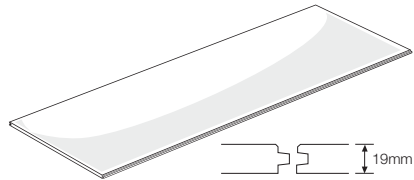


Installation instructions

IMPORTANT NOTES

- Scyon™ Secura™ Exterior Flooring is suitable for internal and external residential flooring applications only. The maximum loading capacities are outlined in the loading section of this manual.
- 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.
- All warranties, conditions, liabilities (direct, indirect or consequential) and obligations whether arising in contract, tort, industry negligence or otherwise other than those specified in James Hardie's product warranty are excluded to the fullest extent allowed by law. For James Hardie's product warranty information and disclaimers about the information in this manual, see the section at the end of this manual.
- The builder must ensure that the product meets aesthetic requirements before installation. James Hardie will not be responsible for rectifying aesthetic surface variations following installation.
- Make sure your information is up to date. When specifying or installing James Hardie® products, ensure that 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.
- Only use recommended water based waterproofing systems.



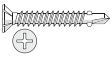
SCYON™ SECURA™ EXTERIOR FLOORING

PRODUCT	DESCRIPTION
	<p>Scyon™ Secura™ Exterior Flooring</p> <p>Structural flooring product for internal and external residential flooring applications. Reinforced with mesh on underside.</p> <p>Long edges have a tongue and groove feature for easy jointing.</p> <p>Size: 19 x 600 x 2700mm Approx. mass: 40kg per sheet Part No. 404050</p>

NOTES



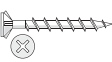

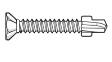

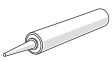





- All dimensions and masses provided are approximate only and subject to manufacturing tolerances. Masses are based on equilibrium moisture content of product.

PRODUCT / ACCESSORIES / TOOLS

COMPONENTS SUPPLIED BY JAMES HARDIE			
ACCESSORIES	DESCRIPTION	ACCESSORIES	DESCRIPTION
	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		James Hardie™ Joint Sealant. 300ml cartridge A general purpose, paintable, exterior grade polyurethane joint sealant. Used for sealing of all sheet joints and can be used to adhere sheets to framing. 20 per box. 1 each. Part No. 306534
	HardieDrive™ Screw 40mm long. A class 3 finish self-tapping wing-tipped screw for fastening to 0.8mm to 1.6mm BMT steel frames. 500 per box. Part No. 305533		

COMPONENTS NOT SUPPLIED BY JAMES HARDIE

James Hardie recommends the following products for use in conjunction with its Scyon™ Secura™ Exterior Flooring. 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>Nails</p> <ul style="list-style-type: none"> 2.8 x 50mm corrosion resistant fibre cement nails 50mm corrosion resistant D Head gun nails 		<p>Gun Nailer</p> <p>Suitable pneumatic or coil gun nailer.</p>
	<p>Screws</p> <ul style="list-style-type: none"> N° 8 x 40mm Corrosion resistant self embedding head for screwing to timber. 		<p>Cordless Drill</p> <p>Recommended tool for screw fixing the sheets to steel and timber framing.</p>
	<p>QuikDrive Collated Screw</p> <p>42mm long Class 3 screw for fixing to 0.8 - 1.6mm BMT steel framing. Part No. CBSDG158SA</p>		<p>Spatula</p> <p>For spreading adhesive over all sheet joints and fasteners.</p>
	<p>Construction Adhesive</p> <p>Suitable construction adhesive for gluing sheets to floor frame.</p>		<p>Vacuum Extraction with HEPA filter</p> <p>Used with HEPA filter and paper bag for reduced dust exposure.</p>
	<p>Dust-reducing Saw</p> <p>Dust reducing saw with a HardieBlade® saw blade.</p>		<p>Epoxy Primer</p> <p>Use a suitable epoxy primer to seal all cut sheet edges and small damaged sheet areas that may have been damaged. eg Watty® Kill Rust Heavy Duty Primer or equivalent.</p>
	<p>Foam Backing Rod</p> <p>A 10mm diameter backing rod is to be fixed into all 5mm butt/movement joints.</p>		<p>Site Applied Primer</p> <p>A single coat of Ardex WPM 300, Parchem Emer-Proof WB Primer or equivalent is recommended over installed Secura exterior sheets in a water resistant deck. This is not considered a waterproof deck.</p>

WARNING

DO NOT BREATHE DUST AND CUT ONLY IN WELL VENTILATED AREA

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

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

JAMES HARDIE RECOMMENDED SAFE WORKING PRACTICES

CUTTING OUTDOORS

1. Position cutting station so wind will blow dust away from the user or others in working area.
2. Use a dust reducing circular saw equipped with HardieBlade® saw blade and HEPA vacuum extraction.

SANDING/DRILLING/OTHER MACHINING

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

IMPORTANT NOTES

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

P1 or P2 respirators should be used in conjunction with above cutting practices to further reduce dust exposures. Additional exposure information is available at www.jameshardie.com.au to help you determine the most appropriate cutting method for your job requirements. If concern still exists about exposure levels or you do not comply with the above practices, you should always consult a qualified industrial hygienist or contact James Hardie for further information.

STORAGE AND HANDLING

To avoid damage, all James Hardie building products should be stored with edges and corners of the sheets protected from damage.

James Hardie building products must be installed in a dry state and protected from weather during transport and storage. The stored product must be laid flat under cover on a smooth level surface clear of the ground to avoid exposure to water, moisture, etc.

Protective gloves must be worn while handling sheets.

SCOPE

These Installation Instructions cover the use of Scyon™ Secura™ Exterior Flooring sheets in a tiled residential deck application. It does not contain all information relevant for constructing a deck and as indicated below appropriate experts must be consulted or additional information sought. For internal floor applications Ask James Hardie™ on 13 11 03.

