ARCHITECTURAL™

INSTALLATION GUIDE

ARChitectural™ Inraw™ panels

Made in New Zealand

AUSTRALIA MARCH 2018

IMPORTANT NOTES

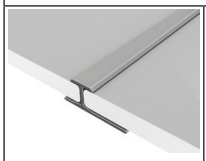
1. Suitable for internal use only.
2. Failure to install, finish or maintain this product in accordance with applicable building codes, regulations, standards and James Hardie's written application instructions may lead to personal injury, affect system performance, violate local building codes, and void James Hardie's product warranty.
3. 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 or Ask James Hardie™ on 13 11 03.

ARCHITECTURAL™ INRAW™ PANEL

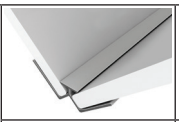
FINISH	DESCRIPTION	SIZE MM (NOMINAL)				
		Width	Length	Thickness	Mass kg/m²	Pallet weight
 Satin Gloss	A pre-finished panel with the natural look of concrete made from James Hardie™ 6mm thick cement composite substrate and coated using advanced and durable ChromaShield™ technology 100 series. Available in either satin or gloss. The slight variances in shade, tone and pattern is an inherent characteristic of Inraw™ panel, with each panel having its own unique characteristics.	1200	2700	6	10	388 (12 per pack)

NOTES
All dimensions and masses provided are approximate only and subject to manufacturing tolerances. Masses are based on equilibrium moisture content of product. For product codes refer to www.jameshardie.com.au

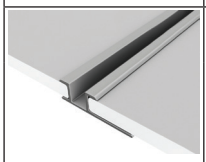
ACCESSORIES / TOOLS SUPPLIED BY JAMES HARDIE



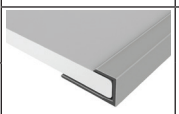
6mm Aluminium Dry Area Jointer
A natural anodised aluminium extrusion used to join panels in dry area applications.
2.7m 5 per pack Part No.305654



6mm Aluminium Internal Corner
A natural anodised aluminium extrusion, used to create internal corners.
2.7m 5 per pack Part No.305652



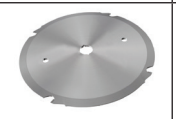
6mm Aluminium Negative Jointer
A natural anodised aluminium extrusion used to join panels, creating an expressed-joint look.
2.7m 5 per pack Part No.305649



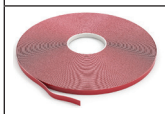
6mm Aluminium End Cap
A natural anodised aluminium extrusion, used to finish the edges of ARChitectural™ Inraw™ panels.
2.7m 5 per pack Part No.305650

James Hardie™ Joint Sealant. 300mL cartridge
A general purpose, paintable polyurethane joint sealant.
20 per box. Part No.305534

6mm Aluminium External Corner
A natural anodised aluminium extrusion, used to create external corners with panels.
(Note - Inraw™ panel is suitable for use in dry area applications only).
2.7m 5 per pack Part No.305651



HardieBlade™ Saw Blade 185mm diameter
A 185mm diameter poly-diamond blade for fast and clean cutting of James Hardie™ fibre cement.
1 each Part No.300660



12mm Double Sided Bonding Tape
A double sided bonding tape used in conjunction with James Hardie™ Joint Sealant, to adhere Architectural™ Inraw™ panels to frame or lining.
33m long roll Part No.305673

COMPONENTS NOT SUPPLIED BY JAMES HARDIE
Additional accessories and tools may be required in conjunction with the installation of this product. Please contact the manufacturer of this accessory or tool for information on their warranties, suitability and installation recommendations.

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 hand guillotine, 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 Safety Data Sheets available at 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.

To help minimise scratching and chipping of the surface coating, work and cut the panel with the coated face down, leaving the protective peel on the panel.

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.

SCOPE

This installation guide provides guidance to installing ARChitectural™ Inraw™ panels to a dry kilned timber or light gauge steel frame in an internal wall and ceiling application only. Not suitable for use in saunas, cool rooms or similar. ARChitectural™ Inraw™ panels are not suitable for internal wet area applications.

DESIGN

All design and construction must comply with the appropriate requirements of the current National Construction Code (NCC), 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 not covered by this guide.

