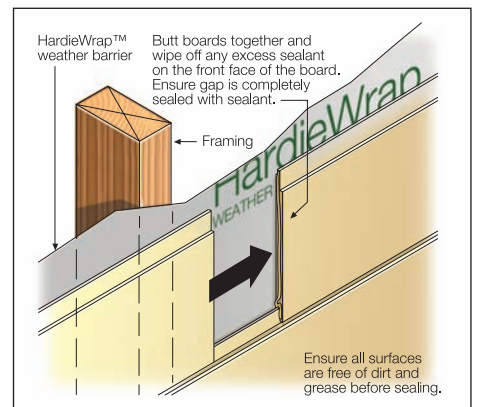


FIGURE 9 OFF STUD JOINTING ( STEP 2/2 )

## Stud Spacing and fixing requirements

### NOTE

For steel frames, Tables 1 and 2 are applicable but use appropriate screws as specified under 'Steel frames'.

TABLE 1 - Fixing Options AS 4055 Wind Classification.

Scyon™ Stria™ cladding standard and splayed Profile. Figures 10A, 10B & 10C						
TIMBER FRAMING						
Non-Cyclonic Wind	Cyclonic Wind	Fasteners Details		Fixing Figure	Stud Spacing (mm)	
					General Areas of Walls	Within 1200mm of building edges
Concealed Fixing Option						
N1, N2, N3	C1	40mm FC Nail	1 per board in underlap HAND NAILED	10A	600	600 450 (For steel frame)
Face Fixing Options						
N1, N2, N3	C1	50mm Brad Nail (ND or DA)	2 per board-through face	10B	600	600
N1, N2, N3	C1	50mm Gun Nail	1 per board-through face	10C	600	600
N4	C2	50mm Gun Nail	1 per board-through face	10C	600	450
N5, N6	C3, C4	50mm Gun Nail	2 per board-through face	10C	450	300

TABLE 2 - Fixing Options AS 4055 Wind Classification

Scyon™ Stria™ cladding wide profile. Figures 10B, 10C & 10D						
TIMBER FRAMING						
Non-Cyclonic Wind	Cyclonic Wind	Fasteners Details		Fixing Figure	Stud Spacing (mm)	
					General Areas of Walls	Within 1200mm of building edges
Face Fixing Options						
N1, N2, N3	C1	50mm Brad Nail (ND or DA)	2 per board-through face	10B	600	600
N1, N2, N3	C1	40mm FC Nail + (50mm Brad ND or DA Nail or 50mm Gun Nail)	2 per board -1 in underlap, (Hand nailed) and 1 through face (Gun nail)	10D	600	600
N4	C2	50mm Gun Nail + 40mm FC Nail	2 per board -1 in underlap, (Hand nailed) and 1 through face (Gun nail)	10D	600	450
N5, N6	C3, C4	50mm Gun Nail	3 per board-through face	10C	450	300

### NOTES

#### FIXING TOP AND BOTTOM ROWS OF BOARDS

- For N1, N2, N3 & C1 Bottom and top boards must be fixed with brad nails at 150mm centres or 300mm centres for other fixings.
- For N4, N5, N6, C3 & C4 top and bottom board must be fixed at 150mm centres.
- Fixing at every stud. Unless otherwise stated all values are for timber & steel.

