



HAVWOODS
INTERNATIONAL



VENTURE PLANK
TECHNICAL INFORMATION



VENTURE PLANK

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OWNER/INSTALLER RESPONSIBILITY

The installer assumes all responsibility for the final inspection of product quality and for intended application. This inspection of all flooring boards should be done prior to installation. Carefully examine flooring for grading, finish and colour before installing it. The installer must use reasonable selectivity and hold out or cut off pieces with deficiencies, whatever the cause. If material is doubtful as to grade, manufacture or factory finish, do not install it and contact your supplier immediately. The installer/owner is responsible for determining if the job site subfloor and job site conditions are structurally and environmentally acceptable for the product and installation. The manufacturer/importer declines any responsibility for floor failure resulting from or connected with subfloor, subsurface, job site damage, jobsite environmental deficiencies or, atmospheric conditions or deficiencies after hardwood flooring has been installed. All substrates must be dry, clean, structurally sound, and level. Use of appropriate products for correcting subfloor voids should be accepted as a normal industry practice. Warranties do not cover materials with visible defects or colour variation once they are installed. The natural characteristics of wood cause variations in colour, grain and it is the installer's responsibility to ensure natural colour variation is considered and distributed evenly throughout the floor. Colour variation is not a defect.

TRANSPORTATION / ON-SITE STORAGE / INSTALLATION

Damage due to improper transportation, storage, installation or extreme indoor conditions (extreme heat, dryness, moisture, foot traffic), extreme sunlight, excessive wear and usage, or any other cause is not covered. Exposure to this may cause damage to the flooring boards. Due to wood being a product produced by nature, some contractions or expansions will occur. These occurrences, and/or visual changes in the floor will self-correct due to seasonal climate changes, and/or maintaining suggested normal environmental conditions. Warranty excludes any surface checks/splits caused by

VENTURE PLANK

ABOUT VENTURE PLANK

AT HAVWOODS WE BECAME CONVINCED THAT ENGINEERED TIMBER FLOORING WAS BETTER SUITED TO OUR AUSTRALIAN CLIMATE; SO CONVINCED THAT WE CONCENTRATED ON IT ENTIRELY, TO THE EXCLUSION OF SOLID TIMBER PRODUCTS.

- David Hickson, Managing Director, Havwoods



Engineered timber is stable, so it is far, far less likely to cup, warp, bow or gap given changes in humidity, and it can usually be fitted over underfloor heating. Since it is so stable, it also means that much wider planks can be produced. It offers alternative and easier methods of installation and is usually pre-finished, which offers not one but two benefits: it reduces time (and nasty surprises) on site and opens the door to an enormous range of incredibly attractive finishes.

With Venture Plank, we can offer you a competitively priced alternative to solid timber boards, which calls for absolutely no compromise in either appearance or engineering quality.





INSTALLATION GUIDE

GLUE DOWN INSTALLATION WITH A TONGUE AND GROOVE JOINT

PREPARATION

Read the instructions carefully before laying. Store the boards in their packaging and open them as you need them.

When gluing down Venture Plank it must be fully bonded to the sub-floor using an appropriate wood floor adhesive. Follow the adhesive manufacturer guidelines relating to coverage rate and type of trowel / method of application. As a rough guide most adhesives require a coverage rate of 1 kg of adhesive per m.

- The sub-floor must always be dry, flat and firm. In the situation where the flooring is being directly glued to a concrete slab the moisture content of the slab must be 2.75% MC or less measured with a Capacitance Moisture Meter.
- Venture Plank can be installed over radiant heat provided that the heating system gives an efficient and even heat distribution over the whole floor. The surface temperature of the floor must never exceed 27°C wherever you measure on the floor (under carpets, under furniture etc.). Beech and Hard Maple Venture Plank swells and shrinks more than other types of wood. Underfloor heating causes increased drying and this may result in extra shrinkage. If the climate is cold and dry, such as in Scandinavia, gaps between planks could occur.
- Check the flatness of the subfloor. This is easy to check with a straight edge with a measured length of 2m or 0.25m. Over a measured length of 2m the deviation must not be larger than ± 3 mm. If a 0.25m straight edge is used the maximum deviation should not exceed 1.2mm. Any deviation greater than the maximum quoted must be corrected before installation can take place.
- The Relative Humidity in the room must not exceed 60%. If the RH is less than 30% there is an increased risk of the planks becoming concave. Both the room and the planks should be heated to at least 18°C. Parquet floors should not be exposed to moisture and must be protected against moisture from the sub-floor with a moisture barrier. We recommend that the floor is protected with an epoxy based surface damp proof membrane.
- It is essential that a moisture barrier is installed on sub-floors constructed of newly-cast concrete joists, lightweight concrete joists, concrete joists that bear directly on ground, crawl space foundation or underfloor heating systems. If the relative humidity is over 65%, flooring must not be installed.
- If the sub-floor is concrete and an expansion joint is present, it is essential that an expansion joint is located in the wood floor at the same position. Failure to install an expansion detail will result in visible cracks appearing in the surface of the floor at this point. Havwoods recommends you speak to your architect or builder.

