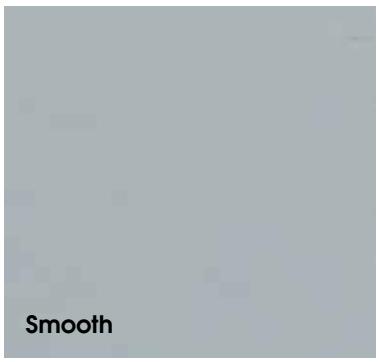
weathertex

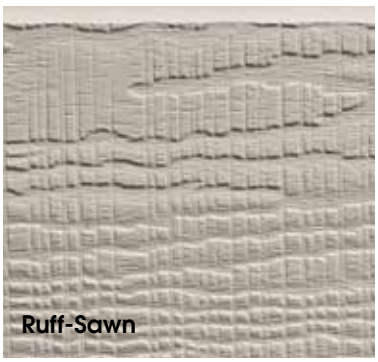
timber made perfect, naturally

Cladding | Panels | Weatherboard

EcoWall Smooth, Weathergroove 150 Natural, Primelok Smooth



Smooth



Ruff-Sawn

Woodsman

Natural

VOTED No.1
MOST TRUSTED BRAND
ARCHITECTURE DESIGN TRUSTED BRANDS WINNER No.1 BRAND 2016

Installation Manual

Contents

3	Introduction
4	**PRODUCT RANGES**
	Weatherboards
4	Classic
4	Selflok
5	Primelok
	Architectural Panels
5	Weathergroove
6	EcoWall
6	Rubix
	Natural Cladding
6	Natural Cladding
6	Wall Shingles
7	**ACCESSORIES RANGE**
7 - 8	Weathertex accessories
9 - 10	Trimtec accessories
11	**PRODUCT INFORMATION**
11	Dimensions and Packaging
11	Weatherboard wall coverage table
12	Fire Rated Wall Systems (FRL)
13	Certificate of Physical Properties
14 - 15	NCC Compliance Summary - Class 1 - 10
16 - 17	NCC Compliance Summary - Class 2 - 9
18	**GENERAL REQUIREMENTS - All Products**
18	Storage and handling
18	Cutting and working with Weathertex
18	Site, foundation and framing
18	The base of the wall
18	Moisture management and flashing
19	Wall sarking requirements
19	Weathertex and termites
20 - 21	Painting and maintenance
22	Fasteners Table
23	High Wind Areas Table
24 - 25	Weathertex on Steel frames
26 - 27	Cavity Wall Systems
28 - 29	Joining Details - All Weatherboards
30	**INSTALLATION METHODS**
30	Classic
31	Primelok
32	Selflok
33	Natural
33	Wall Shingles
34	Weathergroove
35	Weathergroove Natural
36	EcoWall
37 - 38	Rubix
39	**WARRANTY**

Introduction

100% Australian made and owned, Weathertex® Weatherboards and Architectural Panels are manufactured from native Australian hardwood timber. Weathertex sources timber from sustainably managed forests and controlled sources audited under the Australian Forestry Standard (AFS) and Certified by PEFC: the world's largest forest certification scheme.

The unique manufacturing process at the Weathertex Factory facilitates the production of highly durable, reconstituted exterior-grade cladding without the need for the hazardous chemical additives, crystalline silica, resins, binding agents or formaldehydes which are present in alternate light weight cladding products on the market. Not only does this allow offcuts and waste to be recycled as mulch or fuel, but is safe and easy for builders to cut and work without the need for specialty tools.

Underpinned by our 25 year guarantee not to rot, split or crack; Weathertex proudly delivers natural, long-lasting timber products to customers in Australia and around the world. With a better than zero carbon footprint, Weathertex strives to provide quality products which enable creative and sustainable design for the future.

Weathertex has been through a rigorous evaluation from Global GreenTag to determine our "green performance" and we are proud to announce we have the FIRST GLOBAL manufactured product to receive a Platinum certification with a GreenRate Level A for our Natural products, and Gold Certification for all our flat primed profiles.

Weathertex is also proud to announce being voted Australia's Number 1 Most Trusted Brand in 2016, in the Architecture and Design annual 'Top Trusted Brand' survey. With over 341 nominated brands and over 13,000 votes, this survey reveals Australia's top brands within the architecture, building, construction and design industries. Weathertex also won Number 1 Most Trusted Brand Winner in the 'External Wall Materials' category.

Whether you are seeking timber cladding for a renovation, extension, new home, or commercial application, Weathertex® Weatherboards and Architectural Panels offer an endless variety of timber cladding solutions and styles.

Timber made perfect, Naturally!

ecospecifier global GREEN TAG CERTIFIED PLUS GreenRate | Level A trust brands™

VOTED No.1 MOST TRUSTED BRAND ARCHITECTURE & DESIGN TRUSTED BRANDS 2016 WINNER No.1 BRAND

TOP TRUSTED ARCHITECTURE & DESIGN 1st BRAND 2016

GUARANTEED 25* YEAR NOT TO SPLIT, CRACK OR ROT

BETTER THAN ZERO CARBON FOOTPRINT

NO CHEMICAL ADDITIVES

AUSTRALIAN 100% MADE & OWNED

TESTED & PROVEN 50 OVER 50 YEARS

AUSTRALIAN HARDWOOD

* Refer to Weathertex Manufacturer's Warranty Conditions

100% PEFC Certified This product is from sustainably managed forests and controlled sources. Recognised in Australia through the Australian Forestry Standard www.pefc.org.au PEFC PEFC/21-31-09

*applicable to specifically marked products in this guide.

Certified System Quality ISO 9001 SAI GLOBAL

PRODUCT RANGES

Weatherboards

All Weathertex products have a thickness of 9.5mm. Weathertex products are pre-primed with an acrylic, water-based primer. The Natural Range are available un-primed as an undressed raw timber finish.

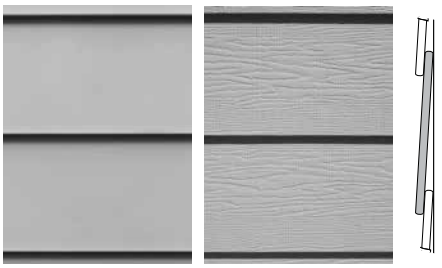
Classic Weatherboards

Weathertex Classic Weatherboards include smooth and featured surface planks for lapped applications:

Classic

3660mm x 200mm *3660mm x 300mm*

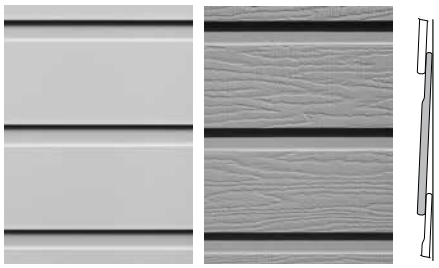
Smooth *Ruff-Sawn*



Rusticated

3660mm x 200mm

Smooth *Ruff-Sawn*



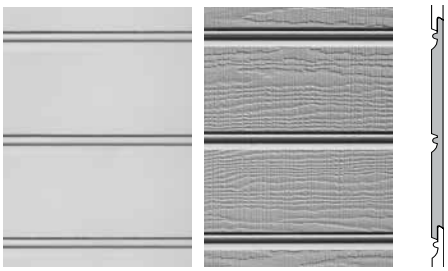
Selflok Weatherboards

Selflok Weatherboards are routed during manufacturing with a self-locking feature to allow each board to accurately align above one another, providing a clean and neat finish. Semi-concealed fixing in many wind areas is also possible. Ecogroove Woodsman available un-primed.

Millwood

3660mm x 300mm

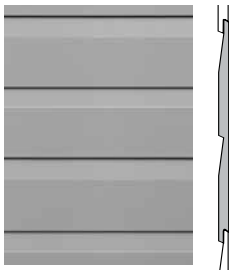
Smooth *Ruff-Sawn*



Old Colonial

3660mm x 300mm

Smooth



Texwood

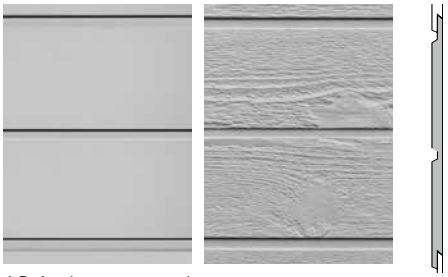
3660mm x 300mm

Smooth

Ecogroove 150^

3660mm x 300mm

Smooth *Woodsman*

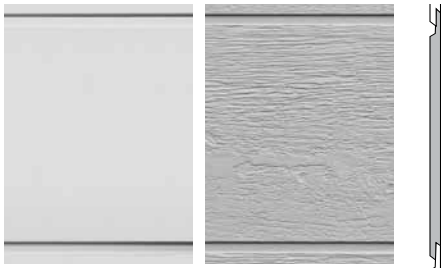


^ Refers to groove spacing.

Ecogroove 300^

3660mm x 300mm

Smooth *Woodsman*



^Refers to groove spacing.

PEFC/21-31-09

Selflok Ecogroove Range

* Refer to Weathertex Manufacturer's Warranty Conditions

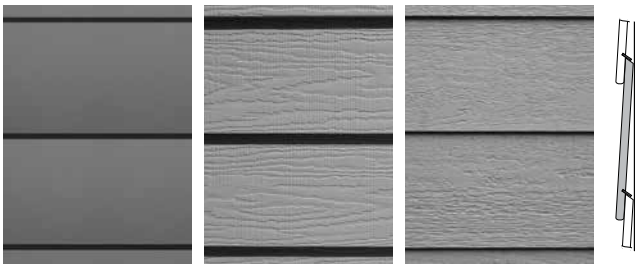
Primelok Weatherboards

Smooth and textured Primelok Weatherboards feature the Primelok® aligning spline for increased speed and accuracy when installing. The Primelok design allows for fixings to be fully concealed under the lap.

Primelok 200

3660mm x 200mm

Smooth *Ruff-Sawn* *Woodsman*



Shadowood

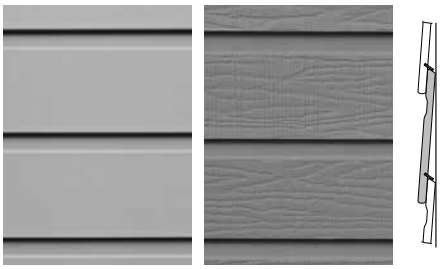
3660mm x 170mm

Smooth

Federation

3660mm x 170mm

Smooth *Ruff-Sawn*



Architectural Panels

Weathergroove Panels

Smooth, Ruff-Sawn or Woodsman textured Weathergroove Panels display regular vertical grooves. Rebated edges combine with Weathergroove joiners to provide a hidden vertical panel joint. Able to be joined on or off-stud.

150 Smooth

3660mm x 1196mm
2745mm x 1196mm
2440mm x 1196mm

150 Ruff-Sawn

3660mm x 1196mm
2745mm x 1196mm
2440mm x 1196mm

150 Woodsman

3660mm x 1196mm
2745mm x 1196mm
2440mm x 1196mm

300 Smooth

3660mm x 1196mm
2745mm x 1196mm

600 Smooth

3660mm x 1196mm
2745mm x 1196mm

1200 Smooth

3660mm x 1196mm
2745mm x 1196mm

GREENTAG CERTIFIED GOLD trust brands™

Weathergroove Range

GUARANTEED 25 YEAR SPLIT, CRACK OR ROT NOT TO*

PEFC™

PEFC/21-31-09

Weathergroove Range

* Refer to Weathertex Manufacturer's Warranty Conditions

EcoWall Panels

EcoWall offers a modern express join style by incorporating both vertical and horizontal express joins. Large panel sizes allow for quick installation and versatility.

EcoWall Smooth Sizes:

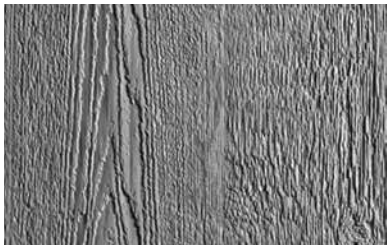
3660mm x 1220mm
2745mm x 1220mm
2440mm x 1220mm

1220mm x 1220mm
1220mm x 915mm

New Sizes

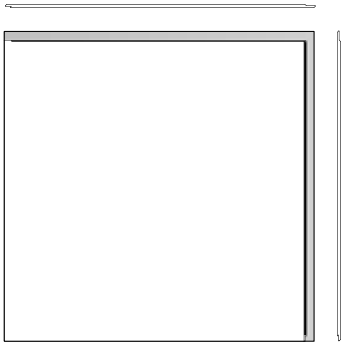
Smooth

Woodsman (3660 x 1220mm only)



Rubix Panels

Rubix Panel is a self-locking Architectural Panel designed to be joined on or off stud without the need for joining accessories.



Sizes:
1200mm x 1200mm
1200mm x 900mm

GREEN TAG CERTIFIED GOLD trust brands

GUARANTEED NOT TO 10 YEAR OR ROT SPLIT, CRACK

PEFC PEFC/21-31-09

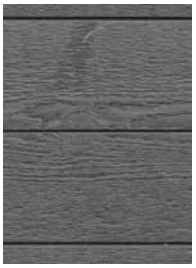
*Refer to Weathertex Manufacturer's Warranty

Natural Cladding

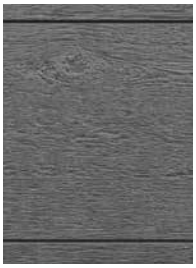
THE FIRST MANUFACTURED PRODUCT
GLOBALLY TO ACHIEVE **PLATINUM**
GREENTAG™ CERTIFICATION

Ecogroove 150^
Natural

Ecogroove 300^
Natural



Vgroove 150^
Natural
(MTO)



Vgroove 300^
Natural
(MTO)

EcoWall
Natural
(3660x1220mm only)

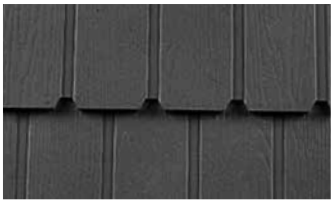
Weathergroove
150 Natural
(3660x1196mm only)

Weathergroove
300 Natural
(3660x1196mm only)

The Natural range is an unprimed board which provides a unique appearance with the characteristics and look of raw, undressed timber. The Natural surface is pressed to create a woodgrain effect. Its rough, deep cut pattern shows all the knots, grains and imperfections of natural timber. The surface can be oiled to maintain the look of fresh brown timber; alternatively it can be left untreated and allowed to age naturally. When left untreated the surface will weather and grey subject to location and sun exposure similar to other natural timber products. Refer to the Painting and Maintenance Section for more details.

NOTE: *Weathertex PVC joiners are not used with the natural range and alternate joining instructions are provided in the relevant installation sections.*

Wall Shingles



1195mm x 225mm

Regular vertically grooved Ruff-Sawn Weatherboards for overlapping shingles effect. Notched lower edge.

Please note that wall shingles are supplied unprimed.