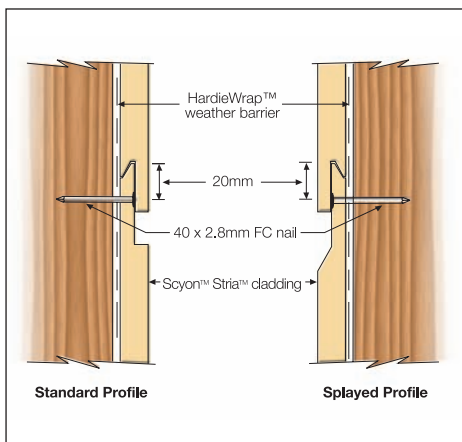


FIGURE 10A CONCEALED FIXING FOR STANDARD AND SPLOYED PROFILES

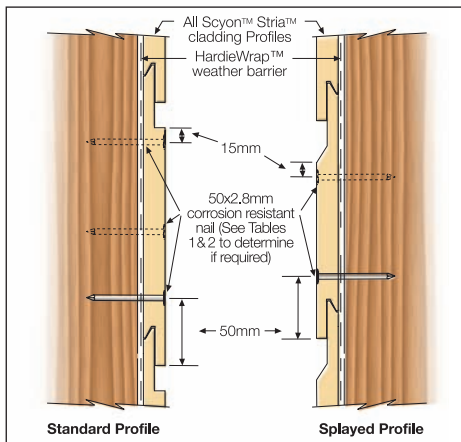


FIGURE 10C ALL 3 SCYON STRIA CLADDING PROFILES

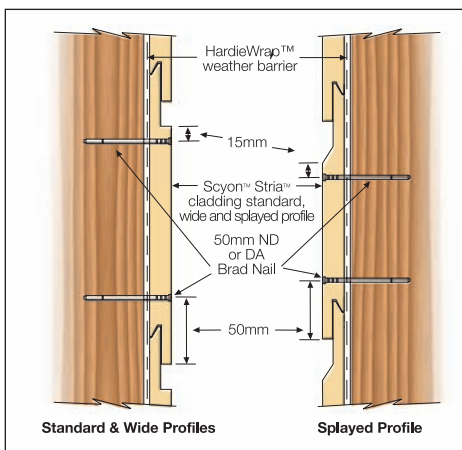


FIGURE 10B FACE FIXING BRAD NAILS: FOR ALL 3 SCYON STRIA CLADDING PROFILES

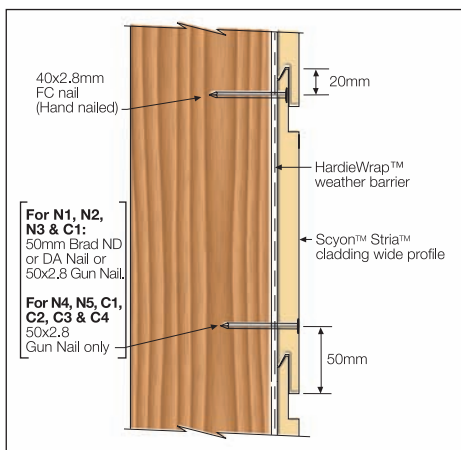


FIGURE 10D FACE/CONCEALED FIXING FOR WIDE PROFILE

## FIXING

Scyon™ Stria™ cladding can be fixed by either concealed or face fixing methods depending on the fastener type and wind classification of the building.

NOTE Hold the board hard to the stud when fixing.

## FASTENERS

The minimum edge distance to the end of the board is 20mm. All fasteners should be driven flush as shown below.

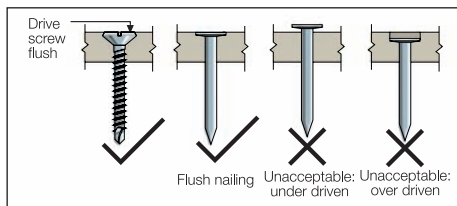


FIGURE 11 FASTENER DEPTH

## Fastener Durability

Fasteners must have the appropriate level of durability required for the intended project. This is of particular importance in coastal areas, 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.

## Timber Frames

### Hand nailing

For fixing through the lap, use 2.8 X 40mm minimum Class 3 fibre cement nails on the underlap in accordance with table 1 and 2 for wind classifications N1, N2 & N3 only.

For face fixing, use 2.8 x 50mm minimum Class 3 fibre cement nails in accordance with tables 1 and 2.

### Gun nailing

Gun nailing is only suitable for face fixing and not for fixing through board lap. A minimum class 3 50mm long coil nail or a 50mm Deckfast type D head 2.5mm dia fastener may be used for face fixing only.

If using nail guns refer to fixing options table for nailing configuration. Underlap nail is placed 20mm down from top on tongue.

Face nails are placed 50mm up from the bottom edge. If a second face nail is required it is placed 15mm down from the face ledge. See Figure 10C.

