



Installation Manual

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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

1 Introduction

What is it?

Thick and versatile Axent™ Fascia is the easy way to add finishing touches that keep their finish.

Where do you use it?

Designed to accommodate James Hardie soffit linings.

What are the key benefits?

Design options. Axent Fascia is available in 4200mm lengths and 230mm or 180mm widths.

Speed. Axent Fascia has tongue and groove ends for joining allowing for minimal wastage. Paint application is fast because the fascia is pre-primed, which means less paint and time is needed to achieve a high-quality finish.

Low maintenance. Axent Fascia will maintain its integrity and general appearance. It resists shrinking, swelling and cracking to hold paint longer and can also be painted dark as well as light colours.

Durable. Axent Fascia is made from an advanced lightweight cement composite with heavy-duty performance. Not only

is it resistant to fire and damage from rot, but it can also be gun nailed and is easy to cut- like timber. Axent Fascia has a 15 year product warranty when installed and maintained correctly.

Scope

Axent Fascia is suitable for use in buildings that fall within the scope of E2/AS1 or other residential or light commercial buildings covered by specific engineering design (SED).

Make sure your information is up to date

The specifier or other responsible party for the project must ensure that the information and details in this guide are appropriate for the intended application and that specific design and detailing is undertaken for areas which fall outside the scope of this documentation.

When specifying or installing James Hardie products, ensure you have the current manual. If you're not sure you do, or you need more information, visit www.jameshardie.co.nz or Ask James Hardie™ on 0800 808 868.