Constructing a deck involves the installation of two components:

COMPONENT 1: Installation of Sheets

Component 1 is the Scyon™ Secura™ Exterior Flooring sheet. This sheet is installed over timber or light gauge steel frames in a squared or staggered pattern.

COMPONENT 2: Waterproofing and Tiling (Supplied by third party)

Component 2 is a third party supplied and warranted water based waterproofing and tiling system which is installed over the installed Scyon™ Secura™ Exterior Flooring.

To obtain the third party warranty, the entire waterproofing system must be installed from the same manufacturer. Refer to a reputable waterproofing manufacturer for system requirements and warranty conditions.

Note: Waterproofing information provided in this manual is only to be used as a guide. James Hardie are not waterproofing experts and therefore the specifier is responsible for carrying out the necessary design and detailing to ensure the correct waterproofing and finish are in accordance with waterproofing manufacturers standard recommendations and relevant codes and regulations.

All components must be fully compatible with one another. For information on suitable waterproofing and tiles including installation instructions and warranty, refer to a reputable waterproof, tile adhesive and tile manufacturer.

The two types of decks discussed in this manual are:

1. Water resistant decks, and

2. Waterproof decks:

- Liquid applied membrane
- Flexible sheet membrane and mortar bed

The following table outlines the main differences between a water resistant and waterproofed deck.

REQUIREMENT	WATERPROOF DECK	WATER RESISTANT DECK
Floor Waterproofing to meet AS4858*	✓	
External Floor over outdoor area	✓	✓
External Floor over habitable area	✓	

* and Installed to manufacturer's specifications.

NOTE: Even if you do not require a waterproof deck, it is recommended that the deck be made as water resistant as possible (ie that water penetrations be minimised) as it can lead to damage to the frame such as timber dry rot.

DESIGN Compliance

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

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 or any areas that fall outside the scope of this specification.

Loading

Scyon™ Secura™ interior and exterior floor sheets are structurally designed to withstand the domestic and residential activities for self-contained dwellings (Category A1) of Table 3.1 of AS/NZS 1170.1 - 'Structural design actions - Permanent, imposed and other actions' of 1.8kN concentrated load and a UDL (Uniformly Distributed Load) capacity of 2kPa at 450mm floor joist centre's.

NOTE: The code specifies higher load requirements in areas subject to crowd loading, storage of materials, scaffolding and heavy wheel loads. For more information on these applications, Ask James Hardie™ on 13 11 03

Fastener Durability

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

James Hardie recommends a minimum Class 3 fastener for all decks. Do not use zinc plated fasteners. Contact fastener manufacturers for more information.

FRAMING

General

Scyon™ Secura™ Exterior Flooring must be fixed to timber or steel joists installed at 450mm max. centres.

Floor joists must be 45mm wide as a minimum to enable adequate jointing of sheets.

All sheet square edges which includes movement joints, must be continuously supported by framing.

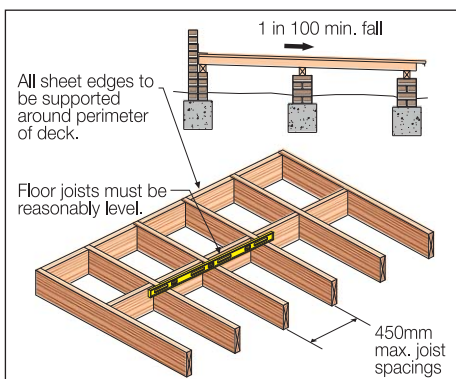


FIGURE 1 FRAME PREPARATION

Step Down

There must be a step down (at least 50mm but preferably 150mm) from the door sill level to the finished surface of the deck to adequately weatherproof the entry door, particularly if it is subject to rain and wind. Refer to relevant building regulations and codes which may specify a larger step down.

Fall

Decks must have a fall to facilitate drainage. Decks must have a fall of at least 1 in 100 away from the building. Floor joists must run in the direction of the fall.

Do not provide fall by packing sheets. The fall can be created by trimming or sloping the joists.

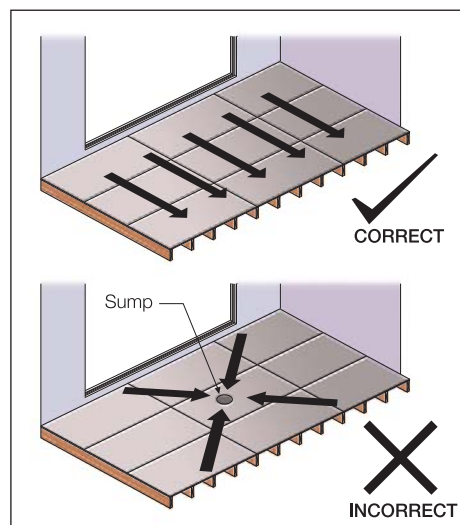


FIGURE 2 DRAINAGE

Balustrade

The balustrade upright supports must be fixed to the structural frame and not to the Scyon™ Secura™ Exterior Flooring.

The balustrade and its supports must not compromise the waterproofing and durability of the deck. Furthermore, the specifier is responsible for any water issues that could occur due to the penetration of the balustrade uprights including fixings, flashing, waterproofing and sheet support.

Timber Framing

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

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

'Timber used for house construction must have the level of durability appropriate for the relevant climate and expected service life and conditions including exposure to insect attacks or to moisture, which could cause decay.' Reference AS 1684.2.

To help reduce the potential for dry rot in timber framework, one of the following is recommended:

- Seasoned treated timber framing
- Suitable seasoned exterior durable hardwood.

NOTE: To help protect against moisture ingress and rot, always prime the end grain of timber members, together with surfaces which are permanently concealed and may be in contact with other building materials. Furthermore, adequate ventilation in the floorspace is recommended.

