

STRUCTA™

IT'S GOTTA BE STRUCTA™

PRODUCT BROCHURE



STRUCTAflor®

LEADING BRANDS

For over 50 years STRUCTAflor® remains the most trusted name in Australian flooring. Certified to AS/NZS 1860.1 and engineered for modern construction, it delivers strength, precision and reliability builders count on, job after job.

STRUCTAflor® General Purpose YELLOWtongue® remains the leading product in its class. Its proven reliability and durability make YELLOWtongue® the clear flooring choice for many builders.

LEADING BRANDS

In the building business, your reputation is only as good as the materials you use. That is why when it comes to structural particleboard flooring, you need a product you can trust and a partner you can rely on to keep pace with ever-changing lifestyle and construction requirements.



Our Leading Brands

STRUCTAflor® General Purpose, STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate offer a practical, flexible and cost effective choice when building your new home or extension. With a comprehensive range of options, they are ideal for: sub-floors, suspended floors in multi-storey construction, additions and extensions and commercial flooring; as well as a host of building applications.

With over 50 years of proven performance, STRUCTAflor® remains the leading product in its class. The trusted performance of STRUCTAflor® General Purpose, STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate makes the range a clear choice for builders. As the first product of its kind to market, STRUCTAflor® continues to lead the way in the innovation and development of flooring solutions.

STRUCTAflor®

A range of high-performance structural flooring panels available in three product categories: General Purpose, Termite Treated, and Ultimate.

- Resin-enriched surface for enhanced weather protection during construction for up to 5 months (7 months for Ultimate).
- Certified to AS/NZS 1860.1 for strength, stability and performance.
- Manufactured to precise standards for a secure fit with standard joist layouts, keeping installation fast and reliable.
- Wax-impregnated and edge-sealed for long-term moisture resistance and easy product identification.
- Proudly Australian made from managed and renewable plantation pine.

Note: Particleboard flooring is not to be used in weather exposed end applications.

YELLOWtongue® – 19mm

An internal, general-purpose flooring solution designed primarily for residential buildings, suitable for both platform and fitted flooring construction methods. YELLOWtongue® is engineered to support imposed loads in general residential areas in accordance with AS/NZS 1170.1:2002 Structural design actions, Part 1: Permanent, imposed and other actions.

At 19mm thickness, the maximum joist spacing for YELLOWtongue® STRUCTAflor® General Purpose, STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate is 450mm for general residential applications.

REDtongue® – 22mm

REDtongue® is a thicker, general-purpose flooring solution designed for larger joist spacings or higher load capacities. At 22mm thickness, the maximum joist spacing for REDtongue® STRUCTAflor® General Purpose, STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate is 600mm for general residential applications.

	YELLOWtongue®	19mm
	REDtongue®	22mm
	BLUEtongue®	25mm

BLUEtongue® – 25mm

A 25mm thick particleboard flooring specifically for residential, commercial, industrial and institutional buildings. Subject to span and deflection limits, STRUCTAflor® General Purpose may be used over various floor joist spacings to support a wide range of concentrated and uniformly distributed loads.

Floor loads will depend on the nature of occupancy and floor use. Refer AS/NZS 1170.1. When used over floor joists at 450mm maximum centres, 25mm thick BLUEtongue® will support live loads in excess of 10kPa uniformly distributed and 4.0kN concentrated.

PRODUCT FEATURES

Designed to provide a complete flooring solution, **STRUCTAflor® General Purpose**, **STRUCTAflor® Termite Treated** and **STRUCTAflor® Ultimate** are ideally suited to platform construction, where the floor is laid prior to the erection of walls. The sheets are manufactured from precision-milled wood flakes bonded with moisture-resistant synthetic resin. For added protection during construction and weather exposure, the upper surface is resin-enriched and all tongue and groove edges are sealed.

The factory-grooved long edges are fitted on one side with a distinctive, colour-coded rigid polypropylene (PP) tongue to ensure a neat, tight fit between adjoining panels.

