

Technical Supplement

Australia September 2018

Vertical Scyon™ Stria™ Cladding

EXTERIORS - CUSTOM DESIGN

The standard recommendation for Scyon™ Stria™ cladding is to install the boards in a horizontal orientation as outlined in the current Scyon™ Stria™ Installation Guide.

This supplement covers the installation of Scyon™ Stria™ cladding in a 90 degree vertical orientation.

Unless otherwise stated, this supplement must be read in conjunction with the current Scyon™ Stria™ Installation Guide available at www.jameshardie.com.au.

The following technical information is provided as a guide.

Designs as shown can vary from project to project. It is the responsibility of the designer to undertake specific design and detailing for areas that fall outside the scope of current technical literature and this technical supplement.

Use the below table to determine the correct fixing method:

Fixing	Scyon™ Stria™ 325 profiles	Scyon™ Stria™ 405 wide profiles	Scyon™ Stria™ 255 splayed profiles
Option 1 - Direct to Stud	✓*		
Option 2 - Off Stud	✓	✓	✓
Option 3 - Top Hat	✓*		

* Suitable for wind zones up to N3 & C1

There are 3 options to fixing vertical Scyon™ Stria™ cladding:

Option 1. Fix directly to stud - Scyon™ Stria™ 325mm

- See Figure 1
- Studs spaced 300mm apart
- Suitable for wind zones up to and including N3 & C1

Option 2. Fix directly off stud - Scyon™ Stria™ 255mm, 325mm or 405mm

- See Figure 2
- Noggings spaced every 450mm centres up the wall
- Suitable for wind zones up to and including N4 & C2

Option 3. Fix to James Hardie™ Intermediate Top Hats - Scyon™ Stria™ 325mm ONLY

- See Figure 3
- Top Hats spaced at 300mm apart
- Suitable for wind zones up to and including N3 & C1

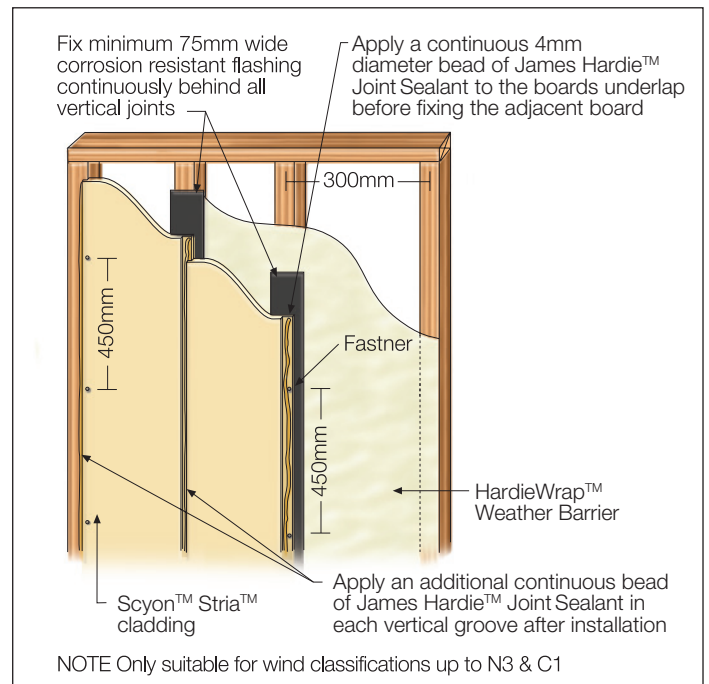


FIGURE 1 OPTION 1 - FIXED DIRECT TO STUDS (SCYON™ STRIA™ 325MM)