Adjust nail gun to set nail proud of surface, then carefully flush fix with a hammer by hand.

Do not overdrive the nails.

## Steel Frames

For both concealed and face fixing, a minimum class 3. Do not overdrive the screws.

For steel frames 0.55 to 0.75mm BMT, use 40mm Buildex Fibretek screws.

For steel frames 0.8 to 1.6mm BMT use 42mm HardieDrive or Quickdrive screws.

James Hardie HardieBreak™ thermal strip must be installed behind the Scyon™ Stria™ cladding. Refer to the HardieBreak™ thermal strip manual for more information.

## EXTERNAL CORNERS

### Scyon™ Axent™ trim corner

NOTE: Refer to Scyon™ Axent™ trim Installation Instructions for installation information.

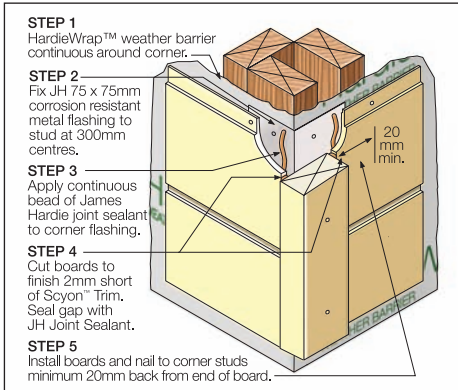


FIGURE 12 EXTERNAL TRIM CORNER - ALL PROFILES

### Mitre Corner

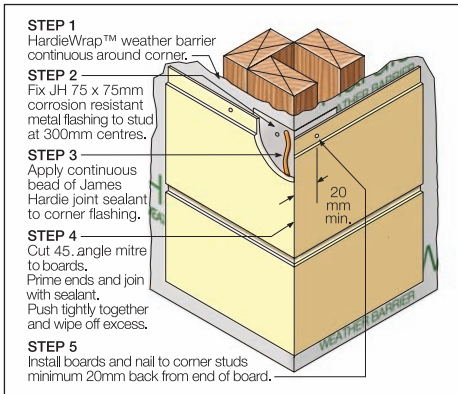


FIGURE 13 EXTERNAL MITRE CORNER - ALL PROFILES

### Box Corner

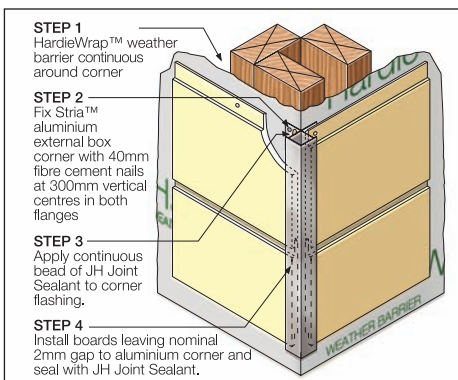


FIGURE 14 STRIA 14MM EXTERNAL BOX CORNER - STANDARD AND WIDE PROFILES

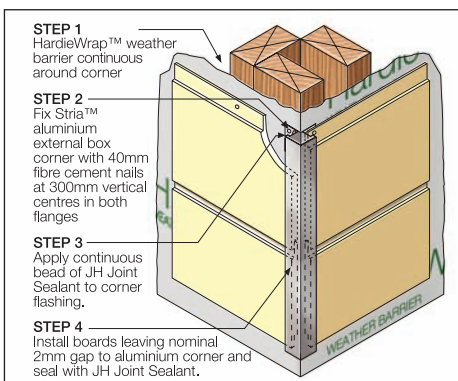


FIGURE 14B JH 16MM ALUMINIUM EXTERNAL TRIM CORNER - SPLAYED PROFILE

## INTERNAL CORNERS

### Internal Mitre Corner

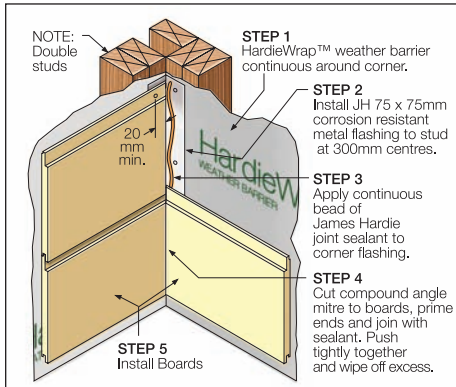


FIGURE 15 INTERNAL MITRE CORNER - ALL PROFILES

### Internal Aluminium Corner

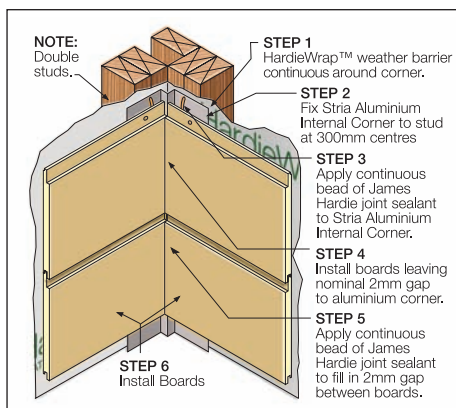


FIGURE 16 ALUMINIUM 14MM CORNER DETAIL - STANDARD AND WIDE PROFILE

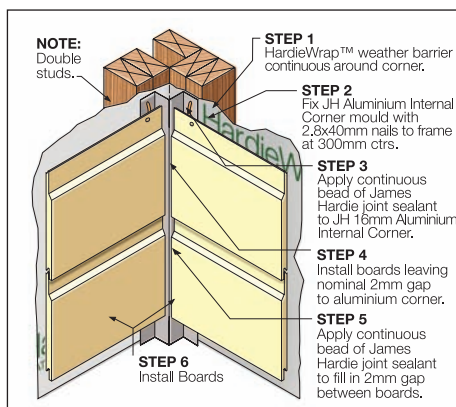


FIGURE 16B ALUMINIUM 16MM CORNER DETAIL - SPLAYED PROFILE

## WINDOWS

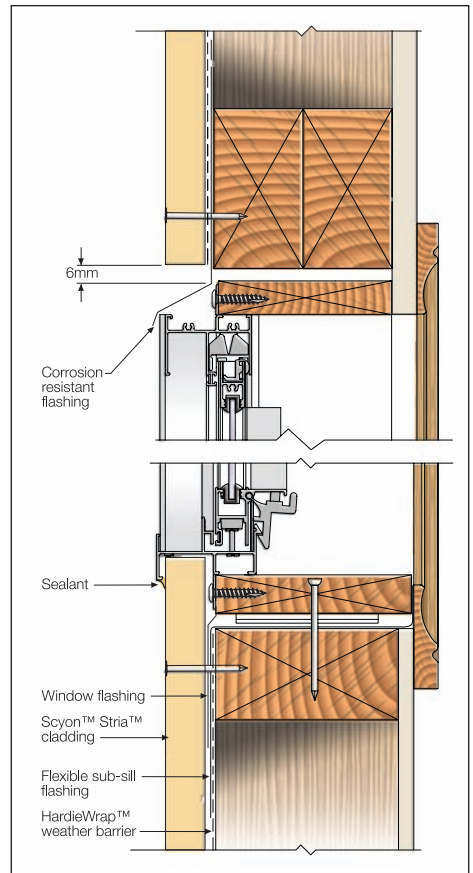


FIGURE 17 WINDOW CROSS SECTION

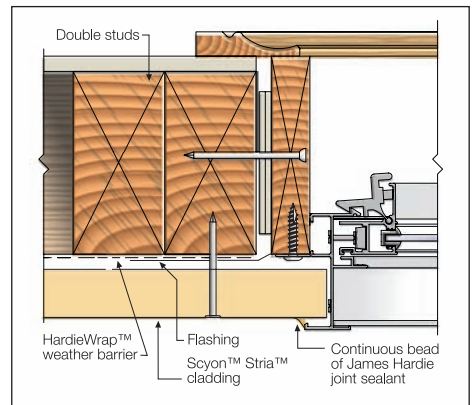


FIGURE 18 WINDOW JAMB DETAIL

## SLAB / EAVE JUNCTION

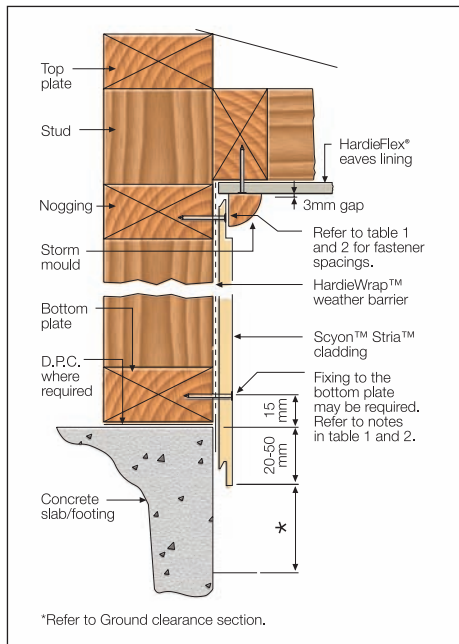


FIGURE 19 SLAB / EAVE DETAIL

## FINISHING

### Preparation and Priming

Scyon™ Stria™ cladding and Scyon Trim are pre-primed and must be dry before painting.

