

SUSTAINABLE MAHOGANY SUPPLIES FIJIAN MAHOGANY DECKING

PURPOSE

Sustainable Mahogany Supplies distributes Fijian Mahogany Decking for use as external decking.

EXPLANATION

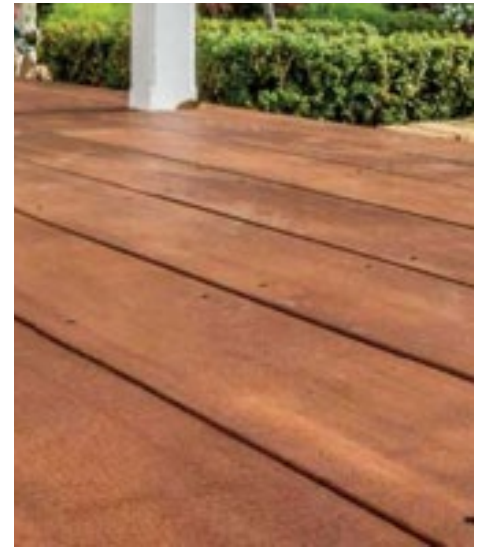
Fijian Mahogany (*Swietenia macrophylla*) is a tropical hardwood grown in sustainably managed plantation forests in Fiji. The Fijian Government manages the forests, supply, and regulates distribution to ensure sustainable management of the forests. Mahogany has a very straight grain, is stable, and resistant to bowing and splintering. It is naturally resistant to moisture and decay and has a Durability Class 2 classification.

The timber is coloured from pinkish-red to orange-brown and can be left to weather or it can be stained to maintain its natural feature colours.

Sustainable Mahogany Supplies supply Fijian Mahogany in the following sizes (width x thickness):

- 90 mm x 21 mm
- 140 mm x 21 mm.

The boards are machined with face finishes of smooth and non-slip. They must be installed over a structural frame with a joist spacing maximum of 450 mm centres with a fastening that meets the requirements of NZS3604:2011, section 4.

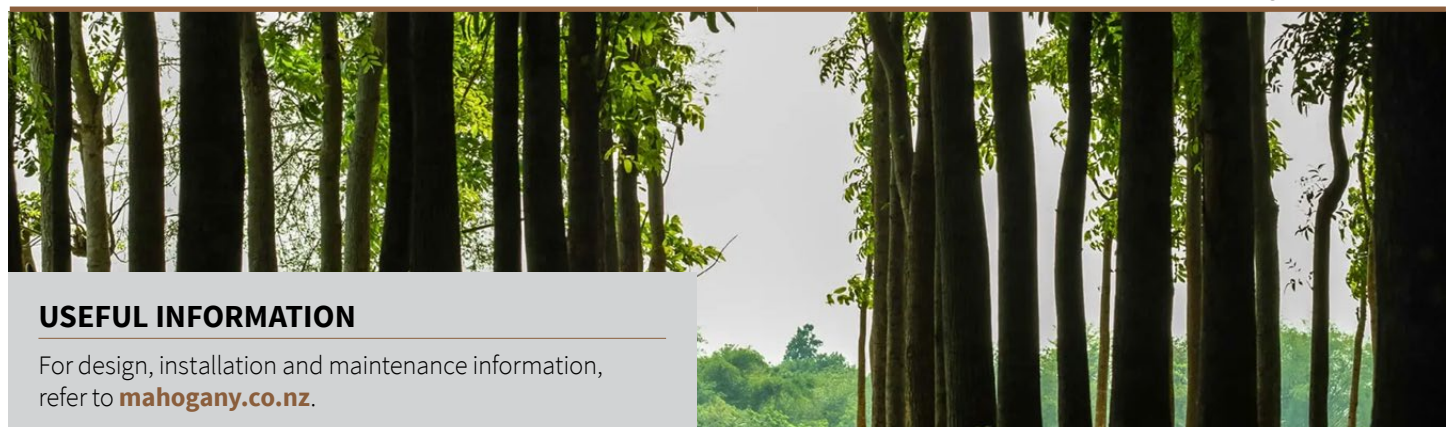


For further assistance please contact:

- ☎ 09 954 6756
- ✉ sales@mahogany.co.nz
- 🌐 mahogany.co.nz

SCOPE AND LIMITATIONS OF USE

Scope	Limitations
Location In all exposure zones as defined in NZS 3604:2011.	<ul style="list-style-type: none"> ➤ Where microclimatic conditions apply, contact Sustainable Mahogany Supplies for technical advice. ➤ Fastener selection must be in accordance with section 4 of NZS 3604:2011.
Building On timber or lightweight steel structural framing that complies with the NZ Building Code.	<ul style="list-style-type: none"> ➤ The framing must have a minimum design load of 2 kPa or subject to specific engineering design. ➤ Joist spacing must be at maximum 450 mm centres unless the design is subject to specific engineering design. ➤ Joists selection must be in accordance with Table 7.1 of NZS 3604:2011.
With surface finish and orientation to meet paragraph 7.4.4 of NZS 3604:2011.	<ul style="list-style-type: none"> ➤ Slip resistance must be not less than 0.4 where the deck forms a part of the main access to the building.



