



weathertex

INSTALLATION MANUAL

RUBIX PANELS



EXTERNAL CLADDING 2022

A better choice, naturally

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ALL OTHER WEATHERTEX PRODUCTS

To view and read all other Weathertex product installation manuals visit weathertex.com.au

Introduction



MADE IN AUSTRALIA

Family owned and manufactured in the Hunter region, NSW since 1939.



SAFE

Low VOC. Meets Australian Building Standards. 100% natural product. No silica, glues, resins or formaldehydes.



TRUSTED

Weathertex voted #1 MOST TRUSTED brand in the building industry by Architecture & Design latest survey. Won SUPPLIER OF THE YEAR in the Australian Construction Awards.



STYLISH CHOICES

A wide selection of profiles available in various styles and sizes. Easy to incorporate the natural with primed ranges together to offer multiple design options.



SUSTAINABLE

Better than zero carbon footprint with Third Party Credentials - GreenTag certification, PhD, PEFC. Low embodied energy.



VALUE FOR MONEY

No special tools required for cutting. Rubix requires no joining accessories. Lightweight product - reduces labour costs.



DURABLE

Termite Resistant. Warranty tried and tested not to rot, split or crack for 10 years. 1000 kg/m3 product density with a minimum 32MPa rating.



QUICK & EASY INSTALLATION

9.5mm thickness and matching accessories across all products making it easier to mix multiple profiles within a project. Easier to paint than other materials on the market due to its smoother surface.

Accreditations



PRIMED RANGE
IS GOLD GREENTAG
CERTIFIED.



1.1 Product Information

1.1.1 DIMENSIONS AND PACKAGING

ARCHITECTURAL PANELS		LENGTH (mm)	WIDTH (mm)	UNITS PER PACK	CONTENTS m ²
Rubix Panels	4 x 4	1200	1200	48	69.1
	4 x 3	1200	900	48	51.8

1.2 Fire Rated Wall Systems

Weathertex has been assessed by an Accredited Testing Laboratory, that the attachment of Weathertex 9.5mm cladding systems detailed in Table 1.2.1 over plasterboard timber and steel plasterboard lined walls that has been either tested or assessed to achieve an FRL up to and including 90/90/90, would not detrimentally affect the FRL of the underlying wall system if testing in accordance with AS 1530.4:2014.

1.2.1 TABLE - ALLOWABLE FIXING OPTIONS OVER PLASTERBOARD FRL SYSTEMS

CLADDING SYSTEM	UNDERLYING PLASTERBOARD SYSTEM	
	TIMBER FRAMING	STEEL FRAMING
Direct fix	✓	✗
9.5mm Weathertex cavity system	✓	✗
20mm Pine batten cavity system	✓	✓
35mm Pine batten cavity system	✓	✓
45mm Pine batten cavity system	✓	✓
Steel top hat (min 0.55 BMT G550)	✓	✓

These fire rated wall systems are detailed by the relevant system manufacturer such as USG Boral. Advice of the system manufacturer should be sought on the appropriate system for your project.

All walls must be designed for the applied loads. For load-bearing walls and walls subject to wind pressures, walls shall be designed to the appropriate Australian Standards or construction manuals. Designers should consider Axial Capacity Reduction (ACR) from charring or loss of steel strength due to heat. Guidance on structural design can be sought from the relevant FRL system manufacturer.

Standard installation requirements in this installation guide apply to the installation of the Weathertex external cladding component. Fastener lengths must be increased by the thickness of all packing materials used between the structural frame and Weathertex.

USG BORAL Systems+ OUTRWALL.



EXAMPLE FRL SYSTEM DESCRIPTION (60/60/60 Outside only)

EXTERNAL WALL SIDE

- Weathertex 9.5mm Cladding
- Vapour permeable membrane
- 1 layer 16mm FIRE WETSTOP

CAVITY INFILL:

- R2.5 GW Wall Batts

INTERNAL WALL SIDE

- 1 layer of 10mm STANDARD Plasterboard

1.3 Physical Properties

WEATHERTEX WEATHERBOARDS AND ARCHITECTURAL PANELS.

Weathertex weatherboards and architectural panels have been comprehensively tested to Australian and International Standards for verification of compliance to the Building Code of Australia.

MATERIAL DURABILITY PROPERTIES

The Product Specification Standard for Weathertex is AS/NZS1859.4 - Wet Processed Fibreboard for Exterior Conditions (HB.E).

PROPERTY	STANDARD	RESULT	REQUIREMENT
Dimensions	AS NZS 4266.1	PASS	±2mm/m
Density	AS NZS 4266.1	1000 kg/m ³	> 750 kg/m ³
Bending Strength	AS NZS 4266.1	32 MPa	> 20 MPa
Modulus of Elasticity	AS NZS 4266.1	4500 MPa	> 2900 MPa
Equilibrium Moisture Content	AS NZS 4266.1	7.5%	7.5% ± 1% @ Factory gate
Dimensional Stability – Hygro-Expansivity	AS/NZS 4266.1	0.16% change in face dimensions over the range of 35%-80% relative humidity	N/A
Moisture Resistance	AS NZS 4266.1 - 24 Hour submersion	< 2% Swell	8% Max.
		< 6% Absorption	12.5% Max.

THERMAL AND ACOUSTIC PROPERTIES

PROPERTY	9.5MM COMPONENT VALUE	WEATHERTEX SYSTEM
Thermal Conductivity	0.22 W/mK	Where thermal and acoustically rated walls are required: Weathertex can be used as part of wall systems to meet your specific performance requirements.
Thermal Resistance	0.04 m ² K/W	
Acoustic Properties (Rw)	System Dependant	

FIRE PROPERTIES

PROPERTY	STANDARD	RESULT	REQUIREMENT
Bushfire Attack Level (BAL)	AS 3959	Up to and including BAL 19	BCA: Vol. 1 - G5.2 BCA: Vol. 2 - 3.10.5
Average Specific Extinction Area	AS/NZS 3837	38.7 m ² /kg	BCA: Vol. 1 - C1.10
Material Group Number	AS/NZS 5637.1	Group 3	BCA: Vol. 1 - C1.10 BCA: Vol. 1 - Spec C1.10 - 4
Early Fire Hazard Indices	AS 1530.3	Ignitability : 12 Spread of Flame: 5 Heat Evolved : 4 Smoke Developed: 2	BCA: Vol. 1 - C1.10
Fire Resistance Level (FRL)	AS1530.4	Systems up to 120/120/120 available	BCA: Vol. 1 - Spec C1.1
Combustibility	BCA: Vol 1 - C1.1	Type C Compliant*	BCA: Vol 1 - C1.1

* A class 2,3 or 9c building with a rise in storeys of 2 may be of type C construction if requirements of C1.5 are satisfied.

MISCELLANEOUS PROPERTIES

Formaldehyde Classification	AS/NZS 4266.16 Test Method: <0.07 mg/L – Emission Class Super EO
Weathertex contains no silica, resins, binders or added formaldehydes and the results above confirm the amount naturally present in hardwood timber is negligible and well below the acceptance level of 1.0mg/L (E1).	

1.4 NCC Compliance

Evidence of Suitability supporting the use of Weathertex to meet relevant Performance Requirements and Deemed-to-Satisfy requirements are available. Please contact the Weathertex technical team (ph:1800 040 080) for relevant compliance documentation or visit our website - weathertex.com.au.



Image: Rubix Smooth

1.5 General Requirements

The following installation instructions and guides are in addition to local and state regulations and the requirements of the National Construction Code (NCC). Weathertex provides construction detail drawings which should be used in conjunction with the instructions in this installation manual.