WORKING WITH ADHESIVE

Always ensure that good working practices are observed care should be taken that there is adequate ventilation. Read and assess the risks involved with the adhesive that is to be used. Many adhesives are hazardous to health and breathing apparatus may be required.

For detailed information refer to the safety data sheet from the adhesive manufacturer. When installing the floor avoid adhesive being pushed into the open grooves as this will make the individual boards difficult to install.

VENTURE PLANK

INSTALLATION

First calculate how many floor boards you will need in the width of the room. If the last row of boards will be narrower than 30mm you should cut the first row to leave the start and finish boards at same width. When installing Venture Plank with mechanical joint, it is easiest to start the installation on the long-wall with the most doors. If there are doors on the short side of the room, begin each plank row at these. The boards can be laid from both left or right as well as backwards.

1. Using the starting wall as a reference, snap a chalk line on the subfloor. The chalk line represents 2 rows of boards plus the required expansion gap required for perimeter walls. Note: An expansion gap is not necessary at interior obstructions, e.g. fireplaces when fully gluing the floor.
2. In bigger rooms it is easier to align the boards to a straight edge with the chalk line and secure it to subfloor to work against.
3. Open two or three cartons of flooring and “rack” (dry-lay) material prior to installation to ensure proper end joint stagger and usage of all board lengths packaged in each carton.
4. The first floor row sometimes needs to be adjusted to a crooked wall. Draw the contour of the wall on the floor planks. Then detach the planks in the first row by taking hold of the long side, pulling it upwards while knocking gently against the joint. Saw along the line.
5. Spread adhesive in area between chalk line (straight edge) and wall. Use only as much adhesive as can be used during the open time of the adhesive.
6. In smaller rooms the easiest is to lift/push the dry-laid boards so they align to the chalk line. If you use a straight edge: Starting in corner, with tongue sides facing starting wall and under lip side directly up against straight edge, lay board into adhesive. Continue in this manner for entire row. Remember to shim at both ends and along the long wall.
7. Use cut off from first row to start second row. With tongue side facing first row, fully engage boards using a jemmy or last board puller. Ensure end joint stagger from row to row is a minimum of 30 cm. Always engage the short end joint first. If you use a straight edge to work against use a jemmy or last board puller to engage the long side.
8. When working against a straight edge: after first two rows are installed, ensure expansion gap between boards and walls are shimmed securely. If recommended by adhesive manufacturer, roll flooring with 50kg. roller to ensure contact between flooring and subfloor. Place weight (e.g. unopened cartons) along perimeters until adhesive sets up. Remove straight edge.
9. Once starting rows are firmly in place, apply adhesive in a “wet lay” method. Do not apply more adhesive than can be used within open time of adhesive. Immediately place flooring in “wet” adhesive and proceed with installation.
10. Start each row with cut off end of last board from previous row maintaining a minimum of 30 cm end joint stagger from row to row.
11. Engage second board in third row, and subsequent boards, as described earlier.
12. Drill holes in the planks for radiator pipes. Please remember that the holes must be oversize to allow for expansion, use the same calculation that is included under preparation to determine hole size. Cover the hole with pipe covers
13. If you need to cut an architrave, use a floor plank as a guide to get exactly the right height
14. The last plank row is sawn to the right width. Place the last plank on top of the next to last plank row so that there is a 5mm stagger next to the wall. Mark where the saw cut should be using a piece of plank without an under-lip. Lay the sawn plank. When you fit the skirting board don't press it down too hard so that the floor is restricted from moving. This also applies to all other mouldings.