USEFUL INFORMATION

For design, installation and maintenance information, refer to mahogany.co.nz.

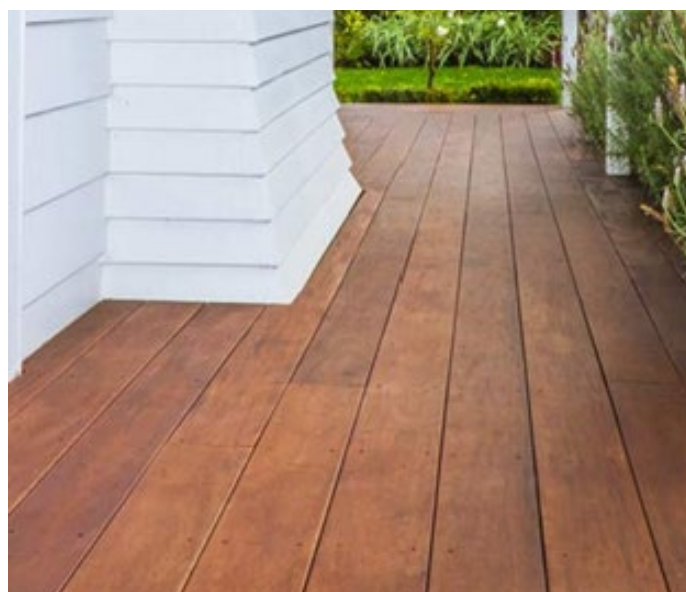
PERFORMANCE CLAIMS

If designed, installed, and maintained in accordance with all Sustainable Mahogany Supplies requirements, the Fijian Mahogany Decking will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE	
	Compliance statement	Demonstrated by
B1 STRUCTURE B1.3.1, B1.3.2 B1.3.3 (a, b, c, e, f, j, m & q)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Strength group SD 6 [seasoned] Australian hardwood category, Janka Hardness 4020 N, 80.8 MPa modulus of rupture, and 10.06 GPa elastic modulus [The Wood Database, n.d.].
B2 DURABILITY B2.3.1 (b)	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Janka Hardness 4020 N, 80.8 MPa modulus of rupture [The Wood Database, n.d.]. MCA treatment to hazard class H3.2 with Tanalith® E supplied by Arch Wood Protection [Ministry of Forestry, 23/12/2021; Lonza, 08/2016].
D1 ACCESS ROUTES D1.3.3 (d)	ACCEPTABLE SOLUTION D1/AS1	<ul style="list-style-type: none"> Non-slip machined surface finish.
F2 HAZARDOUS BUILDING MATERIALS F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> Use in accordance with supplier's safety instruction. MCA treatment to hazard class H3.2 by licensed treatment facility [Ministry of Forestry, 23/12/2021]. No harmful emissions once MCA treatment liquids have dried.

SOURCES OF INFORMATION

- › The Wood Database. [n.d.] *Honduran Mahogany*. Retrieved from <https://www.wood-database.com/honduran-mahogany/>. [Accessed on 20/10/2022].
- › Ministry of Forestry. [23/12/2021] *License to operate preservative treatment facilities*. Licence No.892/2022.
- › Lonza. [08/2016] Tanalith® E Technical Data Sheet.



SCAN OR CLICK THIS QR CODE TO ACCESS OR REQUEST THE RELEVANT SUPPORTING DOCUMENTATION FOR THIS PASS™.



mahogany.co.nz

1. Where a standard is referenced it is to be read as amended by the acceptable solution or verification method as applicable. 2. Sources of information also include the Building Act 2004 and its regulations, including the Building Code (Schedule 1 of the Building Regulations 1992), Acceptable Solutions and Verification Methods, and relevant cited standards. 3. The product is not subject to a warning or ban under section 26 of the Building Act. 4. For overseas manufacturer details, where applicable, refer to the company that is the holder of this pass™. 5. The quality and assurance that the supplied products meet the performance claims stated in this pass™ are the responsibility of the company that is the holder of this pass™. 6. The availability of the information about the supplied products required to be disclosed under s14G(3) is the responsibility of the company that is the holder of this pass™.

Sustainable Mahogany Supplies Ltd confirms that if Fijian Mahogany Decking is used in accordance with the requirements of this pass™ the product will comply with the NZ Building Code and other performance claims set out in this pass™ and the company has met all of its obligations under s14G(2) of the Building Act.

Date of first issue: 25/11/2022

Date of current issue: 27/10/2023

NZBN: 9429050610662

Kevin Brunton

Kevin Brunton, Technical Director, TBB confirms that the process used to prepare this pass™ on behalf of Sustainable Mahogany Supplies Ltd as been undertaken in accordance with MBIE PTS guidelines and in accordance with the TBB pass™ process which is within the scope of TBB's ISO 9001 certification.

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