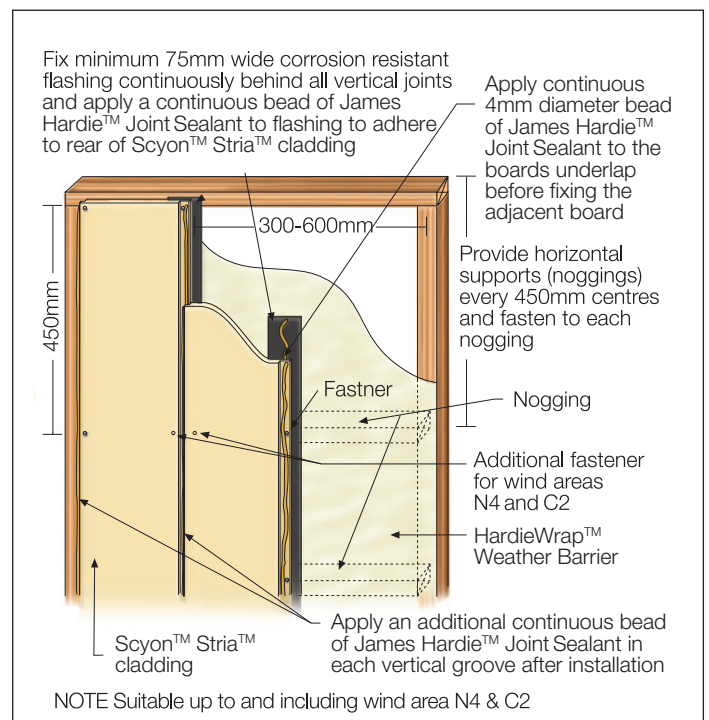


FIGURE 2 OPTION 2 - FIXED DIRECTLY OFF STUDS (ALL SCYON™ STRIA™ PROFILES)

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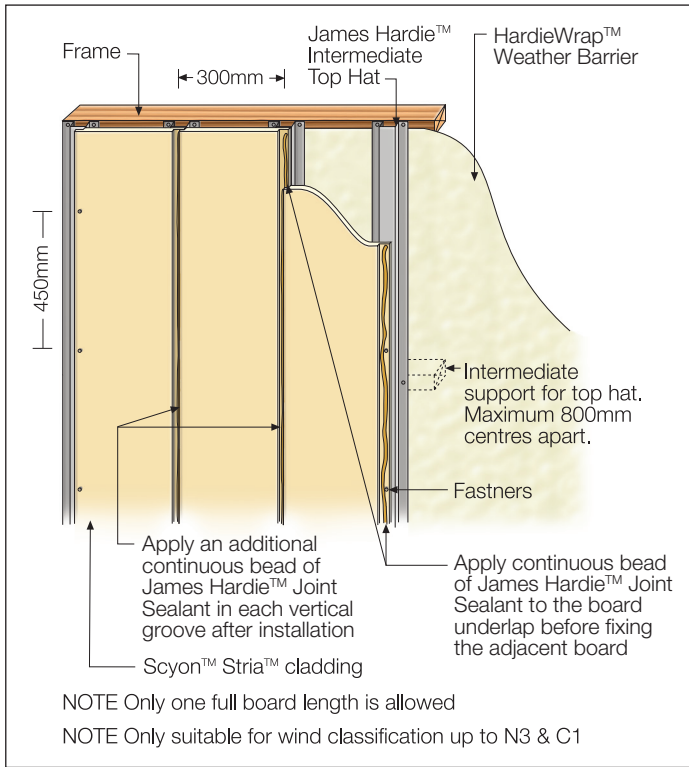


FIGURE 3 OPTION 3 - FIXED TO JAMES HARDIE TOP HATS (SCYON™ STRIA™ 325MM ONLY)

DESIGN INFORMATION

- A Vapour permeable membrane must be installed under the James Hardie™ Top Hats.
- It is the responsibility of designer or specifier to identify moisture related risks associated with any particular building design. All wall openings, penetrations, intersections, connections, window sills, heads and jambs must be flashed prior to cladding installation.

There are three options to installing Scyon™ Stria™ cladding in a vertical orientation.

OPTION 1: FIXED DIRECTLY TO STUD (Scyon™ Stria™ 325mm)

This option involves installing Scyon™ Stria™ cladding vertically direct to studs spaced 300mm apart. Suitable for wind classifications up to and including N3 and C1 only.