NOTE: All diagrams in this installation manual are for demonstration purposes only. Diagrams may omit some components for clarity.

Deviation from standard applications and requirements detailed in this Installation Manual or supplementary Weathertex Construction Details may void the manufacturer's product warranty. The product specific installation instructions in this manual are applicable to steel and timber frames for both direct fix and cavity systems. Preparation steps must be followed for direct fix to timber frame, ventilated cavity construction and steel frame construction.

1.5.1 STORAGE AND HANDLING

Weathertex products should be stored flat, under cover and on timber bearers spaced at maximum 600mm centres. When storing Weathertex outside, keep the stack clear of the ground and cover with waterproof materials to prevent water staining.

NOTE: Weathertex factory stretch wrap is not designed to keep stored product weatherproof and should not be relied upon for primary weather protection.

Anodised aluminium products should be stored in a dry and flat position away from any potentially corrosive or incompatible materials. Timber or soft bearers at a distance no more than one metre apart should be used to support the product. Continuous exposure to moisture will promote corrosion. Metal edges and cut corners of the product can be sharp and may cause personal injury if not handled safely. Wear eye protection, gloves and protect skin when possible and when cutting avoid air borne metal fragments.

1.5.2 CUTTING AND WORKING WITH WEATHERTEX

Weathertex products are easy to cut and shape with a normal hand or power saw. Weathertex may be stacked two or three high for multiple cutting. Where required, edges may be trimmed with a smoothing plane or sandpaper. Holes are easily drilled with high speed drills or clean cutter bits. For best results break cut edges with a 2mm chamfer. Clean all dust from flashing as work progressed, as it may mix with water and create a brown runoff. Cut edges, holes and countersinks must be re-primed with a high quality tannin blocking exterior timber primer (water or solvent based).

The normal health and safety precautions should be taken when working with wood panel products. Machining equipment should be fitted with dust collection devices and used in well ventilated areas. Follow good hygienic and housekeeping practices. Wood dust can be vacuumed, shovelled or swept to avoid accumulation. If dust levels exceed Safe Work Australia Standards the wearing of a dust mask (AS 1715 and AS 1716) and safety glasses (AS 1337) is recommended. Storage and work areas should be adequately ventilated.

A Safety Data Sheet is available for download on the Weathertex website: weathertex.com.au

1.5.3 SITE, FOUNDATION AND FRAMING

Foundation design must comply with AS 2870 "Residential Slabs and Footings - Construction" and the National Construction Code (NCC). Timber or steel frames shall comply with the NCC. Where applicable, timber frames shall be constructed in accordance with Australian Standard 1684 - Residential Timber - Framed Construction. Steel frames must be erected in accordance with the manufacturer's requirements. Frames shall be straight and true with studs at a maximum of 600mm centres. Timber shall be seasoned, as unseasoned timber is prone to shrinkage and can cause sheets and frames to move.

1.5.4 GROUND CLEARANCES

Lower framing timbers must be isolated from ground moisture by suitable damp-proof courses (DPC) or termite shielding. Similarly, architectural panels must not be placed in direct contact with masonry, brickwork or concrete. Where necessary, use strips of Alcor to isolate the materials. The bottom edge of Architectural Panels must be kept clear of paved surfaces by a minimum of 100mm and a minimum of 225mm for unprotected ground (i.e. grass, gardens etc). Architectural panels must extend a minimum of 50mm below the bearer or lowest horizontal part of the of suspended floor framing for a suspended floor system. The grade of adjacent finished ground must slope away from the building to avoid the possibility of water accumulation. Typically this is a minimum slope of 50mm over the first metre, however please refer to the minimum slope required from local building codes and regulations. Weathertex must not be installed in wet areas and where it comes in contact with standing water.

NOTE: To comply with termite protection provisions a greater clearance may be required. See 'Weathertex and Termite protection' in section 1.5.10.

1.5 General Requirements

1.5.5 MOISTURE MANAGEMENT AND FLASHING

Weathertex architectural panels are intended for use as internal and external cladding in standard stud wall systems. It is the responsibility of the Designer or Specifier to identify moisture related risks associated with any particular building design. Wall construction and design must effectively manage moisture, considering both the interior and exterior environments of the building, particularly in buildings that have a high risk of wind driven rain or are artificially heated or cooled. Adequate design of ventilation, flashings and moisture management systems must ensure that the wall cavity and the back of the Weathertex board will remain dry at all times.

In addition, all wall openings, penetrations, junctions, vertical and horizontal joins, connections, window heads, sills and jambs or other components, must incorporate appropriate NCC complying flashing for waterproofing to prevent moisture exposure on the back of the Weathertex. Flashing materials and methods must comply with the requirements of Weathertex, and where flashing materials are not specified by Weathertex refer to the Australian Standards &/or NCC. Failure to appropriately flash all penetrations will void the Weathertex Manufacturer's Warranty.

On walls projecting from the roof line in upper storey construction, keep the bottom edge of Weathertex cladding 70mm clear of the lower storey roof claddings. Weatherproof with an approved flashing. For product specific details please refer to the relevant construction details on weathertex.com.au.

1.5.6 WALL SARKING REQUIREMENTS

Vapour permeable membrane must be used under all Weathertex external wall systems. The vapour permeable membrane allows for the controlled escape of vapour from within the building whilst restricting the ingress of liquid moisture.

Weathertex recommends the use of Vapour permeable membrane in conjunction with the Weathertex Cavity Installation System to provide the best protection against condensation problems such as mould, timber rot, corrosion and loss of thermal resistance. Resources such as the ABCB Condensation Handbook and NATSPEC offer general information on condensation principles.

NOTE: Soft compressible products such as insulation installed directly between the front of the wall studs and Weathertex cladding is not compatible with Weathertex products and will void the product warranty.

SARKING REQUIREMENTS FOR CLIMATE ZONES 2 - 8	
Material Standard	AS/NZS 4200.1
Installation Standard	AS 4200.2
MANDATORY PROPERTIES	
Vapour Resistance	Class 4
Water Barrier	Passing AS/NZS 4201.4
Flammability index	NOT MORE THAN 5

*sarking products are unsuitable if classed as a "Non-water Barrier" as per AS/NZS 4200.1 clause 5.3.5. and will void the Weathertex product warranty.

1.5.8 RECOMMENDED VAPOUR PERMEABLE MEMBRANE PRODUCTS

The permeability and vapour resistance of materials should be considered in the context of their application. The designers/architects/engineer should consider strategies to mitigate condensation risks in the design with relevance to local climate conditions. Suitable membrane products for moisture control in hot wet and humid conditions (Climate Zone 1) should be discussed with the membrane manufacturer.

Recommended accessories required for AS 4200.2 installation are Waterproofing tapes such as Bradford Enviroseal™ HighTack Adhesive Tape & Pro clima TESCON EXTORA® or equivalent, and Sill tapes such as Enviroseal™ Proctorwrap SLS Flexi Tape & Pro clima TESCON EXTONSEAL® or equivalent.

		Product: Enviroseal Proctor Residential (RW) OR Commercial (CW)	
		Product: Ametalin VapourTech® Wall Residential & Commercial	
		Product: Thermakraft Watergate Plus	

1.5.9 CONSTRUCTION DETAILS

Please refer to the Weathertex website for the complete suite of construction details for all products and applications weathertex.com.au

1.5.10 WEATHERTEX AND TERMITE PROTECTION

The NCC specified the requirements for termite barriers. All of these requirements must be satisfied. Where the exposed slab edge is used as a part of the termite barrier system, a minimum of 75mm of the exposed slab edge must be visible to permit ready detection of termite entry.