Steel Framing

Use of steel framing must be in accordance with AS 3623 - 'Domestic metal framing' and the framing manufacturer's specifications. Framing members must be in the range 0.75mm to 1.9mm BMT (base metal thickness).

The steel framing must have the appropriate level of durability required to prevent corrosion.

Tolerances

In order to achieve an acceptable finish, it is imperative that framing is straight and true. Framing tolerances must comply with the relevant codes and the manufacturer's specifications.

COMPONENT 1: Installation of Scyon™ Secura™ exterior flooring sheets

SHEET LAYOUT

Planning the layout of the sheets is essential before installing the sheets. The sheets must be laid squared or in a staggered pattern across the floor joists. All square sheet edges including movement joints, must be fully supported by framing.

Using the sheet layout selection table below, the specifier can select the recommended sheet layout based on the deck type and finished system:

SHEET LAYOUT SELECTION TABLE			
DECK TYPE	SHEET LAYOUT	FINISH	SHEET CONTROL JOINTS
Water Resistant	Squared	Tile Direct, see page 5	2.7m In direction of sheet only, see Figure 3. (At end of sheet)
Waterproofed	Squared	Method 1, see Figure 16	
Waterproofed	Staggered	Method 2, see Figure 20	4.1m In direction of sheet only, see Figure 5. (At end of sheet)

Squared Sheet Layout: Tiled Direct

Refer to Figure 16.

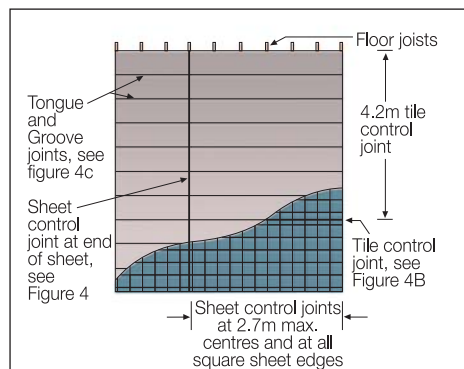


FIGURE 3 SQUARED SHEET LAYOUT

NOTES ON FIGURE 3

- A floating mortar bed is not recommended with the squared sheet option.
- All sheet control joints must carry up through the tiles, see Figure 4.
- If additional tile control joints are required, these should coincide with sheet edges. See Figures 4 and 4B. Refer to relevant tile codes for recommended tile control joint spacing.

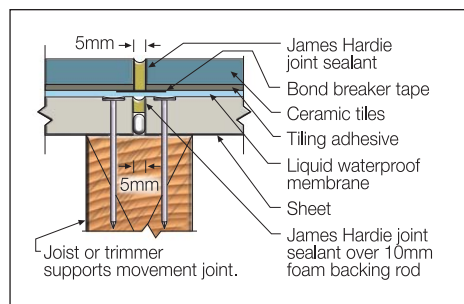


FIGURE 4 DIRECT TILE - TILE MOVEMENT JOINT OVER SHEET MOVEMENT JOINT

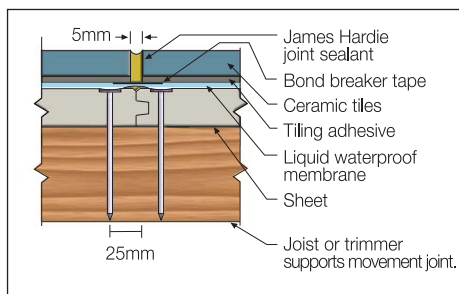


FIGURE 4B DIRECT TILE - TILE MOVEMENT JOINTS OVER TONGUE AND GROOVE JOINT

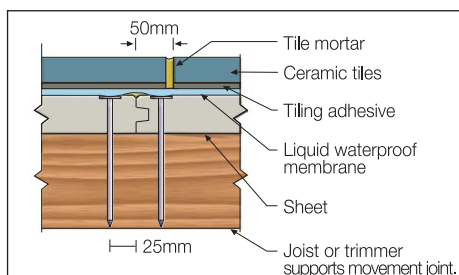


FIGURE 4C DIRECT TILE - TONGUE AND GROOVE JOINTS

Staggered Sheet Layout: Mortar Bed

Refer to Figure 20.

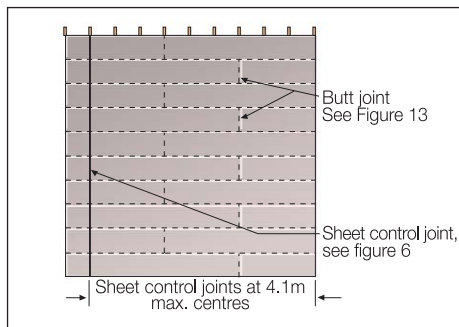


FIGURE 5 STAGGERED SHEET LAYOUT

NOTES ON FIGURE 5

- Only suitable with the flexible sheet membrane and mortar bed deck option, Figure 20.
- Control joints in floating mortar bed and tiling at maximum 4.5 x 4.5m. Sheet edges and movement joints do not need to coincide with mortar bed control joints.

NOTE: Tiling direct to a staggered sheet layout without a floating mortar bed is not recommended. Not following this advice will lead to an increased risk of tile cracking and system performance issues.

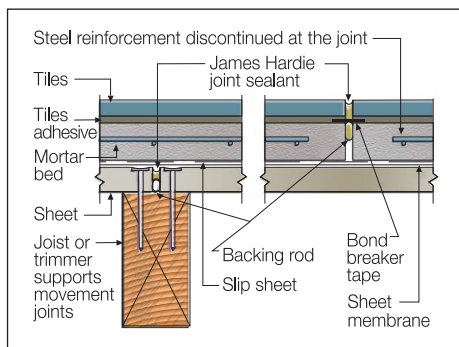


FIGURE 6 MORTAR BED - MOVEMENT DETAIL

INSTALLATION STEPS

NOTES:

1. The sheets are installed with the mesh facing down.
2. You must ensure that the product is of acceptable quality prior to installation.
3. The edges of all cut sheets must be sealed with two coats of Wattyl Kill Rust Heavy Duty Primer or equivalent.