NOTE: All adhesive fixed floors require expansion allowance at skirtings and around fixed objects the minimum expansion allowance at the floor perimeter and to vertical objects shall be a minimum of 10mm in lower humidity internal environments (averaging about 55% relative humidity or below) and a minimum of 15mm in high humidity or where greater seasonal movement is experienced

TIP: AFTER FIRST THREE ROWS ARE LAID, HAVE ONE INSTALLER WORK ON LAYING FLOORING WHILE OTHERS SPREAD ADHESIVE AND CUT BOARDS AS NEEDED.

VENTURE PLANK

GLUE DOWN INSTALLATION OF A MULTILAYER PARQUET WITH TONGUE AND GROOVE JOINT

AFTER INSTALLATION

Remove expansion shims and install required mouldings and/or trim pieces to cover expansion gaps. Always fix the mouldings to the wall, never to the flooring

CLEAN UP

Immediately clean any adhesive spilled on wood flooring during installation. Follow adhesive manufacturer's recommendations.

CURING

- Keep foot traffic to absolute minimum until adhesive is fully cured (follow manufacturer's recommendations).
- Wait at least 24 hours before placing furniture back in room and resuming normal traffic.

If you plan to carry out more building work in the room you should cover the floor with protection that allows the floor to breathe.

If you find a damaged or faulty plank, put it to one side. It could be surplus, used for finishing off or be changed where you bought your floor. **The person installing the flooring is responsible for ensuring that boards with obvious faults are not installed.**



VENTURE PLANK

INSTALLATION OVER UNDERFLOOR HEATING

Follow the installation instructions that are included in each pack. This instruction leaflet deals specifically with installations on under floor heating systems.

REQUIREMENTS FOR INSTALLATION

Immediately clean any adhesive spilled on wood flooring during installation. Follow adhesive manufacturer's recommendations.

CURING

- The underfloor heating system must have a heat distribution layer that provides a very even temperature across the entire floor area, in order to avoid hot spots.
- The entire living area must be heated.
- It must be possible to control and limit the surface temperature accurately.
- The surface temperature of the floor must never exceed 27°C. This applies next to and above the pipes to radiators, over pipe runs and under rugs, furniture etc.
- A vapour barrier must be included in the floor construction and it should lie as near to the wood floor as possible. In most cases this means that it will be installed between the sound reducing underlay and the surface of the concrete.

The wood floor must lie tight against the sub floor without air gaps that can cause substantial drying of the wood. It is therefore essential that particular care is taken to ensure that the subfloor is flat in accordance with the general installation instructions.

CHOICE OF WOOD FLOOR

One of the big advantages with multilayer Venture Plank is that they do not move as much as solid wood floors. This becomes obvious on underfloor heating where the increased dryness (because of the higher temperature) creates greater shrinkage than for floors without underfloor heating. Multilayer floors of Beech and Hard Maple expand and contract more than other species. Underfloor heating results in greater drying and this can cause additional shrinkage. In dry cold climates, such as Scandinavia, gaps can appear between strips and between boards.

INSTALLATION

When installing, the room and boards must be heated to at least 18°C. The Relative humidity must be less than 60 % before, during and after the installation.

Note that the demand on expansion gaps in doorways increases when a floor is installed on underfloor heating.





CARE & MAINTAINENCE

OILED ENGINEERED WOOD FLOORING

CLEANING

Engineered wood flooring prefinished with a oil gives it a smooth, easy-to-clean surface. With any wood product it is wise to limit the amount of water that is used and we recommend regular vacuuming to control dust and prevent particles of grit from being walked into the surface. Periodically the floor can be cleaned with a well-wrung mop or spray mop system (recommended). Use a neutral detergent, maximum pH 8. Please ensure that any water that is applied becomes dry within one minute. A spillage will not mark your floor if you wipe it up immediately.

PREVENTATIVE MAINTENANCE

Door Mats: Keep a door mat both outside and inside entrance doors, this will remove dirt and gravel before it is walked in, which will greatly reduce the wear on your floor. Ensure you clean the mats regularly to keep them effective at removing dirt and grit.ors that are not brushed.