STRUCTAflor® General Purpose, STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate are available with YELLOWtongue®, REDtongue® and BLUEtongue® tongue colour options. The tongue and groove sheets are supplied in easy-to-handle 600mm and 800mm widths. This comprehensive range allows flooring to be selected to suit specific project requirements, while ensuring full compatibility and fast coverage across large areas.

			
Thickness	19mm	22mm	25mm
Joist Spacing (max)	450mm	600mm	600mm
STRUCTAflor® General Purpose			
3600 x 800mm	✓	✓	na
3600 x 600mm	✓	✓	✓
STRUCTAflor® Termite Treated			
3600 x 800mm	✓	✓	na
3600 x 600mm	na	na	✓
STRUCTAflor® Ultimate			
3600 x 800mm	✓	✓	na

STRUCTAflor® General Purpose

General purpose particleboard flooring manufactured in Australia that complies with the requirements for Particleboard Flooring, Class 1, under AS/NZS 1860.1 Particleboard flooring. Featuring a durable, resin-enriched surface and yellow edge coating on PP-tongued variants, it delivers reliable performance for residential flooring applications.

STRUCTAflor® General Purpose is available in YELLOWtongue®, REDtongue®, BLUEtongue® and Square Edge variants.



STRUCTAflor® Termite Treated

A termite-protected flooring solution that provides added defence against termite attack. It should be used in conjunction with standard termite management practices, including adequate subfloor ventilation and the installation of physical or chemical barriers in accordance with AS 3660.1 Termite management, Part 1: New building work.

STRUCTAflor® Termite Treated is safe to use, environmentally responsible, and easily identified by its blue edge colouring.



STRUCTAflor® Ultimate

STRUCTAflor® Ultimate is a particleboard flooring solution featuring a foil laminate applied to the underside of the board. The low-emittance, high-reflectance metallised foil significantly reduces radiative heat transfer across suspended timber floors. Combined with the subfloor air space, this delivers an improvement in the overall total R-value of the flooring system.

STRUCTAflor® Ultimate incorporates a termicide for added protection against termite attack and is easily identified by its blue edge coating.



PRODUCT FEATURES

Key Points

Storage

STRUCTAflor® is designed to withstand full weather exposure for up to five months. However, packs should not be left unprotected on site prior to installation. STRUCTAflor® must be protected from the weather until it is installed, as moisture penetration before installation may result in gaps at flooring joints as the product dries.

When storing outdoors, ensure packs are kept clear of the ground and covered with waterproof sheeting. The cover should be supported on timber battens to allow free air circulation between the sheeting and the product.

Exposure

The product may be exposed to the weather for up to five months. However, it is recommended that the building be enclosed as soon as possible after the floor is laid. During this exposure period, prevailing weather conditions may affect the surface condition of the board and can result in minor swelling once the building is enclosed. Any swelling can be rectified by sanding, provided the depth of material removed does not exceed:

- 1mm over the general panel area
- 2mm within 50mm of any supported edge

Any water that ponds on the platform should be removed by sweeping or by drilling drainage holes no larger than 8mm in diameter and spaced no closer than 1m apart.

Installation

Adhesives

The Australian Standard allows for either flexible or rigid construction adhesive to be used.

Fasteners

Screw fixing is the preferred method, however the Australian Standard allows for either screw or nail fixing into timber joists.

Product Details

Thickness: 19mm, 22mm and 25mm nominal.

Surface Qualities: Upper surface is unsanded to retain a resin film, retard moisture and provide a working surface during installation.

Edge Coating: Factory applied to all edges of tongue and grooved sheets to reduce moisture ingress.

- Yellow coating for STRUCTAflor® General Purpose
- Light blue coating for STRUCTAflor® Termite Treated and STRUCTAflor® Ultimate

Edge Profiles: Tongue and grooved long edges with square cut ends.

Tongue System: Factory fitted, rigid PP tongues ensure a tight fit and precise alignment of unsupported edges.

Resin: Synthetic resins for high moisture resistance.

Identification: Stamps on the underside of boards indicate required joist spacings.

Note:

AS 1860.2 Particleboard Flooring – Installation recommends that panels be factory sealed against water penetration. Where panels are not factory sealed, and where panels are cut to size on site, the edges should be sealed with adhesive used to bond the panels to the joists.