GREEN TAG CERTIFIED PLATINUM trust brands

GUARANTEED NOT TO 10 YEAR OR ROT SPLIT, CRACK

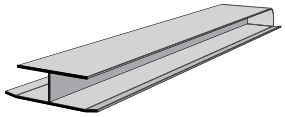
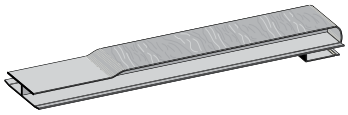
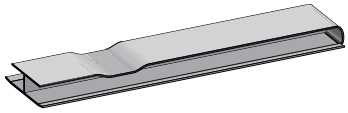
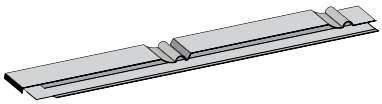
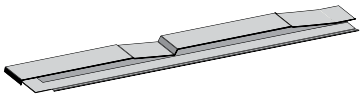
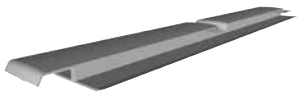
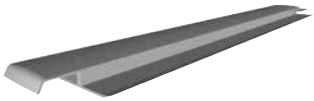
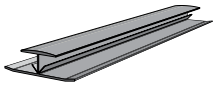
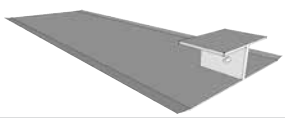
PEFC PEFC/21-31-09

*Refer to Weathertex Manufacturer's Warranty

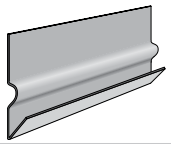
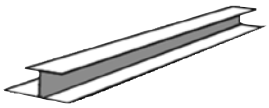
ACCESSORIES RANGE

Weathertex Accessories

Made from PVC

PRODUCT	LENGTH (mm)	SUITED TO:	
TRADITIONAL OFF STUD JOINER	200 Smooth or Ruff-Sawn 300 Smooth	Classic 200mm Weatherboards Primelok Classic 200mm Classic 300mm Weatherboards	
RUSTICATED JOINERS	200 Smooth 200 Ruff-Sawn	Rusticated Smooth Rusticated Ruff-Sawn	
FEDERATION JOINERS	170 Smooth 170 Ruff-Sawn	Primelok Federation Smooth Primelok Federation Ruff-Sawn	
SHADOWOOD JOINER	170 Smooth	Primelok Shadowood Smooth	
MILLWOOD JOINERS	300 Smooth 300 Ruff-Sawn	Selflok Millwood Smooth Selflok Millwood Ruff-Sawn	
OLD COLONIAL JOINER	300 Smooth	Selflok Old Colonial Smooth	
ECOGROOVE 150 JOINERS	300 Smooth 300 Woodsman	Selflok Ecogroove 150 Smooth Selflok Ecogroove 150 Woodsman	
ECOGROOVE 300 JOINERS	300 Smooth 300 Woodsman	Selflok Ecogroove 300 Smooth Selflok Ecogroove 300 Woodsman	
TEXWOOD JOINER	300 Smooth	Selflok Texwood Smooth	
SHINGLE JOINER	255	Weathertex Wall Shingles	
170MM CONCEALED JOINER	170	Primelok 170 Weatherboards	
200MM CONCEALED JOINER	200	Classic 200mm Weatherboards Primelok 200mm Weatherboards	
300MM CONCEALED JOINER	300	Selflok 300mm Weatherboards	

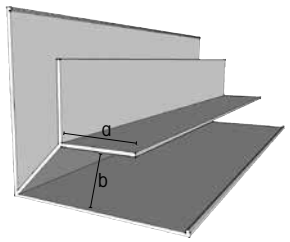
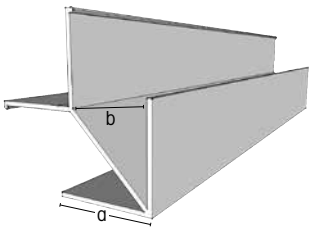
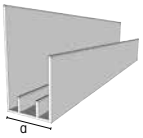
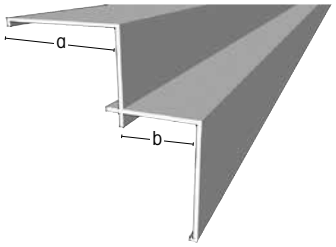
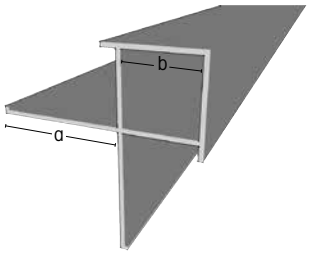
Weathertex Accessories

PRODUCT	LENGTH (mm)	SUITED TO:	
PRIMELOK STARTER STRIP	1830	All Weathertex Primelok Weatherboards	
WEATHERGROOVE JOINERS	2440, 2745, 3660	Weathergroove Panels	
SMALL CORNER PLUG		Traditional Small External Aluminium Corner	
LARGE CORNER PLUG		Traditional Large External Aluminium Corner	

CAVITY WALL SYSTEM				
SMALL CAVITY CLOSER	1830	a = 10	Selflok Weatherboards, Weathergroove, EcoWall Panels.	
LARGE CAVITY CLOSER	1830	a = 20	Classic 200 and 300mm Weatherboards, Primelok Weatherboards	
CAVITY BATTENS		1220mm x 45mm	All cavity constructions	

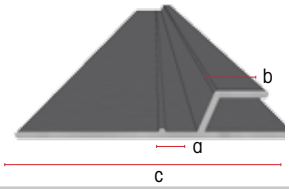
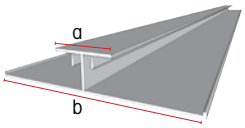
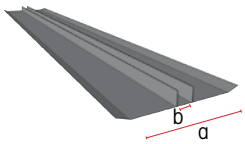
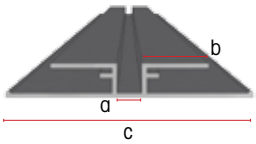
Trimtec Accessories

Made from anodised aluminium

PRODUCT	LENGTH (mm)	DIMENSION	suited to:	
SMALL INTERNAL LF ALUMINIUM CORNER	3660	a = 27 b = 11	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels, Rubix Panels	
LARGE INTERNAL LF ALUMINIUM CORNER	3000	a = 27 b = 21	Primelok Weatherboards, Rusticated, Classic Weatherboards	
SMALL EXTERNAL LF ALUMINIUM CORNER	3660	a = 27 b = 11	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels, Rubix Panels	
LARGE EXTERNAL LF ALUMINIUM CORNER	3000	a = 27 b = 21	Primelok Weatherboards, Rusticated, Classic Weatherboards	
SMALL WINDOW SURROUND/ END STOP	3660	a = 11	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels, Rubix Panels	
LARGE WINDOW SURROUND/ END STOP	3660	a = 21	Primelok Weatherboards, Rusticated, Classic Weatherboards	
TRADITIONAL ALUMINIUM CORNERS				
SMALL INTERNAL ALUMINIUM CORNER	3660	a = 35 b = 11	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels, Rubix Panels	
LARGE INTERNAL ALUMINIUM CORNER	3000	a = 35 b = 21	Primelok Weatherboards, Rusticated, Classic Weatherboards	
SMALL EXTERNAL ALUMINIUM CORNER	3660	a = 35 b = 11	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels, Rubix Panels	
LARGE EXTERNAL ALUMINIUM CORNER	3000	a = 35 b = 21	Primelok Weatherboards, Rusticated, Classic Weatherboards	

Trimtec Accessories

Made from anodised aluminium

PRODUCT	LENGTH (mm)	DIMENSION	SUITED TO:	
ALUMINIUM Z FLASHING	3660	L = 3660mm a = 27mm b = 11mm	Weathergroove Panels, EcoWall Panels Other products as required	
SMALL ALUMINIUM Z FLASHING	3670 (size extended to allow for cutting)	L = 3670mm a = 15mm b = 10mm c = 73mm	Weathergroove Panels, EcoWall Panels, other products as required.	
LONG VERTICAL ALUMINIUM JOINER	3660	L = 3660mm a = 20mm b = 70mm	Selflok Weatherboards, Weathergroove Panels, EcoWall Panels	
ALUMINIUM DEEP CHANNEL JOINER	3660	L = 3660mm a = 70mm b = 11mm	EcoWall Panels	
ALUMINIUM DEEP CHANNEL JOINER LF	3660	L = 3660mm a = 10mm b = 22mm c = 100mm	EcoWall Panels, other products as required	

Storage and Handling

Anodised aluminium products should be stored in a dry and flat position away from any potentially corrosive 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.

The products are subject to damage or could damage incompatible materials they are brought in contact with. The 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.

PRODUCT INFORMATION

Dimensions and Packaging

TRADITIONAL WEATHERBOARDS		LENGTH (mm)	WIDTH (mm)	UNITS PER PACK	CONTENTS m^2
Classic 200		3660	197	144	103.8
Classic 300		3660	298	96	104.7
Rusticated		3660	197	144	103.8
Wall Shingles		1195	225	120	32.3
SELFLOK WEATHERBOARDS		**LENGTH (mm)**	**WIDTH (mm)**	**UNITS PER PACK**	**CONTENTS m^2**
Millwood		3660	298	96	104.7
Old Colonial		3660	298	96	104.7
Ecogroove 150		3660	298	96	104.7
Ecogroove 300		3660	298	96	104.7
Texwood		3660	298	96	104.7
Vgroove 150		3660	298	96	104.7
Vgroove 300		3660	298	96	104.7
PRIMELOK WEATHERBOARDS		**LENGTH (mm)**	**WIDTH (mm)**	**UNITS PER PACK**	**CONTENTS m^2**
Primelok 200		3660	197	144	103.8
Federation		3660	170	168	104.5
Shadowood		3660	170	168	104.5
ARCHITECTURAL PANELS		**LENGTH (mm)**	**WIDTH (mm)**	**UNITS PER PACK**	**CONTENTS m^2**
EcoWall Panels	12 x 4	3660	1220	24	107.2
	9 x 4	2745	1220	24	80.37
	8 x 4	2440	1220	24	71.4
	4 x 4	1220	1220	48	71.4
	4 x 3	1220	915	48	53.6
Rubix Panels	4 x 4	1200	1200	48	69.1
	4 x 3	1200	900	48	51.8
Weathergroove Panels	12 x 4	3660	1196	24	105.1
	9 x 4	2745	1196	24	78.8
	8 x 4	2440	1196	24	70.0

Weatherboards Wall Coverage Table

	CLASSIC	CLASSIC	RUSTICATED	ALL SELFLOK PROFILES	PRIMELOK	FEDERATION / SHADOWOOD	WALL SHINGLES
Weatherboard Width	200	300	200	300	200	170	225
Weatherboard Lap	20	20	25	19	25	25	40
NUMBER OF ROWS (x)	WALL HEIGHT COVERAGE (mm)						
Approximation	= 177x + 20	= 278x + 20	= 172x + 25	= 279x + 19	= 172x +25	= 143x + 25	= 185x + 40
1	197*	298*	197*	298*	197*	168*	225*
2	374	576	369	577	369	311	410
3	551	854	541	856	541	454	595
4	728	1132	713	1135	719	597	780
5	905	1410	885	1414	885	740	965
6	1082	1688	1057	1693	1057	883	1150
7	1259	1966	1229	1972	1229	1026	1335
8	1436	2244	1401	2251	1401	1169	1520
9	1613	2522	1573	2530	1573	1312	1705
10	1790	2800	1745	2809	1745	1455	1890
11	1967	3078	1917	3088	1917	1598	2075
12	2144	3356	2089	3367	2089	1741	2260

*Average width

Notes:

1. *Weathertex Selflok and all Primelok profiles have set Weatherboard laps. The top row of Weatherboards may require cutting to fit to the eaves.*
2. *The lap on Weathertex Classic/Rusticated Weatherboards and Wall Shingles may be increased to give equal width rows over the wall height.*
3. *At the wall/eave intersection a timber cover strip may be fixed, equal in width to the actual lap, for a tidy finish.*

Fire Rated Wall Systems - Fire Resistance Level (FRL)

Weathertex cladding can achieve fire ratings of 60/60/60 and 90/90/90 when constructed with additional fire rated linings. Weathertex can be conveniently installed over a wide range of fire rated wall systems detailed by the relevant system manufacturer such as CSR Gyprock and Boral.

Advice of the system manufacturer should be sought on the appropriate system for your project.

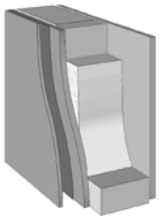
All walls must be designed for the applied loads. For loadbearing walls and walls subject to wind pressures, walls shall be designed to the appropriate Australian Standards or construction manuals. Designers should consider Axial Capacity Reduction (ACR) from charring or loss of steel strength due to 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 frame and Weathertex.

Typical FRL Systems

Note: Timber studs at maximum 600mm centres

Direct Fix - 60/60/60* *ACR Group 1



External Wall Side
- Weathertex 9.5mm Cladding direct fix
- Vapour Permeable Membrane
- 1 layer of 16mm Gyprock Fyrchek MR Plasterboard

Internal Wall Side
- 1 layer of 16mm Gyprock Fyrchek Plasterboard

Approximate* Thermal Rating (R-value)

$R_{(winter)} = 2.5$ and $R_{(summer)} = 2.3$

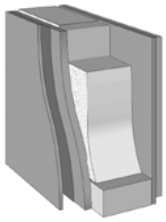
*using 75 Soundscreen™ 2.0 infill

Approximate* Acoustic Value (R_w)

$R_w = 45$

*using 75 Soundscreen™ 2.0 infill

Direct Fix - 60/60/60 and 90/90/90* *ACR Group 3



External Wall Side
- Weathertex 9.5mm Cladding on Weathertex cavity battens
- Vapour Permeable Membrane
- 1 layer of 16mm Gyprock Fyrchek MR Plasterboard

Internal Wall Side
- 1 layer of 6mm CSR CominSeal™ Wallboard
- 1 layer of 16mm Gyprock Fyrchek Plasterboard

Approximate* Thermal Rating (R-value)

$R_{(winter)} = 2.5$ and $R_{(summer)} = 2.3$

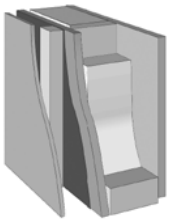
*using 75 Soundscreen™ 2.0

Approximate* Acoustic Value (R_w)

$R_w = 50$

*using 75 Soundscreen™ 2.0

Cavity Fix - 60/60/60



External Wall Side
- Weathertex 9.5mm Cladding on cavity battens
- Vapour Permeable Membrane
- 1 layer of 16mm Gyprock Fyrchek MR Plasterboard

Internal Wall Side
- 1 layer of 16mm Gyprock Fyrchek Plasterboard

Approximate* Thermal Rating (R-value)

$R_{(winter)} = 3.0$ and $R_{(summer)} = 2.8$

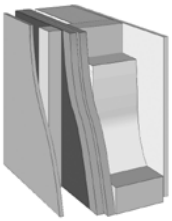
*using 75 Soundscreen™ 2.0

Approximate* Acoustic Value (R_w)

$R_w = 42$

*using 75 Soundscreen™ 2.0

Cavity Fix - 90/90/90 (from outside only)



External Wall Side
- Weathertex 9.5mm Cladding on cavity battens
- Vapour Permeable Membrane
- 2 layers of 13mm Gyprock Fyrchek MR Plasterboard

Internal Wall Side
- 1 layer of 10mm Gyprock Plasterboard CD

Approximate* Thermal Rating (R-value)

$R_{(winter)} = 2.9$ and $R_{(summer)} = 2.7$

*using 75 Soundscreen™ 2.0

Approximate* Acoustic Value (R_w)

$R_w = 42$

*using 75 Soundscreen™ 2.0

Note: The timber framed and steel framed FRL systems in this guide are indicative of typical systems provided by CSR Gyprok. Application must be in accordance with the system manufacturer's installation requirements and instructions.