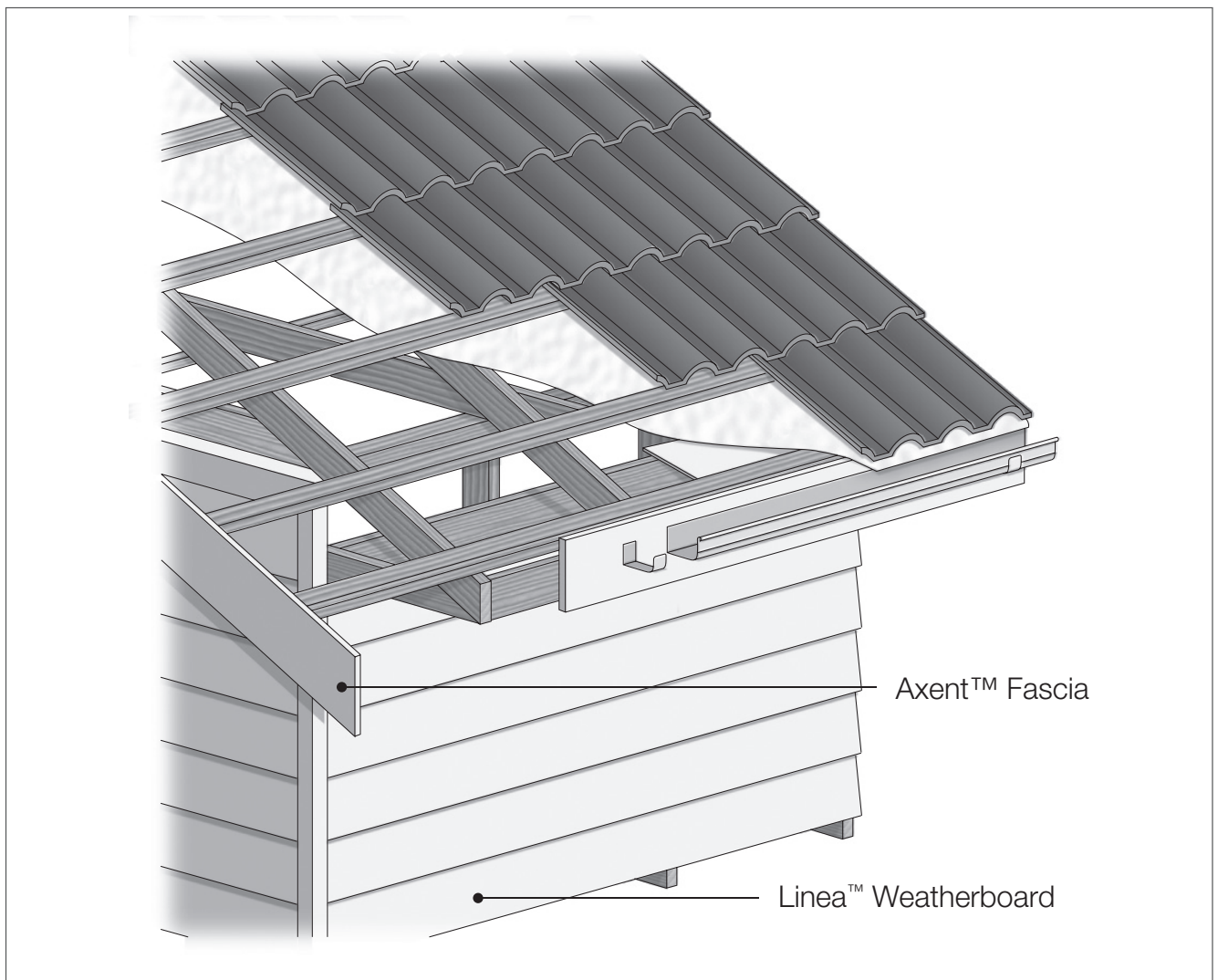


Table 1

Axent Fascia

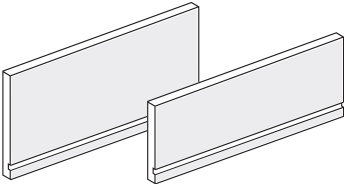
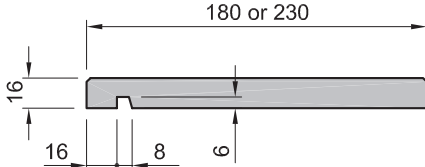


Product	Description	Quantity/Size
	<p>Axent Fascia</p> <p>Low density fibre cement fascia with eave support groove machined into the back of the board. Ends have tongue and groove feature for easy jointing.</p> 	<p>Axent Fascia and Barge</p> <p>Thickness: 16mm</p> <p>Width: 180mm / 230mm</p> <p>Length: 4200mm</p> <p>Approx. mass: 3.5kg/m / 4.5kg/m</p>

Table 2


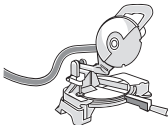

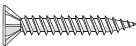


Product / Accessories / Tools

COMPONENTS SUPPLIED BY JAMES HARDIE

Accessories	Description	Product code
	<p>HardieBlade™ saw blade</p> <p>Poly diamond blade, for fast, clean cutting of James Hardie fibre cement.</p> <p>Available in 184mm size.</p>	300660
	<p>HardieBlade™ saw blade</p> <p>Poly diamond blade, for fast, clean cutting of James Hardie fibre cement.</p> <p>Available in 254mm size.</p>	303375

COMPONENTS NOT SUPPLIED BY JAMES HARDIE

James Hardie recommends the following products for use in conjunction with its Axent Fascia products. James Hardie does not supply these products and does not provide a warranty for their use. Please contact the component manufacturer for information on their warranties and further information on their products.

Accessories	Description	Accessories	Description
	<p>Jolt head nails</p> <p>3.15 x 60mm galvanised or stainless steel jolt bullet head nails.</p>		<p>Compound mitre saw</p> <p>Dust reducing compound mitre saw used with HardieBlade saw blade.</p> <p>Makita: LS0714 / LS1016 / LS1216</p> <p>Hitachi: C10FSB / C10FSH</p>
	<p>Vacuum extraction with HEPA filter</p> <p>Used with HEPA filter and paper bag for reduced dust exposure.</p>		<p>Fascia screw</p> <p>Self embedding coarse thread wood screw</p> <p>40mm x 8-10g stainless steel.</p>
	<p>Fibre cement saw blade</p> <p>Poly diamond blade, for fast, clean cutting of James Hardie fibre cement.</p> <p>Available in 305mm size.</p>		<p>Flexible Sealant</p> <p>Sikaflex AT Façade, Bostik Safestud or similar</p>

2 Safe working practices

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

James Hardie products contain sand, a source of respirable crystalline silica. May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product.

Intact fibre cement products are not expected to result in any adverse toxic effects. The hazard associated with fibre cement arises from the respirable crystalline silica present in dust generated by activities such as cutting, rebating, drilling, routing, sawing, crushing, or otherwise abrading fibre cement, and when cleaning up, disposing of or moving dust.

When doing any of these activities in a manner that generates dust, follow 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.

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 HardieBlade™ logo 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

- ✓ 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 HardieBlade 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

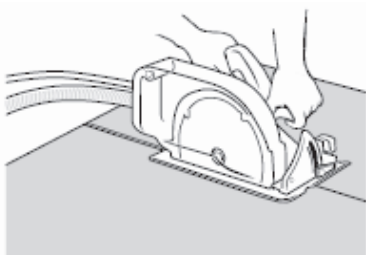
- Wear safety glasses
- Wear hearing protection
- ✓ Make sure you clean up BUT never dry sweep. Always hose down with water/wet wipe or use an M Class or higher vacuum

If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

Working Instructions

HardieBlade™ Saw Blade

The HardieBlade Saw Blade used with a dust-reducing saw is ideal for fast, clean cutting of James Hardie fibre cement products. A dust-reducing saw uses a dust collector connected to an 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:

(Using the image below from the current versions)

- 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

STORAGE AND DELIVERY

Keeping products and people safe

Off loading

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

Storage

James Hardie 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

James Hardie 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.

TIPS FOR SAFE AND EASY HANDLING OF AXENT FASCIA

- ✗ Do not lift planked products flat and in the middle
- ✓ Carry the products on the edge
- ✓ If only one person is carrying the product, hold it in the middle and spread arms apart to better support the product
- ✓ If two people are carrying the plank, hold it near each end and on edge
- ✓ Exercise care when handling weatherboard products to avoid damaging the edges/corners

3 Preparation

PREPARATION

Edges cut on site must be primed before installation with one coat of an oil based masonry primer and then painted (see page 7). Slight chamfering of cut edges is recommended to improve edge paint adhesion.

Do not install Axent Fascia such that it may remain in contact with standing water.

FRAMING

Axent Fascia and Barge can be fixed to timber framing compliant with NZS 3604 and for steel frame buildings. The framing used must comply with the relevant building regulations and standards and the requirements of this manual.

FASTENER DURABILITY

Fasteners must have the appropriate level of durability required for the intended location. 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.

Use 316 stainless steel fixings in a Sea Spray Area Zone D or (Zone C where local area knowledge dictates a higher durability requirement) to comply with the durability requirements of the New Zealand Building Code (NZBC). Galvanised nails can be used in Zone C, and B as specified by NZS 3604.

FASTENER TYPES

When fastening Axent Fascia to timber rafter ends or sub-fascia use 60 x 3.15mm jolt head nails, or a 40mm x 8-10g screw.

Fasten gutter supporting brackets to Axent Fascia with screws. Do not use nails. When attaching gutter brackets or forming corners or junctions in Axent Fascia, only screw/nail through the face into rafters or timber blocking behind. Do not screw/nail into edges or ends.

When using jolt head nails, then the heads of the nails need to be finished or punched 2mm below the surface and filled with a water-proof exterior filling compound as per the manufacturer's recommendations. Punch below surface only suitable for jolt head nails. Screws can be finished flush with the board surface.

Note: Minimum edge distances for fastener fixing are to be 20mm from an edge and 100mm from the ends.

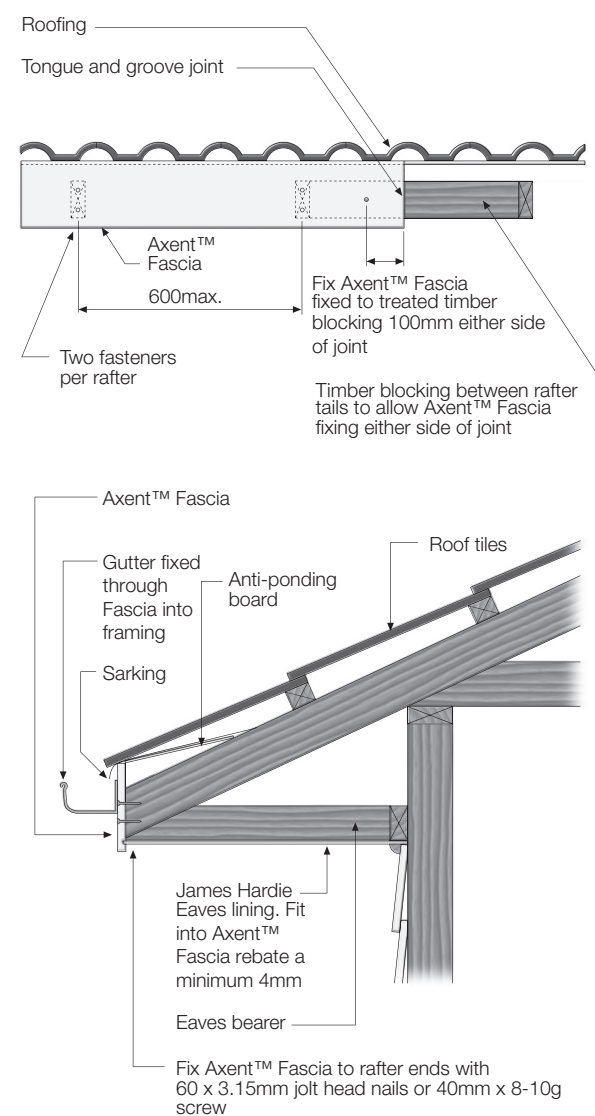
4 Installation

RAFTER SPACING $\leq 600\text{MM}$ CENTRES

When fixing Axent Fascia to rafters at 600mm centres or less, fasten directly to the rafter ends. Axent Fascia is jointed using the 'tongue and groove' ends. Where these joints occur rafter blocking must be used, unless there is already a sub-fascia board. Fix board to blocking at 300mm maximum staggered centres and do not fix within 100mm of the 'tongue and groove' joint, see Figure 1.

Axent Fascia can be cut along the top edge to suit the narrower widths. The cut edge must be sealed with an oil based masonry primer.

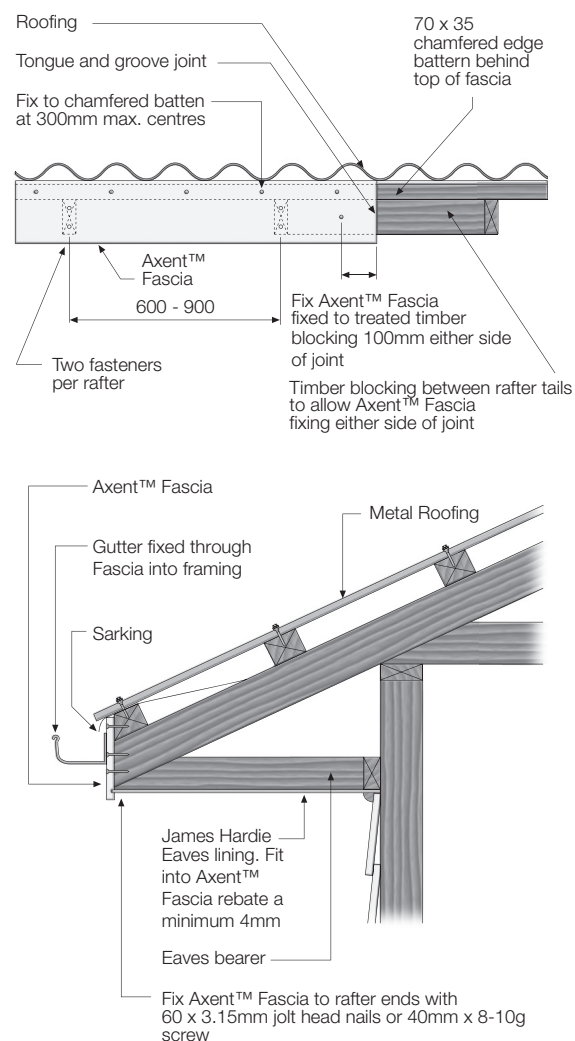
Figure 1:
Fixing to rafters at 600mm centres or less



RAFTER SPACING 600MM – 900MM

For rafters spacing between 600mm and 900mm the Axent Fascia must be fixed to the rafter ends and also be fixed to a chamfer batten at 300mm maximum spacings. These fixings are required in addition to the fixings into the rafter tails, see Figure 2.

Figure 2:
Fixing to rafters at 600mm – 900mm centres or less

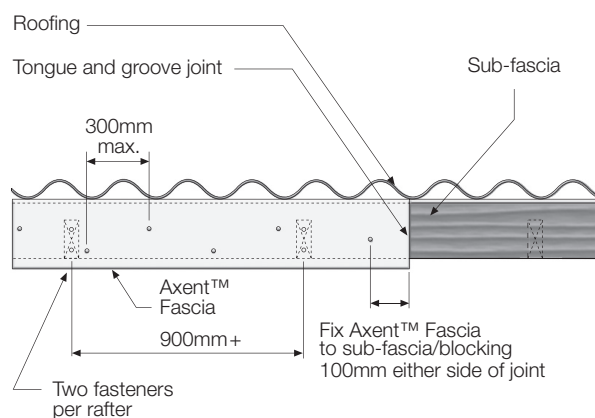


RAFTER SPACING \geq 901MM

For rafter spacings over 900mm a structurally adequate timber sub-fascia/blocking must be used. The sub-fascia/blocking is typically a suitably treated exterior grade timber 35mm deep x 120mm high as a minimum.

