



Vulcan® Smooth Decking



○ Overview

Vulcan Smooth Decking is created from thermally modified New Zealand plantation timber and then treated with an organic preservative system that includes a water repellent for superior durability.

The thermal modification process and semi-vertical grain orientation means Vulcan Smooth Decking has enhanced stability, reduced resin content and is a beautiful homogeneous brown colour.

○ Wood Species

Thermally Modified Radiata Pine (Pinus Radiata).

○ Profiles



DK4R 140x27

○ Sizes

Width x Thickness (mm).
140x27mm.

○ Lengths

Mixed length – Supplied as packets with 1.8m and longer, or fixed lengths at Abodo's option.



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Product Specifications

○ Name	Abodo Vulcan Smooth Decking.
○ Quality	Premium Grade/Graded to one face with mainly clear sections, but with some defects including knots and resin pockets allowed up to 1/3rd of the board width. Graded with semi-vertical grain orientation but with variation allowed from vertical to semi-vertical within a packet and along a length. Reverse face with defects permitted according to Standard Grade and may include machining defects, strap marks associated with a back face.
○ Substrate Colour	Chocolate brown (timber will weather to grey unless a pigmented coating is applied and maintained).
○ Durability	<p>Thermally modified 230 degrees schedule. Suitable for uses described in NZS3602:2003 Table 2A 'Requirements for wood-based building to achieve a 15 year durability performance Members exposed to exterior weather conditions and dampness'. Durability Class 1 (EN350-1), Class 2 above ground (AS5604).</p> <p>Treated with OPX azole-based preservation system. Durability Class 1 (EN350), H3 (AS1604) and suitable for Use Class 3 (EN335).</p> <p>Resistant to attack from wood boring insects and termites.</p>
○ Construction	Solid, with semi-vertical grain orientation.
○ Compatibility	Vulcan has little corrosiveness on most metals and can be placed in contact with most building materials.
○ Coating	Accepts most regular coatings including water and oil borne stains and paints. Preparation of timber by weathering and scrubbing down with timber cleaner such as Rejuvenator prior to coating is recommended. Specialist penetrating deck stains are recommended. Always test prior to application. If maintenance is of concern a clear non-pigmented penetrating oil coating is recommended allowing the timber to silver off naturally.
○ Expected Dimensional Change in Surface:*	Width expansion approx 2.5%, length expansion approx 0.25%, thickness expansion approx 4%. Variation may occur between boards. (*Indicative movement from 'dry' 12% MC to 'wet' fiber saturation approx 25% MC).
○ Moisture Content	Approx. 16% MC (at time of despatch from factory).
○ Average Density	420 kg/m3.
○ Hardness	Low (2.5kN Janka).
○ Slip Resistance	N/A.
○ Warranty	25 years against fungal decay and termite attack – terms and conditions apply.
○ Sustainability	FSC®-certified mixed, No.: SGS-COC-004944 LBC – Red List Free.



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Product Handling

- Prior to installation, keep decking boards dry and out of the weather or under plastic wrap, elevated 100mm off the ground on bearers.
- During installation wear safety glasses, gloves, safety footwear and ear protection as appropriate.
- When cutting, do not breathe in wood dust – always wear a dust mask.
- Preservative treated Vulcan should be disposed of in lined landfill or burned in an approved industrial furnace only.
- Consult with a design professional, engineer or architect when building a deck with elevated or critical structural elements.
- Adhere to local building code and construction standards in all cases.

Fixing Overview

- When installing decking take reasonable precautions to protect the surface from damage during installation e.g. by work boots – use plywood protective sheets or similar.
- Vulcan Smooth Decking must be used in it's final shape and form only. Re-machining and/or putting into other applications than decking is not permitted unless pre-approved by Abodo.
- High quality stainless steel fixings must be used in all cases.
- Pre-drilling of deck boards is necessary at board ends only. Drill hole through deck board and into joist using a drill bit with approx 1/3 less thickness than the fastener.
- Bevel and seal cut ends and exposed timber with a water repellent, timber preservative e.g. Metalex Wood Protector or equivalent that includes an insecticide.
- As this is dry timber, some expansion of the product must be accounted for during installation in service.
- Apply damp proof course (DPC) or other proprietary system to create a separation layer between the underside of decking and timber joists.
- Fix decking methodically in rows, starting from one edge of the deck and working your way to the other edge row by row.
- Fix deck boards with graded face up.
- All end grains and notches must be sealed using Abodo's Protector End Seal or equivalent wax sealer.
- Optionally for better long term performance and to maintain colour, apply penetrating decking oil or stain. Leave the timber to weather a few weeks and wash down prior to coating according to manufacturers instructions. Note: Pigmented stains may be subject to wear/tracking marks and more regular recoating. If maintenance is of concern a clear non-pigmented penetrating oil coating is recommended allowing the timber to silver off naturally.
- Sub floor and joists should be of appropriate durability class material and the design should allow for adequate airflow around underside of boards, with minimum **300mm clearance above the ground**. Damp substrates should be water proofed with suitable membrane and allow minimum 5 degree fall to prevent rising dampness.