Certificate of physical properties

weathertex
timber made perfect, naturally

Weathertex weatherboards and architectural panels.

Weathertex Weatherboards and Architectural Panels have been comprehensivley 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 1859.4 – Wet Processed Fibreboard for Exterior Conditions (HB.E)

Property	Standard	Result	Requirement
Dimensions	AS NZS 4266.2	PASS	±2mm/m
Density	AS NZS 4266.4	1000 kg/m^3	> 750 kg/m^3
Bending Strength	AS NZS 4266.5	32 MPa	> 20 MPa
Modulus of Elasticity	AS NZS 4266.5	4500 MPa	> 2900 MPa
Equilibrium Moisture Content	AS NZS 4266.3	7.5%	7.5% ±1% @ Factory gate
Moisture Resistance	AS NZS 2457.5 – 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	0.195 W/mK	Where thermal and acoustically rated walls are required; Weathertex can be used with systems detailed in the Weathertex Install Guide to meet your specific performance requirements.
Thermal Resistance	0.05m^{2}K/W per 9.5mm	
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. 2 – 3.7.4
Average Specific Extinction Area	AS/NZS 3837	38.7 m^2/kg	BCA: Vol. 1 - C1.10
Material Group Number	AS/NZS 3837	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	60/60/60 & 90/90/90 Systems Available	BCA: Vol. 1 – Spec C1.1
Combustibility	Vol. 1 - Spec C1.1: Clause 3.10	Type A Compliant for Class 2 or 3 up to 4 story construction*	BCA: Vol. 1 – C1.1

*Weathertex is compliant as per Spec C1.1 for Class 2 or 3, Type A up to 3 or 4 story construction where the conditions of Clause 3.10 (a) or (b) are satisfied respectively

Miscellaneous properties

Termite Resistance	Based on "graveyard" testing completed by CSIRO, Weathertex products have demonstrated resistance to termites
Formaldehyde Classification	AS/NZS 4266.16 Test Method: < 0.07 mg/L JIS A 1460 Class: F^{xxxx}/SE0
	Weathertex contains no 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).

Weathertex complies with BCA requirements and can provide relevant documentation to the following sections when required.

Product Description

9.5mm thick Weathertex Hardboard Cladding is designed for residential and light commercial type buildings. Weathertex is an Australian made, reconstituted hardwood, high density fibreboard manufactured in accordance with AS1859.4 Wet Processed Fibreboard (HB.E).
Weathertex Range:

- Traditional Lapped Weatherboards
- Selflok Weatherboards
- Primelok Weatherboards
- Weathergroove Architectural Panels
- EcoWall Panels
- Rubix Architectural Panels

Cladding systems incorporate internal and external corner accessories, joiners and appropriate flashings for all openings and penetrations in accordance with the National Construction Code.
Weathertex pre-primed products are produced with a factory primer designed to be finished with a latex paint system. The Weathertex Natural Range is designed to be installed either as a raw timber finish or coated with an appropriate decking oil system.

Fit for Purpose and Compliance with the Building Code

The following sections list the performance requirements of the Australian Building Code for Wall Cladding and provides a summary of relevant sections of the building code and verification documents available for Residential Class 1 & 10 construction.

Vol. 2 – Part 3.5.3 Wall Cladding

Weathertex production operations are controlled under an SAI Global Certified ISO 9001 Quality Management System. Laboratory monitoring is completed in accordance with the specified test methods in AS 1859.4. Weathertex meets the Deemed-to-satisfy Provisions of the building code for Class 1 & 10 construction:

3.5.3.1 Compliance with the acceptable construction practice satisfies Performance Requirements P2.1.1 and P2.2.2 for wall cladding provided:

(b) Wall cladding is installed in accordance with:

(ii) 3.5.3.3 for hardboard wall cladding boards and

(iii) 3.5.3.4 for hardboard sheet wall cladding

3.5.3.3 – Wall cladding boards must (b) for 9.5mm thick hardboard – comply with AS/NZS 1859.4
3.5.3.4 – (b) hardboard sheet wall cladding must (i) comply with AS/NZS 1859.4

Issue Date: March 2017

P2.1.1 Structural Stability and Resistance to Actions

Standard – AS/NZS 1170.2 Structural Design Actions: Wind Actions

Weathertex installation systems have been tested as per verification test method AS 4040 for cyclonic and non-cyclonic wind zones. Product and application specific test reports are available on request. Design test pressure and wind zone classification has been determined as per AS 4055 Wind Loads for Housing and tabulated in the Weathertex Installation Manual.

P2.3.1 Protection from the Spread of Fire

For internal or external walls required to be fire resisting per the performance requirements of 3.7.1.3 and 3.7.1.8, Weathertex Cladding may be used in conjunction with deem-to-comply systems in the building code or rated systems in the Weathertex Installation Manual for 60/60/60 and 90/90/90 FRL walls.

P2.3.4 Bushfire Areas

Weathertex has been assessed by a third party for verification to the bushfire standard. Weathertex meets the requirements for use up to and including BAL 19 areas.

Standard – AS 3959 Construction of Buildings in Bushfire-Prone Areas

AS 3959: BAL 19 Performance Requirements: 6.4.1 (c) (iv) Wall Cladding refers to Appendix E; Timber that is in reconstituted form with a density of 750 kg/m3 is suitable for construction where specified in Section 5, 6 and 7 (i.e. up to and inclusive of BAL 19).

Conditions and Limitations

1. Installation shall be undertaken in accordance with all relevant technical information related to the selected wall system, including the National Construction Code, local regulations, third party component manufacturer's requirements and information contained in the current version of the Weathertex Installation Manual
2. The scope of this document is limited to the performance provisions of 9.5mm thick Weathertex products only
3. Performance criteria and validation methods are as published in the National Construction Code - Volume 2 – BCA Class 1 & 10 Buildings and Australian Standards current to the date of issue of this document

Weathertex complies with BCA requirements and can provide relevant documentation to the following sections when required.

Product Description

9.5mm thick Weathertex Hardboard Cladding is designed for residential and light commercial type buildings which have a maximum of four stories*. Weathertex is an Australian made, reconstituted hardwood, high density fibreboard manufactured in accordance with AS1859.4 Wet Processed Fibreboard (HB.E).
Weathertex Range:

- Traditional Lapped Weatherboards
- Selflok Weatherboards
- Primelok Weatherboards
- Weathergroove Architectural Panels
- EcoWall Architectural Panels
- Rubix Architectural Panel

Cladding systems incorporate internal and external corner accessories, joiners and appropriate flashings for all openings and penetrations in accordance with the National Construction Code.

Weathertex pre-primed products are produced with a factory primer designed to be finished with a latex paint system. The Weathertex Natural Range is designed to be installed either as a raw timber finish or coated with an appropriate decking oil system.

**Maximum allowable stories are three or four where the conditions of Fire Resistance Clause 3.10 (a) or (b) are met respectively.*

Fit for Purpose and Compliance with the Building Code

The following sections lists the performance requirements of the Australian Building Code for Wall Cladding and provides a summary of relevant sections of the building code and verification documents available for Class 2 to 9 construction.

PART C1 FIRE RESISTANCE & STABILITY

Spec C1.1: FRL Requirements for Internal and External Walls

For internal or external walls required to be fire resisting, Weathertex Cladding may be used in conjunction with deem-to-comply systems in the building code or rated systems in the Weathertex Installation Manual for 60/60/60, 90/90/90 and 120/120/120 FRL walls.

Additional for Spec C1.1 - 3.1, 4.1 and 5.1

Weathertex complies with Spec C1.1 - 3.1, 4.1 and 5.1 and may also be used in Type A and Type B Fire-Resisting Construction under the following concessions:

Type A Fire-Resisting Construction – Spec C1.1 – 3.10 Concession

Class 2 & 3 buildings with a rise in stories of not more than 3 need not comply with the requirements of Clauses 3.1(b), (d) & (e) of C1.1 and C2.6 for non-combustibility provided any insulation installed in the cavity of a wall required to have an FRL is non-combustible and the building is fitted with an automatic smoke alarm system complying with Spec E2.2a.

Class 2 or 3 buildings having a rise in stories of not more 4 need not comply with the requirements of Clauses 3.1(b), (d) & (e) of C1.1 and C2.6 for non-combustibility provided the design conditions of Spec C1.1 – 3.10 (b) are met.

Type B Fire-Resisting Construction – Spec C1.1 – 4.3 Concession

Class 2 & 3 buildings with a rise in stories of not more than 2 need not comply with the requirements of Clauses 4.1(b), (e) (f) & (h) of C1.1 for non-combustibility provided any insulation installed in the cavity of a wall required to have an FRL is non-combustible and the building is fitted with an automatic smoke alarm system complying with Spec E2.2a.

Spec C1.1 – 4.3 (b) and (c) offer additional concession for FRL requirements of 2 story Class 2 & 3 buildings as applicable.

Issue Date: March 2017

Spec C1.8 – Clause 3.4 Walls Generally

Clause 5(a) Material Test – Weathertex is subject to production quality control and material property requirements of the product standard 1859.4 Wet Processed Fibreboard for Exterior Conditions (HB.E) as referenced in Section 3.5.3.3 (b) and 3.5.3.4 (b) of BCA Volume 2.

Weathertex production operations are controlled under an SAI Global Certified ISO 9001 Quality Management System. Laboratory monitoring is completed in accordance with the specified test methods in product standard AS 1859.4 and production lab reports available on request for material property characterization.

ISO 9001 Quality Management System (SAI GLOBAL) Certificate Number #QEC1864

Spec C1.10 – Fire Hazard Properties

Spec C1.10 – 4: Group number of a material is determined by (ii) data obtained in accordance with AS/NZS 3837.

Weathertex is classified as a Group 3 material. AS/NZS 3837 test report available on request.

Part B1 Structural Provisions

Standard – AS/NZS 1170.2 Structural Design Actions: Wind Actions

Weathertex installation systems have been tested as per verification test method AS 4040 for cyclonic and non-cyclonic wind zones. Product and application specific test reports are available on request. Limit state ultimate wind capacity figures are reported for use with AS/NZS 1170.2 and wind zone classifications have been determined as per AS 4055 Wind Loads for Housing and tabulated in the Weathertex Installation Manual.

PART G5 Construction in Bushfire Prone Areas

Weathertex has been assessed by a third party for verification to the bushfire standard. Weathertex meets the requirements for use up to and including BAL 19 areas.

Standard – AS 3959 Construction of Buildings in Bushfire-Prone Areas

AS 3959: BAL 19 Performance Requirements: 6.4.1 (c) (iv) Wall Cladding refers to Appendix E; Timber that is in reconstituted form with a density of 750 kg/m3 is suitable for construction where specified in Section 5, 6 and 7 (i.e. up to and inclusive of BAL 19).

PART H1 Energy Efficiency

Weathertex cladded walls constructed using bulk insulation meets the construction R-Value requirements of Clause H1. Many different insulated wall systems are available to meet energy efficiency needs. Design and installation advise should be sought from the manufacturer.

Conditions and Limitations

1. Installation shall be undertaken in accordance with all relevant technical information related to the selected wall system, including the National Construction Code, local regulations, third party component manufacturer's requirements and information contained in the current version of the Weathertex Installation Manual
2. The scope of this document is limited to the performance provisions of 9.5mm thick Weathertex products only
3. Performance criteria and validation methods are as published in the National Construction Code - Volume 1 – BCA Class 2 to 9 Buildings and Australian Standards current to the date of issue of this document

Issue Date: March 2017

GENERAL REQUIREMENTS - ALL PRODUCTS

The following installation instructions and guides are in addition to the requirements of the National Construction Code (NCC) - Volume 2 for Class 1 & 10 Buildings. Weathertex provides a suite of CAD drawings (refer to the Nationwide House Energy Rating Scheme (NatHERS)) which should be used in conjunction with the instructions in this installation guide. Note: All diagrams in this installation guide are for demonstration purposes only. Diagrams may omit some components for clarity.

Storage and Handling Weathertex

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.

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. Primelok Weatherboards should be cut individually to protect the aligning spline. Where required, edges may be trimmed with a smoothing plane or sandpaper. Holes are easily drilled with high speed drills or clean cutter bits.

The normal health and safety precautions should be taken when working with wood panel products. Machine tools should be fitted with dust extractors and work areas kept clean. If dust levels exceed Worksafe 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 Material Safety Data Sheet is available for download on the Weathertex website: www.weathertex.com.au

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.

The Base of the Wall

Lower framing timbers must be isolated from ground moisture by suitable damp-proof courses (DPC) or termite shielding. Similarly, Weatherboards or Architectural Panels must not be placed in direct contact with masonry, brickwork or concrete. Where necessary, use strips of Alcor to isolate the materials.

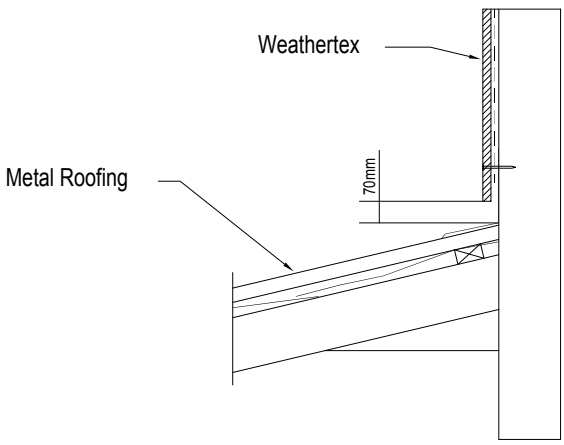
Allow at least 100mm clearance between the bottom edge of Weathertex Weatherboards or Architectural Panels from paved surfaces which are exposed to the weather and at least 225mm clearance to unprotected ground. The grade of adjacent finished ground must slope away from the building to avoid the possibility of water accumulation.

Moisture Management and Flashing

It is the responsibility of the Designer or Specifier to identify moisture related risks associated with any particular building design. Wall construction design must effectively manage moisture, considering both the interior and exterior environments of the building, particularly in buildings that have a high risk of wind driven rain or are artificially heated or cooled. Adequate ventilation and design consideration 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 relevant Australian Standards and the 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 Weatherboards 70mm clear of the lower storey roof claddings. Weatherproof with an approved flashing.



Wall Sarking Requirements

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.

