

Vulcan Cladding



Overview

Vulcan Cladding is created from thermally modified New Zealand plantation timber and engineered with a patented vertical grain construction for superior weathering characteristics. A fine sawn face allows a depth of grain, and optimal coating performance.

The thermal modification process and vertical grain structure means Vulcan Cladding has enhanced stability, reduced resin content, is a beautiful homogeneous brown colour.

Available in a range of architectural profiles and can be supplied factory coated with Abodo Protector Oil – Abodo's high performance penetrating exterior oil.

Wood species: Thermally Modified Radiata Pine (Pinus Radiata).

Standard profiles:



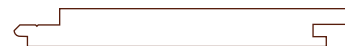
WB10 145x20
(125mm cover) Vertical/Horizontal



WB10 180x20
(160mm cover) Vertical/Horizontal



WB12 138x20
(118mm cover) Vertical



WB12 180x20
(160mm cover) Vertical



WB12 90x40
(70mm cover) Vertical



Finesline WB12F 180x20
(160mm cover) Vertical



WB12 90x60
(70mm cover) Vertical

Lengths:

2.4 - 6.0m*

*Specified fixed lengths may be available but are subject to conditions including minimum quantity, price premium and availability. Please check with distributor prior to placement of order.

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Colours:

Colours presented are in Protector – Water Borne and are indicative only. Colour may change/fade as a part of the natural weathering process.



* Sioox is a specialist 2 part exterior coating system for a long term silver weathered look. For Vulcan Charred finish please refer to separate Technical Data Sheet.

Product specifications

Name:	Abodo Vulcan Cladding.
Quality:	Select Grade /Front face and edges virtually free of any defects but with one edge knot and one small face defect allowed per piece in 20% of boards only. Back side with some defects, skip dress and stepping in laminations allowed.
Finish:	Fine bandsawn face (some variation in the visual appearance of the bandsawn finish can be expected).
Treatment:	Thermally modified – Thermowood 230 degrees schedule. Preservative treated LOSP H3 (AS1604).
Insect attack:	Resistant to termites and other wood boring insects. Suitable for use in areas north of Tropic of Capricorn.
Intended use:	Intended for above ground use in residential and light commercial buildings.
Serviceable life:	30 years or more when maintained according to manufacturer's recommendations.
Warranty:	25 years against fungal and termite attack (subject to terms and conditions).
Moisture content:	Approx. 7% MC (+/-2%) at time of dispatch.
Construction:	Laminated with vertical grain orientation.
Glue:	New generation polyurethane adhesive – VOC, solvent and formaldehyde free. Exterior Type 1 - AS/NZS4364. Approved for Service Class 3 (exposed exterior applications) (AS1328).
Expected dimensional change in structure:	Width expansion approx 2%, length expansion approx 0.25%, thickness expansion approx 2.5% (from 7%MC to fibre saturation – variation will occur between boards).
Density:	420-450 kg/m ³ .
Fire:	Group 3, (AS5637), please inquire for solutions to cladding in bush fire zones.
Hardness:	Low (2.5kN Janka).
Weight:	-11 kg/m ² .

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Product specifications

Thermal properties:	-0.099 W/(mK) (Thermal conductivity is reduced by 20-25% compared with radiata pine).
pH (indicative):	3.9.
Curved walls (minimum radius):	WB10 145x20 – 2.3m, WB12 90x40 – 0.8m.



Compatibility:	Vulcan has little or no corrosiveness on most metals and can be placed in contact with most building materials Normal PVA, PU, MUF glues and RF resins can be used. Care should be taken to separate from zinc.
Coating:	Vulcan will take most stains, penetrating oils and paints well, though up-take of coating is generally higher than normal. At least one coat must be applied all sides including back face, and at least two coats to the front face and edges with Abodo Protector Oil or other approved proprietary wood stain. Available factory pre-coated.
Patent:	AU Pat. 2012101047.
Certification:	FSC®-certified mixed, No.: SGS-COC-004944.
Environmental Product Declaration (EPD) registration number:	S-P-01543.

