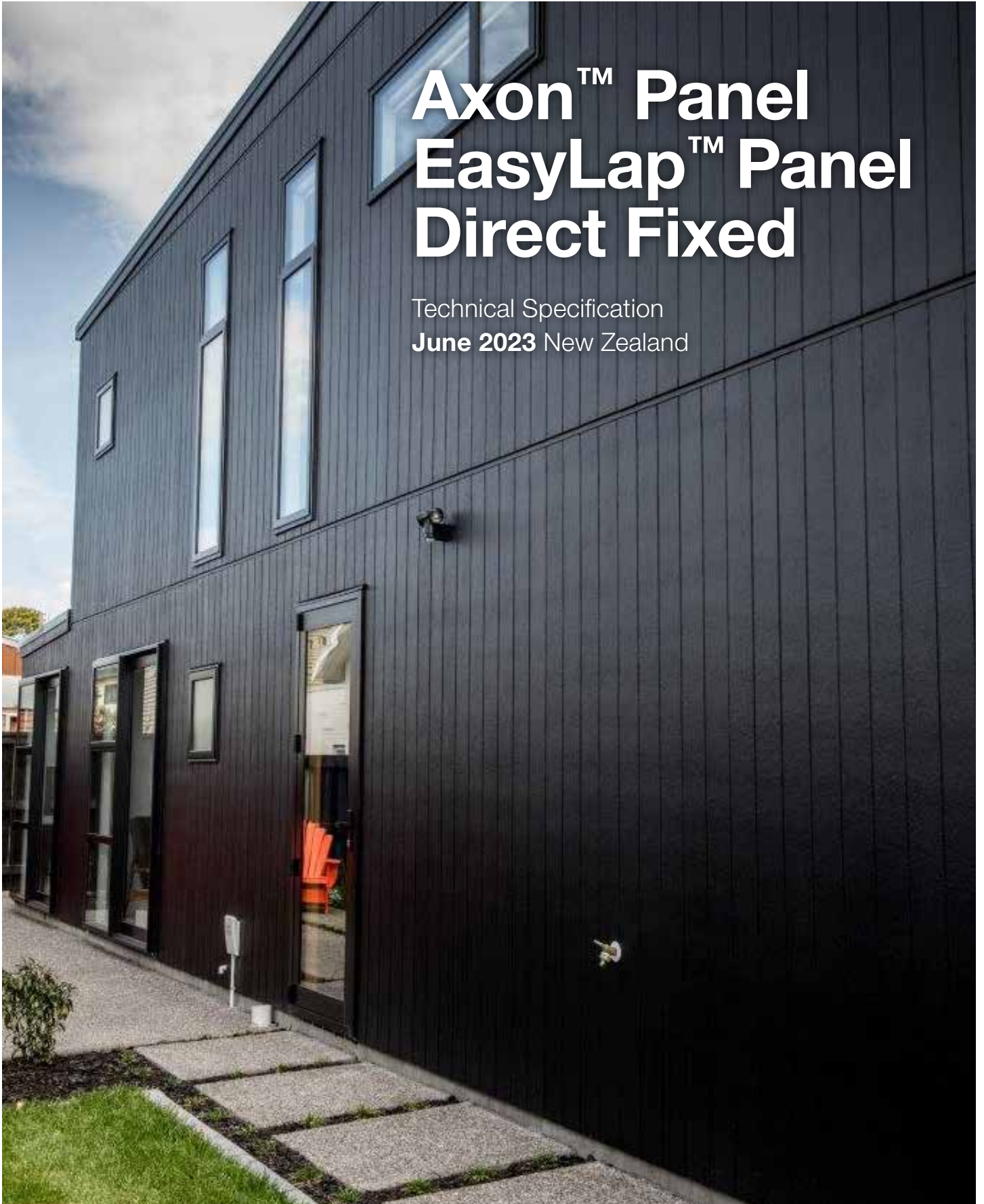


# Axon™ Panel EasyLap™ Panel Direct Fixed

Technical Specification  
**June 2023** New Zealand





## We value your feedback!

To continue with the development of our products and systems, we value your input. Please send any suggestions, including your name, contact details, and relevant sketches to:

**Ask James Hardie™**  
[literaturefeedback@jameshardie.co.nz](mailto:literaturefeedback@jameshardie.co.nz)

### **Make sure your information is up to date**

When specifying or installing Hardie™ fibre cement products, ensure that you have the current manual. Additional installation information, warranties and warnings are available at [www.jameshardie.co.nz](http://www.jameshardie.co.nz) or **Ask James Hardie™** on 0800 808 868.

**THIS TECHNICAL  
SPECIFICATION  
IS FOR  
AXON™ PANEL/  
EASYLAP™ PANEL  
DIRECT FIXED**

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# 1 Application and Scope

## 1.1 Application

Axon™ Panel/EasyLap™ Panel is classified as lightweight wall cladding suitable for residential and light commercial buildings using timber framing.

- Axon™ Panel/EasyLap™ Panel are primed on the face to take a suitable paint finish in any colour.
- Axon™ Panel 133 Smooth - the grooves on the face panel are nominal 10mm wide x 2.25mm deep and spaced at 133mm centres.
- Axon™ Panel 133 Grained - the grooves on the face panel are nominal 10mm wide x 2.25mm deep and spaced at 133mm centres. Between the grooves is a look of traditional wood-grain texture.
- Axon™ Panel 400 Smooth - the grooves on the face panel are nominal 10mm wide x 2.25mm deep and spaced at 400mm centres.
- EasyLap™ Panel provides a durable, shiplap vertical joint panel appearance for residential/commercial building façades. The panel is finished with a site applied roll on textured acrylic paint to create a rendered look with subtle vertical joint.

### Specifier

If you are a specifier or other responsible party for a project, ensure that the information in this document is appropriate for the application you are planning and that you undertake specific design and detailing for areas which fall outside the scope of these specifications.

### Installer

If you are an installer ensure that you follow the design, moisture management principles, associated details and material selection provided by the designer. All of the details provided in this document must be read in conjunction with this specification.

### Make sure your information is up to date

When specifying or installing Hardie™ fibre cement products, ensure you have the current manual. If you're not sure you do, or you need more information, visit [www.jameshardie.co.nz](http://www.jameshardie.co.nz) or Ask James Hardie™ on 0800 808 868.

## 1.2 Scope

The scope of this specification for the use of Axon™ Panel/EasyLap™ Panel is limited to buildings which fall within the scope limitations of 'Acceptable Solution E2/AS1 paragraph 1.1' of the New Zealand Building Code (NZBC).

This document is intended for use by architects, designers and specifiers who may be involved with the specification of Axon™ Panel/EasyLap™ Panel.

This manual covers the use of Axon™ Panel/EasyLap™ Panel direct fixed to framing used in external walls of timber framed buildings up to very high wind zone.

Please refer to E2/AS1 for further information regarding the selection of construction methods to be used for fixing claddings.

**Note:** Refer to Axon™ Panel/EasyLap™ Panel Timber Cavity Batten technical specification when fixing to timber cavity battens or Axon™ Panel/EasyLap™ Panel Hardie™ CLD™ Structural Cavity Batten technical specification when fixing to Hardie™ CLD™ Structural Cavity Batten.



## 1.3 Details

Various Axon™ Panel/EasyLap™ Panel figures are provided in the Details section of this document. This specification and details in dwg, dxf, jpg and pdf file format are also available for download at [www.jameshardie.co.nz](http://www.jameshardie.co.nz).

All dimensions shown are in millimetres unless noted otherwise.

# 2 Design

## 2.1 Compliance

Axon™ Panel/EasyLap™ Panel complies with E2 of the NZBC as an alternate solution.

Axon™ Panel/EasyLap™ Panel claddings have been independently tested/assessed and meet the performance requirements of the NZBC. Axon™ Panel/EasyLap™ Panel installed as per the details and information published in this technical specification are BRANZ Appraised. Refer to BRANZ Appraisal 1211(2022).

## 2.2 Responsibility

The specifier or other party responsible for the project must run through a risk matrix analysis to determine which construction method is to be used. The designer must also ensure that the figures published in this specification are appropriate for the intended application and that additional detailing is performed for specific design or any areas that fall outside the scope of this specification. The designers should ensure that the intent of their design meets the requirements of the NZBC.

All New Zealand Standards referenced in this manual are current edition and must be complied with.

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

## 2.3 Site and Foundation

The site on which the building is situated must comply with the NZBC Acceptable Solution E1/AS1 'Surface Water'.

Foundations design must comply with the requirements of the NZS 3604 'Timber-framed buildings' or be as per specific engineering design.

The grade of adjacent finished ground must slope away from the building to avoid any possibility of water accumulation in accordance with the NZBC requirements.

## 2.4 Surface Clearances

The clearance between the bottom edge of cladding and paved/unpaved ground must comply with section 9.1.3 of E2/AS1. The finished floor level must also comply with these requirements. These clearances must be maintained throughout the life of the building.

Axon™ Panel/EasyLap™ Panel must overhang the bottom plate on a concrete slab by a minimum of 50mm as required by NZS 3604.

Axon™ Panel/EasyLap™ Panel must have a minimum clearance of 100mm from paved ground, and 175mm from unpaved ground.

On roofs and decks, the minimum clearance must be 50mm.

Do not install external cladding such that it may remain in contact with water or ground.

## 2.5 Moisture Management

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

Wall construction design must effectively manage moisture, considering 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.

Walls must include those provisions as required by the NZBC Acceptable Solution E2/AS1 'External Moisture'. In addition all wall openings, penetrations, junctions, connections, window sills, heads and jambs must incorporate appropriate flashings for waterproofing. The other materials, components and installation methods used to manage moisture in external walls, must comply with the requirements of relevant standards and the NZBC.

For further guidance on designing for weathertightness refer to BRANZ Ltd, and the Ministry of Business Innovation and Employment (MBIE) updates on the following websites respectively, [www.branz.co.nz](http://www.branz.co.nz) and [www.building.govt.nz](http://www.building.govt.nz)

## 2.6 Structure

### 2.6.1 Timber Framing

Timber framed buildings must be designed in accordance with the NZS 3604 (Timber-framed buildings). When the framing is provided as per the (SED) specific engineering design, the framing stiffness must be either equivalent to or more than the stiffness requirements of the NZS 3604.

For timber frame walls longer than 12m it is best practice to allow for construction joints to accommodate movements generated due to timber shrinkage or deflections etc.

### 2.6.2 Wind Loading

Axon™ Panel/EasyLap™ Panel is suitable for use in all wind zones in New Zealand up to and including VH for buildings as defined in NZS 3604.

## 2.7 Bracing

Axon™ Panel/EasyLap™ Panel direct fixed can be used to achieve structural bracing when fixed with stainless steel Hardie™ Flex nails. For further information refer to the Bracing Design Manual by James Hardie.

## 2.8 Fire Rated Walls

Axon™ Panel/EasyLap™ Panel when direct fixed with Hardie™ Flex nails to external walls can achieve fire ratings up to 60/60/60 to comply with C/AS1 of the NZBC when the walls are constructed in accordance with the current 'Fire and Acoustic Design Manual' by James Hardie.

Axon™ Panel/EasyLap™ Panel are suitable for use where non-combustible materials are required on walls close to boundary.

## 2.9 Energy Efficiency

External walls constructed as per this technical specification, using Axon™ Panel/EasyLap™ Panel cladding must use suitable bulk insulation to meet the minimum thermal insulation requirements as per Clause H1/AS1 'Energy Efficiency' of the NZBC.

# 3 Framing

## 3.1 General

This Axon™ Panel/EasyLap™ Panel technical specification is only suitable for timber-framed buildings. Other framing materials are subject to a specific engineering design.

## 3.2 Timber Framing

### 3.2.1 Dimensions

A 90 x 45mm minimum framing size is required.

### 3.2.2 Structural Grade

Timber grade used must be in accordance with timber grades specified in NZS 3604.

### 3.2.3 Durability

The external framing must be treated to a minimum H1.2 treatment. Higher treatment levels may be used, but check for the compatibility of treatment chemicals with other materials. Refer to the NZBC Acceptable Solution B2/AS1 'Durability' for further information about the durability requirements.

For timber treatment and allowable moisture content information refer to the NZS 3602 (Timber and Wood-Based Products for use in Buildings) and NZS 3640 (Chemical Preservation of Round Sawn Timber) for minimum timber treatment selection and treatment requirements.

Also refer to the framing manufacturer's literature for further guidance on timber selection. Framing must be protected from moisture at site in accordance with the recommendation of the framing manufacturers.

### 3.2.4 Frame Construction

The framing must fully support all panel edges. The framing must be rigid and not rely on the cladding panel for stability.

Timber framing sizes and its set-out must comply with NZS 3604 or specific engineering design requirements and as specified in this specification.

In case of gable end trusses sitting on top plates of the external wall frame, the frame size must comply with the minimum timber sizes stipulated for wall frames in Section 8 of the NZS 3604.

For timber frame walls longer than 12m, it is best practice to allow for construction joints to accommodate movements generated due to timber shrinkage or deflections generated by loadings etc.

## 3.3 Steel Framing

Refer to Steel Frame Technical Supplement by James Hardie about the installation of Axon™ Panel/EasyLap™ Panel to steel frame.

### 3.4 Construction Methods

Buildings with a risk score of 1-6 calculated in accordance with the NZBC Solution 'E2/AS1' Table 2, Axon™ Panel/ EasyLap™ Panel can be direct fixed. The following framing is required for direct fixed construction method:

- Studs at 600mm centres maximum
- A minimum 90 x 45mm framing size is required
- Nogs/dwangs at 1200mm centres maximum.

### 3.5 Tolerances

In order to achieve the required performance and an acceptable wall finish, it is imperative that framing is straight and true.

Framing tolerances must comply with the requirements of NZS 3604. All framing shall be made flush.

## 4 Preparation

### 4.1 Flexible Underlay or HomeRAB™ Pre-Cladding

Flexible underlay or HomeRAB™ Pre-Cladding must be provided as per the requirements of the NZBC Acceptable Solution E2/AS1 'External Moisture' and NZS 3604. The flexible underlay must comply with Table 23 of E2/AS1 and AS/NZS 4200.1. The flexible underlay must be fixed in accordance with E2/AS1, NZS 3604 and AS/NZS 4200.2 and the underlay manufacturer's recommendations.

Walls which are not lined on the inside face (e.g. garage walls or gable ends) must include a rigid sheathing or an air barrier behind the cladding which complies with the requirements of the NZBC Acceptable Solution E2/AS1 Table 23. For attached garages, flexible underlays must be selected in accordance with the NZBC Acceptable Solution E2/AS1, paragraph 9.1 3.4. HomeRAB™ Pre-Cladding is suitable for use in these applications. It must be installed in accordance with the HomeRAB™ Pre-Cladding/RAB™ Board installation manual.