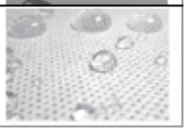
Weathertex recommends the use of Vapour permeable membrane in conjunction with the Weathertex Cavity Installation System to provide the best protection against condensation problems such as mould, timber rot, corrosion and loss of thermal resistance. Resources such as the ABCB Condensation Handbook and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

NOTE: Soft compressible 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/NZS 4200.2
Mandatory Properties	
Vapour Resistance	LOW
Water Barrier*	HIGH

*sarking products are unsuitable if "unclassified" as a water barrier and will void the product warranty

Recommended Vapour Permeable Membrane Products

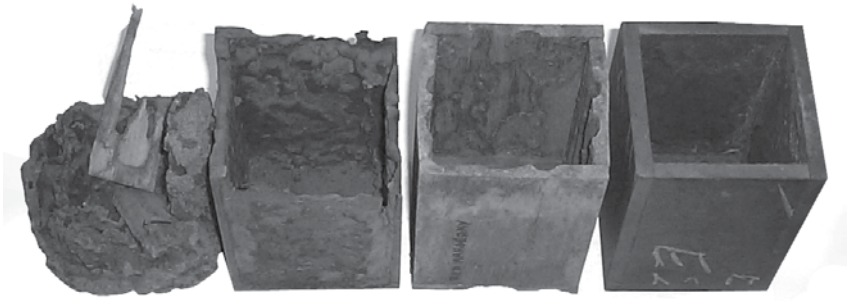
Bradford enviroseal / PROCTORWRAP LET YOUR BUILDING BREATHE	Product: Enviroseal Proctor Residential (RW) OR Commercial (CW)	
ametalin / BRANE® VHP VERY HIGH VAPOUR PERMEANCE WALL WRAP	Product: Ametalin BRANE® VHP Wall Wrap	

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.

Weathertex and Termites

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.



Blackbutt | Standard Hardwood | Red Mahogany | Weathertex

Samples removed from Termite Test after 2.5 years exposure

Painting and Maintenance

Failure to follow any of the below preparation instructions may void warranty of the product.

FOR PRE-PRIMED PRODUCTS:

ALWAYS PAINT PRIMED WEATHERTEX WEATHERBOARDS AND ARCHITECTURAL PANELS WITHIN 60 DAYS OF FIXING. FAILURE TO OBSERVE THIS REQUIREMENT MAY RESULT IN POOR ADHESION OF THE TOP COAT AND MAY VOID WARRANTY.

Prime cut ends:

Sawn edges must be sealed with high quality exterior acrylic primer or solvent based oil alkyd prior to installation. It is also good practice to prime any timber mouldings, including corner stops and trims.

Surface Preparation - Cleaning & Washing:

Clean surface of primed Weatherboard Panels with soft lint free cloth and wash down with sugar soap to remove salt, dirt, dust and grease or airborne contaminates. 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.

Not allowing the house 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. (Do not use high pressure washers as this can cause coating damage and water ingress into the wall cavity).

Painting:

Weathertex Weatherboards and Panels can be primed with exterior acrylic primer before topcoat or are suitable for direct application with an exterior grade 100% acrylic topcoat or solvent base paint system. 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 exterior acrylic primer before 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 prior to reapplication of topcoat. 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 of applied coatings.

Paint colour can have an effect on the performance of timber products. As Weathertex is a timber product, its dimensions will change 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 Weatherboard. Plastic joiners can also distort at high temperature. Light paint colours will lead to better thermal efficiency of the building and minimise the effects of moisture change.

Maintenance:

The extent and nature of maintenance will depend on the geographical location and exposure of the installation. Regularly wash the painted surface with water to remove dirt and grime and to improve the performance of the coating.

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 recoat.

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

FOR NATURAL (UNPRIMED) PRODUCTS:

Weathertex is a natural hardwood timber product that will fade to a rustic grey with UV exposure just like raw timber. Manufactured with a mixture of native Australian eucalypt species, the original colour and greying process can vary due to the seasonal variation of harvesting areas. Weathertex Natural may be left raw to grey off over time, or be coated with a quality decking stain to maintain the rich appearance of new timber.
NOTE: Painting natural board with a top coat (paint) finish will void the manufacturer's warranty. If a top coat finish is to be applied, it must be onto Weathertex's pre-primed board.

RETAIN ORIGINAL COLOUR (Decking Stains):

Weathertex Natural begins as a dark hardwood colour and to retain the original colour the boards must be stained.

Recommended Decking Stain Products		
		Intergrain ENVIROPRO
Cabot's Aquadeck New Natural	Intergrain Natural Stain Cedar/Cyprus	Intergrain EnviroPro Endure Deck Stain Cedar

After installation, prepare the surface by removing dust and contaminants with a timber cleaner such as Cabots Deck Clean or Intergrain Reviva. Use a soft brush with the timber cleaner and then rinse with water. Allow to completely dry before applying 2-3 coats of deck stain. It is best to brush apply coatings to ensure proper penetration into the featured surface. Refer to the coating manufacturer's warranty and application requirements for more detail.
Weathertex Natural may also be left to lighten before staining for different colour results. Coating providers offer a wide range of colours that may be used and a test sample should always be performed to confirm colour expectations and performance before coating.
NOTE: Varnishes and clear coats are not suitable for external applications of Weathertex products. They do not provide adequate UV protection and can cause irregular surface aesthetics. It is the customer's responsibility to confirm coating suitability from the coating manufacturer.

UNSEALED (Naturally Lighten):

Left to weather naturally by the sun, the uncoated timber will lighten and "grey off" over time similar to raw hardwood. The degree and speed of colour change will depend on the intensity of UV exposure. The design of the installation must allow for consistency of sun exposure as shade lines caused by other features will result in colour variation and inconsistent weathering patterns.

Weathertex may be periodically cleaned with a timber cleaner such as Cabot's Deck Clean or Intergrain Reviva. Use a soft brush with the timber cleaner and then rinse with water.

When allowed to weather naturally some small black spots on the surface may become more visible. This is carbon which is inherent within raw timber and the manufacturing process. These small black spots are not mould and will not affect the performance or longevity of the product.
At any time Weathertex can be re-stained after greying off to regain the look of fresh new timber. Refer to the previous section for decking stain application details.

Images on the left show the difference between Weathertex Natural range from initial

Fasteners

The table below displays the minimum length, gauge and head size required for fixing Weathertex products. Where applicable, refer to the High Wind Classification table 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. For unspecified systems, fixing lengths must be increased to allow for additional packing material.

FIXING TO TIMBER FRAMES[1]		
PRODUCT	**TYPE**	**MINIMUM REQUIRMENTS[2]**
DIRECT FIX: CLASSIC & SHINGLES	Hand Nailing	50mm x 2.8mm Weathertex Nail, Hot-Dip Galv
	Gun Nailing	50mm x 2.5mm Ring Shank, or ND50 SS Bradnails[3]
	Screws	10g x 35mm Class 3
DIRECT FIX: SELFLOK, PRIMELOK, WEATHERGROOVE & ECOWALL	Hand Nailing	50mm x 2.8mm Weathertex Nail, Hot-Dip Galv
	Gun Nailing	45mm x 2.5mm Ring Shank, or ND50 SS Bradnails[3, 8]
	Screws	10g x 35mm Class 3
WEATHERTEX CAVITY FIX: CLASSIC & SHINGLES	Hand Nailing	60mm x 2.8mm, Hot-Dip Galv
	Gun Nailing	60mm x 2.5mm Ring Shank, Hot-dip Galv
	Screws	10g x 60mm Class 3
WEATHERTEX CAVITY FIX: SELFLOK, PRIMELOK, & WEATHERGROOVE	Hand Nailing	60mm x 2.8mm, Hot-Dip Galv
	Gun Nailing	60mm x 2.5mm Ring Shank, Hot-dip Galv
	Screws	10g x 60mm Class 3

FIXING TO STEEL FRAMES[4]		
PRODUCT	**TYPE**	**MINIMUM REQUIRMENTS[2]**
20MM PINE BATTEN + CLASSIC & SHINGLES	Screws	10g x 60mm Self-Drilling Class 3
20MM PINE BATTEN + SELFLOK, PRIMELOK, WEATHERGROOVE & ECOWALL	Gun Nailing	Blue Solutions 2502SG - 50mm Flat Head "Gripshank" Nails PT2000
	Screws	10g x 50mm Self-Drilling Class 3
12MM POLYSTYRENE + CLASSIC & SHINGLES	Gun Nailing	Blue Solutions 2502SG - 50mm Flat Head "Gripshank" Nails PT2000
	Screws	10g x 50mm Self-Drilling Class 3
12MM POLYSTYRENE + SELFLOK, PRIMELOK, WEATHERGROOVE & ECOWALL	Gun Nailing	Blue Solutions 2359N - 38mm Flat Head "Gripshank" Nails
	Screws	10g x 40mm Self-Drilling Class 3

Notes:

1. *Hardwood frames may omit the ring shank requirement for nail fasteners.*
2. *Minimum requirements for fasteners must be met for performance and wind zone classifications to be applicable. Where specific fasteners are listed in the table, only the specified fasteners may be used in this case. Nails MUST NOT be overdriven. This can reduce the holding capacity of the Weathertex.*
3. *Wind zone classifications for Bradnails differ from flat head gun nails. See wind zone classification table for further information.*
4. *Steel frame may be at minimum 0.55mm BMT. Recommended fasteners may not be applicable for steel greater than 1.2mm BMT. See section on steel frame installation.*
5. *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.*
6. *Drive fixings flush with the plank surface. No punching is permitted. Screws may be driven up to 2mm below the plank surface. Fill holes with a high quality proprietary grade, acrylic-based flexible paintable filler.*
7. *If using a smart-bit style countersinking tool; the gauge of the screw must match the gauge of the tool to prevent movement issues.*
8. *Bradnails are not suitable for use with Primelok products of Semi-concealed fixing and Selflok products.*
9. *Bradnails are not recommended for use on Smooth profiles as the T head may create an undesirable surface finish. Bradnails are an excellent choice for use with Woodsman and Ruff-Sawn profiles.*

High Wind Areas

Weathertex direct fixing system has been subject to simulated wind suction forces at the Cyclone Testing Station, James Cook University, Townsville QLD, and in our own laboratory. When fixed as specified to timber or steel frames the Weathertex profiles are suitable for use as shown.

FRAME	PRODUCT			HIGHEST WIND CLASSIFICATION				
					REGIONS A & B		REGIONS C & D	
		Fastener	Fixing	Stud Centres(mm)	Unlined Wall	Internally Lined	Unlined Wall	Internally Lined
WEATHERTEX WEATHERBOARDS								
Timber	200mm Classic, Rusticated	Weathertex Nails	Traditional	450	N5	N5	C2	C3
				600	N4	N4	C1	C2
	Selflok Weatherboards	Weathertex Nails	Traditional	450	N5	N5	C2	C3
				600	N4	N4	C1	C2
		ND50 Brad Nails	Traditional	450	N4	N5	N/A	C2
				600	N4	N4	N/A	C1
		DUO D31150	Traditional	450	N6	N6	N/A	N/A
				600	N6	N6	N/A	N/A
			Semi-concelaed	450	N4	N5	N/A	C2
				600	N4	N5	N/A	N/A
	Wall Shingles	Weathertex Nails	Traditional	450	N5	N5	C2	C3
				600	N2	N2	N/A	N/A
0.55mm Steel	Selflok Weatherboards			450				
				600				
0.75mm Steel	Selflok Weatherboards			450				
				600				
WEATHERTEX PRIMELOK WEATHERBOARDS								
Timber	Federation and Shadowood	Weathertex Nails	Traditional	450	N5	N5	C2	C3
				600	N4	N4	C1	C2
	Primelok 200	Weathertex Nails	Traditional	450	N4	N4	C1	C2
				600	N2	N3	N/A	C1
0.55mm Steel				450				
				600				
0.75mm Steel	Federation and Shadowood	FAP32V5	Traditional	450	N4	N4	C1	C2
	Primelok 200	FAP32V5	Traditional	450	N3	N4	C1	C2
1.2mm Steel	Primelok 200	FAP32V5	Traditional	450	N4	N5	C2	C3
WEATHERTEX ARCHITECTURAL PANELS								
Timber	Architectural Panels - Joined ON stud	Weathertex Nails	Traditional	450	N5	N5	C2	C3
				600	N3	N4	N/A	C2
		ND50 Brad Nails	Taditional	450	N3	N3	N/A	C1
				600	N2	N2	N/A	N/A
	Weathergroove - Joined OFF stud	Weathertex Nails	Traditional	450	N4	N4	C1	C2
				600	N2	N3	N/A	C1
		ND50 Brad Nails	Traditional	450	N3	N4	N/A	C2
				600	N2	N3	N/A	C1
0.55mm Steel		FAP32V5	Traditional	450				
0.75mm Steel	Architectural Panels - Joined ON stud	FAP32V5	Traditional	450	N4	N5	N/A	C2
	Weathergroove - Joined OFF stud	FAP32V5	Traditional	450	N4	N5	N/A	C2
1mm Steel	Architectural Panels - Joined ON stud	DUO D31150	Traditional	450	N6	N6	N/A	N/A
				600	N6	N6	N/A	N/A

NOTES:

1. *Wind classifications are as defined in AS4055 "Wind Loads for Housing" and calculations use a local pressure factor for planks within 1200mm of the building corner.*
2. *Tests results have been conducted using the specific fastener stated in the table*
3. *Wind classicification results are applicable for direct and cavity fix where fastener length is increased for the thickness for the packing materials.*

Weathertex on Steel Frames

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

Fasteners

Appropriate fasteners must be used when installing onto steel frames. See the Fasteners Section and High Wind Area 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.

Thermal Breaks

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 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 Weatherboards, thermal break battens must be installed on to all studs. When installing Weathertex Sheets or Architectural Panels, thermal break battens must be installed onto all studs and noggings. Butt-join the stud battens leaving a 5mm gap while also leaving 20mm gaps between nogging battens.

Weathertex recommends the following two options as suitable thermal breaks:

Softwood Timber Battens

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 breather membrane must be installed between the steel 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. 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

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.

A breather 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, before the battens and the Weathertex are installed

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.