Product handling

- Weatherboards and accessories must be kept clean dry, under cover and out of the weather prior to installation.
- Timber must be stored horizontally on bearers at least 100mm off the ground.
- Extra care must be taken during installation so as not to damage the factory finish of the boards.
- Wear dust mask, eye protection when cutting timber.
- Do not burn treated timber. Dispose of off-cuts in lined land fill or an approved furnace.

Fixing overview

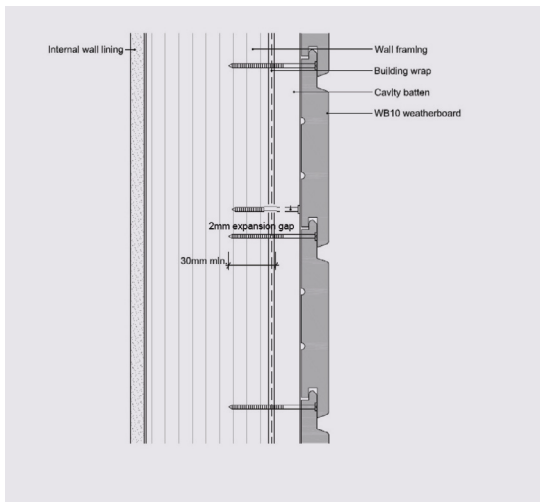
- Timber framing is to be in accordance with AS1684, steel framing in accordance with NCC and manufacturer requirements. Studs at max 600mm centres.
- Fix cladding over a water proof, breathable building wrap (sarking), rigid air barrier or other suitable waterproof substrate in conformance with the NCC.
- Weatherboards may direct fixed or fixed over cavity battens. Cavity method is recommended for optimal weather tightness.
- Horizontal cavity battens must be minimum 70x35mm or 45x45mm H3 treated timber with 10mm plastic or timber spacers every 600mm at each stud fixing point.
Vertical cavity battens must be minimum 35x18mm H3 timber structurally fixed to studs.
- Cavity battens must be H3 treated pine structurally fixed to studs with HDG or stainless steel flat head nails or 10g screws staggered at min 300mm centres (when using a 18mm thick cavity batten) or min 600mm centres (when using a 35 or 45mm thick cavity batten) and with min 45mm fixing penetration into stud.
- Fix boards either vertically or horizontally as appropriate to the profile type specified at maximum 600mm centres.
- High quality hot dipped galvanised fixings (secret fixed profiles only) or stainless steel fixings (face fixed profiles) must be used. Stainless steel fixings must be used in sea spray zones in all cases. Note: Silicone bronze/copper fixings can be subject to oxidation during weathering, resulting in discolouration and weeping around fixing head.
- For WB10 or WB12 secret fix profile, use flat head ring shank nails or self drilling self-countersinking head screws so as to achieve 30mm penetration into stud, or 30mm into the stud and batten combined (when using a structural cavity batten only) and positioned 12mm from the tongue edge. Punching/puttying of fixings is not required. Screw fixing is recommended.