FRAMING

Framing tolerances must be 3mm in any 3000mm length of frame. Frame must be square, straight and true and free of dirt and contaminants. All panel edges must coincide with wall framing.

Timber

All frames to be in accordance with AS 1684 'Residential timber-framed construction'. Timber must have the level of durability appropriate for the relevant climate and application. Do not use unseasoned timber. Studs must not be less than 35mm wide.

Steel

All frames to be in accordance with NASH standard for Residential and Low-Rise Steel Framing Part 1: Design Criteria and the framing manufactures specifications and must have a base metal thickness (BMT) of 0.55 to 1.6mm and a bearing width of 35mm.

Over existing internal linings

Existing lining to be fastener fixed to wall frame. Install ARChitectural™ Inraw™ panels to internal lining as per panel preparation steps.

Concrete, masonry or block walls

ARChitectural™ Inraw™ panels must be fixed to timber or light gauge steel battens. Timber battens: 35 x 45mm wide minimum. Steel battens: 35 x 20 x 0.55 BMT galvanised.

HIGH IMPACT AREAS

Either install ARChitectural™ Inraw™ panels over existing lining or reduce nogging spacing to 600mm centres.

WET AREAS

ARChitectural™ Inraw™ panels are not suitable for wet areas.

BRACING

ARChitectural™ Inraw™ panels don't provide any bracing capacity. Villaboard™ lining can be fixed under the ARChitectural™ Inraw™ panels to provide bracing resistance according to the James Hardie's Structural Bracing Guide. ARChitectural™ Inraw™ panels are then adhered to the Villaboard™ lining as per the panel preparation steps.

FIRE RESISTANCE

Inraw™ panels achieves the highest fire hazard properties classification of Group 1 in accordance with AS/NZS 3837.

ARChitectural™ Inraw™ panels achieve the highest fire hazard properties classification of Group 1 in accordance with AS/NZS 3837. The maximum service temperature for ARChitectural™ Inraw™ panels is 60°C. ARChitectural™ Inraw™ panels are not suitable for use as a kitchen splashback.

PREPARATION

Ensure that framing and panel is dry and free of any dirt or contaminants before installation. Refer to panel preparation steps.

PRODUCT INFORMATION

General

ARChitectural™ Inraw™ panels are manufactured to AS/ NZS 2908.2 'Cellulose-Cement Products Part 2: Flat Sheets' and are classified Type B, Category 3 in accordance with AS/NZS 2908.2.

For Safety Data Sheets (SDS) visit www.jameshardie.com.au or Ask James Hardie™ on 13 11 03.

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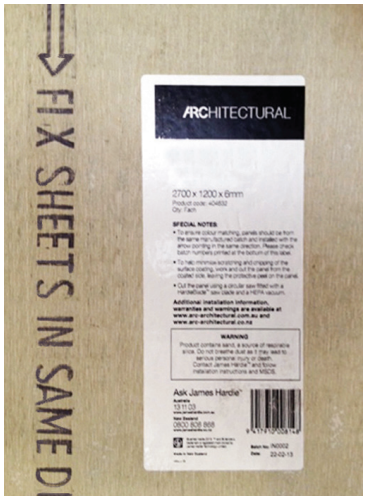
INSTALLATION NOTES
1. **Ensure the product is of acceptable appearance prior to installation.**
2. Ensure each board is flush, level and straight before adhering to frame.
3. For best results, it is recommended that orders are placed in full to ensure panels are from the same batch. Batch numbers are printed at the bottom of the label located on the rear of the panel.
4. Install panels with the rear panel arrow pointing in the same direction.