Priming of filled and sanded patches may be required in accordance with paint manufacturer's specifications.

NOTE: Care must be taken not to over-sand the boards as it can affect the finish.

### Sealants

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

### Painting

Refer to the project specification for paint requirements. The Scyon™ Stria™ cladding and Scyon™ Axent™ trim are pre-primed and must be painted within 3 months of being fixed. James Hardie recommends the application of two coats minimum of a quality exterior acrylic paint over the pre-primed boards in accordance with the paint manufacturer's specifications. Some environments require special coatings. Painting selection and specifications are dependant on the paint chosen. Refer to the paint manufacturer for information and details of their warranty.

### Staining

James Hardie does not recommend stains and clear coats directly applied to its external cladding products. For a stained look solution, contact the James Hardie technical team on 13 11 03

## 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\*
- 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.
- Ensuring clearances specified in this document are maintained.
- 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.

## PRODUCT INFORMATION

### General

Scyon™ Stria™ cladding and Scyon™ Axent™ trim are made from an advanced material composite technology. The basic composition is Portland cement, ground sand, cellulose fibre, water and proprietary additives.

Scyon™ Stria™ cladding and Scyon™ Axent™ trim are manufactured to AS/NZS 2908.2 'Cellulose-Cement Products Part 2: Flat Sheets'.

Scyon™ Stria™ cladding and Scyon™ Axent™ trim are classified Type A, Category 2 in accordance with AS/NZS 2908.2.