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Fixing overview

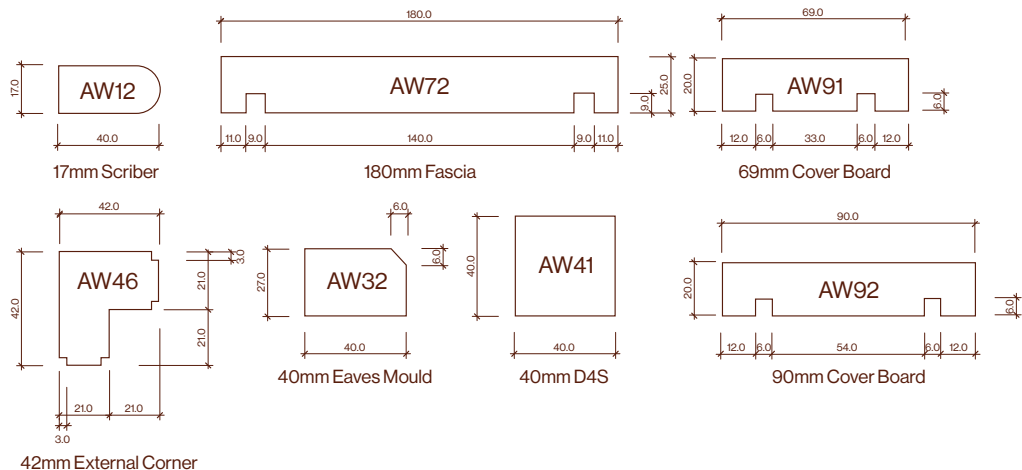
- Fixings at ends of boards must be at least 12mm from edge, and must be pre-drilled before applying fastener. Ensure 2mm expansion gap to back of boards.
- All end grains and notches must be sealed using Abodo's Protector End Seal or equivalent wax sealer, or Sioo:x End Grain Sealer in the case of Sioo:x coated boards.
- Joins between board ends must be made over studs/battens only, with joins off-set by minimum 400mm, using a 35degree mitre, and application of sealant at the join eg: Sikaflex 11FC. Excess sealant can be cut and peeled away once cured.
- For cavity systems use perforated cavity base closer flashing at base board to allow drainage, air flow and keep out vermin.
- Cladding must finish 100mm above paved surface or 175mm above un-paved surfaces. Base of cladding must not sit directly into flashings or other cladding materials such as masonry. Minimum 5mm gap must be left to flashings allowing fall to shed water away from the wall cavity.
- Use Abodo finishing mouldings backed by corrosion resistant flashings as required, corners, windows, doors and where cladding meets soffit. Fix mouldings with 40mm stainless flat head ring shank nail (hand driven) at max 450mm centres.
- At least one coat of Protector oil or proprietary specified wood stain must be applied to all sides prior to installation and then a further one or two coats applied once boards are fixed in place according to manufacturer's instructions. For other specialty coatings such as Sioo:x refer to specific literature.

Fixing details:



Note: The adjacent is an overview only. Please refer installation manual for full install details.

Exterior mouldings:



Note: Other profiles are available and should be specified according to the system being used.

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Maintenance

- Wash down every 12 months with gentle detergent, warm water and soft brush.
- If possible it is recommended to apply a further coat of oil after approx 12 months of weathering.
- Make a maintenance check every two summers. Check all weatherboards, junctions, flashings, mouldings and replace or remediate as required to maintain weather tightness of the cladding system.
- Re-coat every 2-3 years or as required to maintain colour and integrity of coating. Re-coat period may be longer or shorter depending on climatic conditions and/or positioning of cladding to the sun. Preparation with Rejuvenator or other similar oxalic timber cleaner is recommended prior to coating.
- For heavily soiled or mouldy areas use Rejuvenator or similar timber cleaner, apply active mouldicide and recoat with penetrating oil.
- For other specialty finishes such as Sioo:x please refer to specific maintenance literature.

Lightening of the timber:



Vulcan Teak
As delivered



Vulcan Teak
Weathered exterior install



Vulcan Sioo:x
As delivered

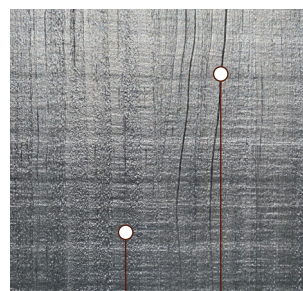


Vulcan Sioo:x
Weathered exterior install

We cannot guarantee against wear or color changes to any products which result from weather, sun, wind and/or the natural aging process of the wood.

Surface checking:

- Checking (cracks) may be observed on the face and ends of Vulcan timber. Checks are acceptable to install. Checking may become more apparent as the material weathers naturally in place. Fibre pull at laminated glue lines is also possible. These are not defects and are considered a natural part of this wood product. Maintenance with a coating and thorough sealing of end grains with wax sealer will improve long term weathering characteristics.



Laminated glue
seams

Face check

Vulcan Cladding

Accessories

Abodo Protector – Water Borne, 4L, 10L:



Abodo Protector – End Seal, 1L:



Abodo Stainless Steel Cladding Screw 4.0mm x 45mm
or 4.5mm x 65mm:



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