The Facts That Matter

- Resin Enriched Surface
- Edge Coat
- Wax Impregnated throughout
- Synthetic Resin System
- Meets or Exceeds AS/NZS 1860.1

STRUCTAflor® General Purpose and STRUCTAflor® Termite Treated range:

- 800mm wide sheet
- 600mm wide sheet
- Australian Plantation Pine
- Built on 50 years of trust

Resistant to Termites

STRUCTAflor® Termite Treated is resistant to termites both north and south of the Tropic of Capricorn.

PRODUCT SPECIFICATIONS

Product Range

IN	Product	Sheet Dimensions		Weight Chart				
		Thickness mm	Sheet Size mm	Pack Size	Sheet Weight kg	Pack Weight kg	Coverage/sheet m ²	Domestic Flooring Max. Joist Spacing mm
116214	General Purpose	19 - YELLOWtongue®	3600 x 600	30	27.29	818.7	2.16	450mm
20010	General Purpose	19 - YELLOWtongue®	1800 x 800	30	20.33	609.9	1.44	450mm
20011	General Purpose	19 - YELLOWtongue®	3600 x 800	30	37.2	1116	2.88	450mm
457119	General Purpose	19 - YELLOWtongue®	1800 x 600	30	14.06	421.8	1.08	450mm
118787	General Purpose	19 - YELLOWtongue®	3600 x 600	30	31.6	948	2.16	450mm
20013	General Purpose	19 - YELLOWtongue®	3600 x 800	30	43.39	1301.7	2.88	450mm
20015	General Purpose	19 - YELLOWtongue®	1800 x 800	30	21.7	651	1.44	450mm
123791	General Purpose	19 - YELLOWtongue®	3600 x 600	30	36.99	924.75	2.16	450mm
20020	Termite Treated	19 - YELLOWtongue®	3600 x 800	30	37.48	1124.4	2.88	450mm
20021	Termite Treated	22 - REDtongue®	3600 x 800	30	43.39	1301.7	2.88	600mm
442149	Termite Treated	25 - BLUEtongue®	3600 x 600	25	35.91	897.75	2.16	600mm
20030	Ultimate	19 - YELLOWtongue®	3600 x 800	30	36.39	1091.7	2.88	450mm
20031	Ultimate	22 - REDtongue®	3600 x 800	30	42.13	1263.9	2.88	600mm

Particleboard Flooring Properties

Property	Units	Thickness		
		YELLOWtongue® 19mm	REDtongue® 22mm	BLUEtongue® 25mm
Density	kg/m ³	680	680	680
Bending Strength (MOR)	MPa	24	21	24
Bending Stiffness (MOE)	MPa	3500	3250	3750
Internal Bond Strength	MPa	0.70	0.75	0.80
Surface Water Absorption	g/m ²	50	50	50
Thickness Swell (24 hr)	%	3	3	2
Glue Bond Durability	MPa	5.5	5.5	6
Glue Bond Quality	MPa	12	12	12
Thickness Stability	%	11	11	11
Formaldehyde Potential (Desiccator Method)	mg/L	1.3	1.3	1.3

The table contains typical properties for Australian produced particleboard flooring in internal application where they are not subject to prolong wetting or high level of relative humidity.

The equilibrium moisture content of the board should be maintained below 13%.

Table 2. Typical Property Values for Class 1 Particleboard Flooring

Source: Facts About Particleboard and MDF EWPA 2010 – www.ewp.asn.au



STRUCTAflor® General Purpose YELLOWtongue®, REDtongue®, BLUEtongue®

Porta is more than just a timber and panel supplier. We're a trusted partner, delivering purpose-driven products, reliable service, and local expertise. Proudly Australian, we're committed to lasting quality and progress.

The STRUCTA™ range is part of the Porta family. Built on generations of know-how, every product is engineered to perform under pressure and deliver the durability builders trust.

We've long been the backbone of the Australian building industry, driven by a genuine commitment to local manufacturing and getting the job done right. Strengthened by our STRUCTA™ range, we are continuing that legacy and setting the standard for structural building solutions.

Performance you can count on, powered by local knowledge and made to keep your projects moving with confidence.

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