Weathertex currently provides a warranty which protects against a variety of conditions including (but not exclusive of) the product supplied being fit for purpose, and will not rot, split or crack. In addition to this, Weathertex is warranted against termite attack, provided the following conditions are adhered to.

A termite mitigation plan complying with all local, state and federal requirements and best-practice guidelines must be in place and maintained from the time that the Weathertex is delivered to site and for the life of the product. Provided that the plan and its maintenance can be demonstrated, the normal Weathertex warranty at the time of purchase will apply to the Weathertex.



Samples removed
from Termite Test
after 2.5 years
exposure

1.6 Painting: Pre-Primed

1.6.1 PRE-PRIMED PRODUCTS

PRIMER:

WeatherTex factory primer is designed to be painted within 60 days of installation. Failure to do so can result in poor topcoat adhesion and will void warranty. Lightly sand any nibs or blemishes which have occurred during fixing. Cut edges, holes and countersinks must be re-primed with high quality tannin blocking exterior timber primer (water or solvent based). A spray primer is the most efficient method. It is also good practice to prime any timber mouldings, including corner stops and trims.

Trimtec aluminium accessories are protected by an anodised coating and can be left unpainted if desired. Due to their smooth surface, aluminium accessories should be etch primed if a topcoat is to be applied.

SURFACE PREPARATION - CLEANING & WASHING:

Clean surface of primed WeatherTex products using a soft broom or soft lint-free cloth and wash down with sugar soap to remove salt, dirt, dust and grease or airborne contaminants. Do not vigorously scrub the surface nor use an abrasive or strong cleaning agent as you may burnish the paint surface and mark the primer finish. Wash down with fresh water and dry the surface with one final wipe using a soft dry lint-free cloth in the direction of the paint flow. Do not use high pressure washers as this can cause coating damage and water ingress into the wall cavity.

Not allowing the WeatherTex to dry before painting is a common cause of paint failure. Failure to clean the surface may result in poor adhesion with topcoat and may void warranty.

1.6.2 PAINTING PRE-PRIMED PRODUCTS

PAINTING:

The primed surface of WeatherTex products are suitable for the application of exterior grade water or solvent based topcoat paint systems. It is recommended to apply selected coating to a test area to confirm suitability. If compatibility of the selected topcoat is an issue, the surface may be primed with a suitable tannin blocking exterior primer per the coating manufacturer's recommendation before painting. Contact the paint manufacturer for advice or information.

When top coating, apply a minimum of two coats of paint in accordance with the paint manufacturer instructions for mixing, film build, coverage and drying between coats. Temperature and wet weather will affect curing of coatings and consideration of site conditions at the time of painting is essential to ensure proper curing and adhesion. Paint additives may adversely affect the coating adhesion and durability and should only be used with the endorsement of the coating manufacturer.

PAINT COLOUR:

WeatherTex hardboard products have 50 years proven durability in the harshest of climate zones. While there is no restriction on the vast array of colours to paint your home, it is important to understand the effect paint colours can have on the performance of construction products.

As WeatherTex is a timber product, its dimensions will expand and contract with changes in moisture content. Dark paint colours can allow surfaces in warmer climates to become very hot in direct sunlight leading to loss of moisture and subsequent shrinkage of the panel. Selection of light paint colours with high Light Reflectance Values (LRV) will lead to better thermal efficiency of the building, improve the maintenance cycles of paint coatings and sealants while minimising the thermal expansion and contraction of all construction components. With darker paint colours we recommend prepainting the ends of the panel prior to installation of joining/corner accessories.



1.7 Maintenance

1.7.1 PRE-PRIMED PRODUCTS

The extent and nature of maintenance will depend on the geographical location and exposure of the installation. Regularly wash the painted surface with mild soapy water to remove dirt and grime to improve the performance of the coating. Never use high pressure washers as this can cause coating damage and water ingress into the wall cavity.

Thoroughly inspect topcoat paint work at the end of year 1 and repair areas of damage/coating breakdown according to the original paint specification or approved equivalent. Repeat inspection process at year 5 and based on the results of this condition survey make a decision on future maintenance actions, which may include touch up/repair of areas or a full re-coat.

Additional basic maintenance tasks include but are not limited to; controlling vegetation and garden beds close to the installation, keeping gutters and pipes clear, addressing potential moisture damage due to overflows and replacement of penetrations, flashings and sealants used in installation as required.

Generally, exterior surface coatings deteriorate by chalking rather than flaking. When repainting becomes necessary and the surface is unbroken, remove loose chalk by lightly sanding and follow the preparation steps above. Reapply new coatings in accordance with the paint manufacturer's instructions.

1.8 Steel Frames

The following information applies to Weathertex installed on 0.55 BMT minimum steel frames. Installing Weathertex onto a steel frame is generally similar to installing Weathertex on a timber frame. There are however some differences of which the installer must be aware and the following section outlines the technical information unique to steel frame installation.

1.8.1 FASTENERS

Appropriate fasteners must be used when installing onto steel frames. See the Fasteners Section and in relevant product section to select the correct fastener. Do not tap home under-driven gun nails as this can break the holding power of the fastener. Incorrectly shot nails should be removed and refastened at least 15mm away from the original fastener position.

1.8.2 INSTALLATION

Since 2007 there has been a Thermal Break provision within the Energy Efficiency requirements of the NCC. The provision is included to prevent thermal bridging across the wall cavity. Thermal bridging is a leakage of heat through a conductive path such as metal framing. Thermal bridging causes a reduction in the overall R-value of the wall system, significantly reduces the efficiency of the building's heating and cooling systems and can lead to condensation problems in the wall cavity.

In accordance with the NCC a rigid thermal break with R-value no less than 0.2 must be installed between the Weathertex external cladding and the metal framing members to separate both elements.

When installing Weathertex on a Steel Frame, thermal break battens create a cavity system. Refer to cavity fix construction details for more guidance. Butt-join the stud battens leaving a 5mm gap. Weathertex recommends the following two options as suitable thermal breaks.

1.8.3 RECOMMENDED THERMAL BREAKS

Softwood timber battens are easily installed to provide a suitable thermal break between Weathertex and a steel frame. The softwood timber battens shall be 20mm deep and wide enough to cover the face of the frame. For example if 70x35mm steel frame is chosen, the battens shall be 20x35mm at suitable length.

A suitable membrane must be installed between the steel frame and battens; see section on Wall Sarking Requirements. The membrane must be held in place temporarily, using suitable fasteners or the timber battens, before the battens and the Weathertex are installed.

Final fixings will hold battens firmly in place but they must be temporarily fixed to the frame at 600mm centres before the cladding can be installed.

Extruded polystyrene strips are an alternative to softwood timber battens for a thermal break solution. The extruded polystyrene strips shall be 12mm deep and wide enough to cover the face of the frame. For example if a 70x35mm steel frame is chosen, the battens shall be 12x35mm at suitable length.

Nails or screws cannot be used to secure expanded polystyrene strips to the frame. Instead, double-sided adhesive tape or construction adhesive is suitable to hold the strips in place on the frame. Final fixings will hold extruded polystyrene strips firmly in place.