Cavity Closer

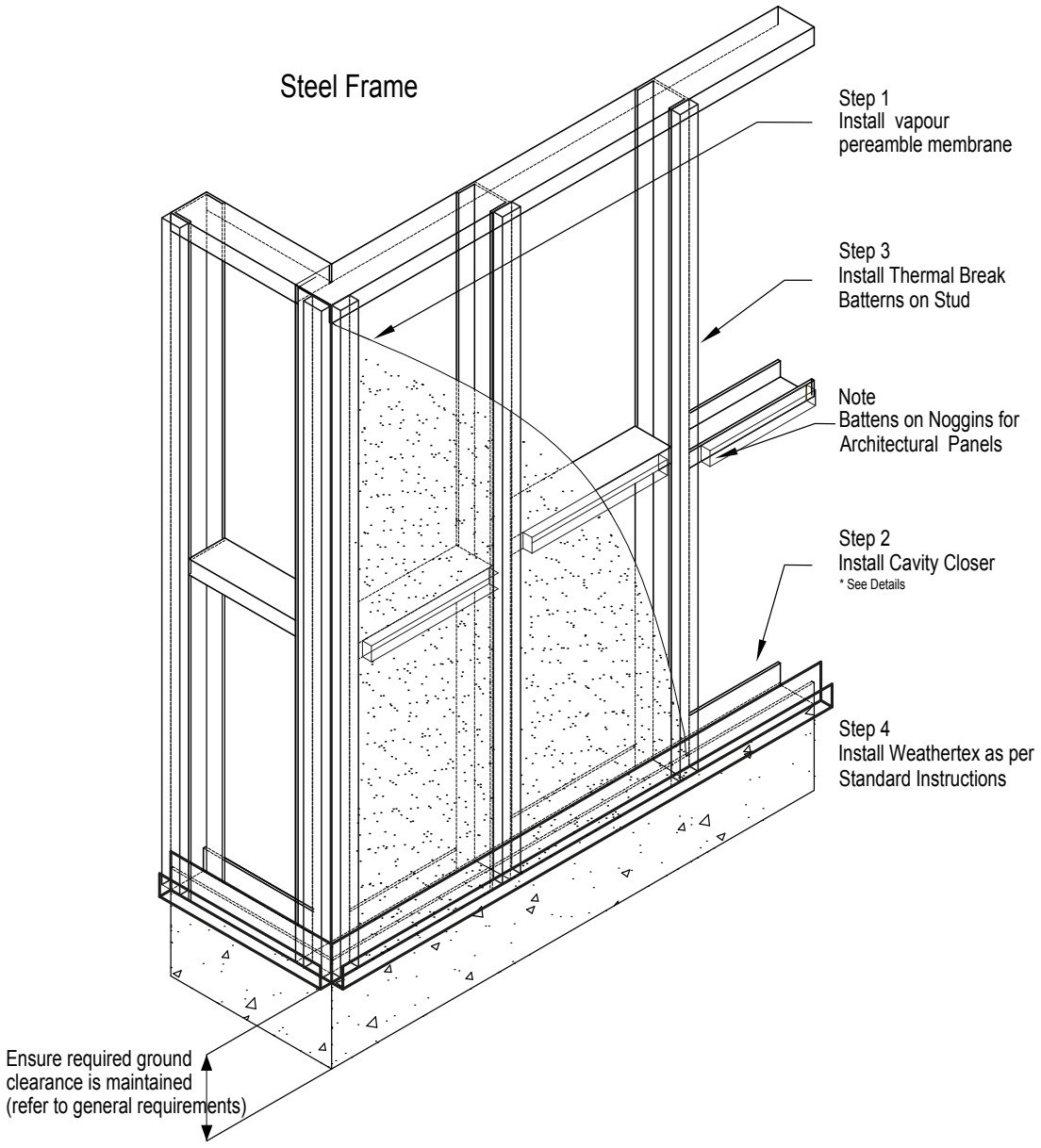
To protect against vermin and other material entering the cavity, the base of the cavity must be sealed using the Weathertex Large or Small Cavity Closer. A cavity closer must be installed at the base of the wall and above window heads and inter-storey flashings. The bottom of each batten is inserted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

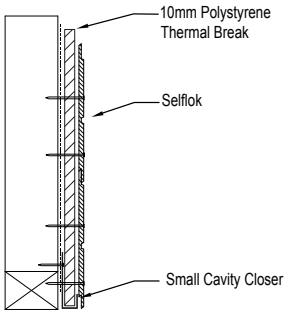
- Use 20mm Large Cavity Closer when using 20mm softwood timber thermal break battens (Applicable for all products)
- Use 20mm Large Cavity Closer when using polystyrene thermal break strips (Option for Primelok and Classic products only)
- Use 10mm Small Cavity Closer when using polystyrene thermal break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

Fix the cavity closer to the base plate at 300mm centres. Butt-join cavity closers 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.

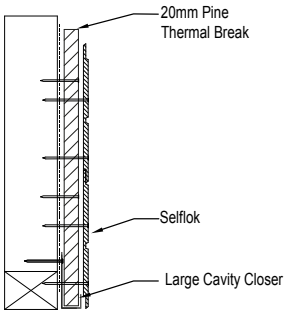
Installing Your Weathertex on a steel frame system

Once the wall has been battened out, Weathertex's product specific standard fixing instructions shall be followed to install the cladding on to the frame. In the case of installing Weathertex Primelok Weatherboards, this includes fixing a Weathertex Primelok Starter strip. The bottom edge of the starter strip must not be above the bottom edge of the cavity closer.

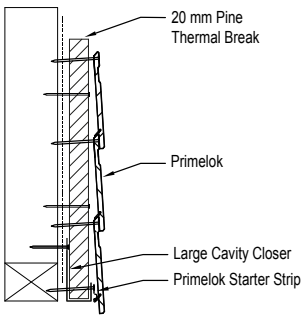




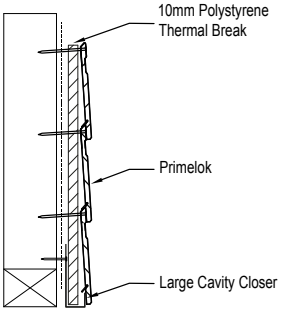
10 Polystyrene
Thermal Break Selflok



20mm Pine
Thermal Break Selflok



20mm Pine
Thermal Break Primelok



10 Polystyrene Thermal
Break Primelok

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.

Preparation

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

Vapour permeable 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.

Cavity Battens

Cavity battens provide the separation between the vapour permeable membrane on the wall frame and the cladding. Weathertex provides and recommends the use of Weathertex Cavity Battens which are 1200 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 by the batten depth.

When installing Weathertex Weatherboards cavity battens must be installed onto all studs. When installing Weathertex weatherboards or Architectural Panels, cavity battens must be installed onto all studs and noggings. Cavity battens must be fastened to framework at a minimum of 600mm centres. Butt-join the stud battens leaving a 5mm gap while also leaving 20mm gaps between nogging battens to allow for drainage of any moisture.

Cavity Closer

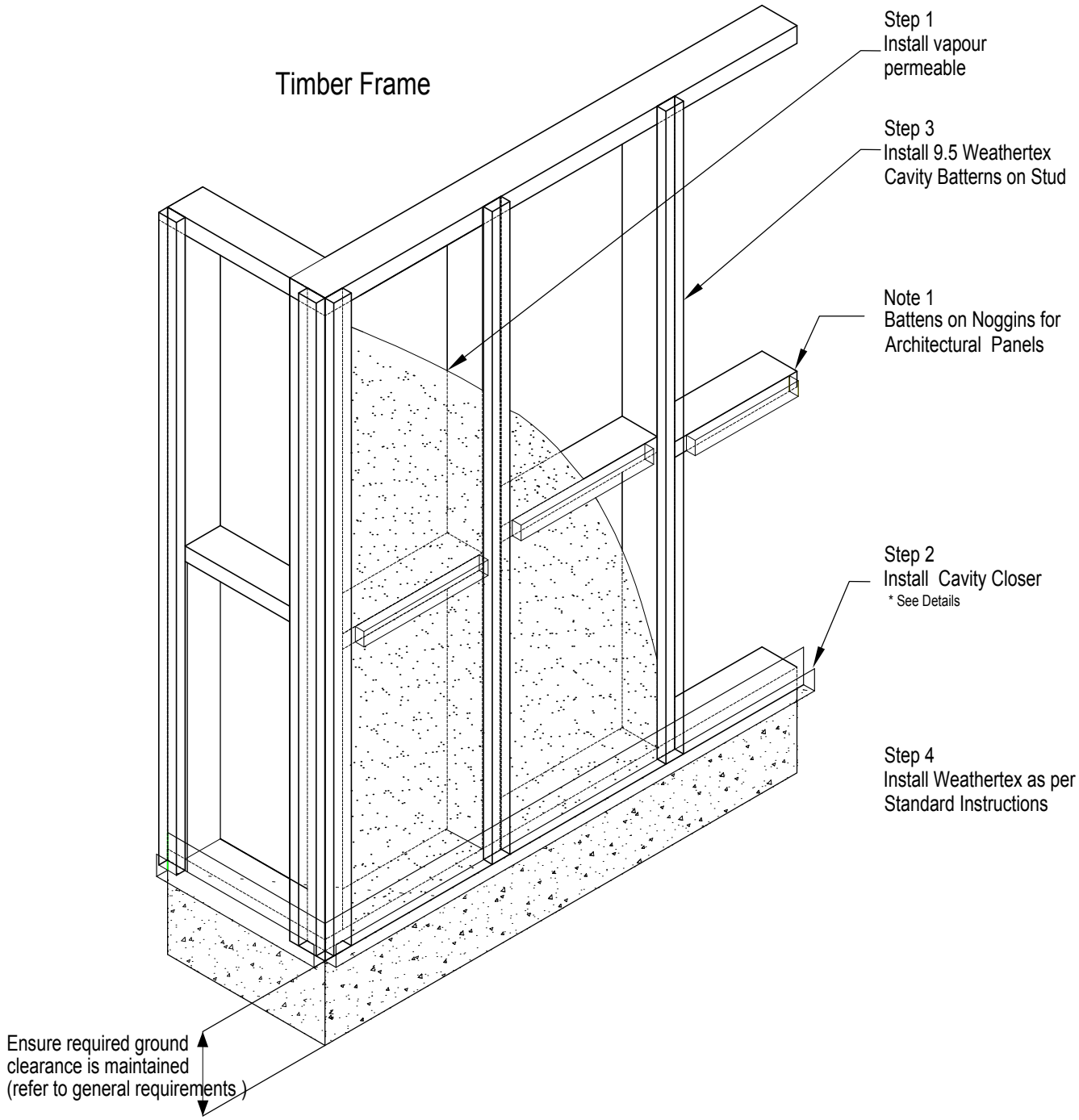
To protect against vermin and other material entering the cavity, the base of the cavity must be sealed using the Weathertex Large or Small Cavity Closer. Designed not to interrupt airflow in the cavity, a cavity closer must be installed at the base of the wall, above window heads, inter-storey flashings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

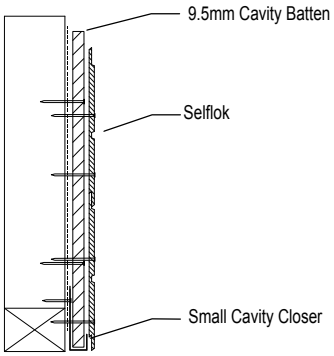
- Use 20mm Large Cavity Closer for: Classic and Primelok Weatherboards
- Use 10mm Small Cavity Closer for Selflok Weatherboards, Weathergroove

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 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 of the cavity.

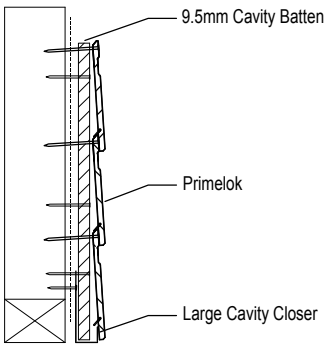
Installing your Weathertex on the Cavity System

Once the wall has been battened out, Weathertex's product specific standard fixing instructions shall be followed to install the cladding on to the frame. In the case of installing Weathertex Primelok Weatherboards, the Weathertex Primelok Starter strip can be omitted as the lip of the Large Cavity Closer may be used for laying the first plank.





9.5mm Cavity Batten
Selflok



9.5mm Cavity Batten
Primelok

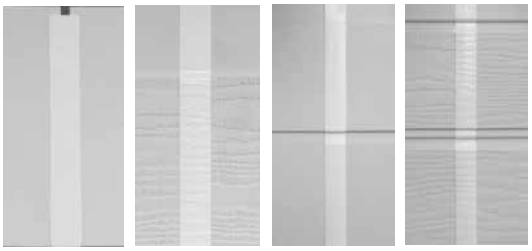
Joining Details - ALL WEATHERBOARDS

As a natural timber product, Weathertex inherently expands and contracts with changes to its moisture content. To accommodate this movement, Weathertex's traditional joiners have been designed to provide the correct spacing between adjoining planks, and cover changes in dimensions of the product.

Any cut ends must be primed with a solvent based exterior wood primer or an acrylic tannin resistant wood primer.

NOTE: Avoid penetrating PVC joiners with fixings during the installation process. This may cause the joiner to crack after the installation. Where necessary predrill the fixing position through the joiner prior to fixing. Also avoid positioning fixings directly opposite each other across a join as this too may cause joiner damage after installation.

Using traditional joiners



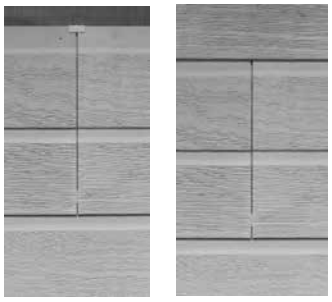
Form joins between Weatherboard ends using the relevant joiners for the selected profile - refer to the Accessories Section. Stagger joins randomly throughout the wall with joins being formed midway between the studs. When fitting the joiner, bring the ends into moderate contact with the splayed edges or nibs within the joiner. Do not force ends tightly together. Simply cut joiners to fit at window heads, sills and eaves as required.

Notes:

1) On the first row of Weathertex Rusticated remove leg gauge from the back of the joiner

2) To fit joiners to cut ends of Primelok Weatherboards it is necessary to trim back the plastic spline

Using Concealed Joiners



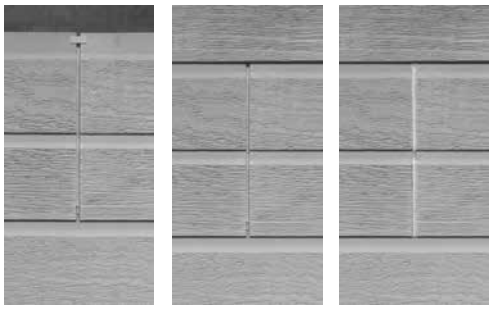
Weathertex also provides concealed joiners. Concealed joiners have been designed with a gap that will accommodate most changes in the dimensions of the product. The joiner is flashed on the rear of the Weathertex product to prevent water penetrating into the cavity.

There are two installation options when using concealed joiners:

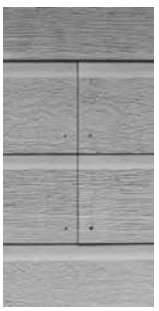
Option A – No Sealant:

1. Remove the spacing nibs from inside the joiner
2. Insert the primed end of the Weatherboard into the concealed joiner, resting the bottom edge on the base and locking into position under the top flange.
3. Insert the primed end of the next Weatherboard into the other side of the joiner and using a spacer, leave a 2-3mm gap between the board ends.
4. DO NOT fill the join with sealant. This will provide the best performance in cases of both expansion and contraction of the natural timber whilst maintaining a neat and discrete finish for the control join.

Option B - Using Sealant



1. Insert the primed end of the Weatherboard into the concealed joiner, resting the bottom edge on the base and locking into position under the top flange. The edge of the Weatherboard should be in moderate contact with the centre nibs within the joiner. Do not force ends tightly together. The top flange will be hidden by the overlap of the board.
2. Insert the primed end of the next Weatherboard into the other side of the joiner against the centre nibs. A 6mm gap will be left when both ends are in contact with the centre nibs.
3. Fasten the Weatherboard to the wall at each stud in accordance with product requirements. Ensure nails do not pass through joiner.
4. Using a caulking gun, run a line of quality, highly flexible, paintable polyurethane sealant up the length of the concealed joiner. Always follow the sealant manufacturer's application instructions.