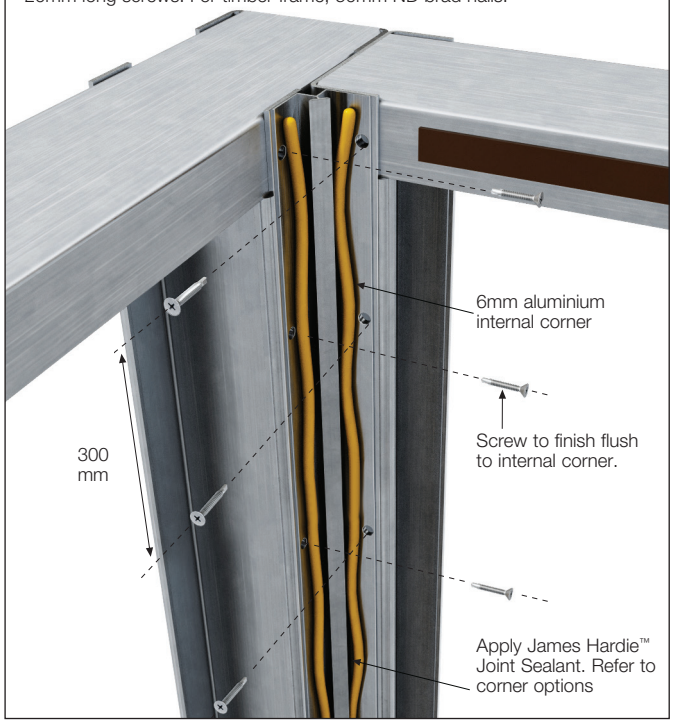
INSTALL PANELS IN SAME DIRECTION

CUTTING
To help minimise scratching and chipping of the surface coating, cut the panel with the coated face down. Leave the protective peel on the panel until the panels are installed and the area is finished with all trades. Refer to safe working instructions on front page.

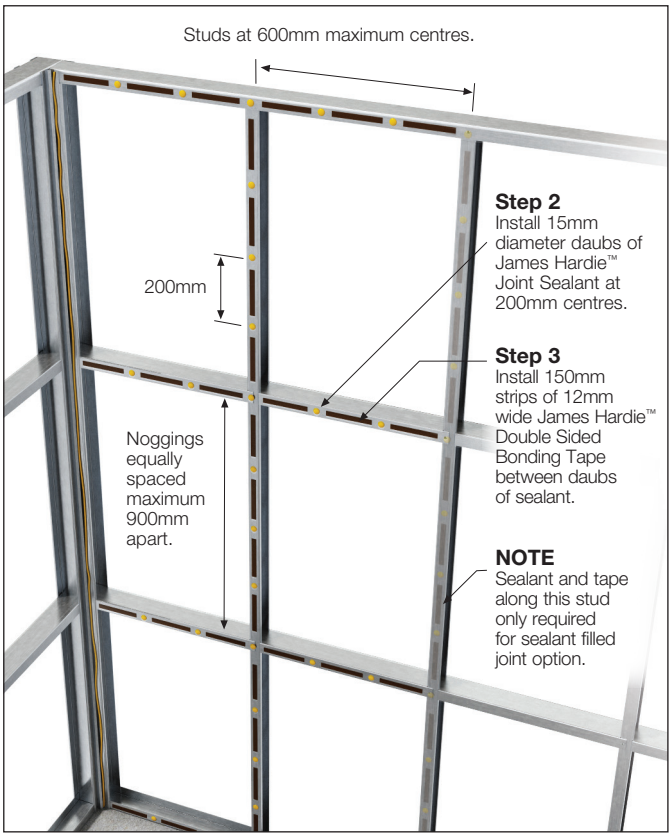
Step 1
CORNER PREPARATION

Step 1
Install 6mm aluminium internal corner.

For steel frame, pop rivet or countersink, predrill and fix with 6 gauge 20mm long screws. For timber frame, 50mm ND brad nails.