For Material Safety Data Sheets (MSDS) visit [www.jameshardie.com.au](http://www.jameshardie.com.au) or Ask James Hardie™ on 13 11 03.

### Durability

#### Resistance to moisture/rotting

The Scyon™ Stria™ cladding and Scyon™ Axent™ trim has demonstrated resistance to permanent moisture-induced deterioration (rotting) by passing the following tests in accordance with AS/NZS 2908.2:

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

#### Resistance to fire

Scyon™ Stria™ cladding is suitable where non-combustible materials are required in accordance with C1.12 of the Building Code of Australia.

James 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 250m<sup>2</sup>/kg, as referenced in Specification C1.10a of the BCA.

#### Resistance to termite attack

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

## Alpine regions

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

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

## Scyon™ Stria™ cladding

### 25 YEAR WARRANTY

#### January 2012

James Hardie Australia Pty Limited ("James Hardie") warrants to the first purchaser of Scyon™ Stria™ cladding (**Product**) from James Hardie and the last purchaser of the Product prior to installation that, subject to compliance with the Conditions of Warranty below:

- for a period of 25 years from the date of purchase, the Product will be free from defects due to defective factory workmanship or materials; and
- for a period of 25 years from the date of purchase, the Product will be resistant to damage from cracking, moisture, rotting, fire and termites to the extent set out in James Hardie's relevant published literature current at the time of installation; and
- for a period of 12 months from the date of purchase that the accessories supplied by James Hardie will be free from defects due to defective factory workmanship or materials.

