



Hardwood Decking

SIZES AND PROFILES AVAILABLE

We stock Kwila and Vitex in a wide range of sizes, if we don't have it dressed in stock we can usually machine it within 10 working days. Other species such as Accoya, Saligna, Jarrah and Massa are available on request.

Have you heard about Accoya® wood? An innovative new product that is guaranteed not to rot for 50 years (above ground) and is super-stable, just perfect for decking. Phone our sales team for more information.

| | 19mm | | | | 32mm | | | | 42mm | | | |
|--------------|-------------------|-------------------|----------|----------|-------------------|-------------------|-------------------|----------|-------------------|-------------------|-------------------|-------------------|
| Thickness: | | | | | | | | | | | | |
| Width: | 42mm | 65mm | 90mm | 140mm | 42mm | 65mm | 90mm | 140mm | 42mm | 65mm | 90mm | 140mm |
| KWILA | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock | Ex Stock |
| VITEX | Machined To Order | Machined To Order | Ex Stock | Ex Stock | Machined To Order | Machined To Order | Machined To Order | Ex Stock | Machined To Order | Machined To Order | Machined To Order | Machined To Order |

ABOUT THE TIMBERS

| | KWILA | VITEX |
|--|-----------------------|-----------------------|
| Origin: | Papua New Guinea | Solomon Islands |
| Botanical Name: | Intsia spp | Vitex cofassus |
| Durability (Heartwood): <i>(Above Ground)</i> | Durable | Durable |
| Density (Air Dried): | 850 kg/m ³ | 700 kg/m ³ |
| Hardness (Janka): | 8.6 kN | 5.6 kN |
| Stability: | Very Stable | Stable |
| Movement in Use | 1.5 - 3.0% | 2.0 - 4.0% |
| Length Range: | 1.8 - 5.4M | 1.5 - 3.6M |
| Average Length: | 3.3M | 2.4M |

KWILA

Kwila is the most well-known hardwood decking timber in use in New Zealand. It is a pale brown to dark reddish-brown coloured hardwood that comes in a nice length spread and is quite stable.

Its only downside is water-soluble tannins that leech from the timber with exposure to water, a process called bleeding, this resin will stain so be careful with tiles and concrete work.

We have FSC (Forest Stewardship Council) Certified stock available in 90x19mm and all other sizes are VLO (Verified Legal Origin).

FASTENERS

There are a few different methods that can be used to fix your decking to the joists, each with their own unique look.

| Fastener Type | Approx price per M ² | |
|---|---------------------------------|---------------------|
| | 90 x 19mm | 140 x 19mm |
| Nails (Stainless Steel, 60 x 3.15mm) | \$7.00 +GST | Not Recommended |
| Screws (Stainless Steel, 10g x 64mm) | \$12.50 +GST | \$8.10 +GST |
| Sharksteeth (Hidden Fasteners) | \$20.40 +GST | \$14.00 +GST |

Note: These prices are estimates only and do not include either tools or labour.

VITEX

Vitex is a creamy-grey coloured, durable timber from the Solomon Islands that bleeds less than Kwila.

Trees are felled and milled by local communities and villagers, usually with portable mills. This approach massively reduces the impact to the forest and more money is returned to the local community.

The only disadvantage of this method is that it results in a shorter length spread.

TIMSPEC

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Hardwood Decking Installation

Before undertaking any construction work you must consult with your local authority to check that any construction requirements are met and to determine if a Building Consent is required. A qualified tradesman should be consulted where expert services may be required.

Planning

Joist Spacing: Joists should be at maximum 450mm between centres, but can be extended by using larger cross sections (140 x 25mm, 140 x 32mm, etc), an engineer should be consulted for specifications.

Preparation

Defects: Some boards may contain defects that will require docking out.

Length Sorting: Sort the timber lengths to optimise usage.

Coating: Although not very common in New Zealand, coating your deck will extend its life. We recommend a minimum of one coat of a suitable exterior timber decking coating or oil be applied to all four sides plus cut ends of the decking prior to installation.

Fastenings

90 x 19mm Decking: Fix the decking to every supporting joist with two 65 x 2.8mm Stainless Steel Annular Grooved Decking Nails.

140 x 19mm and 24/25mm Thick Decking: Fix the decking to every supporting joist with two 10g x 65mm Stainless Steel Decking Screws.

Fixing

Pilot Holes: Predrill pilot holes slightly smaller than the nail or screw gauge before fixing.

Location: Fixings should be located 15mm in from the edge of the board for 19mm Decking or 20mm in from the edge of the board for 24/25mm Decking.

Stagger Fixings: Staggering the fastenings across the joists will help prevent splitting.

Expansion Gaps: Leave an approx 3 - 6mm gap between boards (will vary depending on timber species, width of board, and moisture content) to allow for timber movement, see the table below for more information.

Joins

Placement: Joins must be placed over a joist.

Method: Decking should be cut square and butted together. Planning an angled 2-3mm chamfer off the end of each board will mask any unevenness in height.

Fixings Location: Fixings should be 20mm in from the butted joint and angled toward the centre of the joist to maximise holding performance.

Maintenance

Cleaning: Annually cleaning your deck will help prolong its life, a light detergent that contains an anti-fungal agent is best.

Recoating: Any coating or oil applied may require another coat each year.

Winter: Removing any items that will trap water underneath them (furniture, pot plants, etc) for the duration of winter will help keep your deck looking great.

Expansion Gaps

Expansion Gaps are essential for many reasons, the two most paramount are: to provide ventilation to the decking and; to overcome the timbers natural tendency to shrink and swell according to the amount of moisture in the immediate environment. Three factors need to be considered in determining the gap between boards:

- **Moisture Content:** Decking can be supplied in a range of moisture contents, from near green to kiln dried. A kiln dried product will **swell**, whereas a green or air dried board will **shrink**, in either case please see below for recommended expansion gaps.
- **Species:** Kwila is a very stable species which does not shrink and swell a lot, however other species like Jarrah, Saligna, Massa, Greenheart, and others all shrink and swell a lot.
- **Size (width of board):** Wider boards will shrink/swell more than narrower boards so require a larger expansion gap.

Recommended Expansion Gaps for Hardwood Decking

| Timber Species | 90mm Wide | | 140mm Wide | |
|----------------|----------------------|------------------------|----------------------|-------------------------------|
| | Green / Shipping Dry | Air Dried / Kiln Dried | Green / Shipping Dry | Air Dried / Kiln Dried |
| Kwila | 3mm | 4mm | Do not use | 6mm |
| Vitex | 3mm | 4mm | Do not use | 6mm |
| Jarrah | Do not use | 5mm | Do not use | 8 - 10mm (Not recommended) |
| Saligna | Do not use | 5mm | Do not use | 8 - 10mm (Not recommended) |

Check with BRANZ on 0800 80 80 85 or via their web site at www.branz.co.nz for the latest installation information.

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