The following illustrations show how to install the Scyon™ Secura™ Exterior Flooring Sheets in a squared pattern. When installing the sheets in a staggered pattern the sheet offset must be taken into consideration.

STEP 1: Determine sheet layout and expansion joint placement, see sheet layout section.

STEP 2: Cut desired sheets and seal cut and exposed sheet edges.

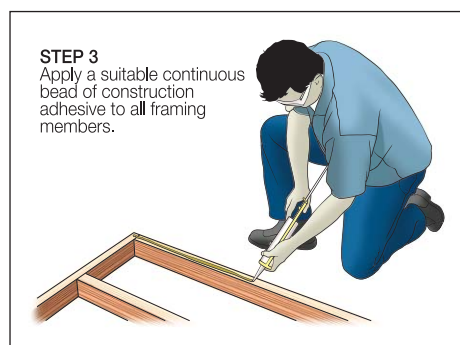


FIGURE 7 CONSTRUCTION ADHESIVE

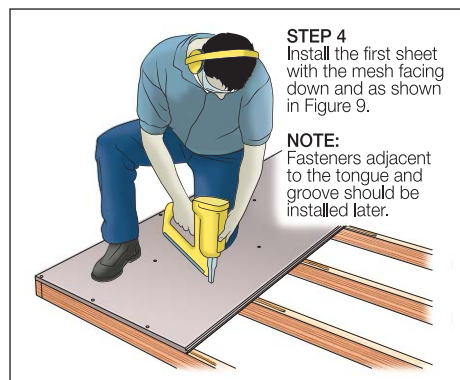


FIGURE 8 FIXING 1ST SHEET

FASTENER SELECTION

PRODUCT	TIMBER JOISTS	STEEL JOISTS 0.75 - 1.6MM BMT	STEEL JOISTS 1.7 TO 1.9MM BMT
2.8 x 50mm FC nails	✓		
50mm D Head gun nails	✓		
No.8 x 40mm CSK self drilling screw	✓		
40mm HardieDrive screw		✓	
40mm QuikDrive screw		✓	
40mm CSK self drilling screw			✓*

NOTE: All fasteners must have a minimum Class 3 finish. * Refer to manufacturer's specifications for suitability and correct installation including minimum and maximum steel joist thickness.

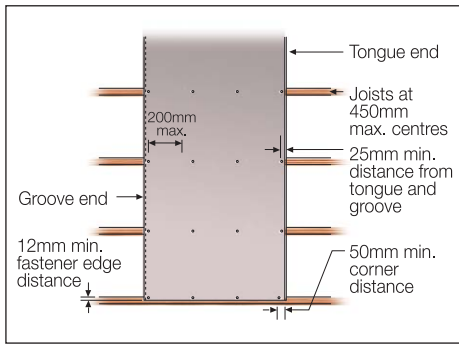


FIGURE 9 FASTENER LAYOUT

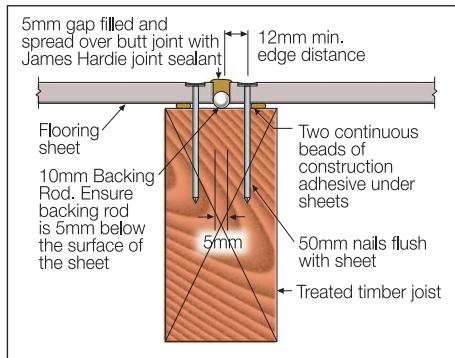


FIGURE 13 BUTT JOINT



FIGURE 10 NAILING 2ND SHEET

NOTES ON FIGURE 13

1. All square edge joints must be fully supported.
2. When tiling direct to sheets, do not tile over butt joints, see Figure 4.