Furniture: Furniture legs should be fitted with felt pads to avoid unnecessary marks and scratches on the floor. Regularly check and clean the felt feet and replace when required. Use castor cups to protect the floor from castor damage.

Moisture Protection: Mop up any spills; never allow water or other liquids to lie on the floor. Please ensure that any water that is applied when cleaning becomes dry within one minute.

It is also very important to ensure that the floor is protected from moveable furniture, such as tables and chairs, and a simple solution to this is to protect the floor by applying felt furniture feet to underside of the furniture legs. A high quality example of these is the Sectino™ Felt Furniture Feet (order ref: HW105067). Regularly check and clean the felt feet to avoid / reduce embedded grip or particles scratching the wood surface.



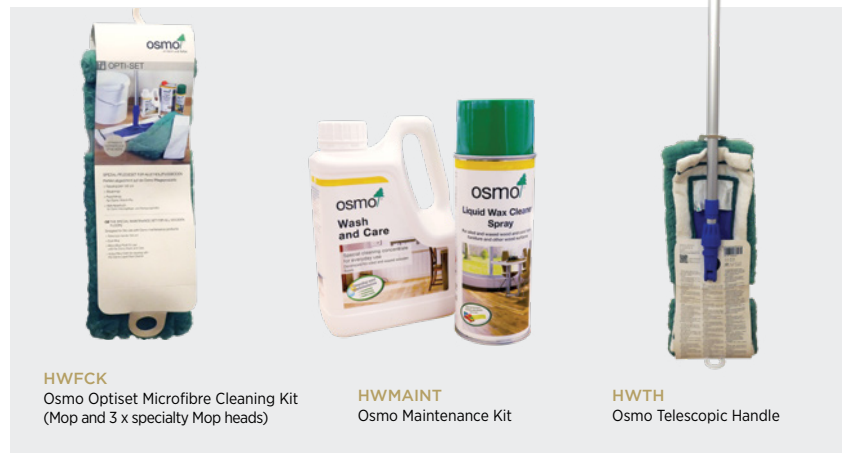
HOW TO LOOK AFTER YOUR FLOOR

An effective maintenance program will keep the floor clean and looking as good as possible. The flowing information is designed to provide a starting point for such a program and is appropriate for both commercial and domestic floors. However, all floors are unique and will require individual assessment because the factors affecting them will vary. Changes in traffic levels and seasonal changes will also need to be taken into consideration, for example, additional matting may be required during periods of snow or heavy rain. The frequency of any maintenance should effect the use of the floor, and should be altered accordingly.

VENTURE PLANK

Dry Cleaning: Floors should be cleaned daily using dry cleaning methods, such as vacuum or dust control mop, such as a standard anti-static dust mop. This will remove any particles of dust and grit which may scratch the floor seal when trafficked under footwear, chair legs, and other items moved across the floor.

Damp Cleaning: Soluble dirt should be removed by cleaning using a mop system such as the Osmo Telescopic Handle with the Osmo Optiset Microfibre Cleaning Kit – a sturdy mop and set of 3 mop heads that includes a microfibre dust mop head. The removable cleaning head (which is machine-washable) should be replaced periodically to ensure effective maintenance.



The solution to be used for frequent cleaning of oiled wooden surfaces is the Osmo Maintenance Kit of liquid cleaning solutions (order ref: HWMKF), which cleans, and refreshes the floor in one operation, without leaching the surface.

NOTE: The Osmo Telescopic Handle, Optiset Microfibre Cleaning Mop Head Kit, and the Maintenance Kit of Liquid Cleaning Solutions are all available from Havwoods and can be purchased individually or together as a complete cleaning solution.

ADDITIONAL CLEANING

Wooden floors often become scratched and dull over time and require reviving. This can be done by preparing the surface and re-applying a ready-to-use solution. This process not only revives dull and scratched surface but will improve wear protection. Please contact your Havwoods consultant to discuss your options further.

THE LIFE CYCLE OF THE FLOOR

Periodically it will be necessary to re-finish previously oiled floors. Depending on the surface condition, the degree of sanding required will vary and in some circumstances the floor will have to be sanded back to bare wood prior to oil application. Removal of all contaminates is required.