Fixing

- Behind every vertical joint, install a continuous corrosion resistant metal flashing 75mm wide.
- Fix the Scyon™ Stria™ cladding at 450mm maximum spacings into each stud through the rebated cladding edge. Ensure each boards shiplap fully engages with the adjacent board to fully lock it into position.
- For timber, use min. 50 x 2.8mm class 3.
- When using HardieBreak™ Thermal Strip: for steel, 0.55-0.75, use 42mm Scrooz FibreFix. For steel 0.8 - 1.6 use 40mm Hardiedrive™.
- Direct to steel frame (without HardieBreak™ Thermal Strip): For steel, 0.55-0.75mm use 32mm Scrooz FibreFix. For steel 0.8-1.6mm use 32mm HardieDrive™ screws
- A 4mm diameter bead of James Hardie™ Joint Sealant is to be continuously applied between the overlapping joint and also applied continuously to the front of the joint to seal the joint once all boards are installed.
- Boards must be discontinuous at floor junction, A 'Z' flashing is to be installed to flash out trapped moisture.

- The gap between the sheet and wall frame at the base of the wall frame is closed off with a corrosion resistant metal 'Z'. This flashing helps prevent vermin from entering the cavity and allows trapped moisture to be guided out of the cavity.
- Ensure studs are at 300mm centres.

OPTION 2: FIXED DIRECTLY OFF STUD TO NOGGINGS (All Scyon™ Stria™ profiles)

This option involves installing Scyon™ Stria™ cladding vertically direct to noggings which are spaced 450mm apart. Requires two fasteners every 450mm (one concealed and one face fixed).

Fixing

- Ensure that noggings are spaced vertically apart at 450mm maximum centres.
- Behind every vertical joint, install a continuous corrosion resistant metal flashing 75mm wide. A continuous bead of James Hardie™ Joint Sealant is applied to the flashing which will adhere to rear of the Scyon™ Stria™ cladding
- Fix the Scyon™ Stria™ cladding at 450mm maximum spacings into each nogging or stud through the rebated cladding edge. Ensure each boards shiplap fully engages with the adjacent board to fully lock it into position.
- For timber, use min. 50 x 2.8mm Class 3. Hand Nail.
- When using HardieBreak™ Thermal Strip: For steel, 0.55-0.75, use 42mm Scrooz FibreFix. For steel 0.8 - 1.6 use 40mm Hardiedrive™.
- Direct to steel frame (without HardieBreak™ Thermal Strip): for steel, 0.55-0.75mm use 32mm Scrooz FibreFix. For steel 0.8-1.6mm use 32mm HardieDrive™ screws.
- A 4mm diameter bead of James Hardie™ Joint Sealant is to be continuously applied to the underlap of each board and also applied continuously to the front of each joint once all boards are installed.
- Boards must be discontinuous at the floor junction, A 'Z' flashing is to be installed to flash out trapped moisture.
- The gap between the board and wall frame at the base of the wall frame is closed off with a corrosion resistant metal 'Z'. This flashing helps prevent vermin from entering the cavity and allows trapped moisture to be guided out of the cavity.

OPTION 3: FIXED TO JAMES HARDIE™ TOP HATS (Scyon™ Stria™ 325mm ONLY)

This option involves installing vertical James Hardie™ Intermediate Top Hats at 300mm centres. As the cladding is installed to top hats a horizontal junction is not needed at a floor junction unless specified by a structural engineer. Only suitable for wind classification up to and including N3 and C1 only.

Fixing

- Fixing of the Scyon™ Stria™ cladding must be at 450mm maximum centres along each top hat through the rebated cladding edge. Ensure each boards shiplap fully engages with the adjacent board to fully lock it into position.
- Only use specified fasteners prescribed in the Scyon™ Stria™ Installation Guide. The HardieDrive™ Screw 32mm is designed to suit the thickness and depth of the James Hardie™ Intermediate Top Hat.
- A 4mm diameter bead of James Hardie™ Joint Sealant is to be continuously applied between the overlapping joint and also applied continuously to the front of the joint to seal the joint once all boards are installed.

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- Boards can span over one floor junction if the wall frame is residential construction i.e. only seasoned timber and light gauge steel (0.55 – 1.60 mm BMT).
- The gap between the sheet and wall frame at the base of the wall frame is closed off with a corrosion resistant metal 'Z'. This flashing helps prevent vermin from entering the cavity and allows trapped moisture to be guided out of the cavity.
- Top hats need to be installed vertically at 300mm centres to provide continuous support to all boards.
- Only James Hardie™ Intermediate Top Hats to be used.
- The fixing of the structural top hats to the wall frame must be designed by the site engineer. Ensure the thickness of the stud is wide enough to accept the fasteners fixing the top hats to the frame.

MAINTENANCE

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

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

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

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