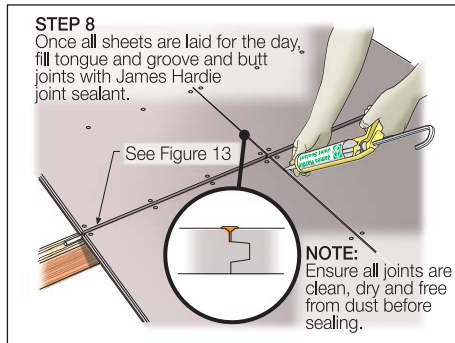


FIGURE 14 SEALING ALL JOINTS

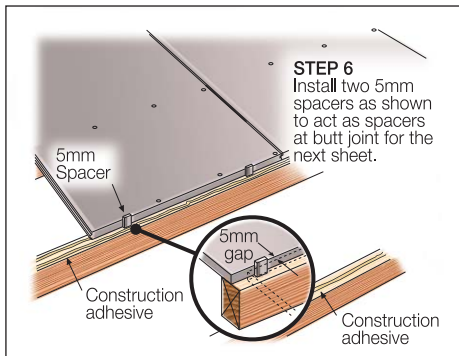


FIGURE 11 CREATING 5MM SHEET JOINT

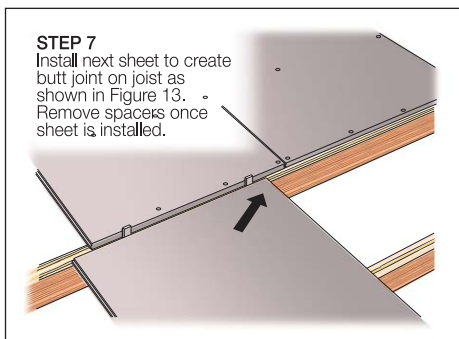


FIGURE 12 INSTALLING 3RD SHEET

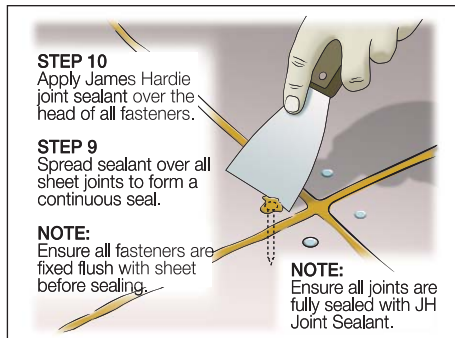


FIGURE 15 SEAL OVER FASTENERS AND JOINTS

NOTE: Avoid excessive foot traffic on the deck for at least 24 hours to allow sealant to set and dry out. Adverse weather conditions may increase this period to 48-72 hours. Once sealant has fully dried, the sheets should be protected from damage and the likelihood of excessive water until the final finishes are applied.

COMPONENT 2: Waterproofing and tiling (Supplied by third party)

Component 2 is a third party supplied and warranted waterproofing and tiling system which is installed over the installed Scyon™ Secura™ Exterior Flooring.

The two types of decks discussed in this section include:

1. A water resistant deck
2. Waterproofing decks:
 - a) **METHOD 1:** Liquid membrane method
 - b) **METHOD 2:** Flexible sheet membrane method

NOTE: This section DOES NOT contain all information relevant for waterproofing and is to be used as a guide only. It is the responsibility of the specifier to carry out the necessary design and detailing to ensure the waterproofing and finish satisfy all relevant codes, regulations and system waterproofing manufacturer recommendations.

Only use approved water based membranes on Scyon Secura exterior flooring.

WATER RESISTANT DECKS

Even if you do not require a waterproof deck, it is recommended that the deck be made as water resistant as possible (i.e. that water penetration be minimised) as it can lead to damage such as timber dry rot or building damage. This includes all sheet joints, junctions and fasteners. Refer to page 7 for information on suitable finishes.

During the installation of the Secura exterior flooring sheets, the factory applied sealer is subject to damage from tools, material and traffic. It is therefore recommended, that a single priming coat of Ardex WPM 300, Parchem Emer-Proof WB Primer or equivalent is applied with a roller over water resistant decks before tiles are installed.

The information contained in method 1 may be used as a guide for constructing water resistant decks.

WATERPROOF DECKS

System selection

To achieve a fully waterproof deck, sheets require a compatible and correctly installed waterproofing system on top of the deck. Refer to waterproofing membrane manufacturer and applicator for system performance and warranty information.

METHOD 1:

This method relies on a liquid applied membrane installed on top of the sheets. Installation of the selected membrane system must be by a licensed/accredited applicator able to offer a waterproofing guarantee, see Figure 16.

WATERPROOF DECK METHOD 1: LIQUID MEMBRANE (SUITABLE FOR SQUARED SHEET LAYOUT ONLY)