### 4.2 Flashing

All wall openings, penetrations, intersections, connections, window sills, heads and jambs must be flashed prior to panel installation. Please refer to moisture management requirements in Clause 2.5. The flexible underlay, HomeRAB™ Pre-Cladding or RAB™ Board must be appropriately taped around the penetrations and lapped/taped to flashings. Materials must be lapped in such a way that water tracks down to the exterior of a building. James Hardie will assume no responsibility for water infiltration within the wall due to poor installation of flashings or flexible underlays. The selected flashing materials must comply with the durability requirements of the NZBC. For information refer to Table 20 of clause E2 of the NZBC.

When using a HomeRAB™ Pre-Cladding/RAB™ Board the entire framing around window opening must be sealed with a flashing tape. The tape must be finished over the face of the HomeRAB™ Pre-Cladding or RAB™ Board. The flashing tapes like Thermaflash® Self Adhesive Window Flashing Tape by Thermakraft™, Super-Stick Building Tape® by Marshall Innovations or 3M™ All Weather Flashing Tape 8067 by 3M™ are recommended for use with HomeRAB™ Pre-Cladding/RAB™ Board. Refer to the tape manufacturer's literature for further information regarding their installation.



### 4.3 Junctions and Penetrations

Refer to Clause 2.5 of this specification for moisture management requirements. All windows and doors must be detailed as per the requirements of this specification. James Hardie has developed the window details for Axon™ Panel/EasyLap™ Panel which meet the requirements of E2 ‘External Moisture’, an approved document of the NZBC. Refer to Figures 15 to 17.

## 5 Panel fixing

### 5.1 General

Axon™ Panel/EasyLap™ Panel must be kept dry and under cover whilst in storage or during the installation. Every endeavour must be made to keep framing dry once panel fixing commences. All site-cut panel edges must be sealed prior to installation.

- The shiplap jointing of panels is only suitable for vertical fixing of panels.
- Ensure the sheets are from the same batch.
- It is recommended to fix from the centre of the panel and work outwards.
- Do not overdrive fasteners.
- Round head gun nails to be finished tight with the panel surface.
- Do not fix in the groove of Axon™ Panel.
- Hardie™ Flex nails must be finished flush with the panel surface.
- Minimum sheet width around window/door openings or corners etc. to be 200mm

### 5.2 Fastener Durability

Fasteners must meet the minimum durability requirements of the NZBC. NZS 3604 specifies the requirements for fixing material to be used in relation to exposure conditions and are summarised in Table 2.

Table 2

Exposure conditions and nail selection prescribed by NZS 3604		
Zone	Application	
D (sea spray) and geothermal hot spots	General	Stainless steel 304/316
	Fire	
	Bracing	
C and B*	General	Hot dip galvanised **
	Fire	
	Bracing	

\* Zone C areas where local knowledge dictates that increased durability is required, appropriate selection shall be made. Microclimate conditions as detailed in the NZS 3604, Paragraph 4.2.4 require SED.

\*\*Hot dip galvanised must comply with AS/NZS 4680.

Also refer to the NZBC Acceptable Solution E2/AS1 Table 20 and 21 for information regarding the selection of suitable fixing materials and their compatibility with other materials.

## 5.3 Fastener — Type, Size and Layout

### 5.3.1 Direct Fix

Axon™ Panel/EasyLap™ Panel must be fixed to framing using the fixings as specified in Table 3 below and follow the edge distance required for nails as shown in the details. Refer to Figures 2 and 4.

**Table 3**

Panel fixing	
Direct fixed to frame using Hardie™ Flex nails over flexible underlay	
40 x 2.8mm Hardie™ Flex nails	Fix at 200mm centres to all framing. Stud width 45mm min. required at vertical joint.
Direct fixed to frame using brad nail over flexible underlay	
ND 50 stainless steel straight brad nail	Fix at 150mm centres to all framing. Studs width 45mm min. required at vertical joint.

**Notes:**

1. Brad nail fixing method is only suitable up to very high wind speed zones. Do not use this method for EH wind zones or for bracing/fire rating application..
2. Hardie™ Flex nails must be finished flush with panel surface.
3. Round head gun nails to be finished tight with panel surface.
4. Special fixing arrangements are required for bracing and fire-resistance rated wall systems.

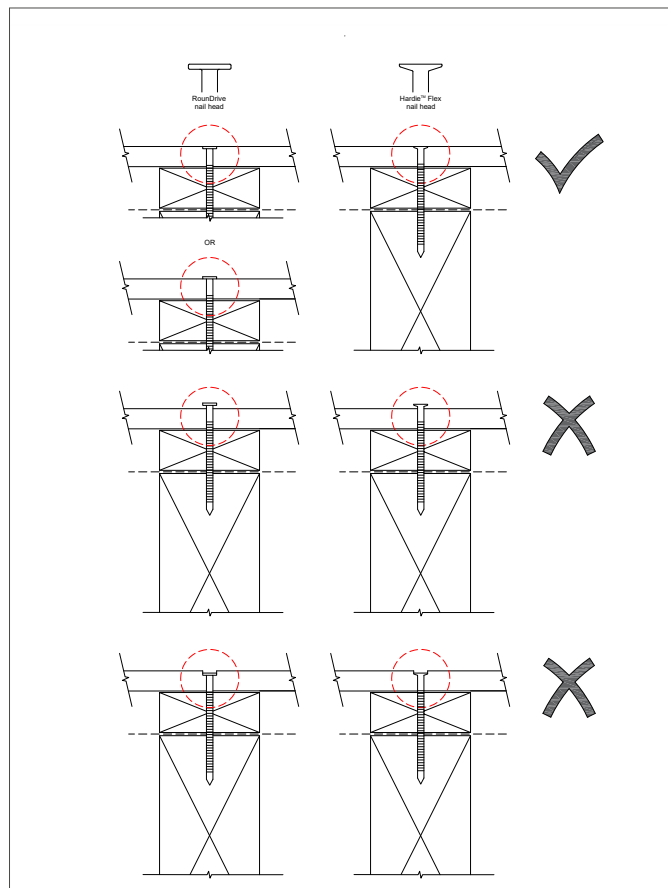
For more information Ask James Hardie on 0800 808 868.

When fixing the panels using nail guns, refer to the nail gun manufacturer for information about nails and the type of nail gun to be used.

**Note:** Do not use 'D' head nails.

### 5.3.2 Cavity Construction using Timber Cavity Battens

When fixing Axon™ Panel/EasyLap™ Panel using timber cavity battens, these details are available at [www.jameshardie.co.nz](http://www.jameshardie.co.nz) or Ask James Hardie on 0800 808 868.



## 5.4 Panel Layout

All panel edges must be supported by the framing. The shiplap joint must be formed vertically. The framing centres must be checked before the panel installation.

The edge distance at panel corner must be minimum 75mm vertically from panel corners. Refer to Figure 24.

# 6 Jointing

## 6.1 General

Axon™ Panel/EasyLap™ Panel are fixed to form a shiplap joint at vertical edges. The panels have factory-made edges to suit this jointing.

## 6.2 Vertical Joint

Axon™ Panel/EasyLap™ Panel are shiplap jointed keeping a gap of 1-2mm between the panels. A 48mm wide 3259 Inseal® sealing tape is used under the joint over the face of the timber stud where direct fixed construction method is used. A flexible sealant must be applied to the full length of the shiplap joint before the panels are jointed. The edge distance for a Hardie™ Flex nail must be 18mm min. Refer to Figure 4. The edge distance for a brad nail must be 16mm and 18mm. Refer to Figure 21.

## 6.3 Horizontal Joint

At floor joist levels a horizontal joint must be provided to accommodate the movement resulting from timber joist shrinkage and settlement. A Hardie™ 9mm panel aluminium horizontal 'h' mould is used to form a horizontal joint. Use the aluminium 'h' mould jointer to cover over the butt joint of 'h' mould. A purpose made metal 'Z' flashing could also be used to flash the horizontal joint. Refer to Figures 21 - 23.

## 6.4 External Corner

A Hardie™ 9mm panel aluminium box corner mould is used to form the external box corner. The site-cut sheet edges must be sealed before butting them into the box corner. Refer to Figure 7.

On a two storey construction the aluminium box corner is finished under the aluminium 'h' mould. A Hardie™ 9mm aluminium 'h' mould external corner must be used over the corner when in this situation. Refer to Figure 19.

## 6.5 Internal Corner

Direct fixed internal corner is formed using a uPVC corner under flashing or an 80mm wide Inseal® sealing strip behind the panel edges. The joint is filled with the flexible sealant. Refer to Figure 6.

## 6.6 Flashing Material Durability

Please refer to Table 20 of E2/AS1 of the NZBC regarding the durability requirements of various flashing materials.

# 7 Finishing

## 7.1 Preparation

Painting of Axon™ Panel/EasyLap™ Panel is mandatory to meet the durability requirements of the NZBC and 15 year James Hardie product warranties. Axon™ Panel/EasyLap™ Panel must be dry and free of any dust or grime before painting. The panels must be painted within 90 days of their installation. There is no restriction on the LRV of paint to be applied on the Axon™ Panel/EasyLap™ Panel.

Dark paints can be used when using the aluminium flashings.

Panels are pre-primed and are suitable for site applied acrylic paints. Pre-finished panels can also be installed using exposed head fasteners.

In order to seal cut edges or sanded patches, Dulux® 1 Step, Resene® quick dry, Taubmans® Underproof Acrylic Primer Undercoat or a similar product should be applied. The primer should be compatible with the paint to be used.

Where panels are fixed with brad nails, the nail heads must be finished flush with panel surface. The nail gun should be set to nail “proud” of the panel surface and nail heads to be manually finished flush with surface. The nail heads can be skimmed over with an exterior grade 2 part builders fill if required. The skimmed area must be primed prior to site-applied finishing.

For site-applied finishes where brad nails are used. James Hardie recommends an undercoat and a minimum of two coats of acrylic paint. Follow the paint manufacturer’s recommendations to prepare the surface and to adequately cover and conceal the panel fixings.

For best aesthetic results a low sheen paint is recommended.

## 7.2 Coating

### 7.2.1 Paint

Axon™ Panel/EasyLap™ Panel are supplied pre-primed. Panels must be painted within 90 days of installation. Use only quality exterior paints complying with AS 3730. Manufacturer’s specification for the selected paint must be followed.

### 7.2.2 Staining - Only for Axon™ Panel Grained

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, requiring 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 and durability of the use of semi-transparent stains and clear coats.

For further information contact the stain manufacturers. Refer to Section 11 for stain manufacturer details.

### 7.2.3 Roll on Texture

EasyLap™ Panel can be finished with rolled on texture acrylic texture coatings. Panels are supplied pre-primed and are ready for acrylic textures to be applied directly to it. Acrylic texture products are available in a range of textures that vary from fine finish to rough texture for a fast application on site. Refer to Dulux® or other similar texture coating suppliers for further information.

### 7.3 Flexible Sealant

All sealants used must comply with the relevant requirements of the NZBC. Their application and usage must be in accordance with manufacturer's instructions. Check with sealant manufacturer prior to coating over sealants. Some sealant manufacturers do not recommend coating over their products.

## 8 Care and 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 using low pressure water and a brush, and every 3-4 months in extreme coastal conditions or sea spray zones. Refer to your paint manufacturer for wash down requirements and do not use a water blaster to wash down the cladding.
- Re-applying of exterior protective finishes if necessary. Always refer to your paint manufacturer for re-coating requirements.
- 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
- The clearance between the bottom edge of Axon™ Panel/EasyLap™ Panel and the finished ground must always be maintained.

## 9 Product information

### 9.1 Manufacturing and Classification

Axon™ Panel/EasyLap™ Panel is an advanced lightweight cement composite building product. The basic composition is Portland cement, ground sand, cellulose fibre, water and proprietary additives. The panels are easily identified by the name 'Axon™ Panel' 'EasyLap™ Panel' printed at regular intervals on the back face of panel. Axon™ Panel/EasyLap™ Panel is sealed and primed on the face and back is clear sealed.

Axon™ Panel and EasyLap™ Panel are manufactured in Australia to the AS/NZS 2908.2 'Cellulose-Cement Products Part 2: Flat Sheets' (ISO 8336 'Fibre Cement Flat Panels') standards in New Zealand. James Hardie is an ISO 9001 'Telarc' certified manufacturer.



Axon™ Panel/EasyLap™ Panel is classified Type A, Category 3 in accordance with AS/NZS 2908.2 “Cellulose-Cement Products”.

For Safety Data Sheets (SDS) visit [www.jameshardie.co.nz](http://www.jameshardie.co.nz) or Ask James Hardie on 0800 808 868.

## 9.2 Product Mass

Axon™ Panel is manufactured in 9.0mm thickness and has a mass of 12.1kg/m<sup>2</sup> at EMC.

EasyLap™ Panel is manufactured 9.0mm thickness and has a mass of 13kg/m<sup>2</sup> at EMC.

Axon™ Panel/EasyLap™ Panel cladding is defined as a Light Weight Wall Cladding (not exceeding 30kg/m<sup>2</sup>) as per the NZS 3604.

## 9.3 Durability

### 9.3.1 General

Axon™ Panel/EasyLap™ Panel installed as per this technical specification will meet the durability requirements for claddings as required under clause ‘B2-Durability’ of the NZBC.

### 9.3.2 Resistance to Moisture/Rotting

Axon™ Panel/EasyLap™ Panel has demonstrated resistance to permanent moisture induced deterioration (rotting) and has passed the following tests in accordance with AS/NZS 2908.2:

- Heat Rain (Clause 6.5).
- Water Permeability (Clause 8.2.2).
- Warm Water (Clause 8.2.4).
- Soak Dry (Clause 8.2.5).

### 9.3.3 Control of External Fire Spread

Axon™ Panel/EasyLap™ Panel has been assessed as per Appendix C C7.1.1 and is suitable for use where ‘Non-Combustible Material’ are specified for use in external wall cladding applications and complies with requirements of Paragraph 5.4 of the NZBC Acceptable Solutions C/AS1 and Paragraph 5.8.1 of Acceptable Solutions C/AS2 of the NZBC.

### 9.3.4 Alpine Regions

In regions subject to freeze/thaw conditions, Axon™ Panel/EasyLap™ Panel must not be in direct contact with snow or ice build up for extended periods, e.g. external walls in alpine regions must be protected where snow drifts over winter are expected.

The Axon™ Panel/EasyLap™ Panel has been tested in accordance with AS/NZS 2908.2 Clause 8.2.3.

# 10 Safe Working Practices

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

**Hardie™ fibre cement 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 James Hardie instructions and best practices to reduce or limit the release of dust.

If using a dust mask or respirator, use an AS/NZS 1716 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.co.nz](http://www.jameshardie.co.nz).

