

## Vulcan Decking



### Overview

Vulcan 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 means Vulcan Decking has enhanced stability, reduced resin content and is a beautiful homogeneous brown colour.

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

Profiles: Graded to the reeded face.



DK16 142x27

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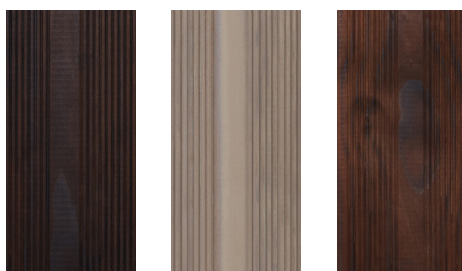
Sizes: Width x Thickness (mm)  
142x27mm

Lengths: 2.4 - 6.0m\*

\*Product is supplied as standard in 'random length' or otherwise lengths at Abodo's option. Specified fixed lengths may be available but are subject to conditions including minimum quantity, price premium and availability. Please check with Abodo prior to placement of order.

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Colour ideas: Product coated in Protector – Water Borne. Colours are indicative only and will fade/change with exposure to the weather.



Vulcan Walnut

Vulcan Pearl

Vulcan Teak

Note: product is supplied as standard uncoated. Factory machine coating is available on request and may be subject to minimum volumes.

## Vulcan Decking

### Product specifications

Name:	Abodo Vulcan Decking.
Quality:	<b>Premium Grade</b> /Graded to the reeded face with mainly clear sections, but with some defects including knots and resin pockets allowed up to 1/3rd of the board width. Reverse face with defects permitted according to Standard Grade.
Substrate colour:	Chocolate brown (timber will weather to grey unless a pigmented coating is applied and maintained).
Durability:	Thermally Modified to Thermowood 230 degrees schedule. Treated with OPX azole-based preservation system. Durability Class 1 (EN350), H3 (AS1604) and suitable for Use Class 3 (EN335). Suitable durability for uses listed in NZS3602:2003 Table 2A "Requirements for wood based building components to achieve a 15-year durability performance." Resistant to attack from wood boring insects and termites.
Construction:	Solid, mixed grain orientation.
Compatibility:	Vulcan has little or no corrosiveness on most metals (equivalent to untreated softwood) and can be placed in contact with most building materials Normal PVA, PU, MUF glues and RF resins can be used.
Coating:	Accepts most regular coatings including water and oil borne stains and paints. Up-take of coating into the timber is generally higher than regular pine. Penetrating wood oils or stains are recommended for decking application. Always test prior to application. Factory finishing with Protector – Water Borne is available on request (may be subject to minimum volumes).
Expected dimensional change in surface*	Width expansion approx 3%, length expansion approx 0.25%, thickness expansion approx 1.5%. Variation may occur between boards. (*Indicative tangential movement from 'dry' 12%MC to 'wet' fiber saturation approx 25%MC).
Moisture content:	Approx. 12% MC (at time of despatch from factory).
Density:	Approx 430 kg/m <sup>3</sup> .
Hardness:	Medium-low (3.5kN Janka).
Structural:	Indicative characteristic stiffness (MoE) 9.0 GPa; Strength (MoR) 46.0 MPa.
Slip resistance:	0.45-0.60 for travel perpendicular to reeded face only (indicative).
Expected service life:	20 years or more when installed and maintained according to manufacturer's recommendations.
Warranty:	15 years against fungal decay and termite attack - terms and conditions apply.
Sustainability:	FSC®-certified mixed, No.: SGS-COC-004944 LBC -Red List Free.

### 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

- Vulcan 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.

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### Fixing overview

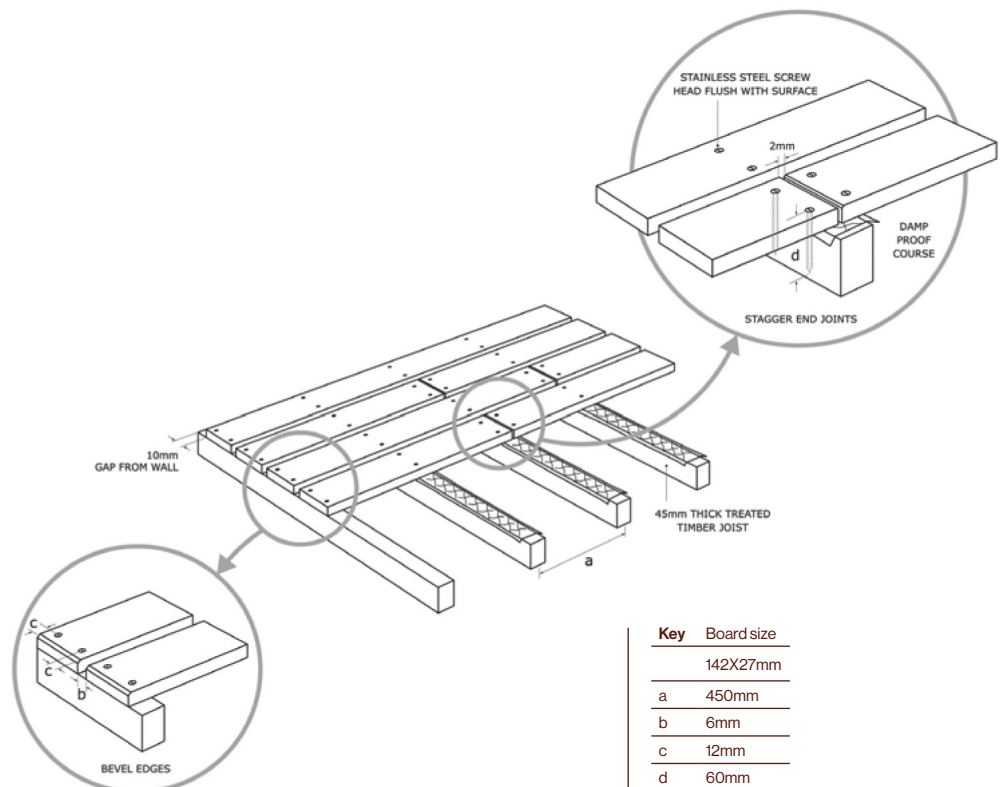
- Bevel and seal cut ends and exposed timber with a wax-based water repellent, preservative eg: Metalex Wood Protector or coating eg: Protector – Water Borne.
- As this is dry timber, some expansion of the product must be accounted for during installation and in service.
- Fix decking methodically in rows, starting from one edge of the deck and working your way to the other edge row by row.
- It is recommended to fix deck boards with ribbed face up, as this helps to mask surface cracking due to weathering.
- Optionally for better long term performance and to maintain colour, apply penetrating decking oil or stain eg Abodo Protector Water Borne all sides and apply a second coat within 2 months of installation.
- 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.

### Board size

### Fixing recommendations

142 x 27mm

- 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 **6mm** gap between board edges and 1-2mm spacing at butt ends.



## Vulcan Decking

### 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 oil 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 penetrating decking oil such as Abodo Protector and by installing boards with ribbed face up.
- 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.

### Accessories

Abodo Protector – Water Borne 4L, 10L:



Abodo Stainless Steel Decking Screw 5.5 x 60mm:



**P** +64 9 249 0100  
**E** info@abodo.co.nz  
**W** abodo.co.nz