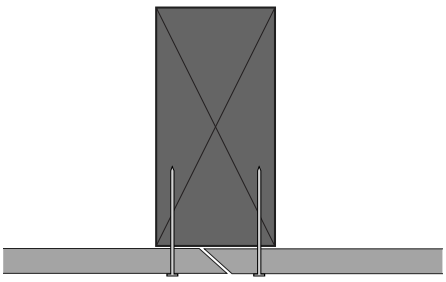


NOTE: *When using sealant, movement in the planks may result in visible bulging or concaving of the sealant. In some cases, such as where extreme changes in moisture have occurred, the sealant may pull away from the board leaving a crack between the sealant and the board. This movement will not affect the performance or water tightness of the join, though it may be aesthetically displeasing. If this would cause an issue, Weathertex recommends the use of the traditional joiner.*

Butt-Joining On-stud

Bring primed ends into contact leaving a 1-2mm gap, creating a control join, and fasten both ends to the stud. Movement of Weatherboards due to moisture changes may cause butt-joins to open up after installation, particularly on longer wall lengths in full sun. Weathertex recommends using the traditional joining system for wall lengths greater than 5.5m if this could present aesthetic issues.

Alternative Joining Options for Selflok Products



Selflok Weatherboards may also be mitred at 45° and joined on stud.

Butt joins may be lined up vertically on stud and capped by a (45mm min.) timber batten, 6mm minimum control gap, and Alcor back flashing with sealant

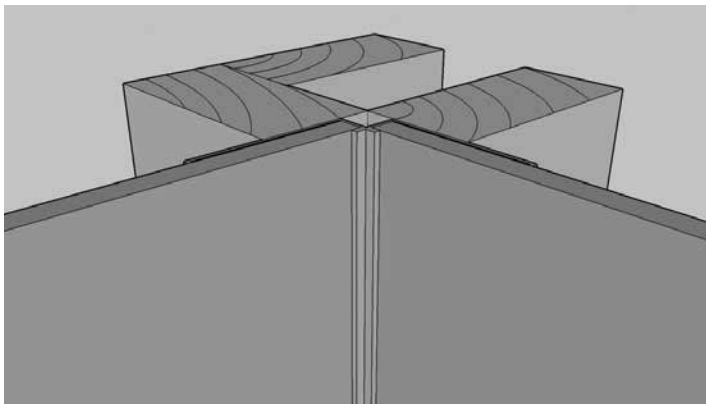
Trimtec Long Vertical Aluminium Joiner may also be used vertically.

Corner Treatments for All Products

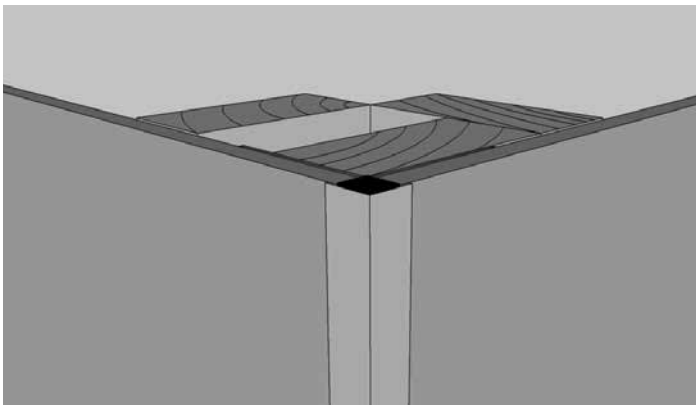
Trimtec Aluminium Accessories suit both Weathertex Weatherboards and Architectural Panel products and are designed to give a stylish, modern aesthetically pleasing result to your next project. Trimtec Accessories are made from versatile, lightweight anodised aluminium and can be used vertically at any junction, giving you the contemporary finish of straight lines. Refer to Accessories section at the front of this guide.

Internal and external corners, end stops and window surrounds can be fixed with hot dipped galvanised flat head nails and then permanently fixed by the Weathertex fasteners specified for each profile penetrating the flashing wings.

Aluminium, like all metals, is subject to thermal expansion and contraction. As a guide it is recognised that aluminium moves by as much as 0.1% of its length over a temperature change of 30 degrees Celsius. For this reason it is recommended that expansion gaps be used when working over lengths of greater than 6 metres. This also applies for ends which are to be brought to a rigid stop.



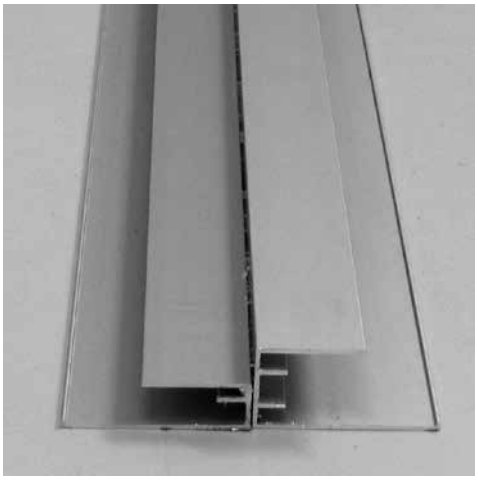
Aluminium Internal Corner



Aluminium External Corner

Trimtec Small and Large Window Surrounds / End-Stops may be butted together and used to transition between flat and lapped products.

Similarly Trimtec aluminium accessories may be used to transition between a Weathertex wall and other cladding systems or masonry walls. A bead of sealant should be used between the butt join.



INSTALLATION METHODS

The following product specific installation instructions are applicable to steel and timber frames for both direct fix and cavity systems. Fixing instructions are to be used in conjunction with information and requirements given in previous sections. Preparation for cavity fix and steel frame installation are given in previous sections. Additional drawing details are located on the Weathertex website (www.weathertex.com.au).

Installation OF CLASSIC WEATHERBOARDS

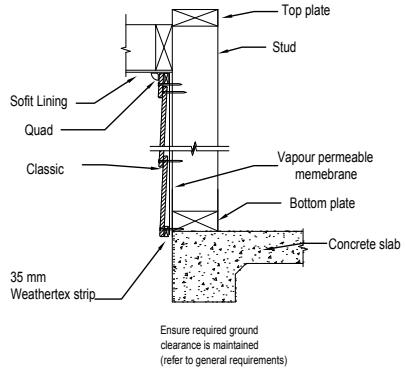
Set a horizontal datum or base line around the perimeter of the building. Measure the wall height from the datum and determine the number of Weatherboard rows. Minimum overlaps are 20mm for classic and 25mm for rusticated planks.

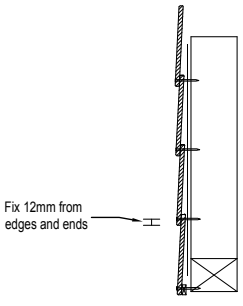
First Row: Fix a 35mm x 9.5mm strip of Weathertex Weatherboard 5mm up from the datum. Level the bottom edge of the Weatherboard with the datum line. Fasten the bottom edge through the Weathertex strip into the timber framing. Fit joiners as work proceeds.

Successive Rows: Use the storey rod, lap gauge or Joiner to position Weatherboards and maintain uniform rows. Check rows for level. At laps, fasten through both Weatherboards into the stud. One fastener per stud, located at least 12mm from edges and ends.

Drive fixings flush with the plank surface. No punching is permitted. Screws may be driven up to 2mm below the plank surface. Fill holes with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used.

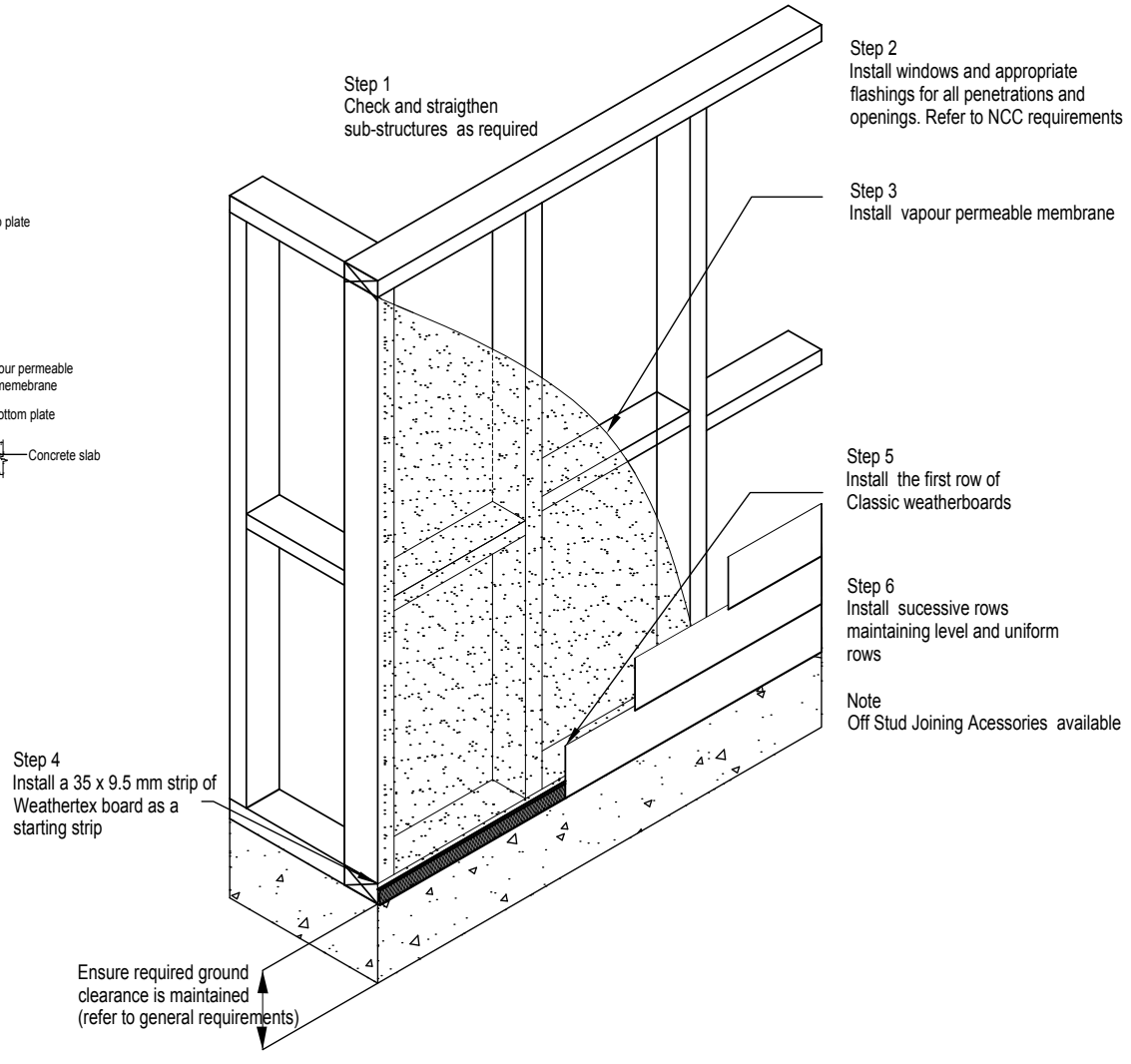
NOTE: *Primelok weatherboards should not be fixed in this manner - see installation of Primelok weatherboards*





Traditional Fix

Classic



Installation PRIMELOK WEATHERBOARDS

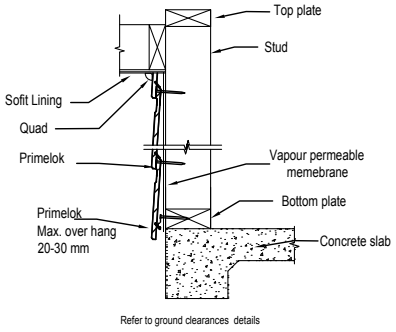
Set a horizontal datum or base line around the perimeter of the building. Fix the Weathertex Primelok Starter Strips to the frame butt joining successive lengths so that the bottom edge of the strips are level with datum for the full length of the wall. When installing on a Weathertex Cavity System, the Large Cavity Closer is used as a starter strip instead of the Primelok Starter Strip.

First Row: Position the first Weatherboard so that the spline locks over the starter strip. Press the Weatherboard down into the strip and fasten along the top edge of the board to every stud. Keep fasteners 15mm from the top edge so that they will be hidden by the overlapping board above and fit joiners as work proceeds. To fit joiners to cut ends, trim back the spline on the back of the Weatherboard using a hacksaw or sharp knife.

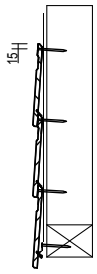
Successive Rows: Simply position each Weatherboard so that the spline locks over the splayed top edge on the preceding row. Commence fixing at one end of the Weatherboard pressing down to fully engage the boards and fix along the top edge at every stud. Alternatively, start midway along the Weatherboard and work outwards towards the ends. Keep fasteners 15mm down from the top edge so that they will be hidden by the overlapping Weatherboard and check rows for level.

Drive fixings flush with the plank surface. No punching is permitted.

NOTE: *Bradnails are not suitable for use with Primelok Products*

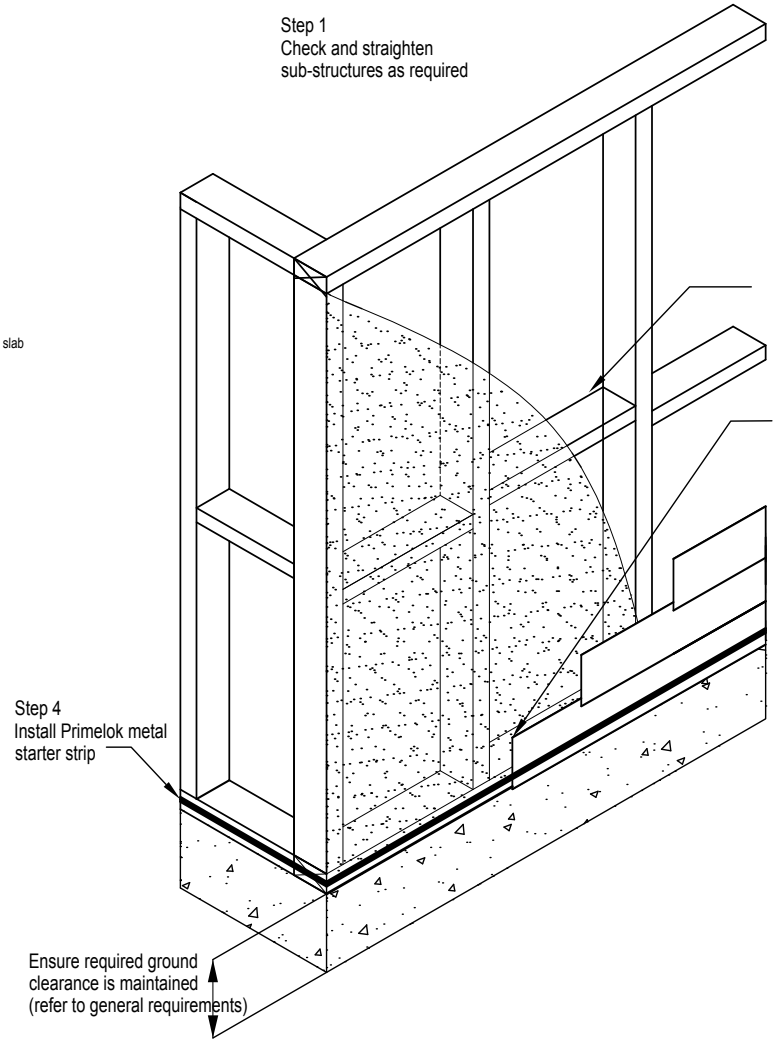


Refer to ground clearances details



Traditional Fix

Primelok



Installation SELFLOK WEATHERBOARDS

NOTE: This section applies to the standard pre-primed Selflok Weatherboards. For Natural Woodsman Selflok products see the Section on the Installation of Natural Woodsman Weatherboard

Traditional Fix

First Row: Set a horizontal datum or base line around the perimeter of the building. Rest the bottom edge of the first row of Weatherboards on datum line. **Note:** for slab construction the plank may overhang the slab surface by 20-30mm. Fasten Weatherboards with two face fasteners at each stud keeping fasteners 12mm minimum from ends, 30mm up from lower Weatherboard edges and approximately 140mm apart. Fit joiners as work proceeds.