## **FAILURE TO ADHERE TO OUR WARNINGS, SAFETY DATA SHEETS, AND INSTALLATION INSTRUCTIONS MAY LEAD TO SERIOUS PERSONAL INJURY OR DEATH.**

### **Crystalline Silica is**

- Commonly known as sand or quartz
- Found in many building products e.g. concrete, bricks, grout, wallboard, ceramic tiles, and all fibre cement materials

### **Why is Crystalline Silica a health hazard?**

- Silica can be breathed deep into the lungs when present in the air as a very fine (respirable) dust
- Exposure to silica dust without taking the appropriate safety measures to minimise the amount being breathed in, can lead to a potentially fatal lung disease – silicosis – and has also been linked with other diseases including cancer. Some studies suggest that smoking may increase these risks
- The most hazardous dust is the dust you cannot see!

### **When is Crystalline Silica a health hazard?**

- It's dangerous to health if safety protocols to control dust are not followed when cutting, drilling or rebating a product containing crystalline silica and when cleaning up
- Products containing silica are harmless if intact (e.g. an un-cut sheet of wall board)

## Avoid breathing in crystalline silica dust

### Safe working practices

- ✗ NEVER use a power saw indoors or in a poorly ventilated area
- ✗ NEVER dry sweep
- ✓ ALWAYS use M Class or higher vacuum or damp down dust before sweeping up
- ✗ NEVER use grinders
- ✓ ALWAYS use a dust reducing circular saw equipped with a sawblade specifically designed to minimise dust creation when cutting fibre cement – preferably a sawblade that carries the Hardie™ Blade name or one with at least equivalent performance – connected to an M Class or higher vacuum
- ✓ Before cutting warn others in the area to avoid dust
- ✓ ALWAYS follow tool manufacturers' safety recommendations
- ✓ ALWAYS expose only the minimum required depth of blade for the thickness of fibre cement to be cut
- ✓ ALWAYS wear a properly-fitted, approved dust mask or respirator P1 or higher in accordance with applicable government regulations and manufacturer instructions
- ✓ Consider rotating personnel across cutting tasks to further limit respirable silica exposures.

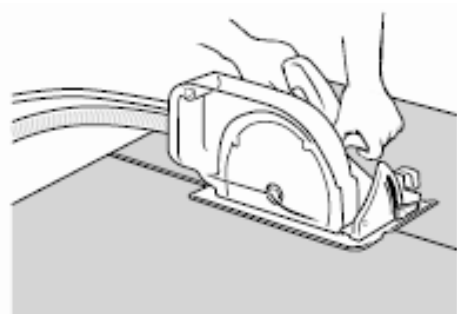
### When cutting Axon™ Panel or EasyLap™ Panel:

- ✓ Work outdoors only
- ✓ Make sure you work in a well ventilated area
- ✓ Position cutting station so wind will blow dust away from yourself and others in the working area
- ✓ Rotate employees across cutting task over duration of shift
- ✓ Cut products with a Hardie™ Blade Saw Blade (or equivalent) and a dust reducing circular saw connected to a M Class or higher vacuum
- ✓ When sawing, sanding, rebating, drilling or machining fibre cement products, always:
  - Wear your P1 or higher (correctly fitted in accordance with manufacturers' instructions), ask others to do the same.
  - Keep persons on site at least 2 metres and as far as practicable away from the cutting station while the saw is in operation
  - If you are not clean shaven, then use a powered air respirator with a loose fitting head top
  - Wear safety glasses
  - Wear hearing protection
- ✓ Make sure you clean up BUT never dry sweep. Always hose down with water/wet wipe or use an M Class or higher vacuum

## Working Instructions

### Hardie™ Blade Saw Blade

The Hardie™ Blade Saw Blade used with a dust-reducing saw is ideal for fast, clean cutting of Hardie™ fibre cement products. A dust-reducing saw uses a dust collector connected to a M Class or higher vacuum. 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.



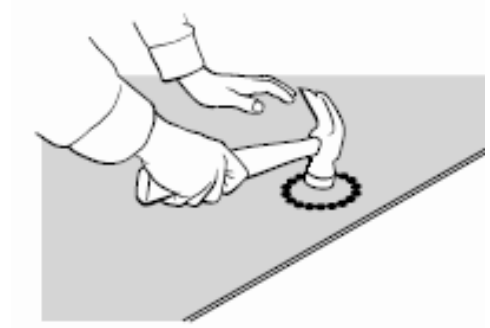
## Hole-Forming

### 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 that the sheet edges are properly supported



## 10.1 Storage and Delivery

### Keeping products and people safe

#### Off loading

- ✓ Hardie™ fibre cement products should be off-loaded carefully by hand or by forklift
- ✓ Hardie™ fibre cement products should not be rolled or dumped off a truck during the delivery to the jobsite

#### Storage

##### Hardie™ fibre cement products should be stored:

- ✓ In their original packaging
- ✓ Under cover where possible or otherwise protected with a waterproof covering to keep products dry
- ✓ Off the ground – either on a pallet or adequately supported on timber or other spacers
- ✓ Flat so as to minimise bending

##### Hardie™ fibre cement products must not be stored:

- ✗ Directly on the ground
- ✗ In the open air exposed to the elements

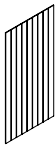
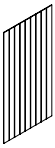

**James Hardie is not responsible for damage due to improper storage and handling.**

## 10.2 Tips for safe and easy handling of Axon™ Panel and EasyLap™ Panel


- ✓ Carry with two people
- ✓ Hold near each end and on edge
- ✓ Exercise care when handling sheet products to avoid damaging the edges/corners

# 11 Product Sizes and Accessories

Table 5

Axon™ Panel information					
Product	Description	Thickness (mm)	Size		Product Code
	<b>Axon™ Panel 133 Smooth</b> Is a shiplap jointed panel to hide the panel joints. The panel is face primed. The panel has grooves at 133mm centres. The panel must be installed vertically. Nom. Panel Mass: 12.1kg/m <sup>2</sup>	9	Length (mm)	Width (mm)	
			2450	1200	403780
			2750	1200	403781
			3000	1200	403782
	<b>Axon™ Panel 133 Grained</b> Is a shiplap jointed panel to hide the panel joints. The panel is face primed. The panel has grooves at 133mm centres. The panel must be installed vertically. Nom. Panel Mass: 12.1kg/m <sup>2</sup>	9	3000	1200	404512
	<b>Axon™ Panel 400 Smooth</b> Is a shiplap jointed panel to hide the panel joints. The panel is face primed. The panel has grooves at 400mm centres. The panel must be installed vertically. Nom. Panel Mass: 12.1kg/m <sup>2</sup>	9	2450	1200	404414
			2750	1200	404415
			3000	1200	404416

**Note:** The actual width of the panel is 1203mm. All dimensions and masses provided are approximate only and are subject to manufacturing tolerances.

EasyLap™ Panel information					
Product	Description	Thickness (mm)	Size		Product Code
	<b>EasyLap™ Panel</b> A shiplap edge panel for subtle vertical joints To be finished with site applied acrylic texture finishes.	9	Length (mm)	Width (mm)	
			2450	1200	404764
			3000	1200	404763

**Note:** The actual width of the panel is 1203mm. All dimensions and masses provided are approximate only and are subject to manufacturing tolerances.

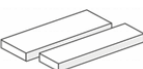


Hardie™ Axent™ Trim information					
Product	Description	Thickness (mm)	Size		Product Code
	For box corners and facings	19	Length (mm)	Width (mm)	
			3000	45	405260
			3000	70	405257
			3000	89	405258



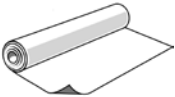
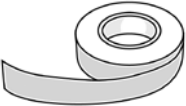

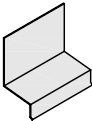
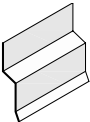






Table 6

Accessories/tools supplied by James Hardie			
Accessories	Description	Quantity/Size (approx)	Code
	<b>Hardie™ 9mm Panel Aluminium External Box Corner</b> A box corner mould to form the external joints. 9mm etch primed.	2450mm long 2750mm long 3000mm long 4000mm long	304509 304510 305150 305808
	<b>Hardie™ 9mm Panel Aluminium Horizontal 'h' Mould</b> A horizontal flashing to flash the horizontal joints. 9mm etch primed.	3000mm long	304508
	<b>Aluminium 'h' Mould Jointer</b> A jointer to cover the butt joint of 'h' mould.	100mm long	304512
	<b>Hardie™ 9mm Panel Aluminium 'h' Mould External Corner</b>		305940
	<b>uPVC Corner Under Flashing</b> A 50 x 50mm corner under flashing for internal and external joints.	3000mm long	303745
	<b>uPVC Vent Strip</b> Used to provide protection from vermin entering cavity space.	3000mm long	302490
	<b>Inseal® 3259 Tape</b> Black 50mm tape to be used under the vertical shiplap joint. Black 80mm tape to be used at corners.	50m roll	300767 300769
<b>Tools</b>			
	<b>Hardie™ Blade Saw Blade</b> Diamond tip 184mm diameter fibre cement circular saw blade. Spacers not included.	Each	300660

**Table 7**

### Accessories/tools not supplied by James Hardie

James Hardie recommends the following products for use in conjunction with Axon™ Panel/EasyLap™ Panel. 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.

Accessories	Description
	<b>Flexible Underlay</b> To comply with Table 23 of E2/AS1.
	<b>Flexible Tape</b> A flexible self-adhesive tape used in preparation of a window. Refer to the Window installation section in this manual for more information. e.g. Super-Stick Building Tape® by Marshall Innovations or 3M™ All Weather Flashing Tape 8067 by 3M™ Marshall Innovations: 0800 776 9727 3M™: 0800 474 787
	<b>Joint Sealant</b> Paintable flexible sealants are recommended for filling the joints. Refer to Section 7.2 for information. e.g. Sika® Sikaflex® MS, Sika® AT Facade, Bostik® Seal N Flex™-1 or similar
	<b>Head Flashing</b> Required over window heads to be supplied by window installer. Material must comply with Table 20 and 21 of E2/AS1.
	<b>Flashing</b> Material as per Table 20, 'E2/AS1'
	<b>Hardie™ Flex Hot Dip Galv and Stainless Steel 316 nails</b> For fixing panels direct to framing. 40 x 2.8mm
	<b>ND 50 Stainless Steel Brad Nails</b> Used to install Axon™ Panel/EasyLap™ Panel direct fix to timber framing. Used in a straight bradder.
	<b>50 x 2.87mm Round Head Ring Shank Nail</b>
	<b>Epoxy Flush Sealing (2 Part)</b> Countersunk head screws are flush sealed using Allnex™ Fairing cream or similar epoxy.
	<b>Dulux® Acrasand or Dulux® Sedona acrylic texture</b> 0800 800 424
	<b>Stain</b> Timbakote®, suitable for Axon™ Panel Grained Tel: 0800 846 225

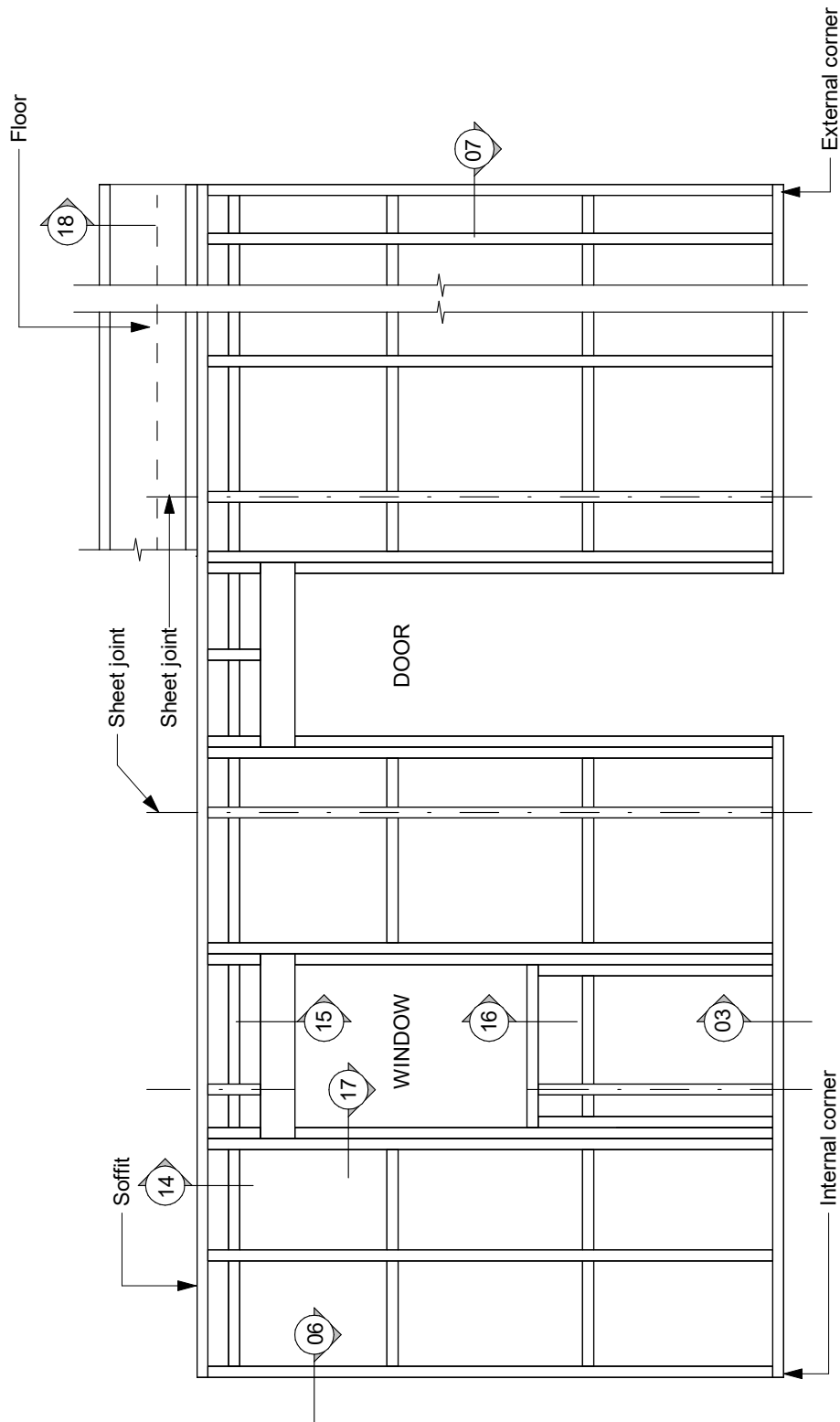
# 12 Details

The following generic details have been provided in this document for both direct fixed and cavity construction methods.