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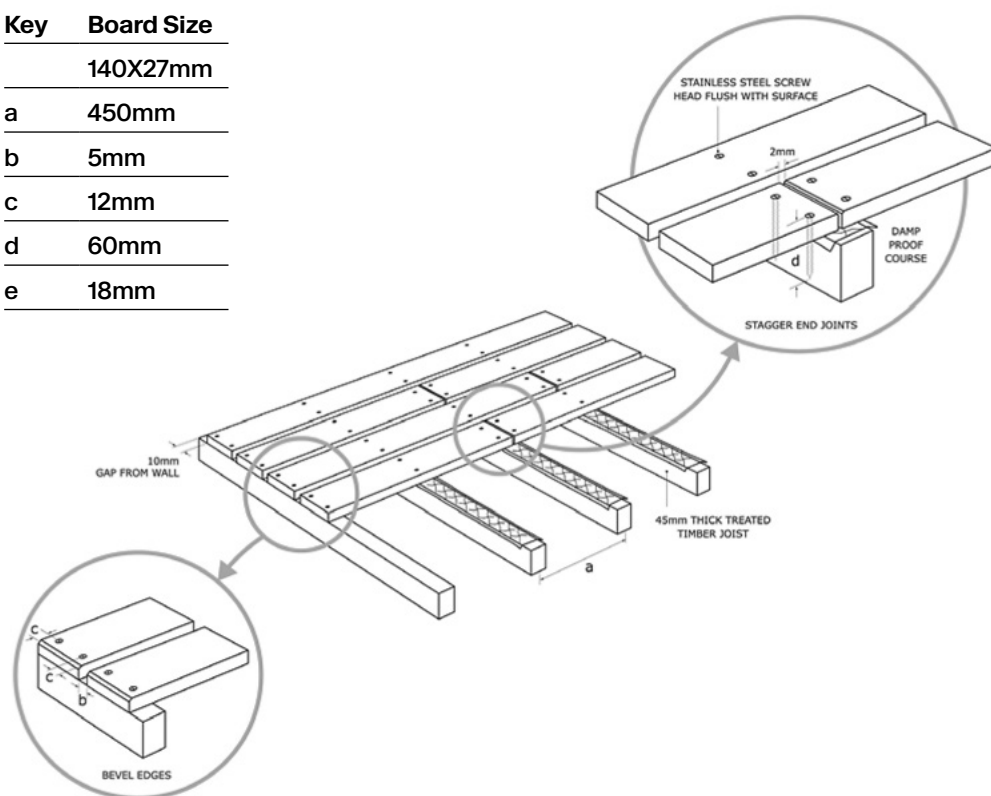
Board Size

Fixing recommendations

140x27mm.

- Space joists at 450mm centres maximum.
- Use two 60mm x 5mm self drilling self-countersink head screws per joist. Nail fixing is not recommended.
- Position fixings approx 18mm from board edge and 12mm from ends.
- Allow 5mm gap between board edges and 1-2mm spacing at butt ends.

Key	Board Size
	140X27mm
a	450mm
b	5mm
c	12mm
d	60mm
e	18mm



Maintenance

- Wash down regularly (at least every 6 months) with mild detergent, warm water and soft brush.
- All wood will go grey after extended exposure to the weather. To maintain colour use a brown pigmented deck stain and re-apply on a regular basis.
- Surface cracking or 'checking' may occur after exposure to the weather, this can be reduced by using a quality decking stain.
- Re-apply coating as required every 12-18 months.
- Mould growth will occur on timber, especially in high humidity conditions, for heavily soiled or mouldy areas use Abodo Rejuvenator, similar timber cleaner or oxygenating cleaner then apply long acting mould inhibitor such as Resene Deep Clean.



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Accessories

Abodo Protector Clear:



Abodo Stainless Steel Decking Screw 5.5 x 60mm:

