

D&RHenderson

Independent | Sustainable | Competitive

Floorboard

installation guidelines

**Now With Five*
Months Warranty**

**AUSTRALIAN MADE
AUSTRALIAN OWNED**

Orange Tongue

Burgundy Tongue

Navy Tongue

D&R Henderson Floorboard

D&R Henderson have been manufacturing all purpose tongue and grooved particleboard flooring since 1987. Unlike many particleboards, our Floorboard products have a wax solution incorporated into the resin mix, allowing for greater edge protection if sheets are cut.

D&R Henderson **Floorboard** meets all the requirements of the Australian standard AS/NZS 1860.1 and is suitable for domestic and commercial installations. There are number of thicknesses available to cover your building requirements.

Orange Tongue

19mm for 450mm joists

Burgundy Tongue

22mm for 600mm joists

Navy Tongue

25mm for 450mm joists*

**Dependent on nature of use and floor loading*

Floorboard Product Range

Orange Tongue (19mm)

A high quality interior all purpose flooring for use in domestic and some commercial buildings, designed for both platform and fitted flooring construction methods. Also available as Termite Treated

Burgundy Tongue (22mm)

As above for Orange tongue but is 22mm thick to allow for maximum joist centre span of 600mm. Also available as Termite Treated.

Navy Tongue (25mm)

A heavy duty 25mm thick floorboard specifically for residential, commercial, industrial and institutional buildings that are subject to increased floor loads. Refer to Australian Standards for floor loading details. (In some circumstances alternative fixing methods to those in this publication may be necessary).

H2 Termite Treated Floorboard (19mm & 22mm)

As part of its range D&R Henderson also provide termite treated flooring which can be used in conjunction with other preventative measures to minimise termite attack. The board is impregnated with a synthetic pyrethrin during the manufacturing process which significantly improves its termite resistance properties. The registered brand is 272.20 H2 level.

Site Storage

Although **Floorboard** is resistant to moisture, packs must be protected from the weather until the particleboard is installed. Packs should be stored off the ground with supports about 600mm apart. Packs need to be protected on the top and sides with waterproof material such as plastic sheeting. (The covering should allow for air circulation during the storage period).

Effects of Moisture and Wetting

Floorboard is a wood-based product and will react to changes in moisture and direct wetting by expanding or shrinking in the length and width and swelling or shrinking in the thickness. Under unduly wet conditions, the open groove will close significantly and will open when dry to perhaps a wider groove than the original cut-out. For optimum performance

it is best to keep the **Floorboard** as dry as possible. Once it is laid **Floorboard** may be exposed to the weather for up to five months in compliance with the requirements of AS/NZS 1860.1 for particleboard flooring. If water ponding occurs then drain holes can be provided where needed by drilling holes of 3mm maximum in diameter with no less than 1m spacing between them.

Floorboard, like other wood-based products and many other building materials, will respond to changes in relative humidity or the surrounding air. Board dimensions are closely related to moisture content. The ex-factory moisture content is about 8.5% with a usual range of $\pm 1\%$. The highest potential for moisture movement exists when Particleboard Flooring is exposed to the weather as platform construction. Sheets which have been left exposed on a building site should be dried out before installation to avoid shrinkage gaps later.

Sheet Layout and Nailing

Sheets are laid with the long length across floor joists with ends butted over a joist. Sheet end joists are staggered as shown opposite. Set a string line at the ends of joists parallel to the perimeter of the building and at right angles to the joists. Position the first sheet with its tongued edge to the string line. Ensure that information printed on the sheets

is followed to give the correct top surface. The minimum docked sheet length must span at least 3 consecutive joists. See AS/NZS1860.2 Section 9.1



**D&R Henderson
proudly recycles**

Our recycling process is a genuine perpetual "closed loop" recycling method. We utilise various woodwaste, timber offcuts, waste, pallets, crates, particleboard, plywood, and reconstitute this back into particleboard. Traditional preprocessing methods would see this wood waste turned into Bio fuel, landfill, compost or other secondary uses that will still become terminally wasted wood resource.

In any one month the amount of **Post Consumer wood waste** delivered to Benalla for cleaning can exceed 714 tonne.

For many years we have held a **deep commitment to maintaining manufacturing processes** which are both efficient and environmentally friendly. The investments that we have made in the last 3 years in plant equipment and logistics will enable us to continue to pioneer technologies in this area, honouring our commitment to a sustainable future.

PRODUCT	TYPE	THICKNESS	SHEET SIZE	SHEETS PER PACK	M2 PER PACK	MAX JOIST SPAN
Orange Tongue	Standard	19mm	3600 x 600 3600 x 800 3600 x 900	36	103.6 116.6	450mm
Orange Tongue	H2 Termite Treated	19mm	3600 x 800 3600 x 900	36	103.6 116.6	450mm
Burgundy Tongue	Standard	22mm	3600 x 800 3600 x 900	32	92.2 103.7	600mm
Burgundy Tongue	H2 Termite Treated	22mm	3600 x 800 3600 x 900	32	92.2 103.7	600mm
Navy Tongue	Standard	25mm	3600 x 600	27	58.3	600mm

* Dependent on nature of use and floor loading

Typical Property Values for Class 1 Particleboard Flooring

PROPERTIES	UNITS	19mm	22mm	25mm
Density	KG/m ³	680	700	700
Bending Strength (MOR)	MPa	24	21	24
Bending Stiffness (MOE)	MPa	3500	3250	3750
Internal Bond Strength	KPa	0.7	0.75	0.8
24hr Thickness Swell	%	3	3	2
Thickness Stability	%	11	11	11
Glue Bond Quality	%	12	12	12
Glue Bond Durability	MPa	5.5	5.5	6
Surface Water Absorption	g/m ²	50	50	50

Fire Hazard Indices

(Typical achieved when tested to AS/NZS 1530.3)

INDICIES	RESULT	RANGE
Ignitability	12-13	0-20
Spread of Flame	6-7	0-10
Heat Evolved	7-8	0-10
Smoke Developed	2-3	0-10

Floorboard is manufactured to satisfy the requirements of AS/NZS 1860.1

For further details on fixing Floorboard refer to AS/NZS 1860.2

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D&R Henderson - Mansfield Plant
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