**Table 8**

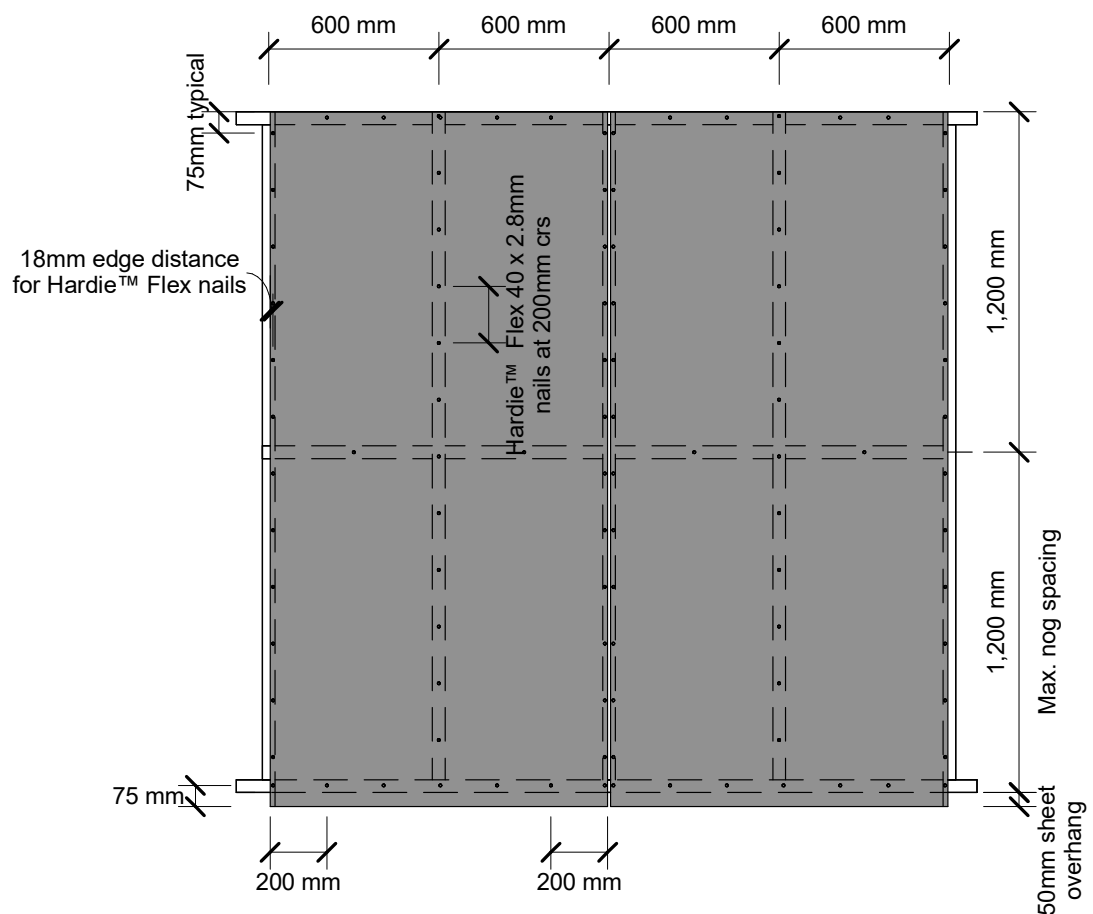
<b>Description</b>	<b>Page</b>
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Figure 1: Direct fixed typical framing setout



Note:  
\* Maximum stud spacing 600mm centres  
\* Check that the risk matrix score is 6 or less

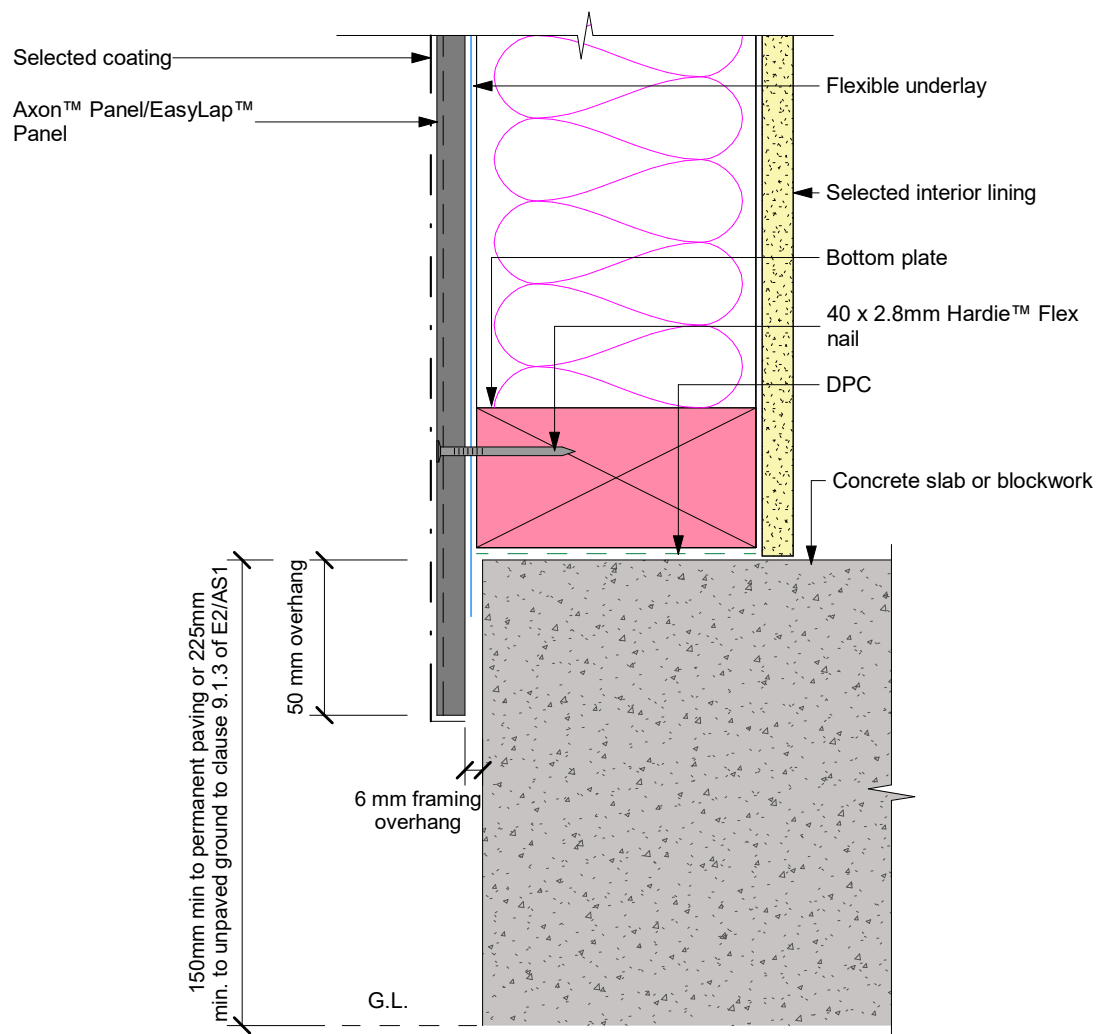
**Figure 2: Direct fixed typical panel Hardie™ Flex nail fixing setout**



Note: When studs spaced at 400mm centres using Axon™ Panel 400, the nail fixings to intermediate studs to be offset 5mm from the groove in Panel.

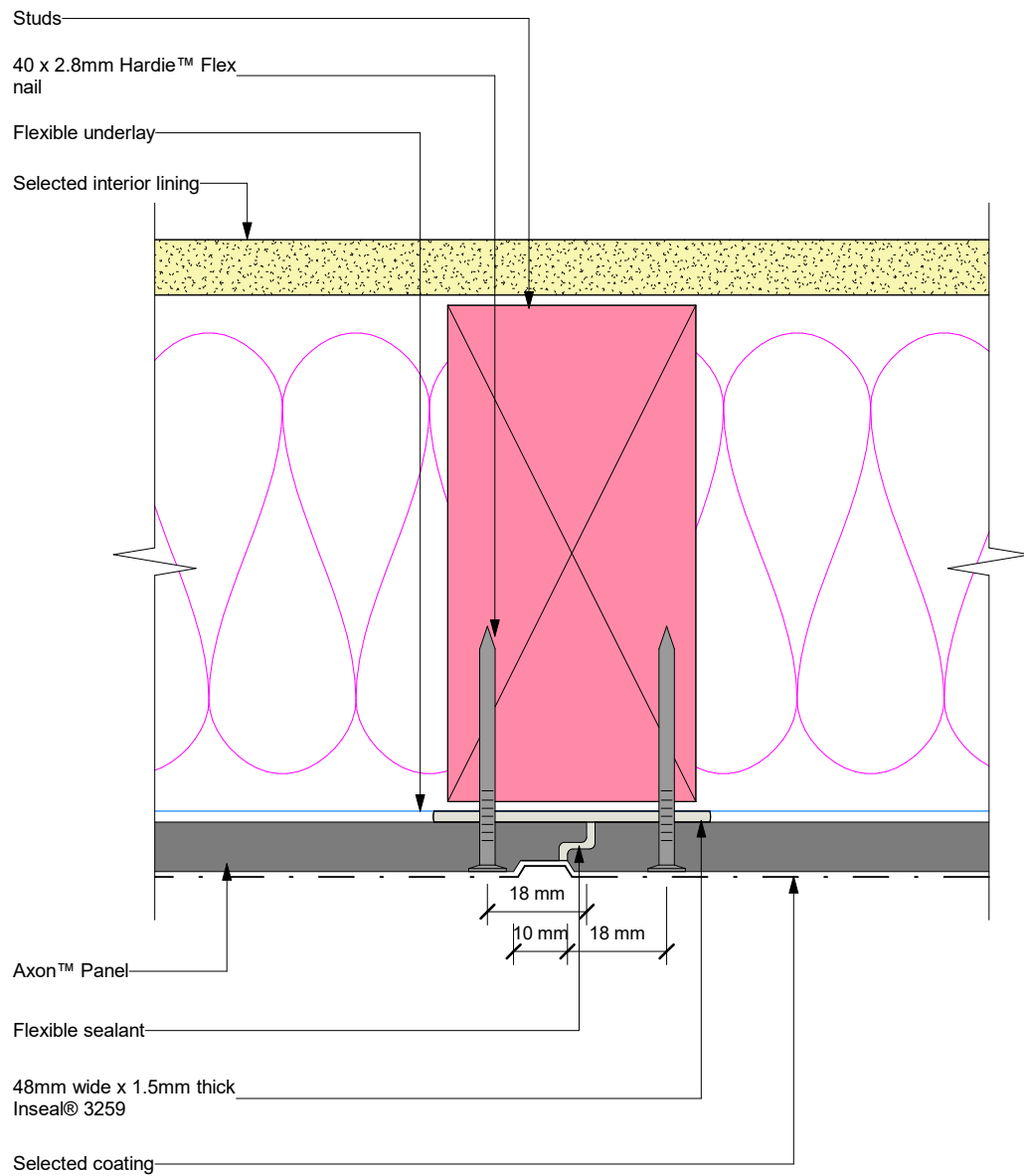


**Figure 3: Direct fixed foundation detail**



Note: Refer to Section 2.4 for further information

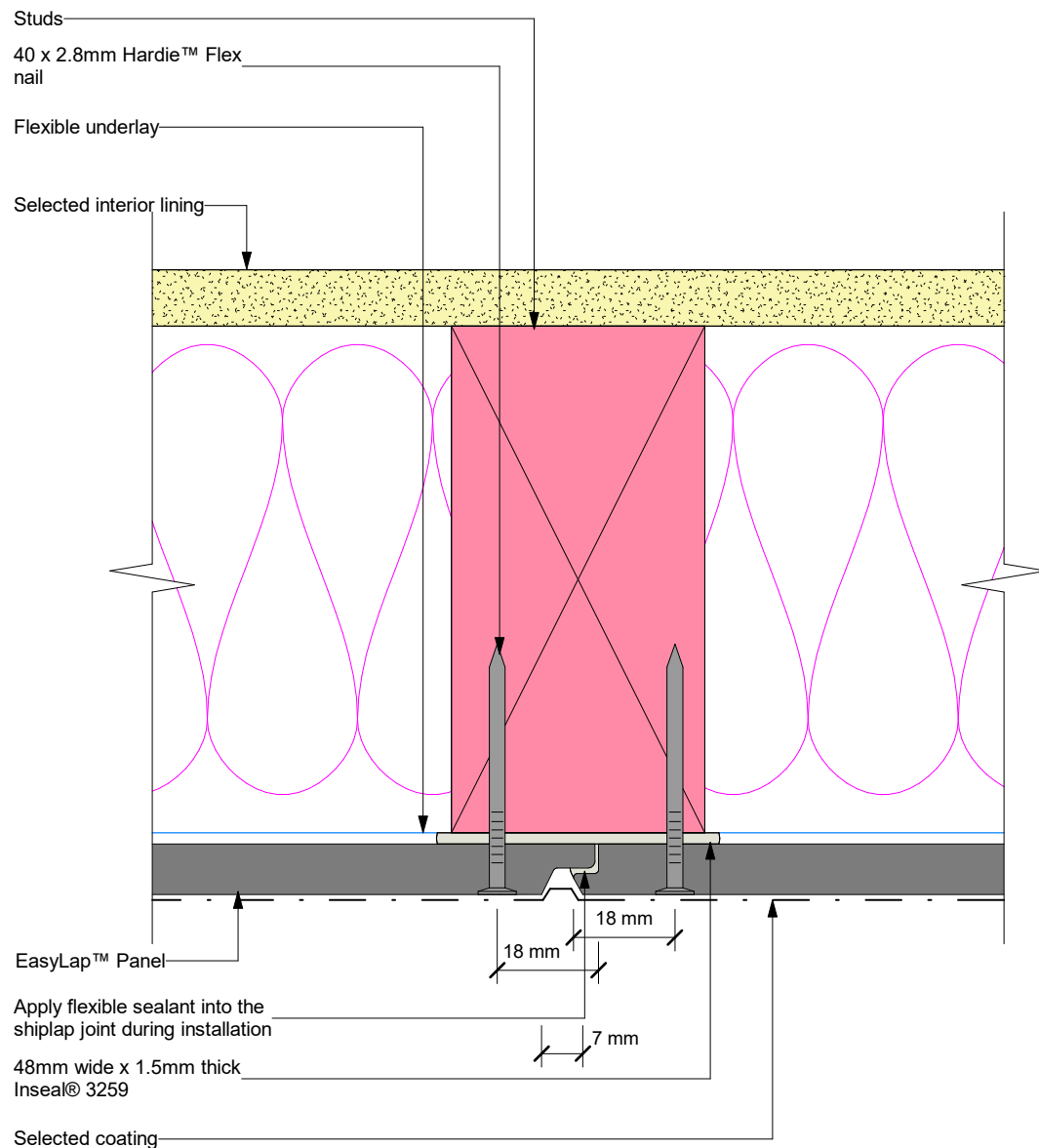
**Figure 4: Axon™ Panel vertical shiplap joint — Hardie™ Flex nail**



**Note:**

- \* Ensure that the required edge distance is maintained when fixing.
- \* Seal cut edges with a primer compatible with final coatings.