Successive Rows: Rest the rebated edge of Selflok Weatherboards on the row below. Ensure there is proper engagement of the Selflok by applying downward pressure while fastening. Fix with two fasteners at each stud keeping fasteners 12mm minimum from ends, 30mm up from lower Weatherboard edges and approximately 140mm apart.

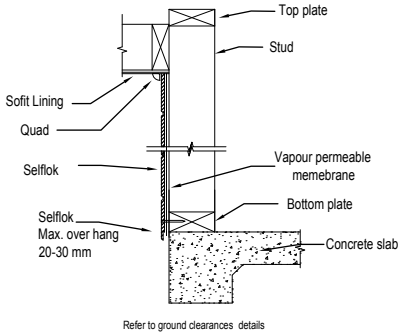
Drive fixings flush with the plank surface. No punching is permitted. Screws may be driven up to 2mm below the plank surface. Fill holes with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used.

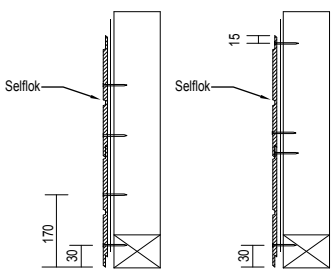


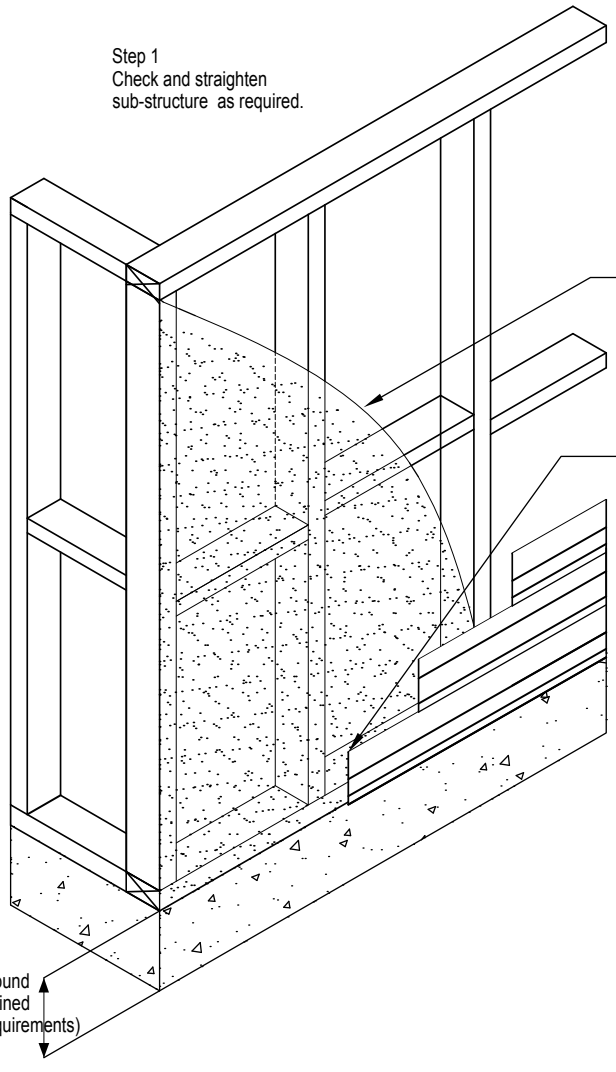

Selflok Semi Concealed Fix

In some Wind Areas (see Sections: Fasteners and High Wind Areas) Selflok Weatherboards can also be fixed with one fixing concealed. In this case, one fixing must be placed 30mm from the bottom edge of the plank and the second placed 15mm below the top edge of the plank. The latter fixing is concealed by the plank above when it is installed. All other factors of installation are according to Traditional Fix instructions above.

Note: *Bradnails may not be used for Semi-Concealed fixing. Semi-concealed fixing is not appropriate for steel frame construction when using nail fasteners.*







Installation OF NATURAL WEATHERBOARDS

The Natural Weatherboard Range must be fixed according to the Traditional Fix instructions above for Selflok Weatherboards. Traditional PVC joiners are not suitable for the Natural Range; Butt-Joining On-stud and "Alternative Joining Options" as detailed in the Joining Section should be used when joining Natural Weatherboard Products depending on the desired finish.




Note: *Natural Products are composed of unsealed natural hardwood timber which may occasionally exhibit tannin bleeding. Consideration must be taken if installing unsealed Weathertex products above porous or light coloured features.*

Installation OF WALL SHINGLES

First Row: Set a horizontal datum line to align the first row. Allow a minimum overlap of 40mm. Fix a 35mm x 9.5mm strip of Weathertex 25mm up from the datum. Level the bottom edge of the board with the datum line. Fasten the bottom edge through the Weathertex strip into the timber framing. Fit Shingle joiners as work proceeds.

Joining: Form joins progressively with 6mm shingle joiners that fit the rebated ends of the board. Do not force ends tightly together. Where possible, locate joins over studs. If joining between studs, fasten each adjoining shingle to at least two studs. Stagger joins throughout the wall.

Successive Rows: Use the storey rod, lap gauge or Joiner to position Weatherboards and maintain uniform rows. Check rows for level. At laps, fasten through both Shingles into the stud. Use one fastener per stud, located at least 12mm from edges and ends.

Drive fixings flush with the plank surface. No punching is permitted. Screws may be driven up to 2mm below the plank surface. Fill holes with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used.




Installation OF WEATHERGROOVE (PRE-PRIMED) PANELS

Preparation

For general framing requirements and construction details refer to sections covered under General Requirements for All Products. The following installation instructions apply whether fixing over the Weathertex Cavity Wall System or choosing to Direct Fix to timber or steel framing.

Stud spacing may be at maximum 600mm centres. If the vertical joins are to be formed off- stud, then sheet edges must be supported with Weathergroove Joiners over noggings at 750mm maximum centres.

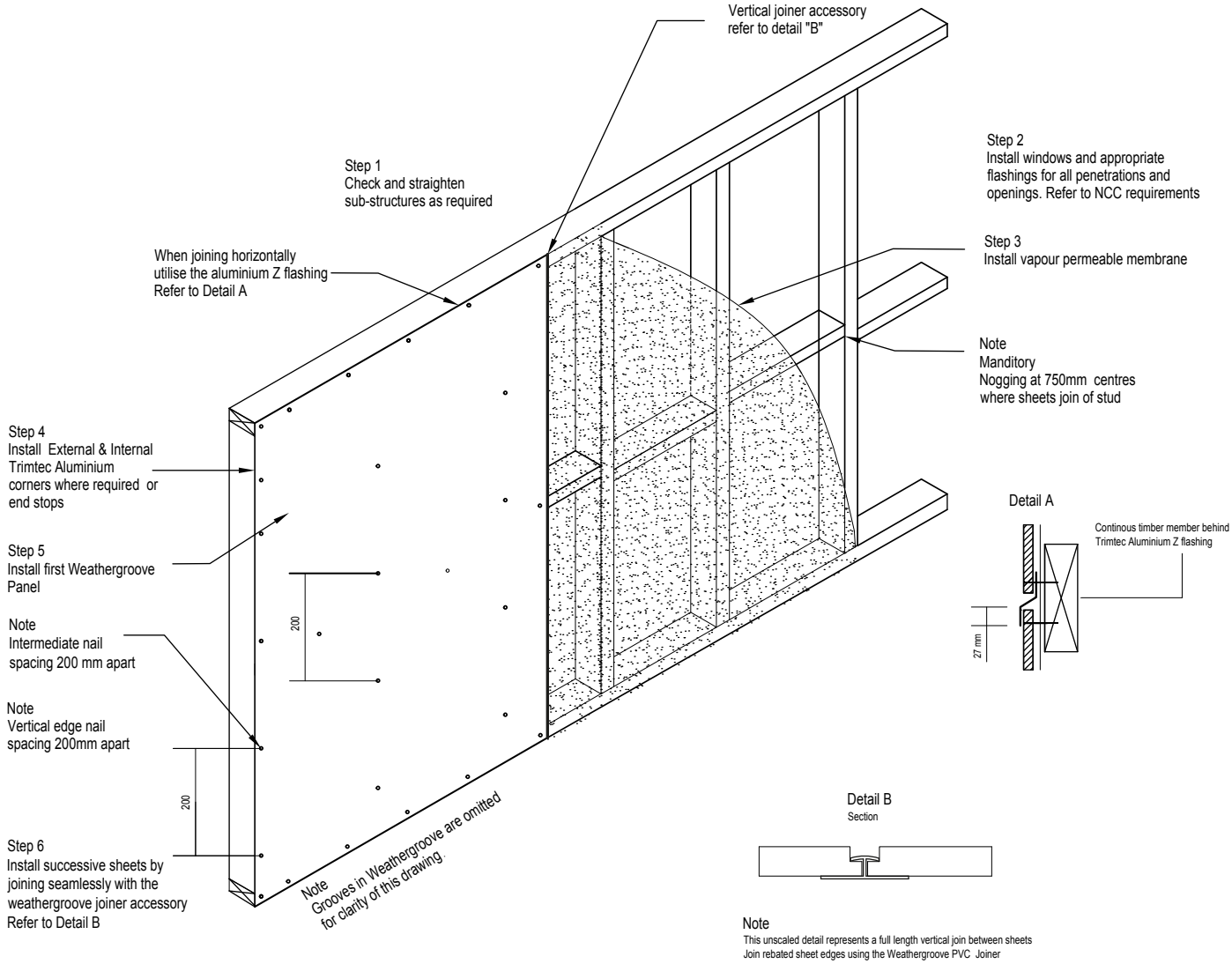
Establish a horizontal datum or base line at least 6mm below the base of the frame. Weathergroove must be installed with grooves in a vertical orientation. Weathertex Selflok Ecogroove planks may be suitable if horizontal grooves are required.

Fixing Detail

Refer to the Fasteners Section in this guide for information on selecting an appropriate fastener.

Use a level to ensure the first Weathergroove Panel is vertical before fixing off. Fixings must be provided at 200mm centres to the studs and plates nearest the edge of the panel, and 200mm centres throughout the centre of the panel to all underlying studs and noggings. Fixing shall be no closer than 12mm from the sheet edges and must not be in the grooves of the sheets.

Drive fixings flush with the sheet surface. No punching is permitted. Screws may be driven up to 2mm below the panel surface. Fill holes with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used.



Vertical Joining

Weathergroove has unique rebated edges and must be formed using the Weathergroove Joiner, refer to the Accessories Section. This joiner will provide the necessary clearance to accommodate movement while providing a seamless join between panels. Where joins occur off-stud the edge of the sheets must be supported by noggings at a maximum of 750mm centres.

Avoid penetrating PVC joiners with fixings during the installation process. This may cause the joiner to crack after the installation. Where necessary pre-drill the fixing position through the joiner prior to fixing. Also avoid positioning fixings directly opposite each other across a join as this too may cause joiner damage after installation.

Horizontal Joining

Horizontal joins must be flashed using the Aluminium Z Flashing, refer to the Accessories Section. All horizontal joins must be supported by double noggings.

Note: *Weathergroove Woodsman shown. Direct fix method shown. In the interest of clarity cavity fixing method and vapour permeable sarking have been omitted.*

Step 1

Step 2

Step 3

Step 4

Installation OF WEATHERGROOVE NATURAL PANELS

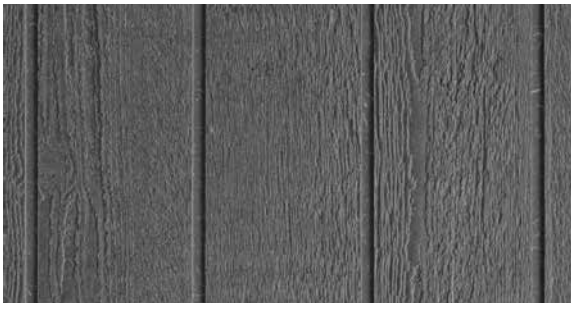
Preparation

For general framing requirements and construction details refer to sections covered under General Requirements for All Products.

PVC joiners are unsuitable for Natural products and Weathergroove Natural can only be butt joined on stud with an Alcor or similar flashing behind. This flashing must be fully supported. This can be achieved by using a double stud (90mm x 35mm) or by turning one standard stud on its side increasing the face size. Once the vapour permeable membrane is in place over the frame, install the Alcor or similar flashing to the double stud areas.

Fixing Detail

Before installing the first Weathergroove Natural sheet run a 5mm bead of silicone along the length of the Alcor to seal edge of the Weathergroove sheet. When fixing the first Weathergroove Natural sheet, use a level to make sure the sheet is vertical before fixing off. Refer to the Fasteners Section in this guide for information on selecting an appropriate fastener.



Fixings must be provided at 200mm centres to the studs and plates nearest the edge of the sheet, and 200mm centres throughout the centre of the sheet to all underlying studs and noggings. Fixing shall be no closer than 12mm from the sheet edges and must not be in the grooves of the sheets. Drive fixings flush with the sheet surface. No punching is permitted. Refer to the fixing details for pre-primed Weathergroove.

Joining

Panels should be installed with a control gap at vertical butt-joins to maintain the standard spacing of the grooves. Horizontal joins must be flashed using the Aluminium Z Flashing or Small Aluminium Z Flashing, refer to the Accessories Section. All horizontal joins must be supported by double noggings. Ensure the Alcor flashing for the vertical join runs under the width of the Z flashing.

Weathergroove as STRUCTURAL BRACING

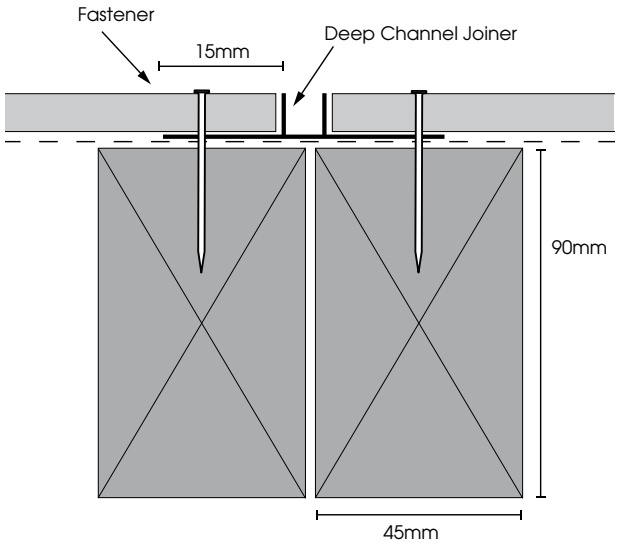
Weathergroove Panel systems have been tested for as structural bracing when direct fixed to timber framing. Data given below can be used for limit state design criteria specified in Australian Standard AS 1684-1999, Residential timber-framed construction. Tie-down fixing and other construction detail must be as specified in AS 1684 for the appropriate wind classification.