1.8.4 CAVITY CLOSER

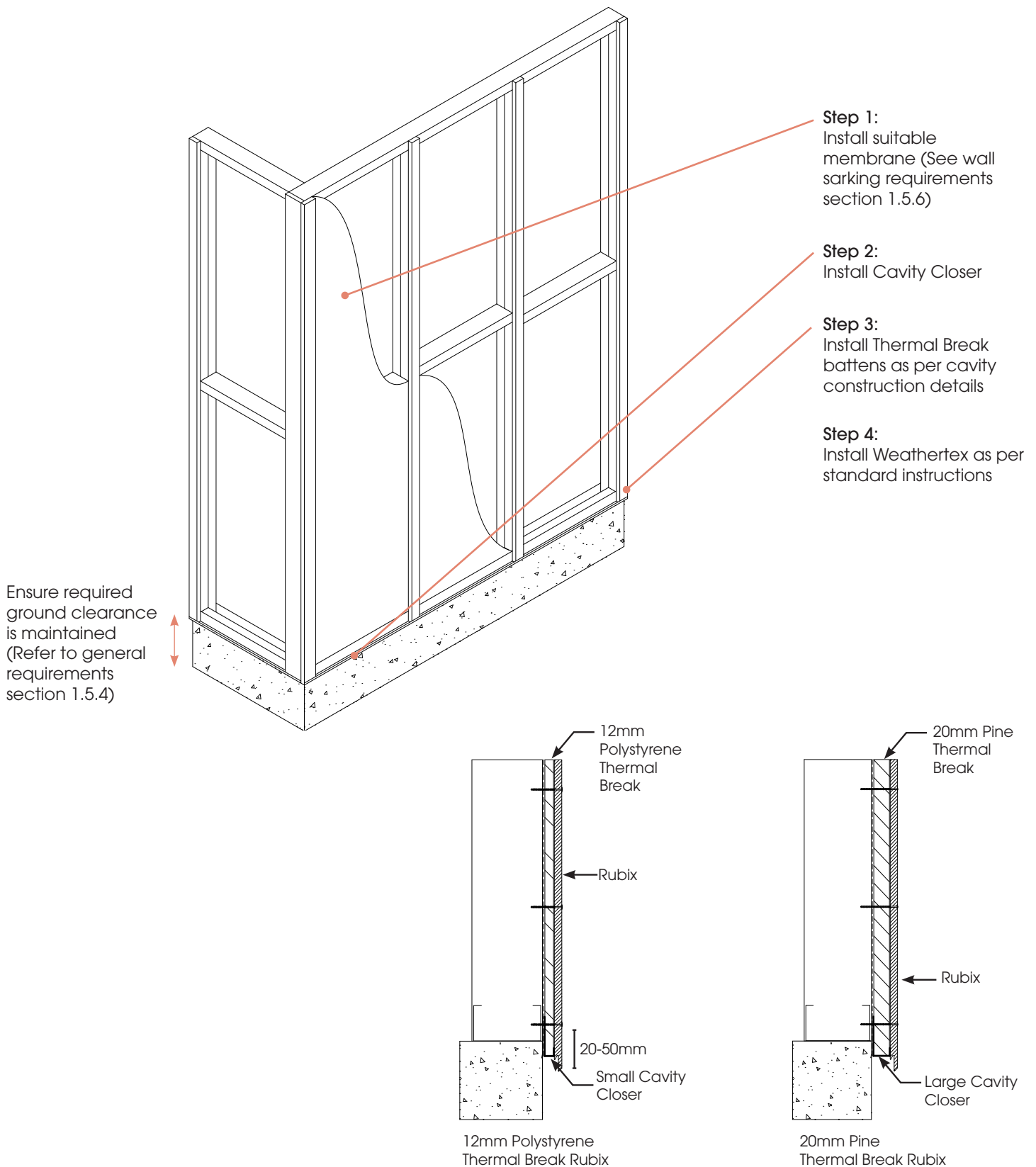
To protect against vermin and other material entering the cavity, the base of the cavity must be sealed using the Weathertex Large or Small Cavity Closer. A cavity closer must be installed at the base of the wall and above window heads and inter-storey flashings. The bottom of each batten is inserted into the cavity closer.

- Use 20mm Large Cavity Closer when using 20mm softwood timber thermal break battens (Applicable for all products).
- Use 10mm Small Cavity Closer when using polystyrene thermal break strips (Applicable for all products).

Fix the cavity closer to the base plate at 300mm centres. Butt-join cavity closers with max 2mm gap as required and ensure the closers are fixed in a straight, level line. It is important that the openings in the cavity closer are kept clear and unobstructed to allow free drainage and ventilation of the cavity.

1.8.5 INSTALLATION

Once the wall has been battened out as per cavity construction details, Weathertex's product specific standard fixing instructions shall be followed to install the cladding on to the frame.



1.9 Cavity System

To provide the best protection for your wall against moisture and mould related problems Weathertex highly recommends the use of a cavity fixing system. Fixing over the Weathertex cavity system provides the best defence for your internal lining, frame, insulation and cladding against sick home syndrome. A cavity system creates a space within the wall that allows airflow to remove any moisture that accumulates in this space either from wind driven rain or condensation.

1.9.1 PREPARATION

Minimum requirements for fasteners must be followed when installing the Weathertex Cavity System. See the Fasteners Section when selecting appropriate fasteners.

A suitable membrane must be installed between the timber frame and battens; see section on Wall Sarking Requirements. The membrane can be secured by the timber battens as they are installed along a wall.

Care should be taken when installing bulk insulation to ensure the stud cavity is not over-filled. Over filling the stud cavity with bulk insulation will impinge in the cavity created by the cavity battens and hence reduce its effectiveness, and may void warranty.

1.9.2 CAVITY BATTENS

Cavity battens provide the separation between the membrane on the wall frame and the cladding. Weathertex provides and recommends the use of Weathertex Cavity Battens which are 1220 x 45 x 9.5mm. Check your local regulations and/or certifiers for recommended batten thickness. If using battens other than Weathertex supplied cavity battens, fastener lengths should be increased to accommodate the batten thickness.

Refer to Weathertex Cavity Fix Construction Details when installing Weathertex cavity battens. Cavity battens must be fastened to framework at a minimum of 600mm centres. Butt-join the stud battens leaving a 5mm gap.

1.9.3 CAVITY CLOSER

To protect against vermin and other material entering the cavity, the base of the cavity must be sealed using the Weathertex Large or Small Cavity Closer. Designed not to interrupt airflow in the cavity, a cavity closer must be installed at the base of the wall, above window heads, inter-storey flashings and at other points where a cavity is created by the design. The bottom of the battens is inserted into the cavity closer.