For the purposes of this warranty, a "defect" in respect of the Product means a non-compliance with AS/NZS 2908.2:2000 Cellulose-cement products - Flat sheet.

### CONDITIONS OF WARRANTY

This warranty is strictly subject to the following conditions:

- James Hardie will not be liable for breach of this warranty unless the claimant provides proof of purchase of the Product and makes a written claim to James Hardie at the address set out below, either within 30 days after the defect would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation.
- the Product is subject to natural variation in finish as part of the manufacturing process. The builder/installer must ensure the Product meets aesthetic requirements before installation. Subject to the terms of this warranty, after installation of the Product, James Hardie is not liable for claims arising from aesthetic surface variations if such variations were, or would upon reasonable inspection have been, apparent prior to installation;
- this warranty cannot be relied upon by any other person and is not transferable;

(d) the Product must be installed and maintained strictly in accordance with the relevant James Hardie literature current at the time of installation and must be installed in conjunction with the components or products specified in the literature. To obtain copies of such literature go to or contact Ask James Hardie™ on 13 11 03. Further, all other products, including coating and jointing systems, applied to or used in conjunction with the Product must be applied or installed and maintained strictly in accordance with the relevant manufacturer's instructions and good trade practice;

(e) the project must be designed and constructed in strict compliance with all relevant provisions of the current Building Code of Australia, regulations and standards;

(f) if the claimant chooses to rely upon this warranty then the claimant's sole remedy under this warranty for breach of this warranty is (at James Hardie's option) that James Hardie will either supply replacement Product, rectify the affected Product or pay for the cost of the replacement or rectification of the affected Product;

(g) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, James Hardie will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing, James Hardie will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing, settlement or structural movement and/or movement of materials to which the Product is attached, incorrect design of the structure, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions, efflorescence or performance of paint/coatings applied to the Product, normal wear and tear, growth of mould, mildew, fungi, bacteria, or any organism on any Product surface or Product (whether on the exposed or unexposed surfaces);

(h) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, all warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law;

(i) If meeting a claim under this warranty involves re-coating of Product, there may be slight colour differences between the original and replacement Product due to the effects of weathering and variations in materials over time and James Hardie is not liable for any such colour differences;

(j) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product and therefore to this warranty, all expenses incurred as a result of claiming under this warranty are to be borne by the claimant.

(k) In the circumstances where the Australian Consumer Law does apply in respect of the purchase of the Product and therefore to this warranty, if James Hardie accepts or it is determined by James Hardie that the claimant has a valid claim under this warranty, James Hardie will bear the claimant's reasonable costs of claiming under this warranty. The claimant is responsible for all other costs of claiming under this warranty. All claims for such costs are to be notified to James Hardie at the address outlined below within 21 days from when the claimant first makes a claim under this warranty.

#### **DISCLAIMER**

The recommendations in James Hardie's literature are based on good building practice but are not an exhaustive statement of all relevant information and are subject to conditions (d), (e), (g) and (h) above. Further, as the successful performance of the relevant system depends on numerous factors outside the control of James Hardie (e.g. quality of workmanship and design), James Hardie shall not be liable for the recommendations in that literature and the performance of the relevant system, including its suitability for any purpose or ability to satisfy the relevant provisions of the Building Code of Australia, regulations and standards.

#### **IMPORTANT NOTE**

If you acquire goods manufactured by James Hardie as a consumer according to the Australian Consumer Law, our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any rights a consumer may have under this warranty are in addition to other rights and remedies of a consumer under a law in relation to the goods to which this warranty relates. Nothing in this document shall exclude or modify any legal rights a customer may have under the Australian Consumer Law or otherwise which cannot be excluded or modified at law.

Contact details if you wish to make a claim under this warranty: For more information or to make a claim under this warranty please Ask James Hardie™ on 13 11 03, visit [www.jameshardie.com.au](http://www.jameshardie.com.au) or [www.accel.com.au](http://www.accel.com.au), email James Hardie via our website or write to James Hardie at:

**James Hardie Australia Pty Ltd**  
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**PO Box 70 Parramatta NSW 2124**

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