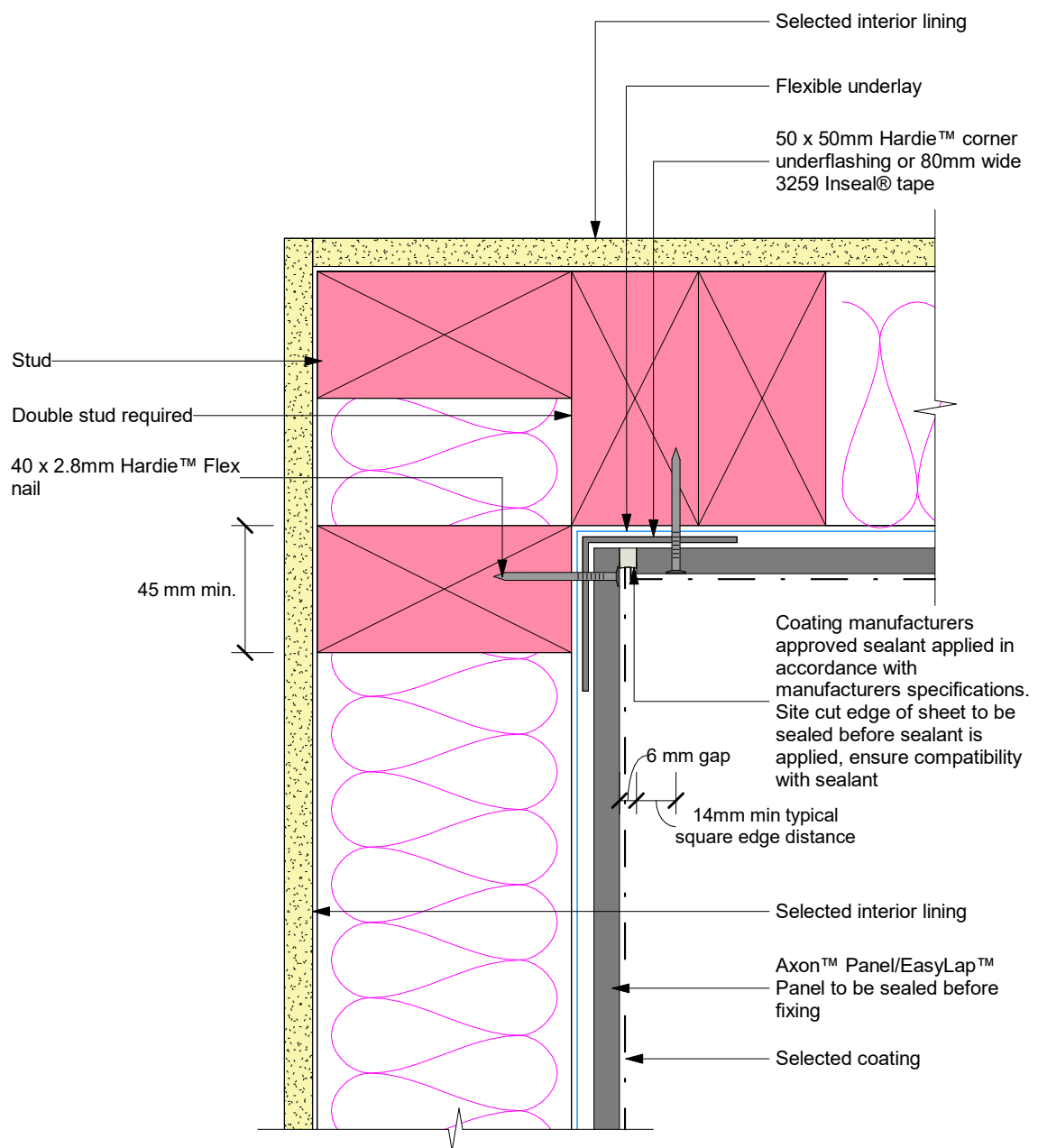
**Figure 5: EasyLap™ Panel vertical shiplap joint - Hardie™ Flex nail**



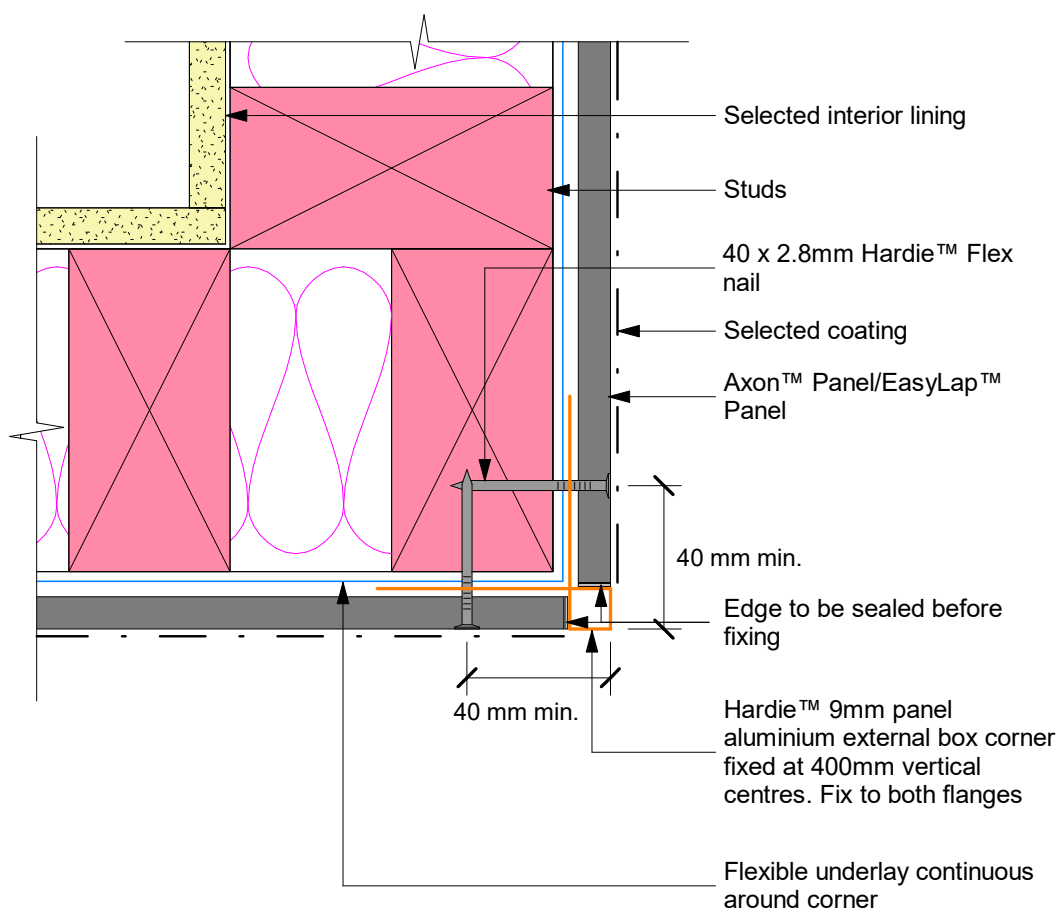
**Note:**

- \* Ensure that the required edge distance is maintained when fixing.
- \* Seal cut edges with a primer compatible with final coatings.

**Figure 6: Internal corner detail**



**Figure 7: External corner detail**

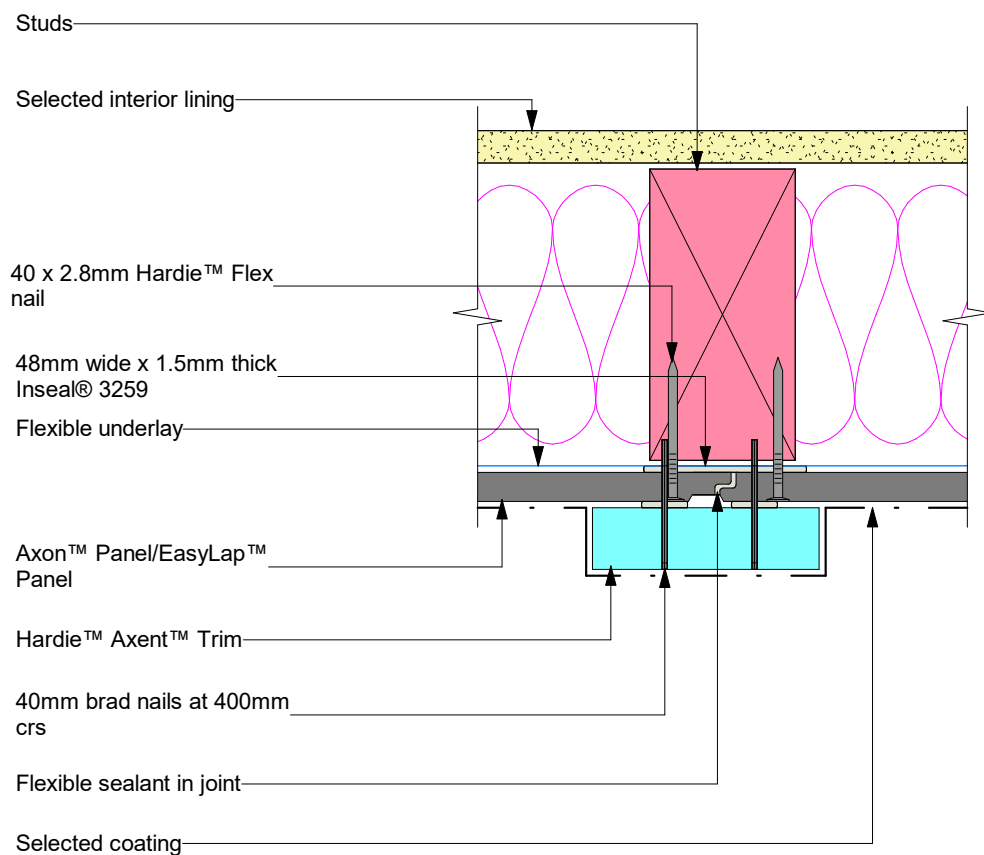


Note:

- Refer to Figure 12 for jointing with 'h' mould.



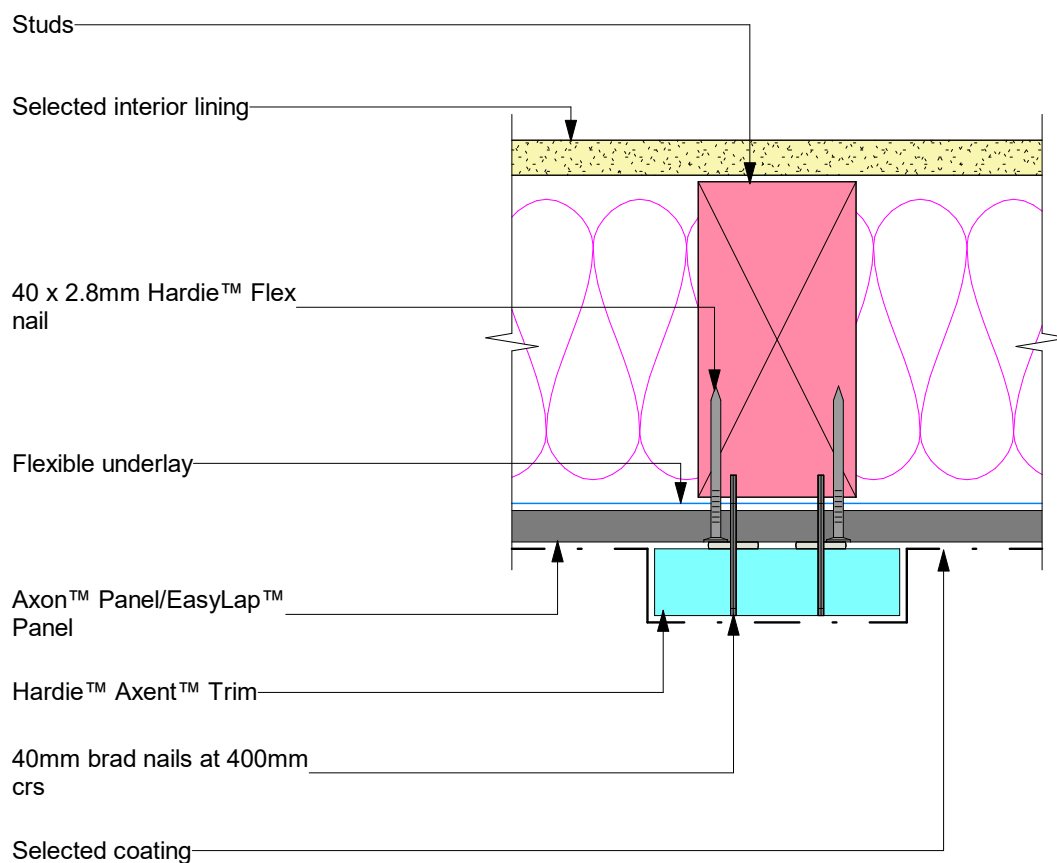
**Figure 8: Hardie™ Axent™ Trim at joint**



**Note: Notes:**

- Ensure that a continuous 6mm bead of adhesive sealant is applied between Hardie™ Axent™ Trim and Axon™ Panel.
- Ensure that the required edge distance is maintained when fixing.
- Seal cut edges with a primer compatible with final coatings.

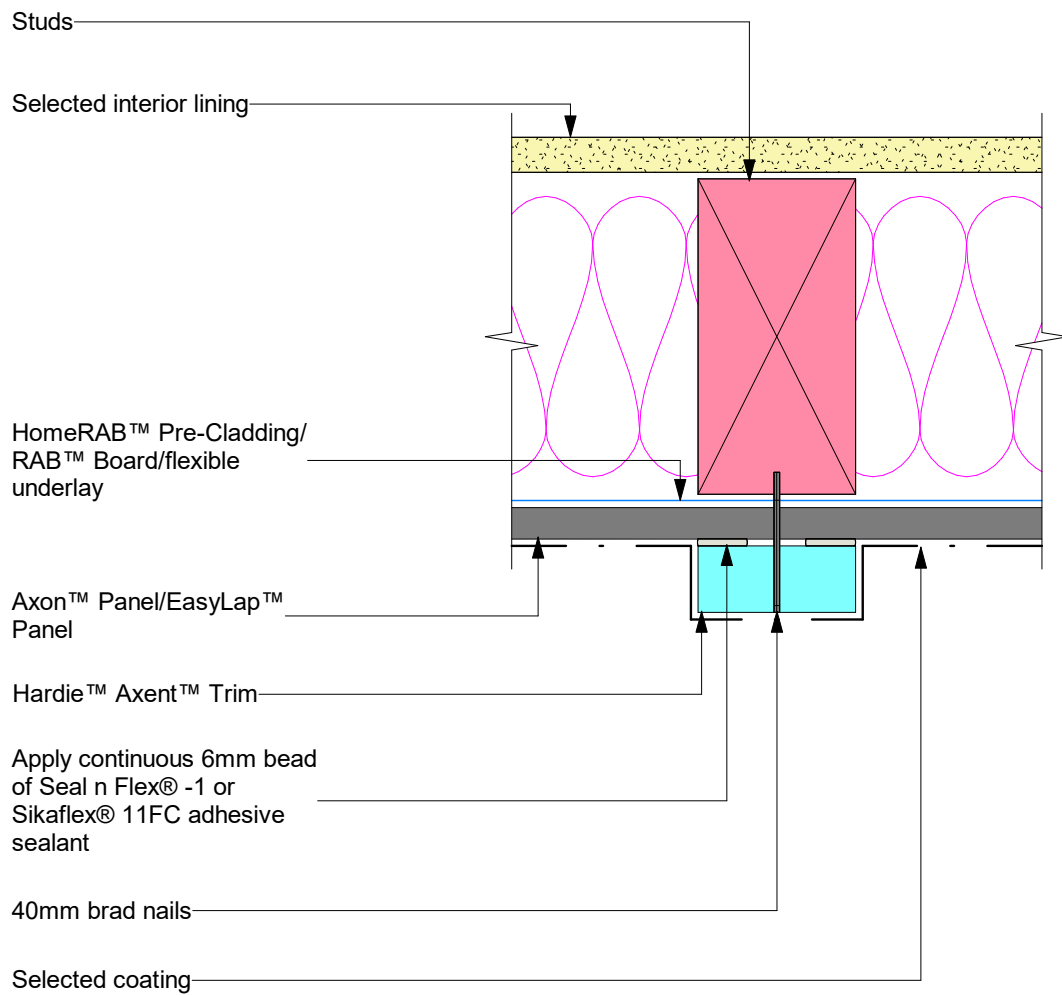
**Figure 9: Hardie™ Axent™ Trim 70 and 89mm at non joint**



**Note: Notes:**

- \* Ensure that a continuous 6mm bead of adhesive sealant is applied between Hardie™ Axent™ Trim and Axon™ Panel/EasyLap™ Panel.
- \* Ensure that the required edge distance is maintained when fixing.
- \* Seal cut edges with a primer compatible with final coatings.