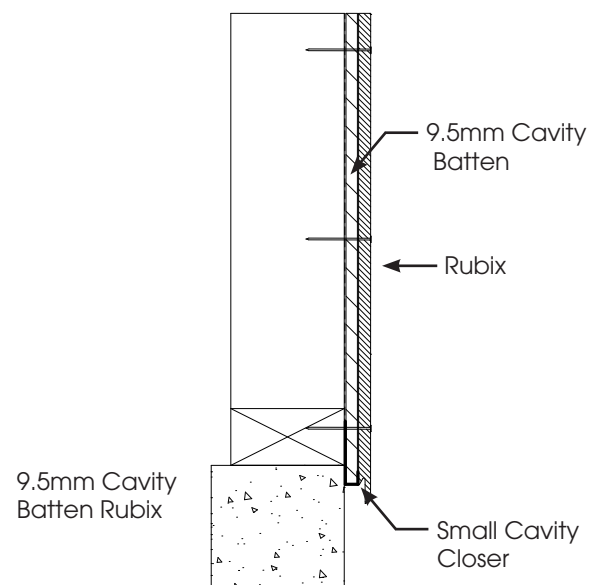
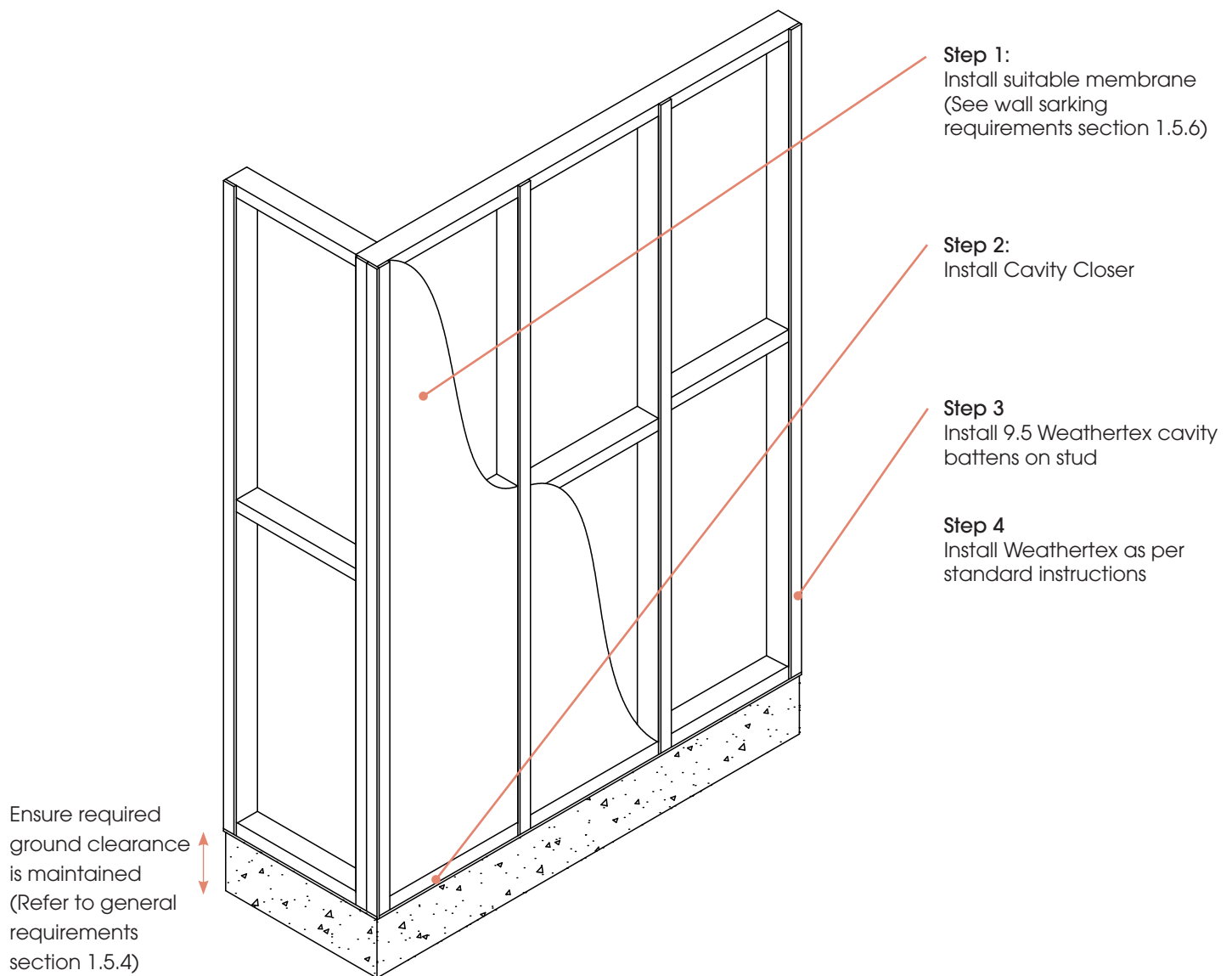
- Use 10mm Small Cavity Closer for Rubix

Fix the cavity closer to the base plate at 300mm centres along the closer with 30 x 2.8mm flat head galvanised nails. Butt-join the cavity closers with a max 2mm gap and ensure they are fixed in a straight, level line. It is important that the openings in the cavity closer are kept clear and unobstructed to allow free drainage and ventilation from the top to the bottom of the cavity.

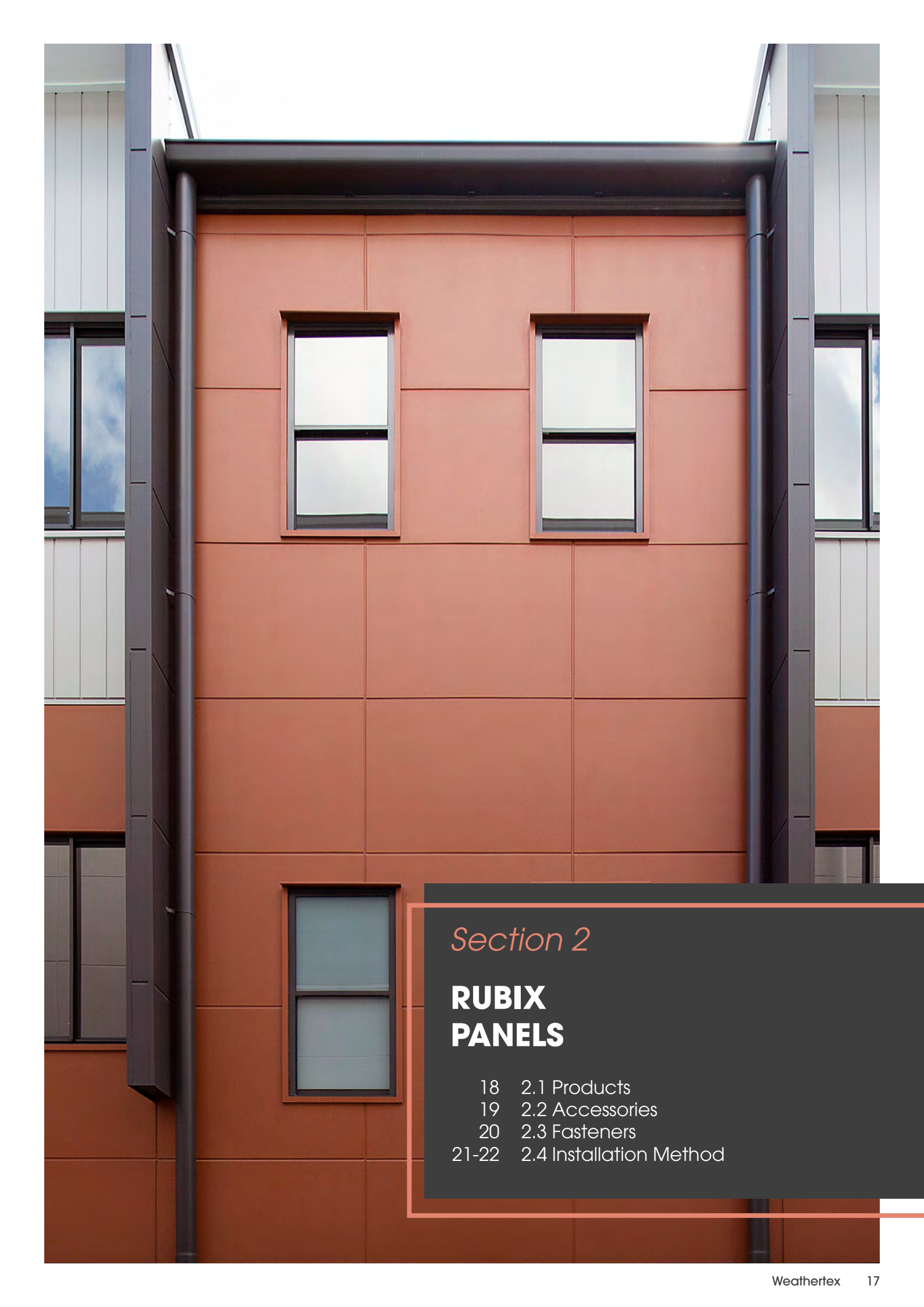
CAVITY
CONSTRUCTION
DETAILS AT

weathertex.com.au

1.9.4 INSTALLATION



NOTES / SKETCHES



Section 2

RUBIX PANELS

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- 21-22 2.4 Installation Method

2.1 RUBIX Panels

2.1.1 RUBIX PANELS BENEFITS

Rubix Panel is a self-locking architectural panel available in square or rectangular panels that provides unprecedented flexibility and ease. No Weathertex joining accessories are needed for installation. This helps to eliminate the puzzle that comes with other express jointed products.