Steps 2 & 3
PANEL PREPARATION



Steps 4 & 5
PANEL INSTALLATION

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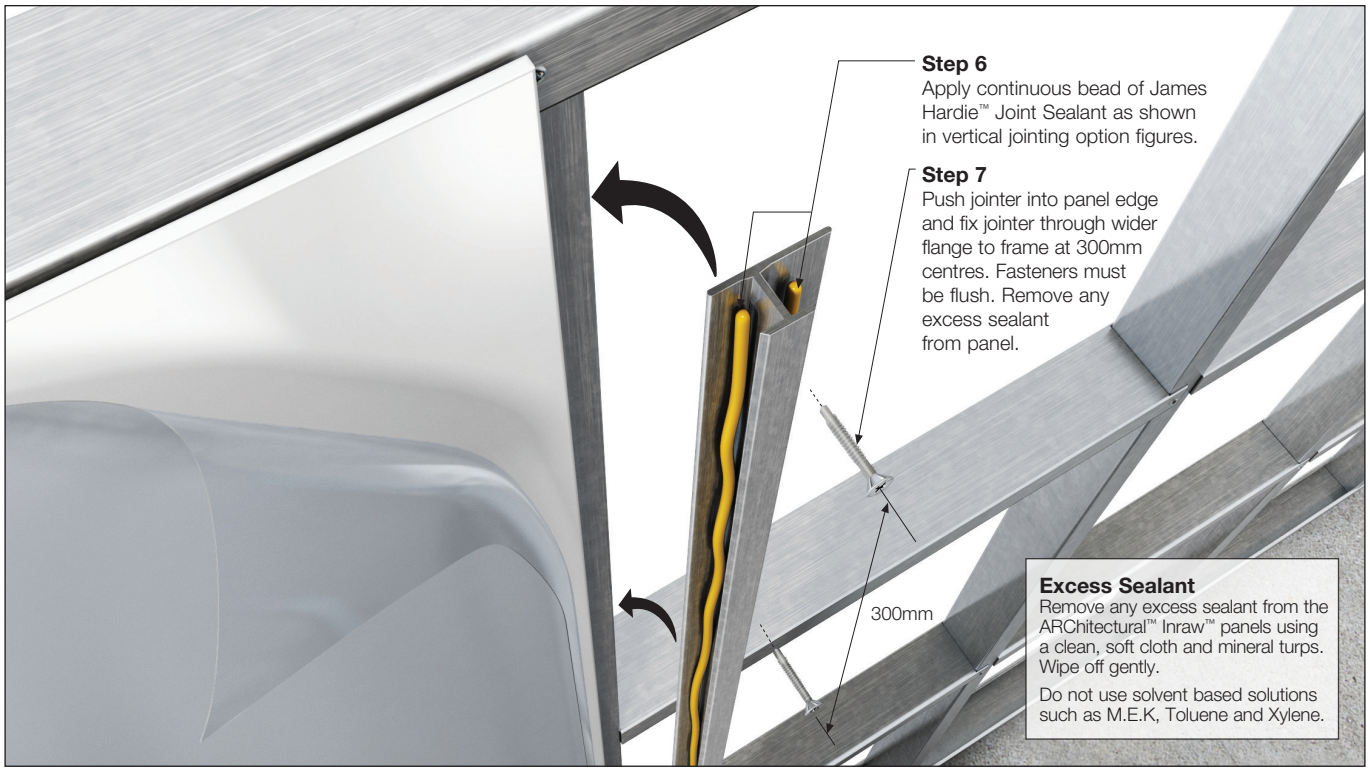
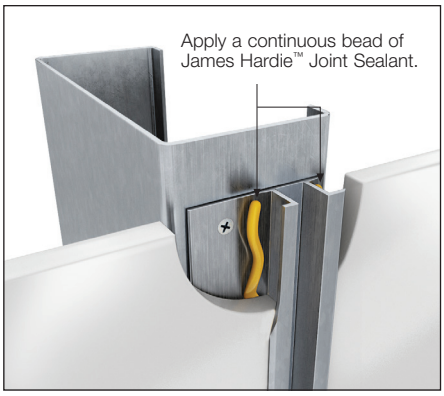
Steps 6 & 7
JOINTER INSTALLATION



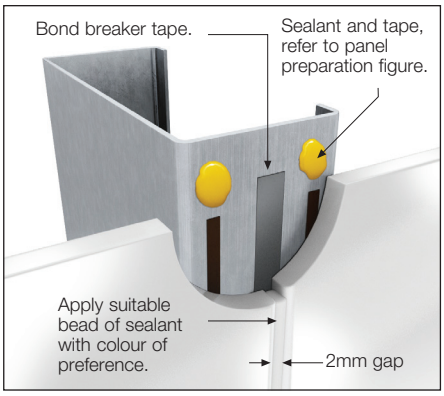
VERTICAL JOINTING OPTIONS

Aluminium Dry Area Jointer

Aluminium Negative Dry Area Jointer

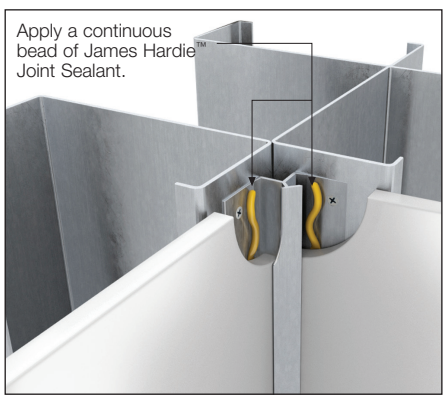


Sealant Filled Joint Option
(Recommended for factory sheet edges only.)