NOTE: It is good practice to keep left over extra boards when your floor is first installed. This allows you to simply replace any damaged boards rather than needing to re-finish the damaged board.





WARRANTY

VENTURE PLANK WARRANTY



20 YEAR WARRANTY FOR VENTURE PLANK BOARDS

Congratulations on your purchase of a Venture Plank hardwood floor. In addition to your statutory rights we offer a 20-year warranty for floors in residential areas. This warranty applies to all Venture Plank floors that are installed, used and maintained in accordance with our instructions. The length of warranty that applies will depend on the thickness of the wear surface. This warranty is not transferable.

Warranty

Your Venture Plank hardwood floor has been manufactured according to our own quality control standards. This is still sufficient for at least one sanding.

- The warranty applies to Venture Plank floors installed and maintained in accordance with our instructions.
- The warranty provides cover in the event that the wear surface is worn through. The wear surface consists of the hardwood surface layer complete with surface finishes (i.e. lacquer)
- The warranty does not apply in the event of poor maintenance, spot damage, scratches or negligent use.

This warranty is an improvement on the rights enjoyed by the customer in accordance with current national and AU-consumer legislation and without prejudice to statutory implied conditions and warranties.

The warranty applies to floors installed in homes on the condition that our installation-, care and maintenance instructions for the floor have been adhered to throughout the warranty period.

Glue Down Installation

Venture Plank hardwood flooring can also be fully bonded to any suitable subfloor in accordance with our laying instructions.

The conditions of this warranty shall not be regarded as in any way limiting or excluding any liability Havwoods may have to the customer under any relevant statutory regulations concerning product liability. Instructions with regard to installation, care and maintenance are enclosed with the product when it is delivered. If the instructions are lost, a new copy can be obtained directly from Havwoods or from the internet at www.havwoods.com.au. If minor separations occur due to seasonal humidity changes, they are not covered by this warranty. This warranty does not apply to any products designated or sold as "B" grade.

Reporting Faults

Complaints in respect of faults which are covered by the warranty must be sent in writing to Havwoods within 30 days from the time the fault is first noticed.

The complaint should be accompanied by proof of purchase and a photograph of the problem. Following receipt of this information we will contact you further to discuss how to best resolve the matter.

Service in Case of Faults

Complaints in respect of faults which are covered by Havwoods will remedy faults for which it is responsible as specified above free of charge by repairing the fault or supplying a new product at its own discretion. If the product sold cannot be manufactured any longer or is no longer in stock, Havwoods reserves the right to supply another similar product.

SAFETY DATA SHEET

SAFETY DATA SHEET



1. IDENTIFICATION OF THE PRODUCT AND THE PRODUCER

Product name:	Venture Plank
Intended use:	Wooden floor covering
Name and address of company:	Havwoods International 89 Racecourse Road Rutherford, NSW, 2320 Ph: 1300 428 966

2. COMPOSITION

Description:	Decorative flooring panel
Measurements:	1950/2400 x 180 x 13mm 120 x 600 x 13mm 1950/2400 x 180 x 19mm 1950/2400 x 180 x 20mm
Construction:	Consists of a birch plywood core, bonded to veneer of hardwood (wear surface)
Surface finish:	Osmo Polyx Oil

3. HAZARD IDENTIFICATION

This product in use is non hazardous

4. FIRE FIGHTING MEASURES

As with all wood products any extinguishing media may be used

5. HANDLING AND STORAGE

Full packs are heavy and care should be taken when lifting, exercise good working practice at all times. Store in a dry environment at 18 - 20° Celsius with humidity at 40-60 % and away from sources of heat or direct sunlight.

6. EXPOSURE CONTROL/ PERSONAL PROTECTION ENGINEERING MEASURES:

When cutting boards dust will be generated, the amount of dust and the size of the particles released will depend upon the type of saw being used. Wood dust is considered as hazardous and it is essential that all power tools are fitted with efficient dust extraction to ensure that the level of dust is controlled below the workplace exposure limit (WEL) of 5 mg/M3 (8 hour TWA)







FIRE TEST REPORT

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
 A.B.N. 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O. Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