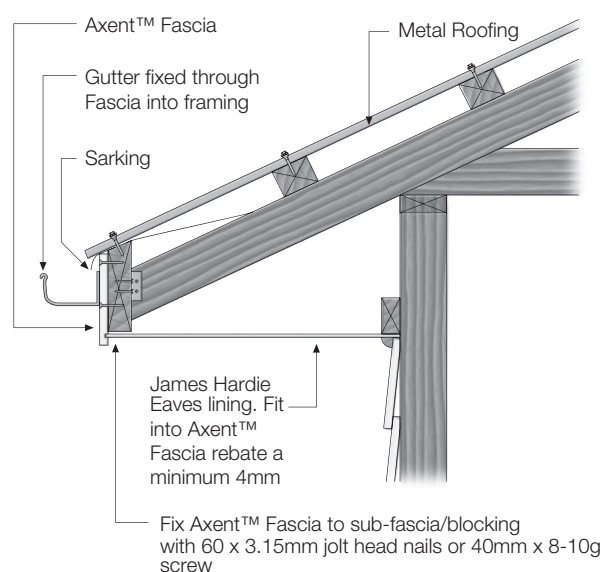
This sub-fascia/blocking must be securely fastened to the rafters and the Axent Fascia is then fixed to it with fasteners at 300mm staggered centres, see Figure 3.

Figure 3:
Fixing to rafters at 900mm centres or greater



NOTE:

Joints in Axent™ Fascia and sub-fascia/blocking should be off-set by at least one rafter bay.



5 Jointing

The ends of Axent Fascia are jointed by means of a tongue and groove joint over timber blocking. Sealant must be provided in the tongue and groove joint.

6 Product information

GENERAL

Axent Fascia is a cellulose fibre reinforced cement, low density, building product. The basic composition is Portland cement, ground sand, cellulose fibre and water. Axent Fascia is manufactured to AS/NZS 2908.2 'Cellulose-Cement Products Part 2: Flat Panels' (ISO 8336 'Fibre Cement Flat Panels'). Axent Fascia is classified Type A, Category 2 in accordance with AS/NZS 2908.2. (ISO 8336). For Safety Data Sheets (SDS) visit www.jameshardie.co.nz or Ask James Hardie™ on 0800 808 868.

DURABILITY

Resistance to moisture/rotting

Axent Fascia 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)

Resistance to fire

Axent Fascia is classified as 'Non-Combustible Material' which is suitable for use in Fascia applications close to boundaries and complies with Performance C 3.7 of the NZBC Clause C3 Fire Affecting Areas Beyond the Fire Source.

7 Finishing and maintenance

Protective coating of Axent Fascia is required in order to meet the durability requirements of the NZBC.

PREPARATION AND PRIMING

The Axent Fascia must be dry before painting. Punch and fill all jolt head nails a maximum of 2mm below the surface. Fill the hole with an exterior grade builders fill, allow to cure and sand smooth ready for priming. Prime the filled holes in accordance with paint manufacturer's specifications.

SEALANTS

Sealant used must meet the requirements of the NZBC. It is recommended a BRANZ appraised sealant product is used. Appraisal certificate. Their application and usage must be in accordance with manufacturer's instructions. Sealants, if coated, must be compatible with the paint system.

PAINTING

All Axent Fascia are pre-primed on their face and bottom edge with a factory applied acrylic base coat.

Axent Fascia must be painted within 90 days of installation. All exposed faces and bottom edges of Axent Fascia must be finished with quality exterior paint system complying with any of parts 7, 8, 9 and 10 of AS 3730.

Dark coloured paints can be used on Axent Fascia. The dark colours in certain environments may fade over a period of time. Special paints/coatings are required in certain harsh environments.

MAINTENANCE

Regular cleaning and maintenance of the paint, finished surface, joints, junctions, penetrations, etc must be carried out at regular intervals. Maintenance must also meet the requirements of the relevant component manufacturer.

Product Warranty



James Hardie New Zealand Limited ("James Hardie") warrants for a period of 15 years from the date of purchase that the Axent™ Fascia (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, 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 the performance of the Axent Fascia when installed in accordance with the Axent Fascia installation manual, 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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