JOINING METHOD	NAIL SPACING Top & Bottom Plates (mm)	NAIL SPACING Vertical Sheet Edges (mm)	NAIL SPACING Intermediate Studs & Nogging (mm)	BRACKING CAPACITY (KN/M)	TYPE A BRACING UNITS (PER 1.2M WALL LENGTH)
ON-STUD	150	150	300	4.0	1.6
OFF-STUD	150	N/A	300	1.8	0.7

Installation OF ECOWALL PANELS

EcoWall installation requires the use of the Aluminium Deep Channel Joiner (vertically) and Small Z Flashing (horizontally). The standard Trimtec Z Flashing (instead of small Z Flashing) should be used where relevant between stories to allow for frame settling and floor compression. The following installation instructions must be followed:

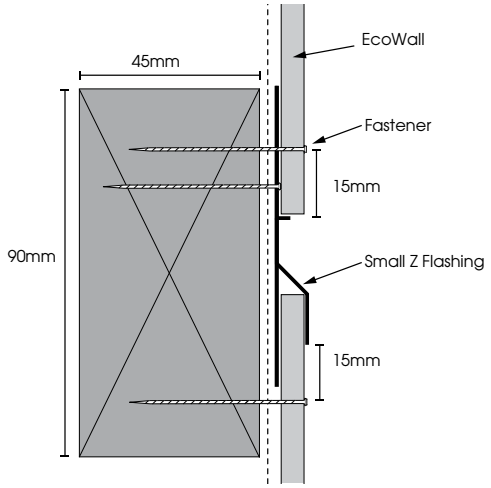
Step 1 - Deep Channel Joiner



Alternate Design: Trimtec Long Vertical Aluminium Joiner may be used vertically instead of the Deep Channel Joiner

1. The stud frame must be arranged so that all edges of the EcoWall Panel are supported on double studs and double noggings (or rotated 90mm nogging). The Deep Channel Joiner is to be centred on the double studs and Small Z Flashing will allign with the top edge of the rotated noggings.
2. **Any cut ends of Weathertex must be primed with a solvent-based exterior wood primer or an acrylic tannin resistant wood primer.**
3. Starting at a corner, install the first EcoWall Panel ensuring that vertical edge is level. Slide the Deep Channel Joiner into place. Deep Channel Joiners should run continously over the height of the wall leaving a 2mm control joint when butting full lengths together.
4. Continue to install the first row of panels in this manner.

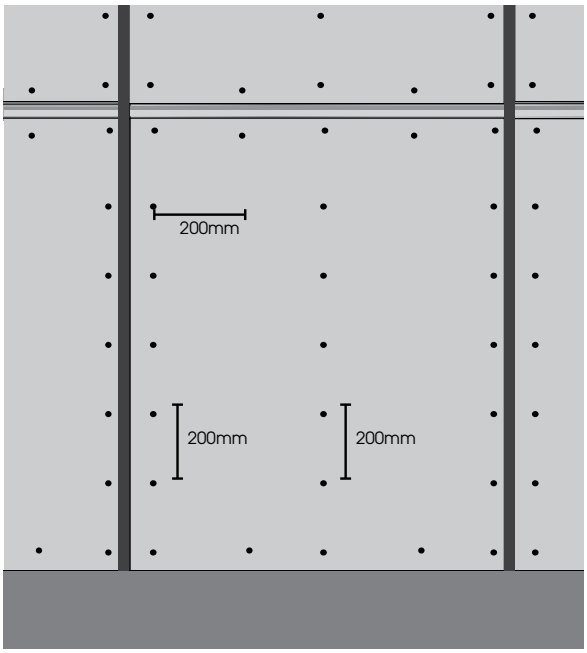
Step 5 - Small Z Flashing



Alternate Design: Z flashing may run continuous horizontally with deep channel joiners cut back to the panel heights

5. Cut lengths of the Small Z Flashing to fit across the top edge of each panel between vertical joins. Slide Small Z Flashing into place over the top edge of the panel and level. Small Z Flashings should loosly butt into the deep channel joiner at both ends to prevent deformation with expansion. Fasten the Small Z Flashing with a flat head nail to secure it to the nogging. Check alignment and level of Small Z Flashing across the wall as installation progresses.
6. The next row of panels can be easily positioned on the raised alignment nib of the Small Z Flashing. Always ensure vertical edges are level as any tolerances can be taken up by the Small Z Flashing.

Step 7 - 200mm Fastened



7. Once all panels are in place, each panel must be fastened off at 200mm perimeter spacings and 200mm centers down all intermediate studs and noggings.
8. For best results use counter sunk screws and fill with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used. Refer to manufacturers requirements for filler application.

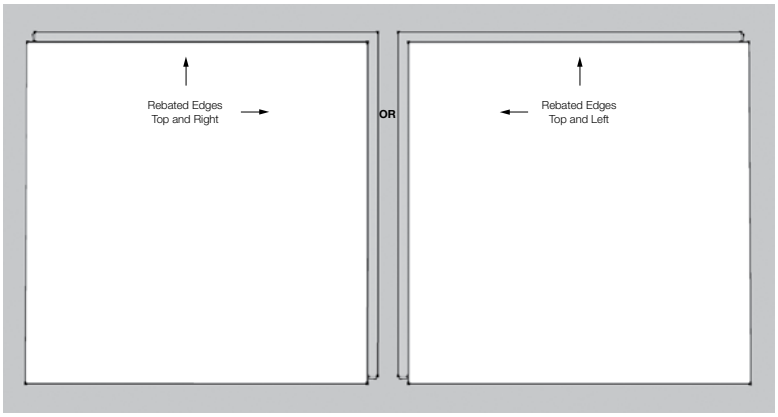
Note: *Deep Channel Joiners may become permanently deformed if allowed to bend. Store in a flat, sheltered position to protect the channel ribs*

Installation OF RUBIX PANELS

Preparation

For general framing requirements and construction details refer to sections covered under General Requirements for All Products. Rubix Panels have a self-locking profile and do not require any joining accessories. Panels can be joined on or off-stud with stud spacing at maximum 600mm centres. Noggings must be provided at maximum 750mm centres.

Rubix Panels must be installed on a Cavity System. See Weathertex Cavity Wall System or Weathertex on Steel Frames Sections for preparation instructions prior to using the following installation instructions.

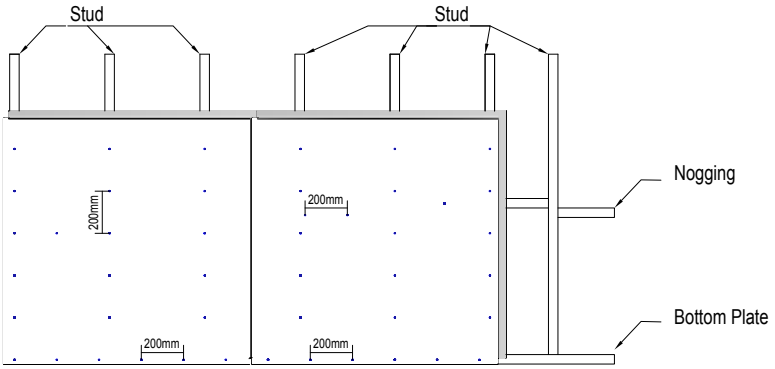


Establish a horizontal datum line where, as a minimum, the bottom edge of the sheet overhangs the bottom plate by 20mm. Plan sheet layout with the rebated faces either:

A) at the top and the right of each sheet, or

B) at the top and left of each sheet

The sheets must be oriented to ensure the upper sheets always overlap the face of the sheets below. Once the sheet orientation is chosen for the first panel, all sheets must be oriented in the same direction.



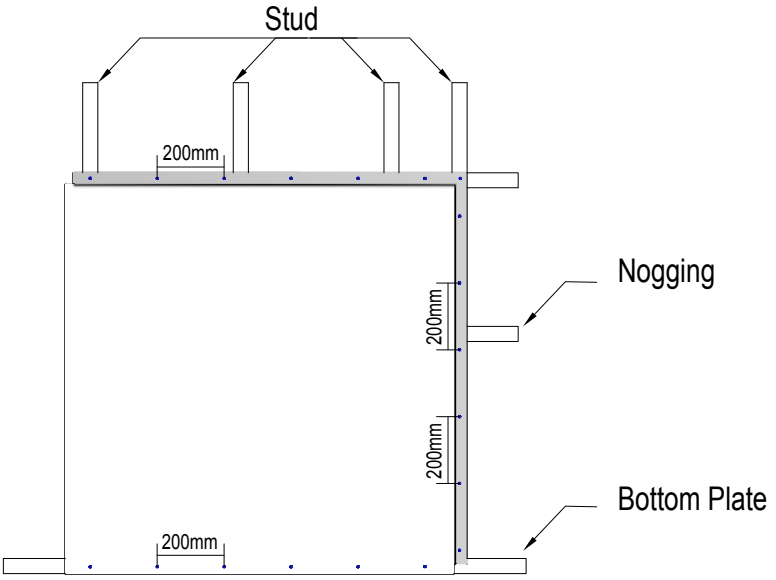
Fixing Detail for External Installation

Refer to the Fasteners Section in this guide for information on selecting an appropriate fastener.

Fixings must be provided at 200mm centres to the studs and plates nearest the edge of the sheet, and 200mm centres throughout the centre of the sheet to all underlying studs and noggings.

Fixings must not lie within 38mm of the bottom and left edges of the sheet, and 46mm from the top and right sides of the sheet. If sheet is oriented differently, fixing positions must be adjusted accordingly.

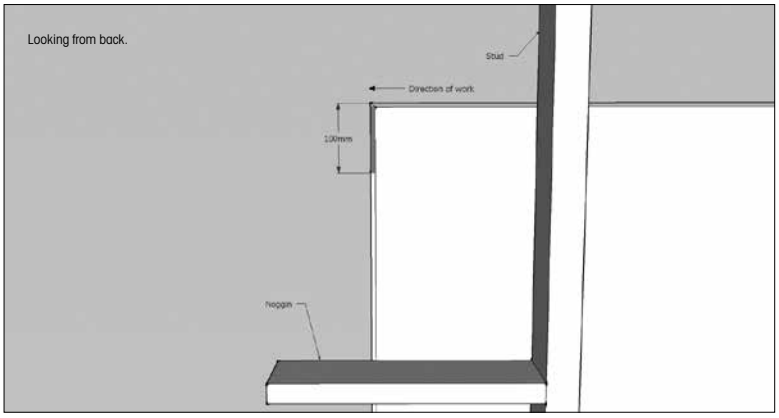
For best results use counter sunk screws and fill with Polyfiller Large Cracks or equivalent flexible, paintable timber filler. Solvent based or two-part fillers such as epoxy are not suitable and cannot be used. Refer to manufacturers requirements for filler application.



Fixing Detail for Concealed Fix (Internal Installation only)

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.

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.



First Row

Position first board at the corner on the datum and fix according to the relevant fixing detail above. Note: Starting position may be altered or the first board trimmed to maintain symmetry across a wall or align grooves to a specific feature. Run a 5-7mm bead of a good quality, exterior-grade, flexible polyurethane sealant along the back rebated vertical edge of the first sheet for 100mm down the leading edge of the panel from the top, outermost corner.

Bring second panel into place and ensure the Self-locking edges of the two panels fully engage. Secure each sheet as per the above fixing detail repeating for all first row sheets. Trim the last sheet to length as required.

NOTE: *When two rows of Rubix panels meet a corner or junction with another product, a small gap may be created at the edge of the Rubix Panels where the top and bottom rows overlap. This gap should be filled with a high quality, 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.*

Second Row

Starting from the same side of the wall as the bottom row, run a 5-7mm bead of a good quality, exterior-grade, flexible polyurethane sealant along the back rebated edge of the first sheet for 100mm either side of the join where two sheets below meet. This row of sealant is essential to the installation and must be maintained throughout the life of the product to prevent water ingress.

Position the first board of the second row at the corner on top of the board below ensuring the Self-locking edge fully engages. The bottom edge of the second row of Rubix Panels will overhang the top edge of the first row. Fix as per fixing instructions for the first row of panels.

Repeat for the subsequent panels of the second row fix as per the first row and sealing horizontally as above and vertically as for the first row.

MANUFACTURER'S WARRANTY

1. Weathertex Pty Ltd A.B.N 67 084 713 986 ("Weathertex") warants 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 Weathertex 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** - Weathertex 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 Weathertex's current published materials.

   Pre Primed EcoWall and Rubix Panel - Weathertex 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 Weathertex's current published materials.

   Pre Primed Board - Weathertex 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 Weathertex's current published materials.

3. A reference to Products in these warranty terms and conditions does not include accessory products listed "Accessories" in the Weathertex Price List ("Accessory Products"). Weathertex 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 Weathertex 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 Weathertex 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. Weathertex 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 Weathertex (including the published Weathertex 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 Weathertex may give or any subsequent request as to a modification of the Products which Weathertex 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 Weathertex;

   (e) the Products are not maintained, prepared or installed by authorised installation contractors in circumstances where Weathertex 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 Weathertex.

7. Further to clause 6 and without limiting clause 6, Weathertex 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, Weathertex 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 Weathertex will be limited to either of the following (where possible) as chosen by Weathertex:

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

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

10. Should the Purchaser's warranty claim made under clause 3 be valid, then the remedy provided by Weathertex will be limited to Weathertex replacing the Accessory Products provided the claim is accepted by Weathertex and subject to such replacement Accessory Products being available in the manufacturing inventory at the time the claim is accepted by Weathertex. Otherwise, Weathertex 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, Weathertex 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 Weathertex in its sole discretion).

DISCLAIMER

16. Recommendations made by Weathertex 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 Weathertex, Weathertex 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 Weathertex products purchased and installed according to the Weathertex Installation Guide in Australia, New Zealand and the Weathertex 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 Weathertex 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 Weathertex 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 Weathertex by post, fax or via e-mail as follows:

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

20. Weathertex will respond to all warranty claims. This response may include an inspection by a Weathertex 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 Weathertex.

As of 1st March 2017

Weathergroove 150 Natural,

weathertex

timber made perfect, naturally

weathertex.com.au Ph: 1800 040 080 Fax: 1800 647 926

GREENTAG CERTIFIED PLUS GreenRate|Level A trust brands

PEFC PEFC/21-31-09

Quality System Quality Endorsed Company ISO 9001 Lic Mbr SAI Global

TOP TRUSTED ARCHITECTURE AND DESIGN 1st BRAND 2016

GUARANTEED 25 YEAR NOT TO SPLIT, CRACK OR ROT

BETTER THAN ZERO CARBON FOOTPRINT

NO CHEMICAL ADDITIVES

AUSTRALIAN 100% MADE & OWNED

TESTED & PROVEN 50 OVER 50 YEARS

AUSTRALIAN HARDWOOD

* Refer to the Weathertex Manufacturer's Warranty Conditions

Weathertex® is made in Australia by Weathertex Pty Ltd ABN 67 084 713 986
PO Box 21, Raymond Terrace NSW 2324