CLIENT : HAVWOODS
 89 RACECOURSE ROAD
 RUTHERFORD NSW 2320

TEST NUMBER : 7-585444-CN
 ISSUE DATE : 15/06/2012
 PRINT DATE : 15/06/2012

SAMPLE DESCRIPTION Clients Ref: "Havwoods"
 20/21 mm Engineered Oak Flooring
 Colour: Natural
 Approximate thickness: 21mm

Material Specification:
 Nominal composition: Timber

ASISO 9239.1-2003
 Part 1

Reaction to Fire Tests for Floorings
 Determination of the Burning Behaviour
 using a Radiant Heat Source

Date of sample arrival: 03/05/2012
 Date tested: 13/06/2012

Results:	CHF (Critical Heat Flux / Critical Radiant Flux)				
	1	2	3	Mean	
Length	3.4	3.1	3.4	3.3	kW/m2
Width	3.8	-	-	-	kW/m2

Smoke Value

Length	6	8	8	7	% min
Width	6	-	-	-	% min

Note: Sample was conditioned in accordance with BSEN 13238-2001 at a temperature of 23+/-2degC and Relative Humidity of 50+/-5% for a minimum of 48 hours prior to testing

Observations: Glowing

Each specimen was clamped to a substrate of 6mm thick fibre reinforced cement board prior to testing.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test, they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use

194329 1 (END OF REPORT) PAGE 1

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 -Chemical Testing of Textiles & Related Products : Accreditation No. 983
 -Mechanical Testing of Textiles & Related Products : Accreditation No. 985
 -Heat & Temperature Measurement : Accreditation No. 1356

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0204/11/06

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc (Hons)
 MANAGING DIRECTOR

FIRE RATING CERTIFICATE - FLOORS - 20MM

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
 A.B.N 43 006 014 106
 1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
 P.O Box 240, North Melbourne, Victoria 3051
 Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

Client : Havwoods
 89 Racecourse Road
 Rutherford NSW 2320

Test Number : 19-005943
Issue Date : 25/11/2019
Print Date : 27/11/2019

Sample Description Multi-layered Engineered Flooring
 Colour : Timber look
 End Use : Flooring, Wall/Ceiling/Joinery Lining
 Nominal Composition : Timber veneer, Plywood
 Nominal Mass per Unit Area/Density : Approx 13.9kg/m2
 Nominal Thickness : Approx: 20mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 25/11/2019
 Operator AWTA Test Operator 7
 Face Tested Face

	Specimen				Mean	
	1	2	3			
Average Heat Release Rate	63.4	65.9	69.7	66.3		kW/m ²
Average Specific extinction area	16.5	64.8	27.9	36.4		m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3			
Irradiance	50	50	50	50		kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024		m ³ /s
Time to sustained flaming	28	28	31	29		sec
Test duration	3600	3600	3600	3600		sec
Peak heat release after ignition	222.8	184.9	194.0	200.6		kW/m ²
Average heat at 60 s	123.5	130.1	125.9	126.5		kW/m ²
Average heat at 180 s	115.5	117.2	112.5	115.1		kW/m ²
Average heat at 300 s	106.4	107.0	100.9	104.8		kW/m ²

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc. (Hons)
 MANAGING DIRECTOR

0204/11/06



VENTURE PLANK

FIRE RATING CERTIFICATE - FLOORS, WALLS AND CEILINGS - 20MM

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : Havwoods
89 Racecourse Road
Rutherford NSW 2320

Test Number : 19-005943
Issue Date : 25/11/2019
Print Date : 27/11/2019

Sponsor Product Multi-layered Engineered Flooring
Colour : Timber look
End Use : Flooring, Wall/Ceiling/Joinery Lining
Nominal Composition : Timber veneer, Plywood
Nominal Mass per Unit Area/Density : Approx 13.9kg/m²
Nominal Thickness : Approx: 20mm

Product Group Number Classification : 3
Average Specific Extinction Area : 36.4 m²/kg



Fiona McDonald
Testing Technologist

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FIRE RATING CERTIFICATE - FLOORS, WALLS AND CEILINGS - 12MM

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : Havwoods
89 Racecourse Road
Rutherford NSW 2320

Test Number : 19-005941
Issue Date : 25/11/2019
Print Date : 27/11/2019

Sponsor Product Multi layered engineered flooring
Colour : Timber look
End Use : Flooring/Ceiling or Wall Lining/Joinery
Nominal Composition : Timber veneer, plywood
Nominal Mass per Unit Area/Density : Approx 8400g/m²
Nominal Thickness : Approx: 12mm