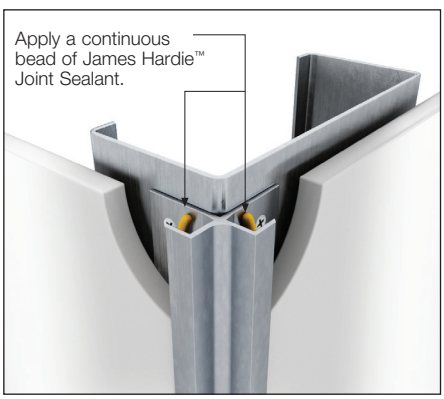


CORNER JOINTING OPTIONS

Aluminium Internal Corner



Aluminium External Corner



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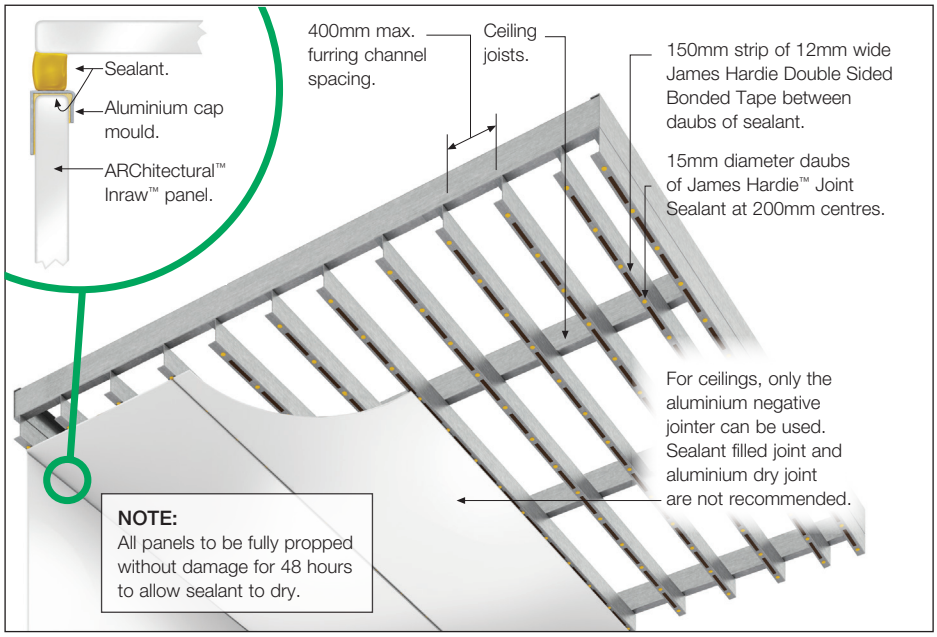
PANEL INSTALLATION – INTERNAL CEILING



MAINTENANCE

As a guide, it is recommended that basic normal maintenance tasks shall include but not be limited to:

- Inspection of all junctions, penetrations, joints and any damage is immediately repaired.
- Inspection and repair of any sealant used.
- The product must be cleaned annually with water containing a mild detergent.

Cleaning

- Wipe the surface with a soft, clean, damp, microfibre cloth.
- Remove more stubborn marks, soap build up and grime with non-abrasive cleaners. Always do a test sample before using the cleaners.
- Strong acid, alkali, cutting compounds or metal polish products must not be used. Mould can be removed with a 10% solution of bleach in water, followed by a rinse of tap water.
- Abrasive cleaning agents, abrasive sponges or abrasive brushes must not be used when cleaning the product.

ARCHITECTURAL™ INRAW™ PANELS PRODUCT WARRANTY

ARChitectural™ Inraw™ panel has a 10 year product warranty. For terms and conditions of product warranty, refer to www.jameshardie.com.au or Ask James Hardie™ on 13 11 03.

Ask James Hardie™
13 11 03
www.jameshardie.com.au

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