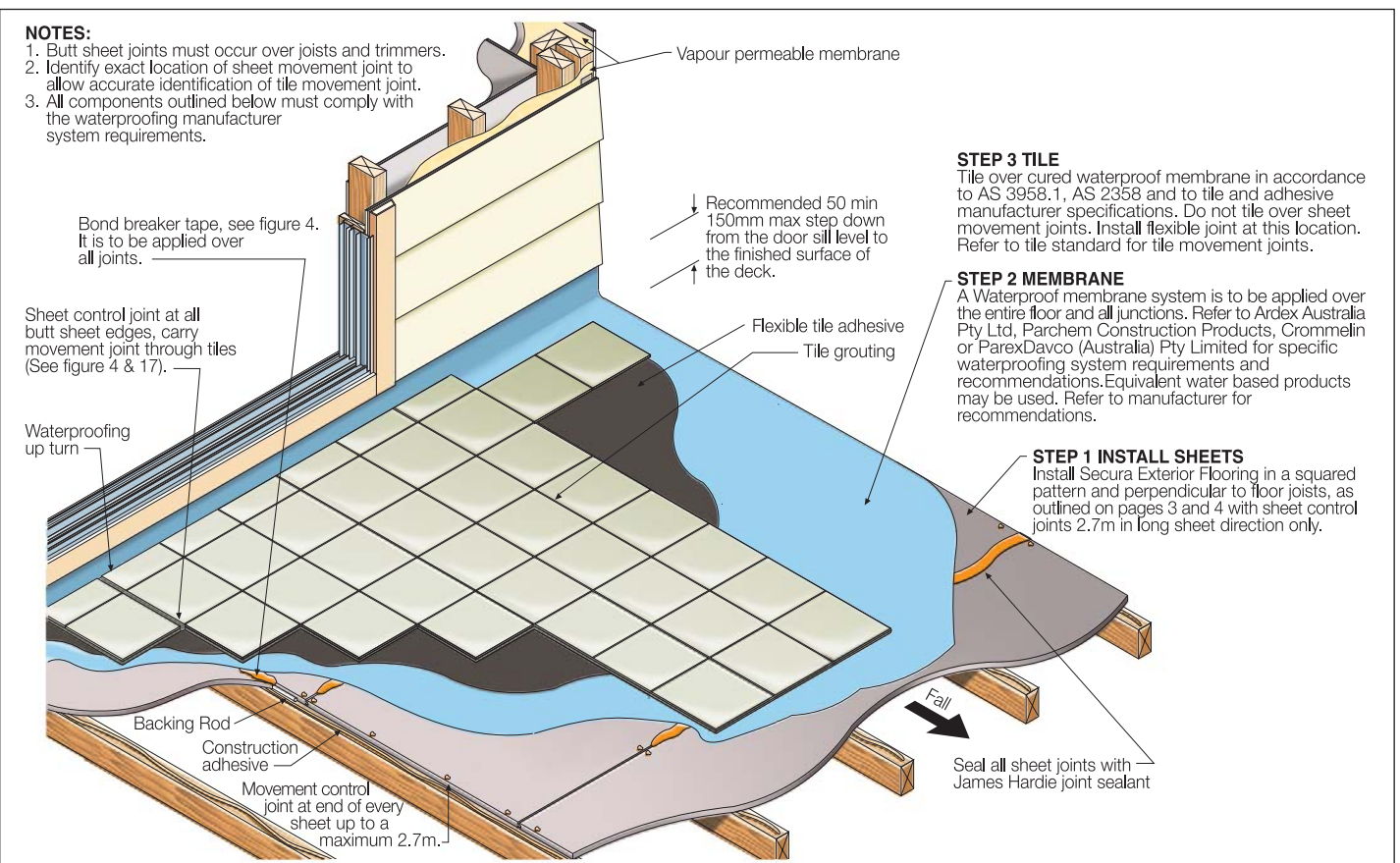


FIGURE 16 METHOD 1 - METHOD INSTALLATION

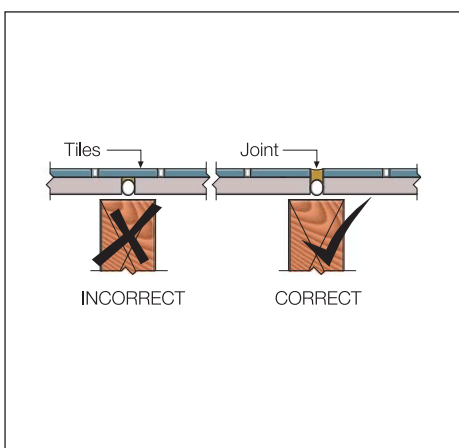


FIGURE 17 METHOD 1: MOVEMENT JOINTS DETAIL

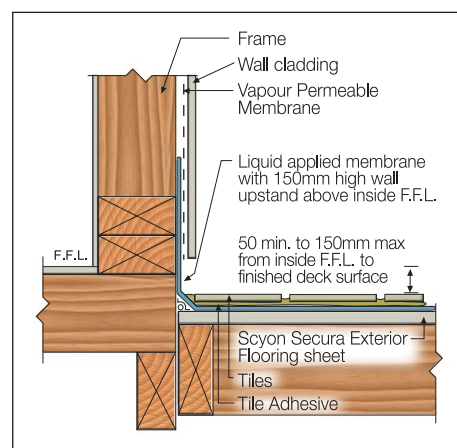


FIGURE 18 METHOD 1: WALL TO DECK FLASHING

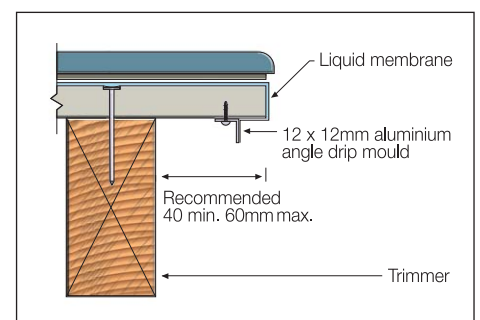


FIGURE 19 METHOD 1 DECK EDGE DETAIL USING DRIP ANGLE

METHOD 2:

This waterproofed deck includes installing a membrane and slip sheet under a tiled mortar bed, see Figure 20.

WATERPROOF DECK METHOD 2: FLEXIBLE SHEET MEMBRANE AND FLOATING MORTAR BED (STAGGERED SHEET LAYOUT)