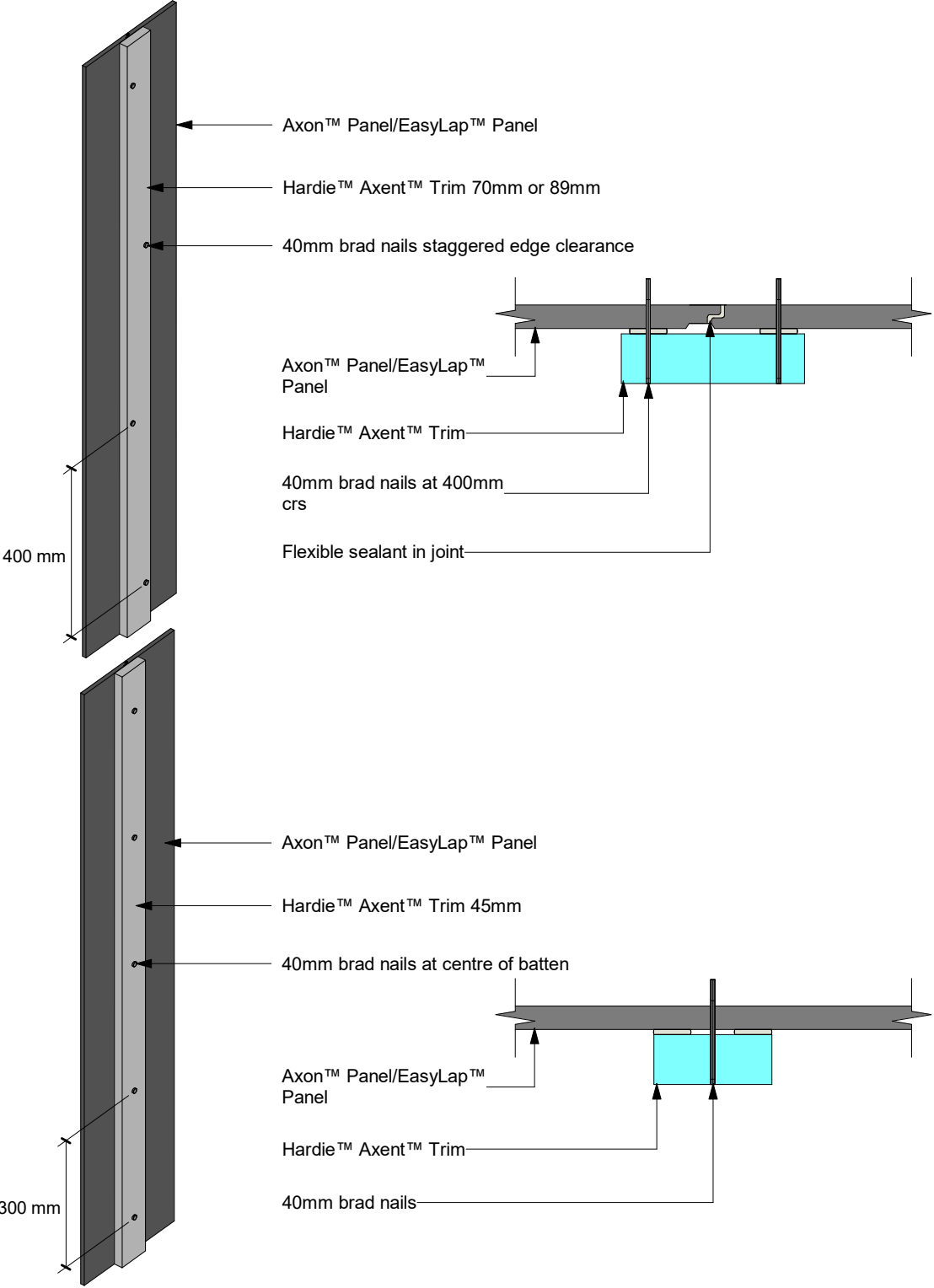
**Figure 10: Hardie™ Axent™ Trim 45mm at non joint**



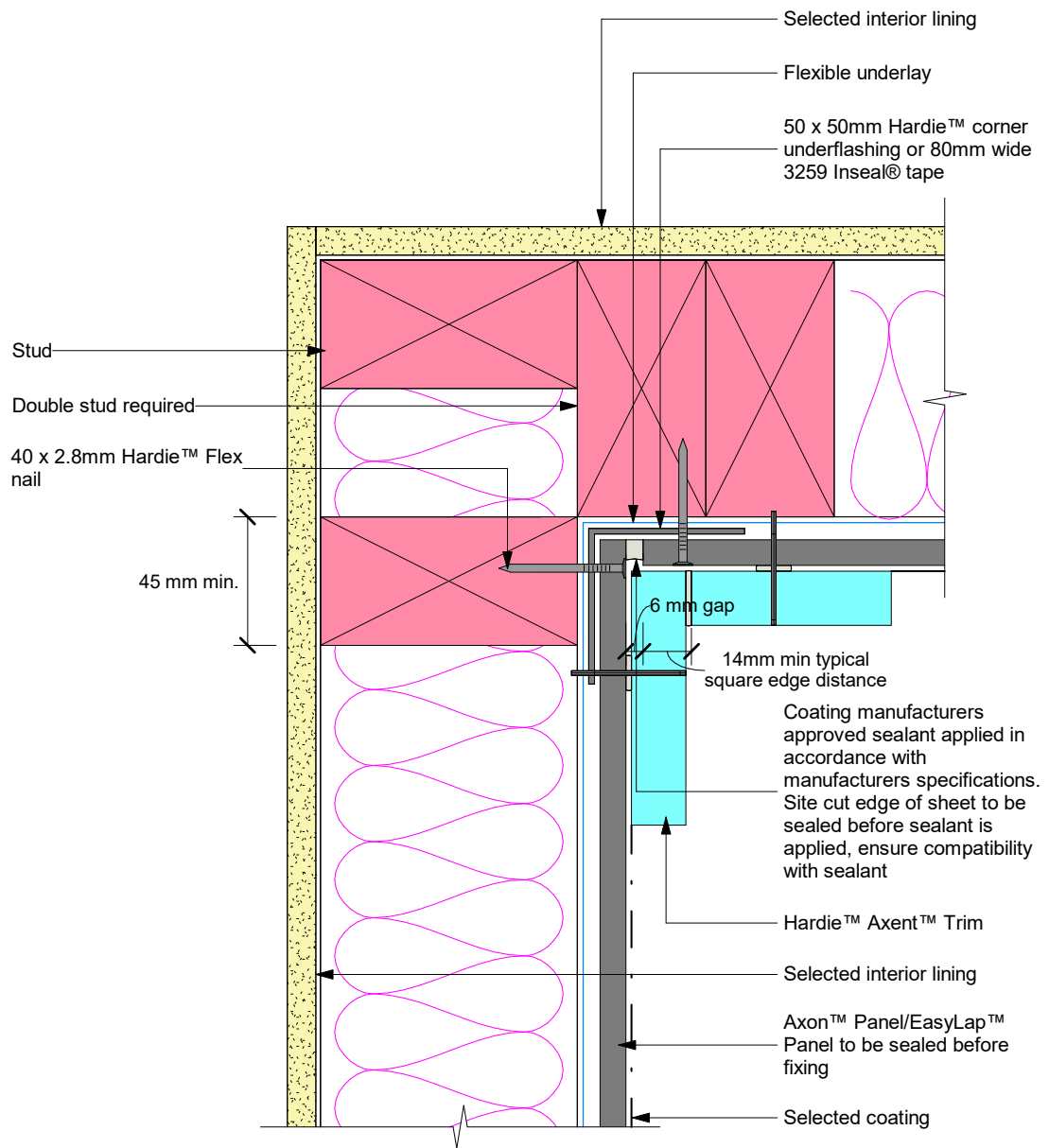
**Note:**

- \* Ensure that the required edge distance is maintained when fixing.
- \* Seal cut edges with a primer compatible with final coatings.

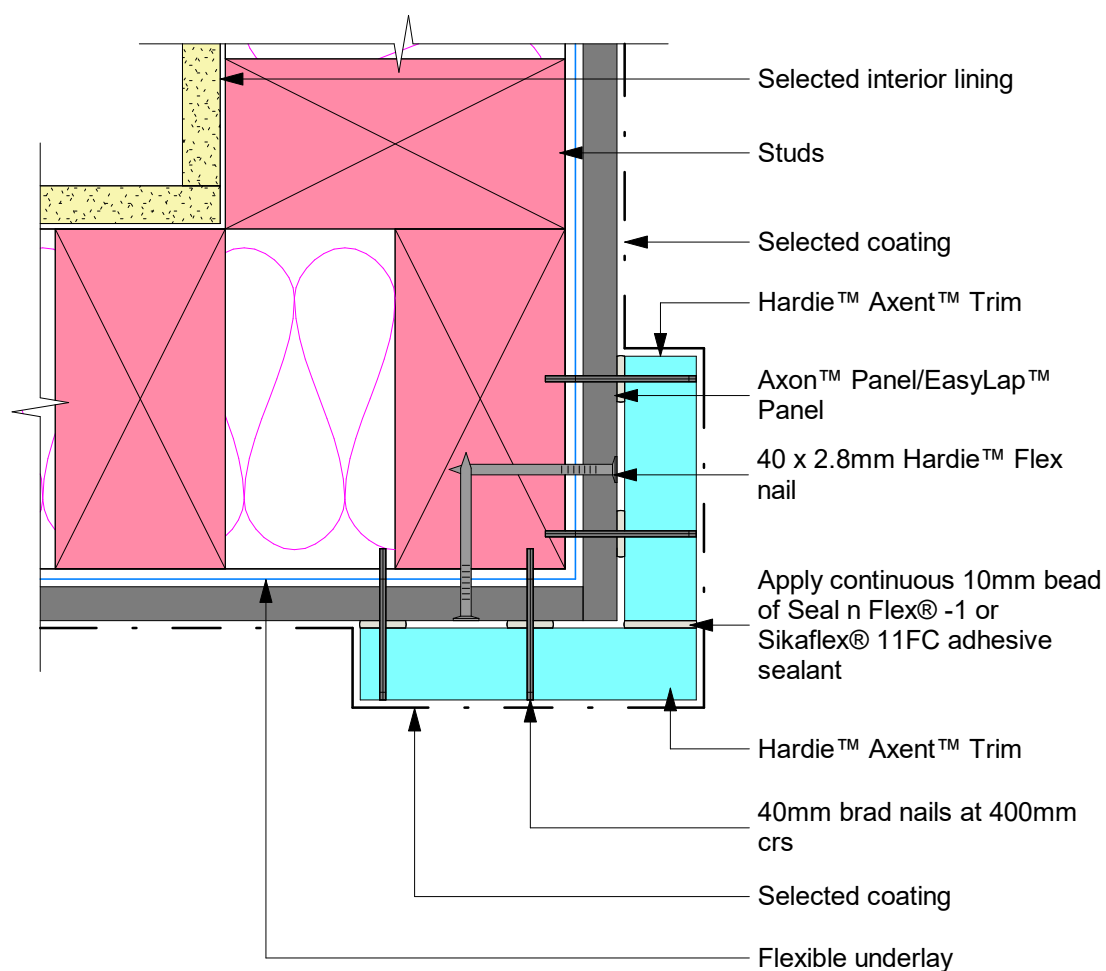
Figure 11: Hardie™ Axent™ Trim fixing



**Figure 12: Hardie™ Axent™ Trim at internal corner**



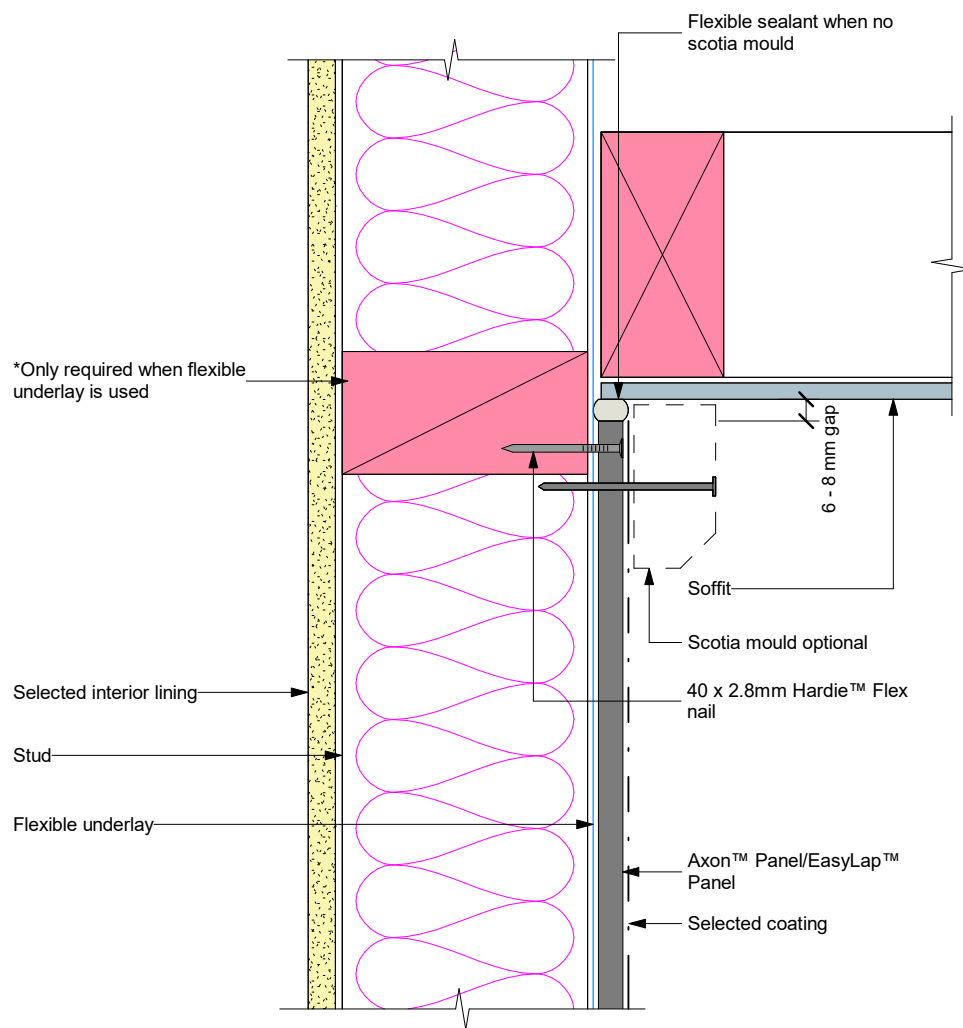
**Figure 13: Hardie™ Axent™ Trim at external corner**