Features & Benefits

- Self locking system
- Rebated edges.
- Lightweight.
- Two sizes.
- Modern clean lines.
- Create unique geometric patterns.

Weathertex can be used as an external wall cladding in bushfire attack levels up to and including BAL 19 construction.

2.1.2 RUBIX PRODUCT RANGE



RUBIX SMOOTH

1200mm x 1200mm

1200mm x 900mm



RESPONSIBLE WOOD
CERTIFIED

This product is from
sustainably managed
forests and controlled
sources.



PEFC
CERTIFIED

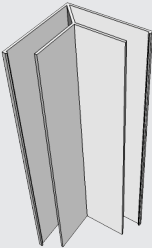
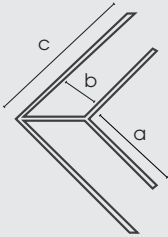
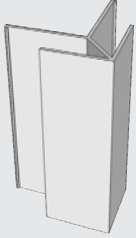
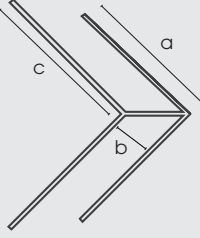
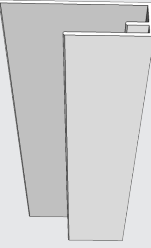
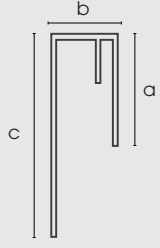
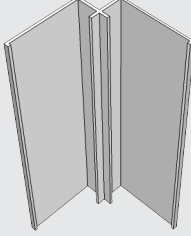
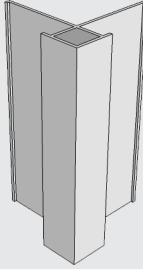
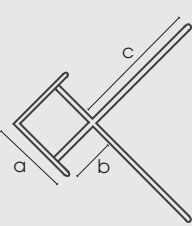
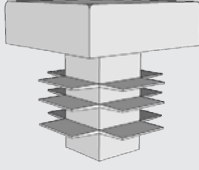
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Forest Management
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2.2 Accessories

2.2.1 TRIMTEC ACCESSORIES

*Made from anodised aluminium

PRODUCT	PRODUCT IMAGE	LINE DRAWING	DIMENSION
SMALL INTERNAL LF CORNER			L = 3660mm a = 27mm b = 11mm c = 55mm
SMALL EXTERNAL LF CORNER			L = 3660mm a = 27mm b = 11mm c = 31mm
SMALL END STOP			L = 3660mm a = 27mm b = 11mm c = 45mm
SMALL INTERNAL CORNER			L = 3660mm a = 4mm b = 11mm c = 35mm
SMALL EXTERNAL CORNER			L = 3660mm a = 17mm b = 11mm c = 35mm
SMALL CORNER PLUG		Use with the Small external corner	

To view Weathertex product codes scan QR code.



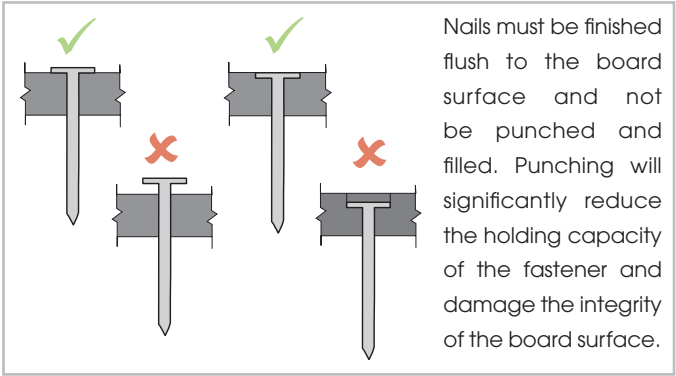
2.3 Fasteners

Refer to the Wind Tables below when selecting a fastener
Installers must assure themselves that the appearance of the selected fastener is suitable for the intended use. Generally, head sizes in excess of 6mm or T and D head shaped nails may not produce a satisfactory finish on face fixed profiles.

2.3.1 RESIDENTIAL WIND TABLE- AS 4055 WIND CLASSIFICATION					
Product	Frame	Fastener	Non-Cyclonic Wind Zones	Maximum fastener spacing at intermediate studs + noggings	Maximum Stud Spacing (mm)
Rubix	MGP10 Timber Minimum	45mm x 2.8 mm flat head nail	N3	300	600

Fastener Notes:

- All fasteners must be galvanised or suitably coated to resist corrosion for external application (Australian Standard AS 3566, Class 3 for screws). When installed in high corrosion zones such as coastal locations, fasteners (nails and screws) must be made of materials appropriate to the desired life of the system and geographical location. Stainless Steel Nails and Class 4 Screws may be necessary in these zones. The advice of the fastener supplier should be sought.
- Wind classification results have been conducted allowing for maximum packing distances. The fastener length must be increased to accommodate for the thickness of larger battens and/or additional packing materials to ensure the same penetration into the structural subframe.



2.4 INSTALL: Rubix

The following product specific installation instructions are applicable for both direct fix (timber frame) and cavity fix (timber frame). Installation instructions in this section are to be used in conjunction with information and requirements given in previous sections and all national and state building codes.

Stud spacing to be selected by the building designer using the wind tables based on the wind classification to a maximum of 600mm.

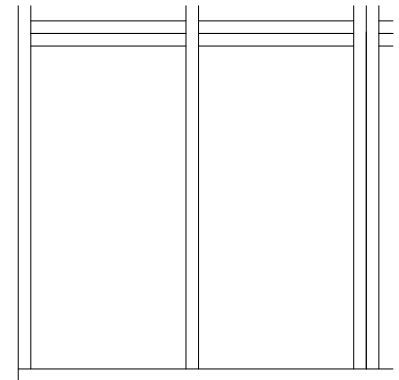
2.4.1 FRAME PREPARATION

The stud frame must be arranged so that all edges of the Rubix Panel are supported on double studs and double noggings (or rotated 90mm nogging).

Check and straighten sub-structures as required.

Plan sheet layout with one of the face rebated edges at the top. All panels must be orientated in the same direction i.e. the second face rebate always on the right or left of the panel. Starting position may be altered or the first panel trimmed to maintain symmetry or to align the groove with a specific feature e.g. windows, other installed cladding etc.

For cavity installation see cavity systems (section 1.9)/steel frames (section 1.8). For direct fix install compatible wall sarking prior to installation, refer to AS 4200.2.



Face Rebated edge



Back Rebated edge

2.4.2 BASE OF THE WALL

Establish a horizontal datum or base line at least 20mm below the base of the frame.

Install Alcor flashing for separation between Weathertex and masonry.

Install corners to the frame (note: Sarking must be installed first).