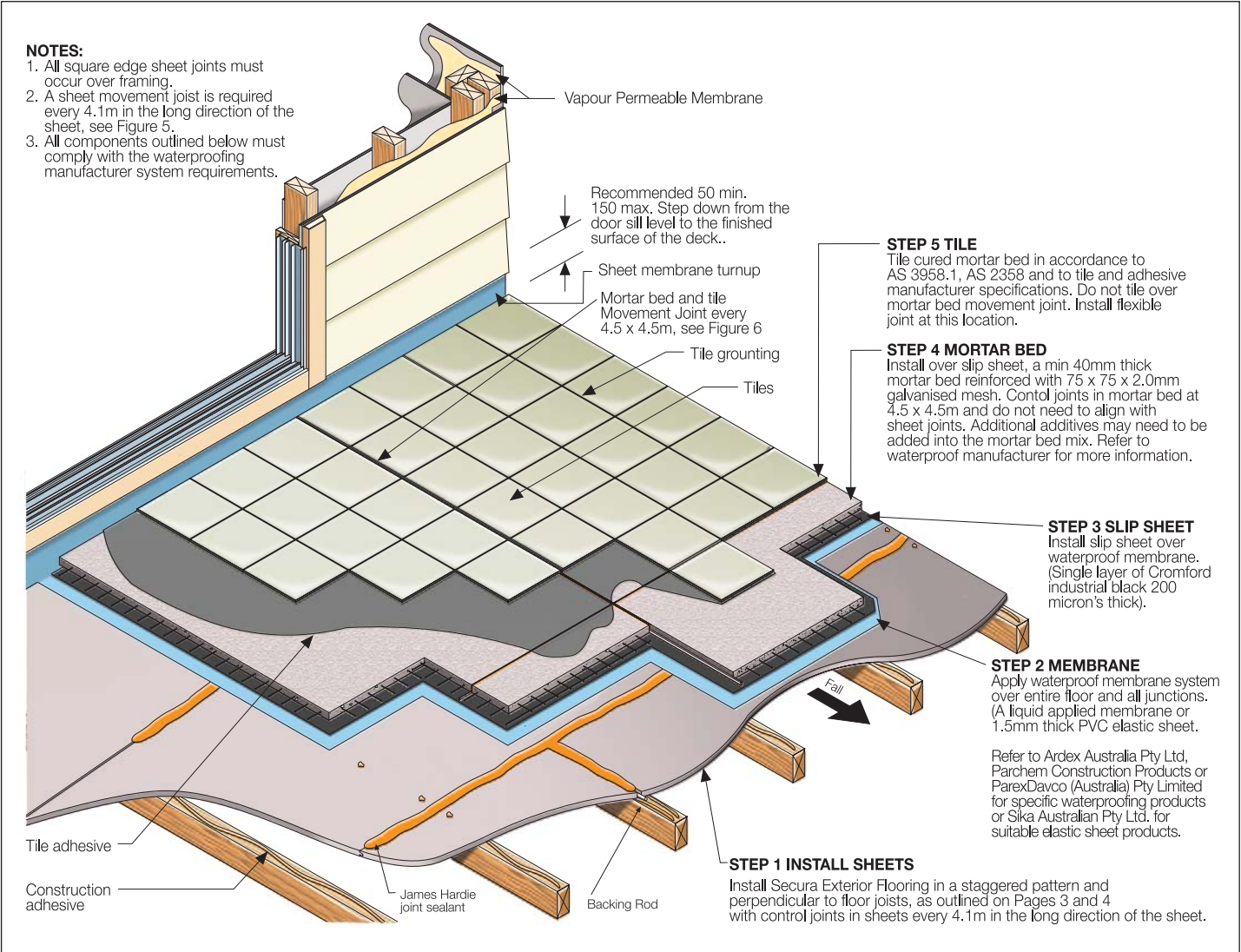


FIGURE 20 METHOD 2 - METHOD INSTALLATION

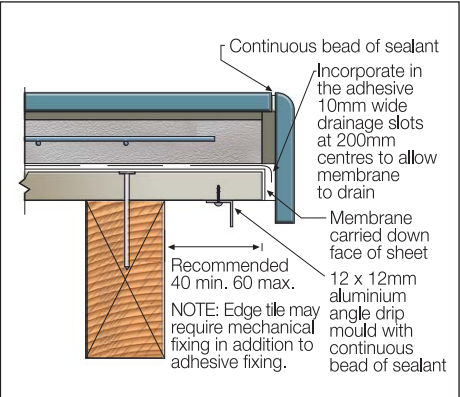


FIGURE 21 METHOD 2 - DECK EDGE DETAIL USING TILE

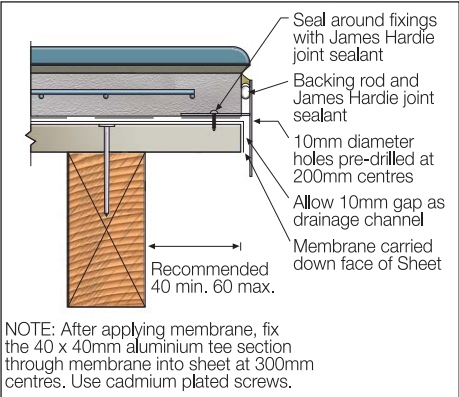


FIGURE 22 METHOD 2 - DECK EDGE DETAIL USING ALUMINIUM TEE SECTION

FINISHES

Only use recommended and tested water based waterproofing systems by Ardex Australia Pty Ltd, Parchem Construction products, Crommelin and ParexDavco Australia Pty Ltd. Refer to these companies on suitable products and for more information.

NOTE: Protect the surface of the external flooring sheets from damage until final finish is applied. Any damage to the surface coating must be repaired immediately to ensure that the deck maintains its integrity.

A drip edge must be installed on all cantilevered sheet edges.

All cut and exposed sheet edges must be sealed with two coats of Wattyl Kill Rust.

A recommended water based finish must be applied to the sheets within 3 months of installing the sheets.

Any waterproof membrane must be appropriately treated at both the joints, the deck to wall junction and deck edge to maintain the integrity of the waterproofing system.

For water resistant decks, it is recommended that a single priming coat of Ardex WPM 300, Parchem Emer-Proof WB Primer or equivalent is applied with a roller over the installed sheets before tiles are installed. This priming coat is recommended because during the installation of the Secura exterior flooring sheets, the factory applied sealer is subject to damage from tools, material and traffic.

All waterproofing systems must be sufficiently flexible across sheet joints to accommodate differential thermal and moisture movement of all the covering materials. The waterproofing system must be installed by a licensed/accredited applicator who will provide a waterproofing guarantee.

At wall junctions and all doorway set downs, it is important to turn the membrane up the vertical face for the full height beyond the step down onto the deck.

All components of the deck must be fully compatible with one another.

For information on suitable waterproofing, tile adhesive and tiles including installation instructions and warranty, refer to a reputable waterproof, tile adhesive and tile manufacturer.

Tiling

Tiles should be applied with proprietary adhesives that conform to Australian Standard AS 2358 and installed in accordance to AS3958.1 and to tile and adhesive manufacturer recommendations. Use a flexible tile adhesive recommended for exposed exterior applications and compatible with all other materials.

When tiling direct to sheets with no mortar bed, the 5mm butt joints between all adjacent sheets act as control joints. These control joints must be carried up through the tiled finish, see Figure 4. When tiling to a mortar bed, the sheet control joints do not need to align with mortar bed and tile control joints, see Figure 6.

It is recommended that tiles are laid from the control joint out. This will ensure that the cut tiles are located around the perimeter of the decking.

Ensure the tile adhesive used is suitable and compatible with adjoining surfaces for the intended application.

Refer to the waterproofing and tile manufacture and relevant tiling codes for maximum tile control joint spacing, product suitability and compatibility including grout, tile adhesive, tile and waterproofing warranty and maintenance requirement.

Maintenance

Regular cleaning and maintenance of the finished surface, joints, junctions, seats, penetrations etc must be carried out at regular intervals. The finished surface must be kept free of organic matter.