Product Group Number Classification : 3
Average Specific Extinction Area : 27.3 m²/kg



Fiona McDonald
Testing Technologist


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CRADLE TO CRADLE SILVER CERTIFICATION

LICENSED MARKS:



Cradle to Cradle Certified™ Silver
THE LICENSED MARKS IDENTIFIED ABOVE MAY BE LICENSED TO:

FB Houtdistributeur BV

FOR THE BELOW LISTED CERTIFIED PRODUCTS ASSOCIATED WITH THE NAME:

FB+ Engineered Flooring

Only the following products are considered Certified Product(s) within the scope of this certification and the associated Trademark License Agreement:

- FB+ Design Parquet (size 13 & 21 mm)
- FB+ Wide Plank Flooring (size 13 & 21mm)
- FB+ Prestige Flooring (19 & 25 mm)



2 sizes per product, 10 lacquers optional per product

Peter Ampleton
Cradle to Cradle Products Innovation Institute

CERTIFICATION #	4130
START DATE	29 October 2019
EXPIRATION DATE	03 September 2020

LEAD ASSESSMENT BODY:
SGS Search Consultancy, a division of SGS Search Ingenieursbureau B.V.

MATERIAL HEALTH ASSESSMENT BODY:
Arche Consulting



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SLIP TEST CERTIFICATE



ON SITE WET & DRY FLOOR SLIP TESTING SERVICES
Over 15 years experience in Slip Prevention Technology

ABN 51 590 707 895
27 Thomas Mitchell Road Killarney Vale NSW 2261
PH: 1300 Sliptest (1300 754 783)

SLIP RESISTANCE CLASSIFICATION OF NEW PEDESTRIAN SURFACE MATERIALS AS 4586 (2013) "Appendix A" (Wet Pendulum Method)

Client:	Havwoods Timber Flooring Company		Client Address	89 Racecourse Road, Rutherford. NSW. 2320					
Project:	Test samples as directed								
Property Tested:	89 Racecourse Road, Rutherford. NSW. 2320	Date	08/10/2015	Test Report	081020151	Issue Date	09/10/2015		
Testing was carried out using the Wet Test Method, using Type 96 (4S) rubber slider, in accordance with Australian Standard AS 4586 Appendix A. Slider was conditioned/prepared using P400 abrasive paper and 3 µm pink lapping film.									
Description of test sample (including any surface coatings, contamination and wear).	Specimen Number	Test Location	Test Type Fixed/Unfixed	Surface Gradient Degrees	Type and extent of cleaning performed	Results of last three swings British Pendulum Number		Slope correction value (SCV)	Comments
						Mean BPN Value (SRV)	Classification		
1610 mm x 180 mm Oiled and Sanded.	1a	Right	Unfixed	<1.5°	Water Only	37	36	Not Applicable	Variation to standard. One board only available for testing. Board tested along length at five points with varying grain textures.
	1b	Centre Right.	Unfixed	<1.5°	Water Only	37	36	Not Applicable	
	1c	Centre.	Unfixed	<1.5°	Water Only	36	36	Not Applicable	
	1d	Centre Left.	Unfixed	<1.5°	Water Only	37	36	Not Applicable	
	1e	Left.	Unfixed	<1.5°	Water Only	36	36	Not Applicable	
Temperature: 21°C		Weather:		Indoors		Mean BPN Slip resistance Value (SRV)		36	P3
Testing Officer & Signatory Mark McKay		Sliptest NSW Materials Testing Laboratory – Accreditation No: 18615 27 Thomas Mitchell Rd, Killarney Vale. NSW 2261							
Testing Instrument: Munro Portable Skid Tester #1109 Calibration Date: 14th May 2015		Accredited for compliance with ISO/IEC 17025. The results of the tests, calibrations and/or measurements are traceable to Australian/National standards							
Notes / Remarks / Variations									
1 Fixed Test: Testing is performed in the anticipated direction of pedestrian travel.									
2 Unfixed Test: Testing is performed in the direction of least anticipated slip resistance									
3 Variation to standard. One board only available for testing. Board tested along length at five points with varying grain textures									
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