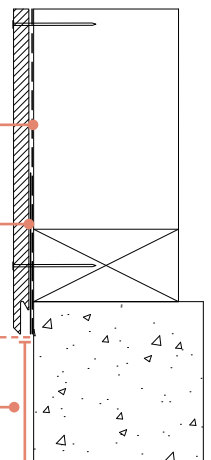
When 2 rows of Rubix meet at the corner or junction with another product, a small gap may be created at the edge of the Rubix panels where the top and bottom boards overlap. This should be filled using a suitable, high grade, flexible, paintable acrylic sealant as required. Alternatively, this gap can be prevented by trimming 30mm from the edge of the sheets which will meet the corner or junction prior to installation, or installing a small section of the alternate Rubix edge before installing the first panels.

Suitable membrane
(Refer to wall sarking
requirements section
1.5.6)

Alcor flashing for
separation from
masonry

Datum

Ground clearance
(Refer to general
requirements section
1.5.4)



2.4.3 JOINING

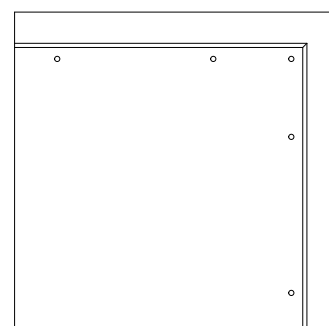
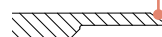
Rubix panels do not require any joining accessories only the use of a suitable, good quality, exterior grade, flexible sealant.

2.4.3.1 VERTICAL JOINING

Prepare the panel by installing a part panel if required. Position the first panel into the corner in line with the datum set previously and fix into place. Run a 100mm bead (5-7mm) of suitable sealant down the back of the face rebate edge. Bring the next panel into place and ensure the self locking edges of the 2 panels fully engage. Secure the panel as per the fastening instructions and repeat sealant as above for all vertical joins.

NOTE: the last panel may be a part panel if required.

Run suitable
sealant along
this edge



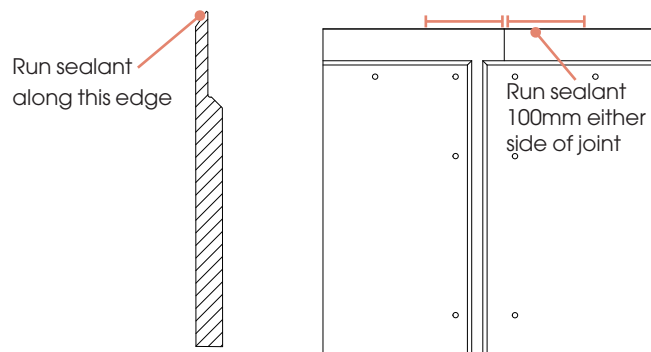
100mm bead
(6-7mm)
of suitable
sealant

2.4 INSTALL: Rubix

2.4.3.2 HORIZONTAL JOINING

Starting from the same side of the row as the previous row run a 100mm bead (5-7mm) of sealant both sides of the installed panels join. This row sealant is essential to the installation of and must be maintained throughout the life of the product to prevent water ingress.

Starting at the corner position the panel on top of the previous row ensuring the self locking edge fully engages. The bottom edge of the panel should overlap the top edge of the previously installed panel. Fix panel as per fastening instructions. Repeat for all horizontal joins.



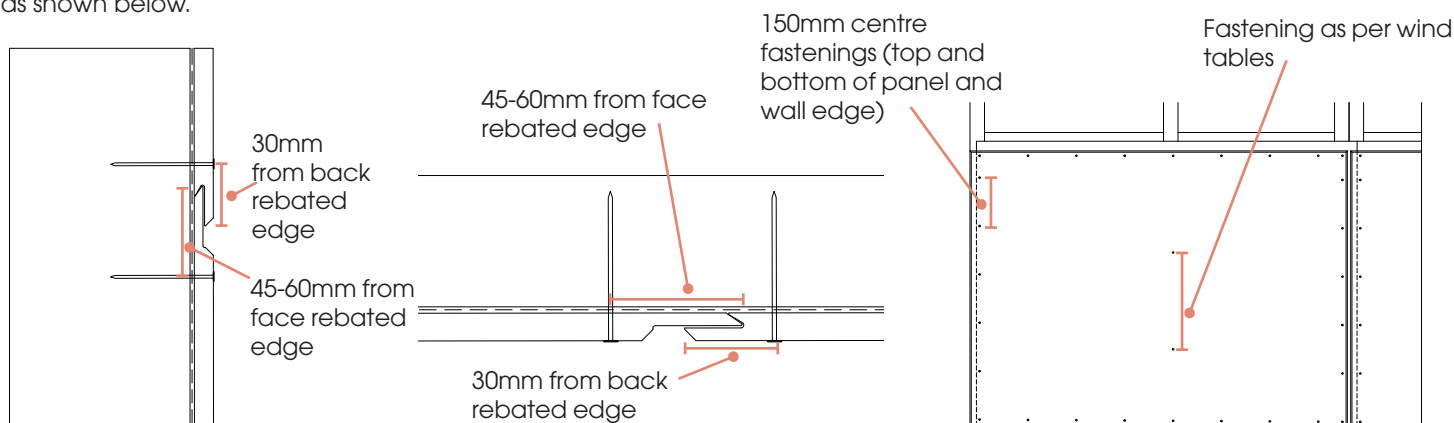
2.4.4 INSTALLATION AROUND WINDOWS, DOORS & OTHER PENETRATIONS.

Please refer to construction details found on the Weathertex website for all window, doors and penetrations.

2.4.5.1 FASTENING: EXTERNAL INSTALLATION

Panels must be fastened at 150mm centres across the top and bottom of the panel and at studs along both vertical edges. All intermediate studs and noggings must be fastened in accordance with the appropriate fixing pattern and fastener installation requirements in section 2.3.

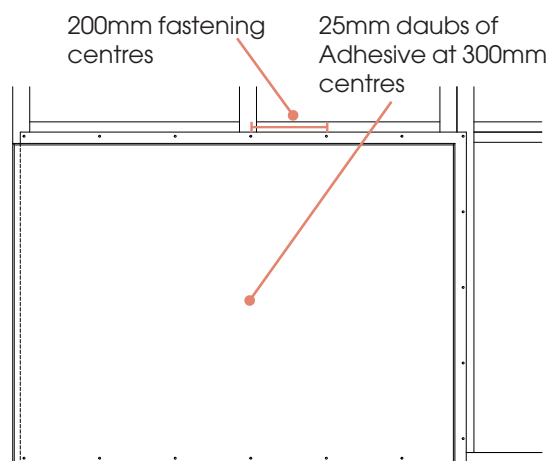
Fixings must be a minimum of 45-60mm away from the face rebated edge and minimum 30mm from the back rebated edge as shown below.



2.4.5.2 FASTENING: INTERNAL INSTALLATION

When installing Weathertex Rubix Panel internally, there is the option to conceal the fixings. Fixing must be provided at 200mm centres around the perimeter of the sheet through the self-locking tongue of the panel. The first row of panels must also be fixed at 200mm centres across the base plate. Using this method, the horizontal and vertical joins must fall on studs and noggings, respectively. The fixings will then be concealed by the corresponding Self-locking section of the adjoining panels. Apply 25mm daubs of adhesive at 300mm centres.

NOTE: The Primelok Starter Strip accessory with a bead of adhesive may be used in lieu of the face fixings on the first row of sheets at the base plate if the application does not utilise a skirting board to conceal these fasteners.



2.4.6 PAINT PREPARATION

Prior to painting prime face rebates with high quality tannin blocking exterior primer (water and solvent based).

MANUFACTURER'S WARRANTY

1. Weatherex Pty Ltd A.B.N 67 084 713 986 ("Weatherex") warrants that the Products supplied are of first quality, free from material defect in materials, design and workmanship, and in conformity with the technical specifications detailed in the published Weatherex Installation Guide that is current at the date of purchase. This statutory warranty applies for a period of 12 months from the date of purchase in addition to the following clauses.