Remove any solvent spills immediately with absorbent material.

Ensure adequate protection is provided to all exposed waterproofed areas.

NOTE: Any damage to the surface or waterproofing must be repaired immediately to ensure that the system maintains its integrity.

ADDITIONAL INFORMATION

The above brief notes do not cover all aspects of deck construction and tiling. Further advice should be sought from specialists in that area. The following publications are also recommended:

- CSIRO Notes of Science of Building NSB124.
- Australian Standard AS 3958.1 'Part 1 Guide to the Installation of Ceramic Tiles'.
- Australian Standard AS 2358 'Adhesives - For Fixing Ceramic Tiles'.
- AS 4992.1-2006 Ceramic tiles -Grouts and adhesive.
- BRANZ - 'Good Tiling Practice.'
- BRANZ - 'Waterproofing Decks' - Bulletin 472

PRODUCT INFORMATION

General

Scyon™ Secura™ Exterior Flooring is an advanced cement composite. The basic composition is Portland cement, ground sand, cellulose fibre, water and proprietary additives. Scyon™ Secura™ Exterior Flooring is manufactured to ISO 8336 "Fibre cement flat sheets" and is classified Type A, Category 2 in accordance with this standard.

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

Product mass

Based on equilibrium moisture content the approximate mass of Scyon™ Secura™ Exterior Flooring is 24.5kg/m².

Durability

Resistance to moisture/rotting

Scyon™ Secura™ Exterior Flooring has demonstrated resistance to permanent moisture induced deterioration (rotting) by passing the following tests in accordance with AS/NZS2908.2:

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

Resistance to fire

James Hardie flooring products have been tested to AS/ISO 9239, and exceed the requirements stipulated in the Building Code of Australia - Specification C1.10a Fire Hazard Properties – Floors, Walls & Ceilings. All James Hardie flooring products have a critical radiant flux values greater than the minimum requirement of 4.5 kW/m² (highest value in accordance with Table 1), and a smoke development rate well below the maximum allowable smoke development rate of 750 percentage-minutes.

Resistance to termite attack

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

Scyon™ Secura™ Exterior Flooring

10 Year Warranty

January 2012

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

- for a period of 10 years from the date of purchase, the Product will be free from defects due to defective factory workmanship or materials; and
- for a period of 10 years from the date of purchase, the Product will be resistant to damage from cracking, moisture, rotting, fire and termites to the extent set out in James Hardie's relevant published literature current at the time of installation; and
- for a period of 12 months from the date of purchase that the accessories supplied by James Hardie will be free from defects due to defective factory workmanship or materials.

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

CONDITIONS OF WARRANTY

This warranty is strictly subject to the following conditions:

- (a) James Hardie will not be liable for breach of this warranty unless the claimant provides proof of purchase of the Product and makes a written claim to James Hardie at the address set out below, either within 30 days after the defect would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation.
- (b) the Product is subject to natural variation in finish as part of the manufacturing process. The builder/installer must ensure the Product meets aesthetic requirements before installation. Subject to the terms of this warranty, after installation of the Product, James Hardie is not liable for claims arising from aesthetic surface variations if such variations were, or would upon reasonable inspection have been, apparent prior to installation;
- (c) this warranty cannot be relied upon by any other person and is not transferable;
- (d) the Product must be installed and maintained strictly in accordance with the relevant James Hardie literature current at the time of installation and must be installed in conjunction with the components or products specified in the literature. To obtain copies of such literature go to or contact Ask James Hardie™ on 13 11 03. Further, all other products, including coating and jointing systems, applied to or used in conjunction with the Product must be applied or installed and maintained strictly in accordance with the relevant manufacturer's instructions and good trade practice;
- (e) the project must be designed and constructed in strict compliance with all relevant provisions of the current Building Code of Australia, regulations and standards;
- (f) if the claimant chooses to rely upon this warranty then the claimant's sole remedy under this warranty for breach of this warranty is (at James Hardie's option) that James Hardie will either supply replacement Product, rectify the affected Product or pay for the cost of the replacement or rectification of the affected Product;
- (g) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, James Hardie will not be liable for any losses or damages (whether direct or indirect) including property damage or personal injury, consequential loss, economic loss or loss of profits, arising in contract or negligence or howsoever arising. Without limiting the foregoing, James Hardie will not be liable for any claims, damages or defects arising from or in any way attributable to poor workmanship, poor design or detailing, settlement or structural movement and/or movement of materials to which the Product is attached, incorrect design of the structure, acts of God including but not limited to earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions, efflorescence or performance of paint/coatings applied to the Product, normal wear and tear, growth of mould, mildew, fungi, bacteria, or any organism on any Product surface or Product (whether on the exposed or unexposed surfaces);
- (h) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product, all warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent allowed by law;
- (i) If meeting a claim under this warranty involves re-coating of Product, there may be slight colour differences between the original and replacement Product due to the effects of weathering and variations in materials over time and James Hardie is not liable for any such colour differences;
- (j) In the circumstances where the Australian Consumer Law does not apply in respect of the purchase of the Product and therefore to this warranty, all expenses incurred as a result of claiming under this warranty are to be borne by the claimant.
- (k) In the circumstances where the Australian Consumer Law does apply in respect of the purchase of the Product and therefore to this warranty, if James Hardie accepts or it is determined by James Hardie that the claimant has a valid claim under this warranty, James Hardie will bear the claimant's reasonable costs of claiming under this warranty. The claimant is responsible for all other costs of claiming under this warranty. All claims for such costs are to be notified to James Hardie at the address outlined below within 21 days from when the claimant

first makes a claim under this warranty.

DISCLAIMER

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

IMPORTANT NOTE

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

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

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

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Ask James Hardie™
Call 13 11 03
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