Note:

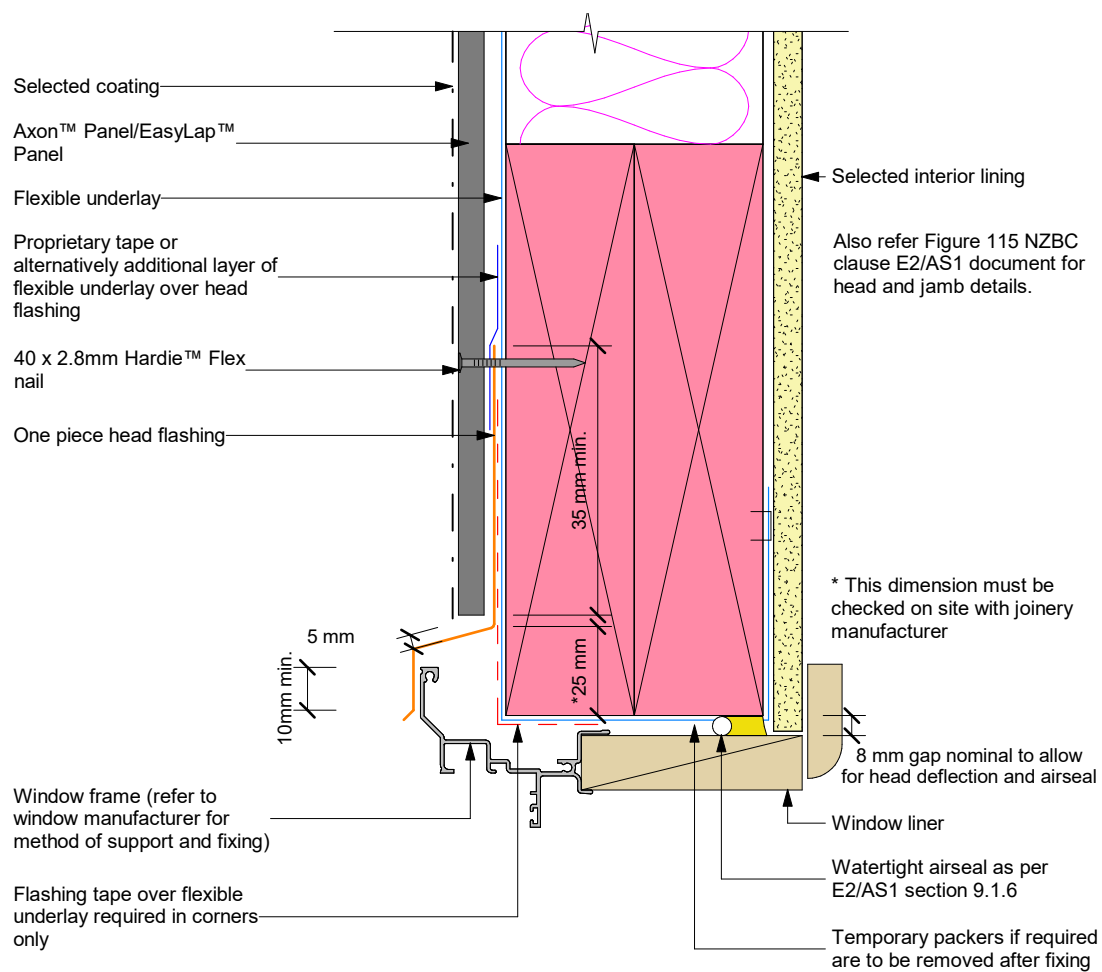
- Refer to Figure 12 for jointing with 'h' mould.

**Figure 14: Soffit detail**



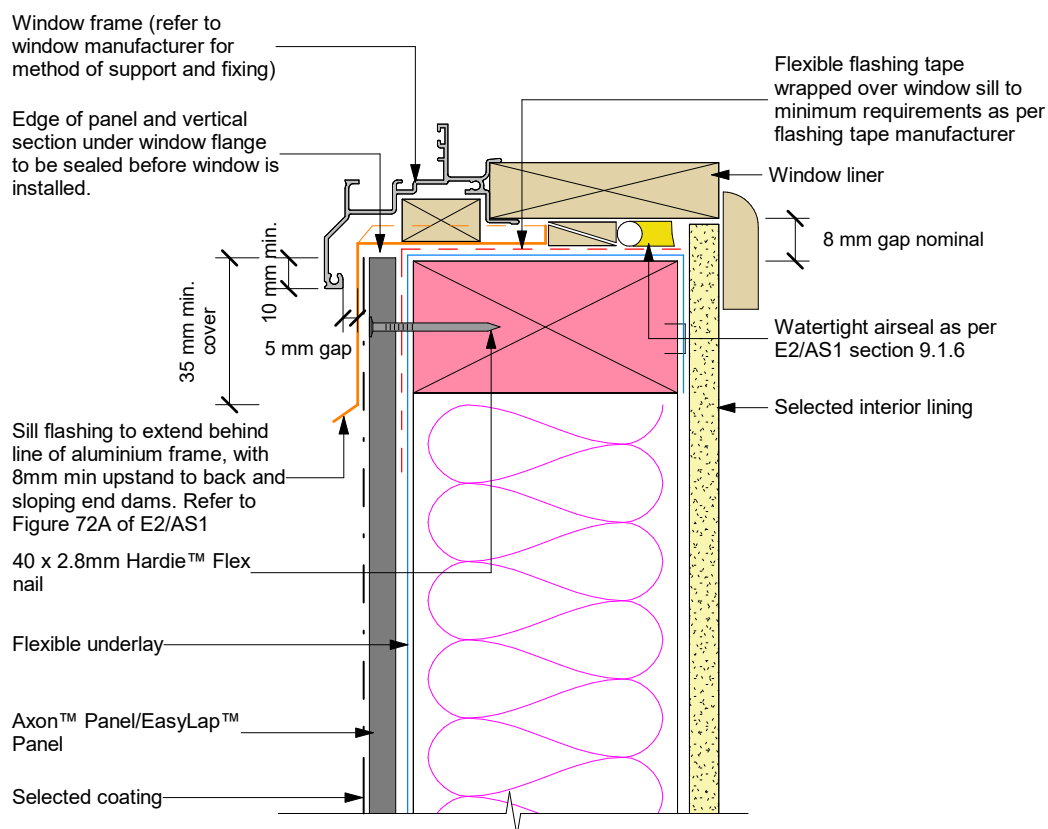
Note: Site cut edges to be primed

**Figure 15: Window head**





**Figure 16: Window sill**

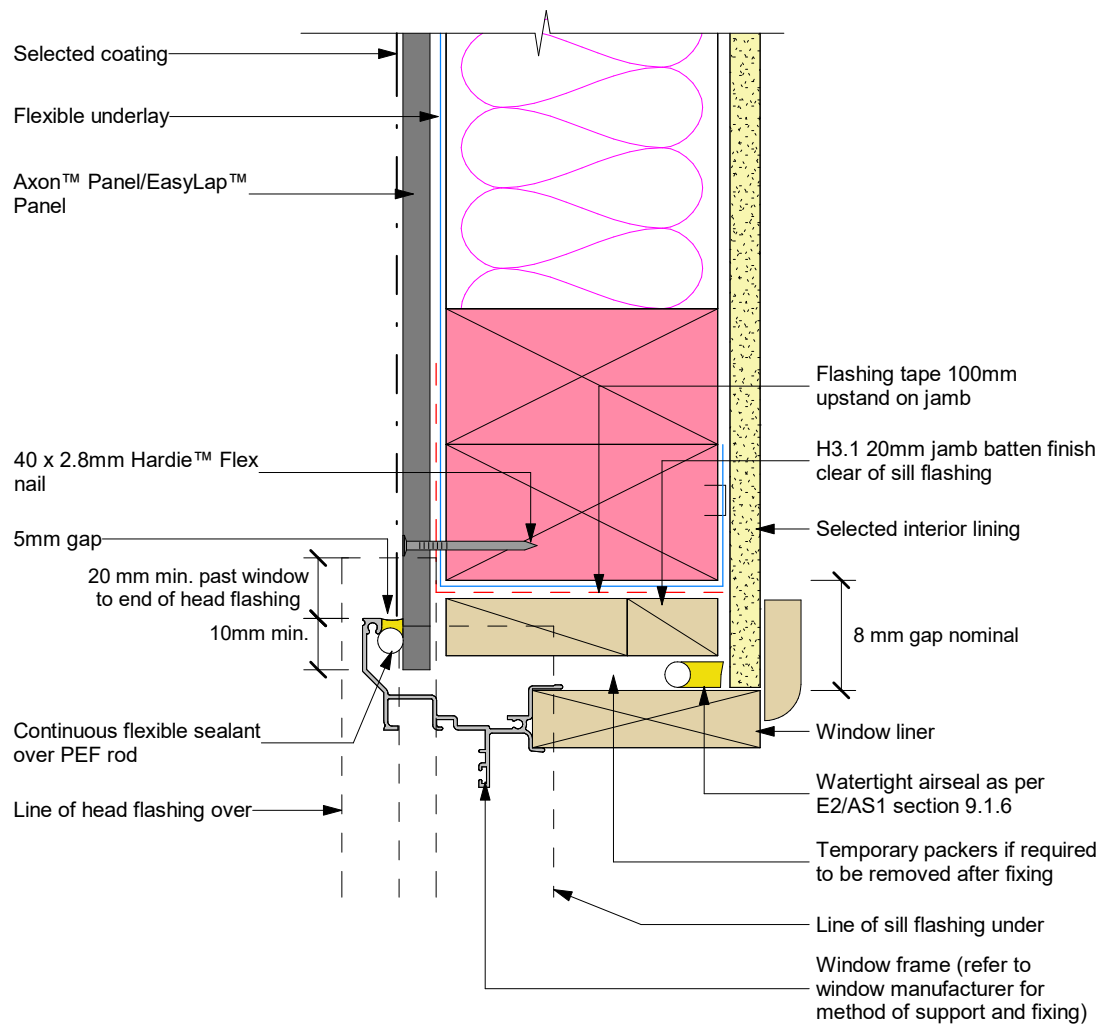


**General notes for materials selection**

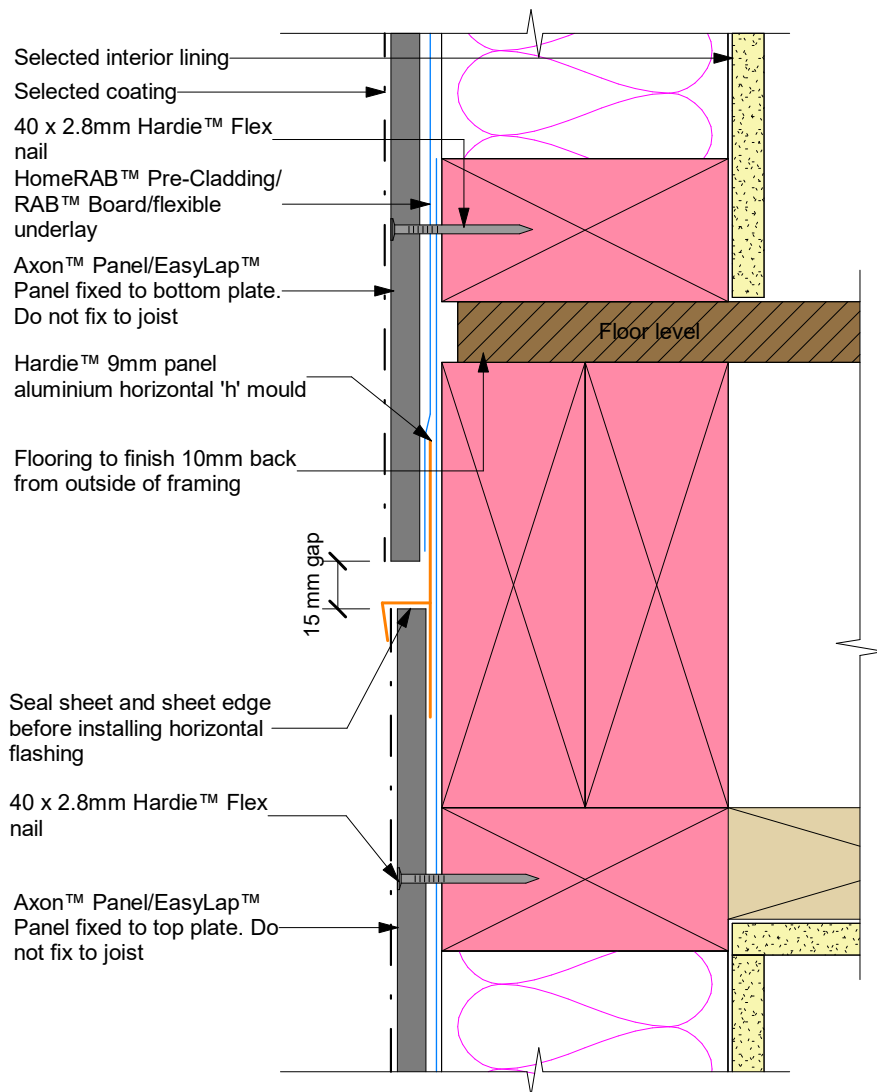
- \* Flashing materials must be selected based on environmental exposure, refer to the NZS 3604 and Table 20 of the NZBC E2/AS1.
- \* Flexible underlay must comply with acceptable solution E2/AS.
- \* Flashing tape must have proven compatibility with the selected flexible underlay and other materials with which it comes into contact.

Refer to the manufacturer or supplier for technical information for these materials.