2. Natural Board - Weatherex warrants that its Natural (Brown) Board Products will not rot, split or crack for a period of 10 (ten) years from the date of purchase when installed and maintained in accordance with Weatherex's current published materials.

Pre Primed Classic Shingles Plus, EcoWall and Rubix Panel - Weatherex warrants that its EcoWall Products will not rot, split or crack for a period of 10 (ten) years from the date of purchase when installed and maintained in accordance with Weatherex's current published materials.

Pre Primed Board - Weatherex warrants that its pre primed board Products will not rot, split or crack for a period of 25 (twenty-five) years from the date of purchase when prepared, installed and maintained in accordance with Weatherex's current published materials.

3. A reference to Products in these warranty terms and conditions does not include accessory products listed "Accessories" in the Weatherex Price List ("Accessory Products"). Weatherex warrants that the Accessory Products will be free from defect in material and workmanship for a period of 7 years from the date of purchase. For the purposes of clarity, the warranties provided in clause 1 and 2 do not apply to Accessory Products.
4. The benefits to the purchaser given by the warranties set out in clauses 1 to 3 are in addition to other rights and remedies of the purchaser under Australian Consumer Law in relation to the Weatherex products and accessories.

CONDITIONS OF THE WARRANTY

5. The warranties provided in clauses 1, 2 and 3 are only available to the original purchaser ("Purchaser") who provides Weatherex with proof of purchase and who makes the claim in writing within 30 days from the point in time when the defect becomes apparent or should have become apparent.
6. Weatherex will not be liable for any warranty claims made under clauses 1 and 2 if any of the following apply:

(a) the Products are not installed used or maintained in accordance with applicable instructions and/or specifications, including installation and site conditions provided by Weatherex (including the published Weatherex Installation Guide that is current at the date of purchase);

(b) the building in which the Products are installed does not comply with all relevant Building Codes and Regulations, Standards, and Council/Authority/Regulator requirements;

(c) the Purchaser has not complied with any service instructions which Weatherex may give or any subsequent request as to a modification of the Products which Weatherex may make from time to time in writing;

(d) the defect is caused by the use of materials, parts or accessory products that are not supplied, recommended, or approved by Weatherex;

(e) the Products are not maintained, prepared or installed by authorised installation contractors in circumstances where Weatherex has directed the Purchaser to ensure that the Products are maintained, prepared or installed by such authorised installation contractors; or

(f) the repair, rectification or replacement of the Products is required as a result of normal wear and tear or necessitated in whole or in part by the fault or negligence of any person other than Weatherex.

7. Further to clause 6 and without limiting clause 6, Weatherex under no circumstances will be liable for any claims, damages, or defects arising from or in any way attributable to:

(a) acts of God, fire, flood or other severe weather conditions or unusual climatic conditions;

(b) performance of paint/coatings applied to the Products;

(c) development of any algae, bacteria or fungi on the Products (whether on the exposed or unexposed surfaces);

(d) poor workmanship; or

(e) any other 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.

8. The Product is subject to natural variation in finish and presentation as a result of the manufacturing process. The purchaser / builder / installer must ensure the Product meets aesthetic expectations prior to installation. Subject to the terms and conditions of this warranty, after installation of the Product, Weatherex is not liable for claims arising from aesthetic surface variations if such variations were, or would upon reasonable inspection have been apparent prior to the installation.

REMEDIES

9. Should the Purchaser's warranty claim made under clauses 1 and/or 2

be valid within the relevant warranty period, then the remedy provided by Weatherex will be limited to either of the following (where possible) as chosen by Weatherex:

(a) Weatherex replacing the Products provided the claim is accepted by Weatherex and subject to such replacement Products being available in the manufacturing inventory at the time the claim is accepted by Weatherex. Otherwise, Weatherex will provide such replacement Products when they become available.

(b) Weatherex repairing the Products provided the claim is accepted by Weatherex.

10. Should the Purchaser's warranty claim made under clause 3 be valid, then the remedy provided by Weatherex will be limited to Weatherex replacing the Accessory Products provided the claim is accepted by Weatherex and subject to such replacement Accessory Products being available in the manufacturing inventory at the time the claim is accepted by Weatherex. Otherwise, Weatherex will provide such replacement Accessory Products when they become available.
11. The Purchaser is not entitled to any other remedies (that is apart from the remedies detailed in clauses 8 and 9) with respect to a warranty claim under clauses 1, 2 or 3.
12. This warranty cannot be relied upon by any other person and is not transferable.
13. Any replacement works will be conducted in accordance with the Building Codes and Regulations, Standards, and Council/Authority/Regulator requirements applicable at the time of construction. Where the Building Codes and Regulations, Standards, and Council/Authority/Regulator requirements have changed after the Products were purchased, Weatherex will not be responsible for any costs associated with ensuring that the replacement works comply with the updated Building Codes and Regulations, Standards, and Council/Authority/Regulator requirements.
14. Where an approved claim requires re-coating of the Products the Purchaser acknowledges and agrees to accept minor colour variations between the existing or original colour and the re-coated replacement Products or rectification areas.
15. Except as provided for in these terms and to the fullest extent permitted by law, all terms, statements, warranties and conditions whether express, implied, statutory or otherwise, relating to the Products, the Accessory Products, the subject matter of these terms or to these terms generally are excluded. Nothing contained herein excludes or modifies any rights the Purchaser may have under the Australian Competition and Consumer Act 2010 (or equivalent in other countries as determined by Weatherex in its sole discretion).

DISCLAIMER

16. Recommendations made by Weatherex are based on good building practice and are not a complete statement of all relevant data. As the installation of the Products is influenced by and relies on factors outside the control of Weatherex, Weatherex assumes no responsibility for works/systems used in connection with the installation of the Products and their suitability to satisfy relevant Building Codes and Regulations, Standards, and Council/Authority/Regulator requirements.
17. Unless specifically stated otherwise, the warranties under clauses 1, 2 and 3 apply only to Weatherex products purchased and installed according to the Weatherex Installation Guide in Australia, New Zealand and the Weatherex International Installation Guide.

AUSTRALIAN CONSUMER LAW

18. 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.

MAKING WARRANTY CLAIMS

19. The claimant (being the Purchaser) must make all warranty claims in writing. The claimant must be the original purchaser of the Weatherex product and must retain the purchase receipt (in relation to the purchase of the product) as proof of purchase. Proof of purchase must be provided to Weatherex as part of the warranty claim.

Warranty claims (and claims for reasonable costs and expenses in making the claim as referred to in clause 18) can be addressed to Weatherex by post, fax or via e-mail as follows:

The Manager
Weatherex Pty Ltd
PO Box 21
Raymond Terrace NSW 2324
Phone 1800 040 080
Fax 1800 647 926
E-mail sales@weatherex.com.au

20. Weatherex will respond to all warranty claims. This response may include an inspection by a Weatherex representative of the installed Product. The claimant will bear all costs and expenses of making the claim. However reasonable costs and expenses will be reimbursed to the claimant in the event that the claim is accepted by Weatherex.

As of 14th August 2020.



Weathertex® is made in Australia by
Weathertex Pty Ltd ABN 67 084 713 986

PO Box 21, Raymond Terrace NSW 2324

CONTACT WEATHERTEX FOR INFORMATION OR ADVICE

1800 040 080 | weathertex.com.au

When specifying or installing Weathertex products, please make certain that you have the most current installation manual and technical information. To view the latest installation manual, scan the QR Code or visit weathertex.com.au

UPDATED 6TH MAY 2022

VERSION RC060522