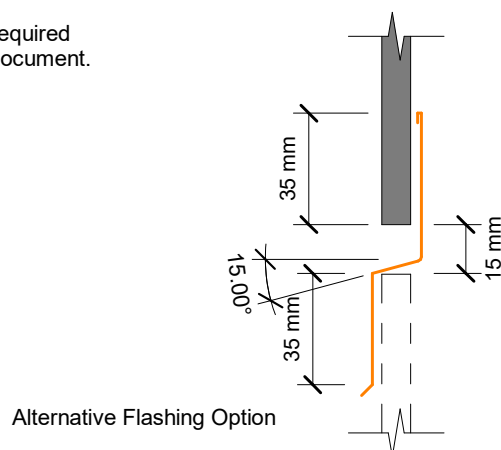
**Figure 17: Window jamb**



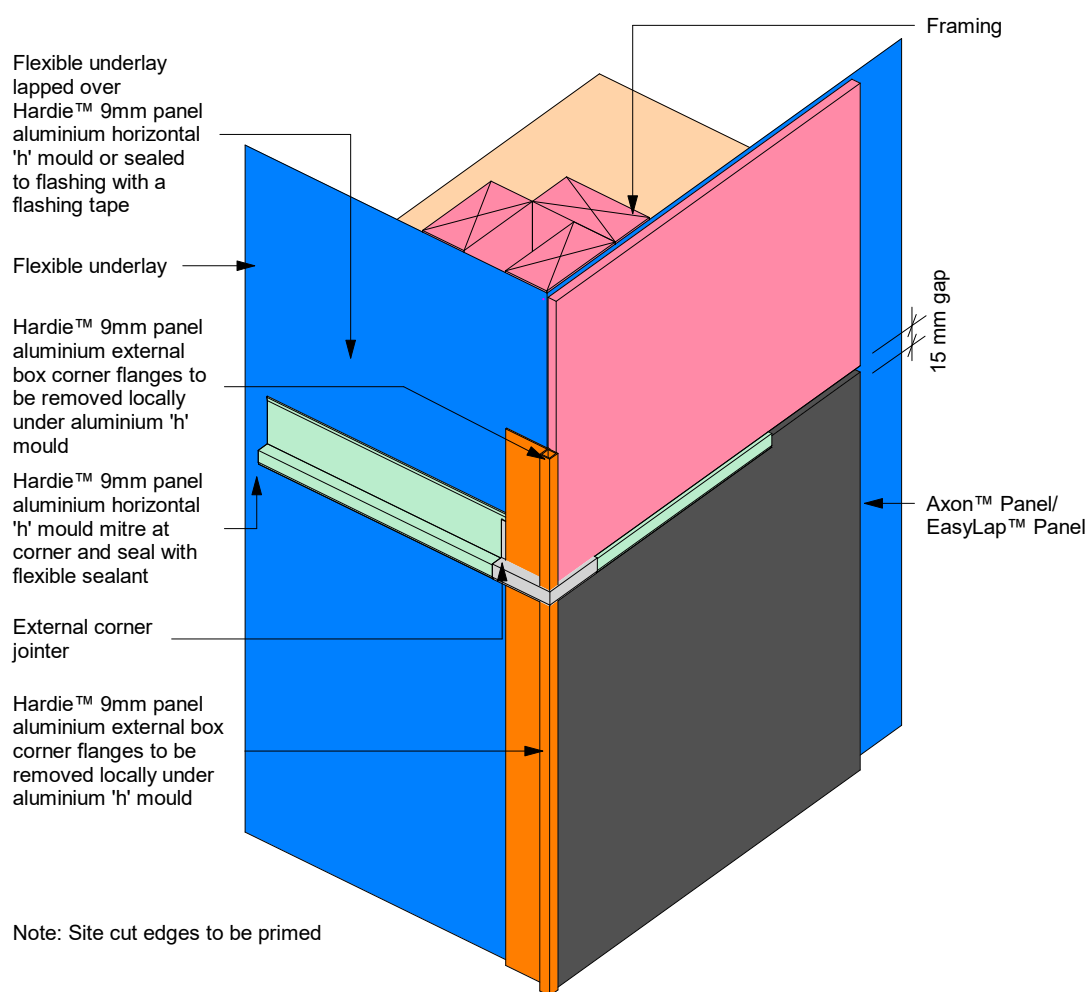
**Figure 18: Horizontal joint detail**



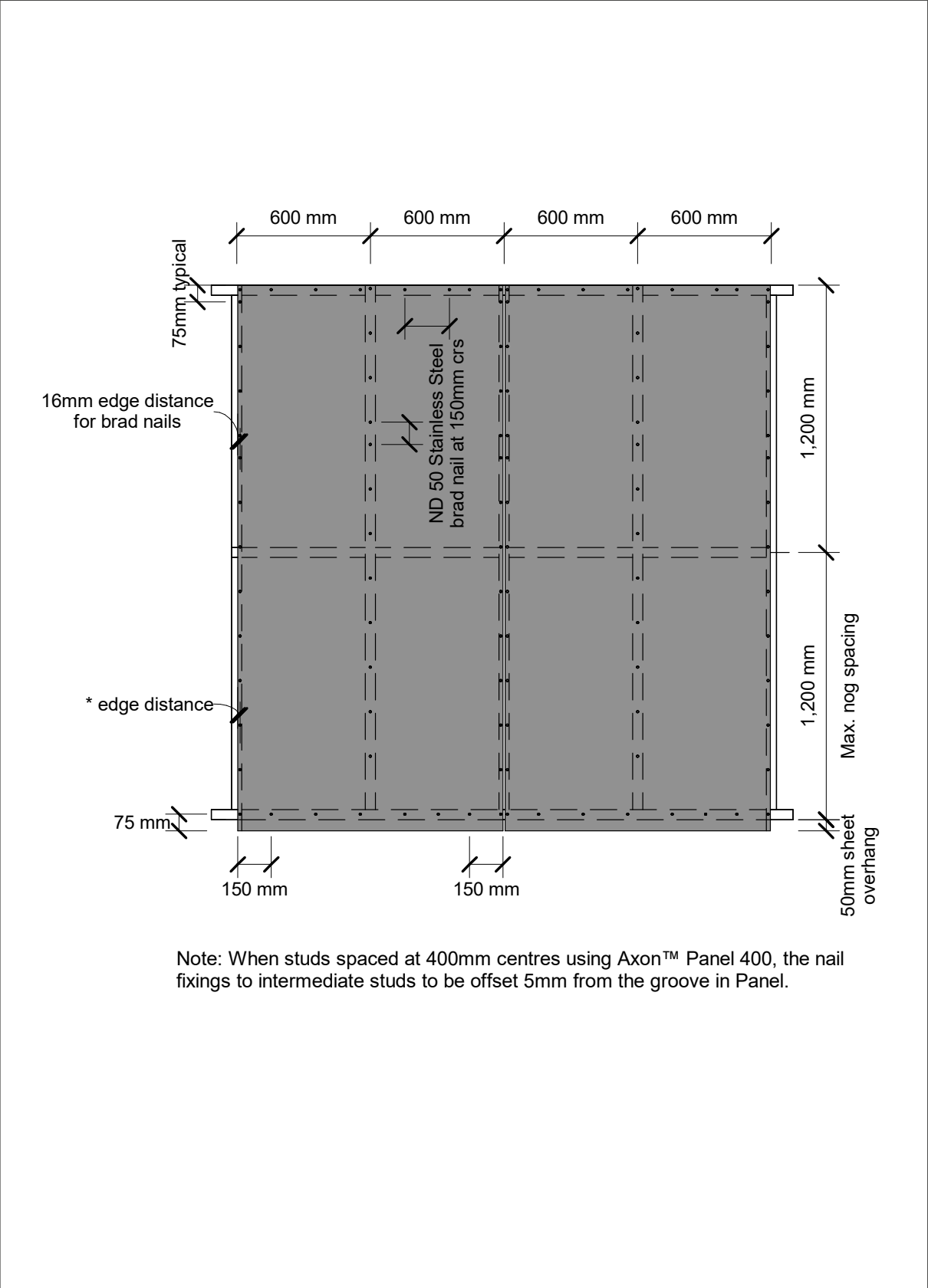
Note: When 50 year durability is required refer Table 20 of NZBC E2/AS1 document.



**Figure 19: Corner at 'h' mould joint detail**

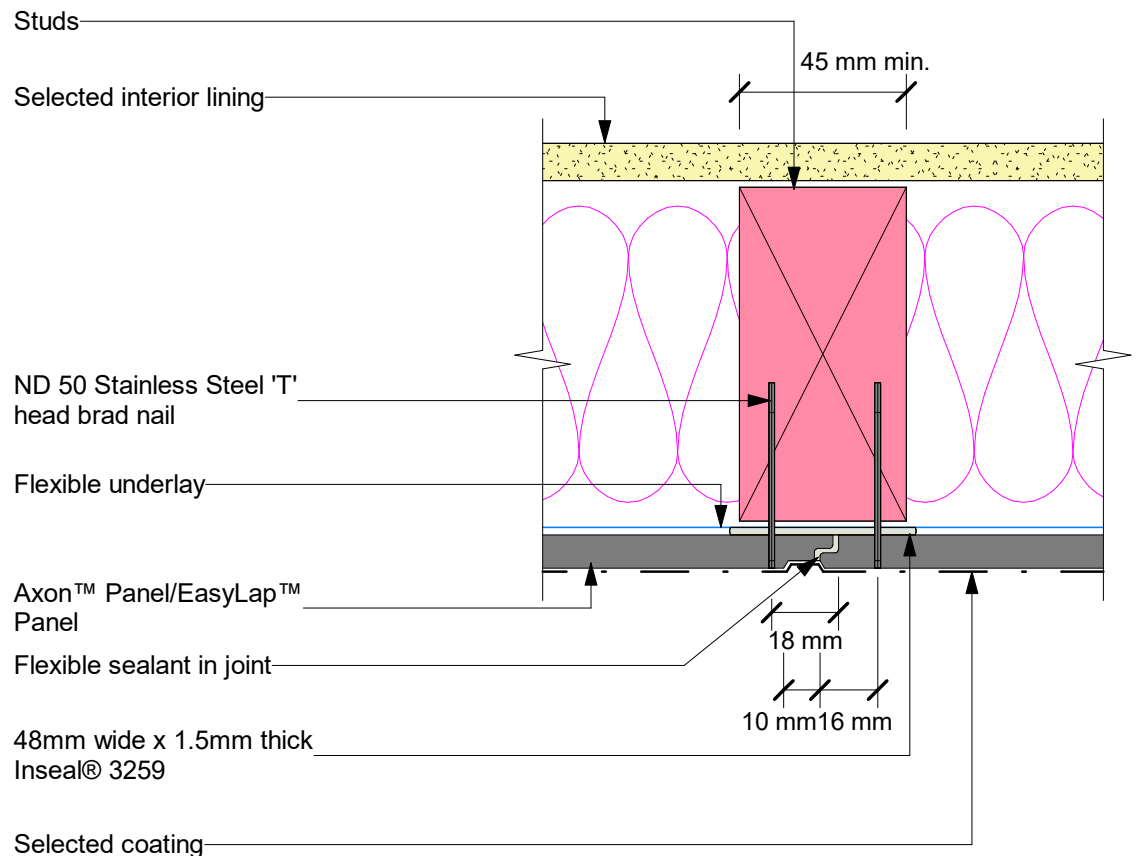


**Figure 20: Direct fixed typical panel brad nail fixing setout**



Note: When studs spaced at 400mm centres using Axon™ Panel 400, the nail fixings to intermediate studs to be offset 5mm from the groove in Panel.

**Figure 21: Shiplap joint - brad nail**



## Notes

## Notes



## Notes

## Product Warranty

James Hardie New Zealand Limited ("James Hardie") warrants for a period of 15 years from the date of purchase that the EasyLap™ Panel (the "Product"), will be free from defects due to defective factory workmanship or materials and, subject to compliance with the conditions below, will be resistant to cracking, rotting, fire and damage from termite attacks to the extent set out in James Hardie's relevant published literature current at the time of installation. James Hardie warrants for a period of 15 years from the date of purchase that the accessories supplied by James Hardie will be free from defects due to defective factory workmanship or materials.

Nothing in this document shall exclude or modify any legal rights a customer may have under the Consumer Guarantees Act or otherwise which cannot be excluded or modified at law.

### CONDITIONS OF WARRANTY:

The warranty is strictly subject to the following conditions:

- a) James Hardie will not be liable for breach of warranty unless the claimant provides proof of purchase and makes a written claim 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.
- b) This warranty is not transferable.
- c) 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. 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.
- d) The project must be designed and constructed in strict compliance with all relevant provisions of the current New Zealand Building Code ("NZBC"), regulations and standards.
- e) The claimant's sole remedy for breach of 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.
- f) 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).
- g) All warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law.
- h) If meeting a claim under this warranty involves re-coating of Products, there may be slight colour differences between the original and replacement Products due to the effects of weathering and variations in materials over time.

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 (c), (d), (f) and (g) above. James Hardie has tested/assessed the performance of the EasyLap™ Panel when installed in accordance with the relevant EasyLap™ Panel technical specification, in accordance with the standards and verification methods required by the NZBC and those test results demonstrate the product complies with the performance criteria established by the NZBC. However, 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 made in its literature and the performance of the relevant system, including its suitability for any purpose or ability to satisfy the relevant provisions of the NZBC, regulations and standards, as it is the responsibility of the building designer to ensure that the details and recommendations provided in the relevant James Hardie installation manual are suitable for the intended project and that specific design is conducted where appropriate.

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# Product Warranty

James Hardie New Zealand Limited ("James Hardie") warrants for a period of 15 years from the date of purchase that the Axon™ Panel (the "Product"), will be free from defects due to defective factory workmanship or materials and, subject to compliance with the conditions below, will be resistant to cracking, rotting, fire and damage from termite attacks to the extent set out in James Hardie's relevant published literature current at the time of installation. James Hardie warrants for a period of 15 years from the date of purchase that the accessories supplied by James Hardie will be free from defects due to defective factory workmanship or materials.

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- b) This warranty is not transferable.
- c) 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. 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.
- d) The project must be designed and constructed in strict compliance with all relevant provisions of the current New Zealand Building Code ("NZBC"), regulations and standards.
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- f) 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).
- g) All warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law.
- h) If meeting a claim under this warranty involves re-coating of Products, there may be slight colour differences between the original and replacement Products due to the effects of weathering and variations in materials over time.

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 (c), (d), (f) and (g) above. James Hardie has tested/assessed the performance of the Axon™ Panel when installed in accordance with the relevant Axon™ Panel technical specification, in accordance with the standards and verification methods required by the NZBC and those test results demonstrate the product complies with the performance criteria established by the NZBC. However, 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 made in its literature and the performance of the relevant system, including its suitability for any purpose or ability to satisfy the relevant provisions of the NZBC, regulations and standards, as it is the responsibility of the building designer to ensure that the details and recommendations provided in the relevant James Hardie installation manual are suitable for the intended project and that specific design is conducted where appropriate.

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