

STRUCTA™

TOUGH WHERE IT MATTERS

PRODUCT BROCHURE



STRUCTApanel®



PRODUCT FEATURES

STRUCTApanel® is a high-performance structural particleboard ideal for internal wall lining, flooring underlay, bracing, and hoarding applications. Available in three finishes: Smooth, Double-Sided Black/White, and Tongue & Groove VJ150, it delivers strength, screw-holding power, and design flexibility across a wide range of applications.

Manufactured in Australia with the same durable materials used in our market-leading STRUCTAfloor® particleboard flooring, STRUCTApanel® boasts exceptional surface impact resistance and superior screw holding capabilities.

- Delivers high screw-holding capacity and strong impact resistance
- Manufactured in Australia using sustainable, certified plantation pine
- H2 termite-treated for long-term protection in residential construction
- Bracing-certified, providing compliance and reliability across wall and floor bracing applications
- Flat, knot-free surface with no splits or delamination for a clean, consistent finish

PRODUCT RANGE

Smooth

STRUCTApanel® Smooth provides a reliable solution for construction and manufacturing applications. Its smooth finish, H2 termite-treatment and durable composition make it an ideal choice for projects requiring strength, stability, and ease of installation.

- Bracing-certified, ensuring compliance with structural standards
- Clean, smooth surface that is easy to paint or finish
- Exceeds Livable Housing Design Standard Fixing Standard with a tested capacity of 1800 N, surpassing the 1100 N requirement
- Suitable for a wide range of uses, offering flexibility and cost efficiency across projects
- Engineered for long-term strength and performance even in demanding environments
- Consistent quality and compliance with AS/NZS standards

STRUCTApanel® Smooth 9mm: A bracing-certified, reliable panel ideal for internal wall linings in sheds, garages, modular builds and packaging applications

STRUCTApanel® Smooth 12mm: A durable structural panel designed for flooring underlay and interior wall linings

Double Sided Black/White

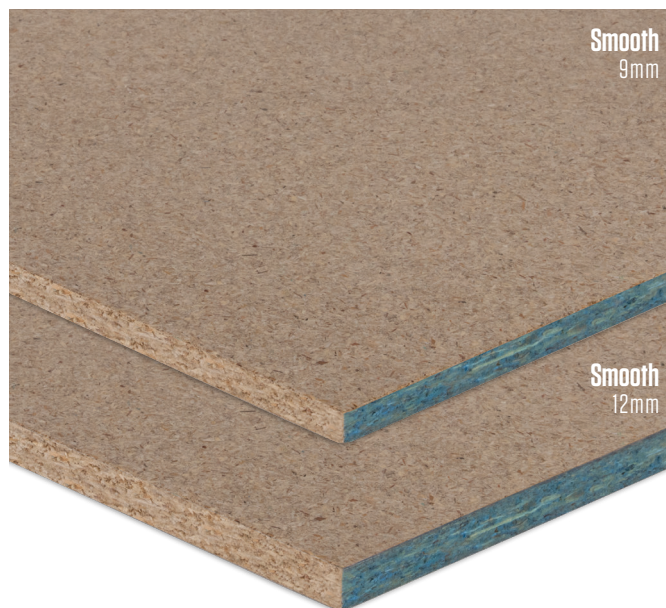
STRUCTApanel® Double Sided Black/ White is a high-performance, structurally certified panel designed for bracing, hoarding, and internal wall lining applications. Its smooth dual-finish surface, strength, and versatility make it the ideal choice for both residential and commercial projects.

- Bracing-certified to meet structural compliance where needed
- H2 treated for resistance to termites both North and South of the Tropic of Capricorn
- Smooth, double sided black and white pre-finished surface, eliminating the need for on-site painting or finishing
- Pre-primed black edges on all four sides
- Easy to cut, leaving smooth, clean edges
- Consistently flat with no internal delamination
- Versatile and cost-effective across a wide range of applications
- Backed by a 2-year substrate warranty for temporary external use

Tongue & Groove VJ150

STRUCTApanel® VJ150 is a bracing-certified wall lining panel with a durable 12mm thickness and decorative 150mm VJ groove profile. Its pink PVC tongue and groove system allows installation up to 50% faster and is three times tougher than plasterboard.

- Bracing-certified and H2 termite-treated, for compliance with structural standards
- Fast, simple installation with no joining strips required
- Consistently flat with no internal delamination
- Smooth, knot-free surface, no holes, splitting or splinters
- Easy to cut, leaving clean, precise edges



PRODUCT SPECIFICATIONS

Product Range

IN	Sheet Dimensions				Weight Chart				Applications						
	Product	Finish	Thickness mm	Sheet Size mm	Pack Size	Area/Pack m ²	Weight/sheet kg	Weight/pack kg	Bracing certified	Internal wall & ceiling panelling	Temporary hoarding	Timber flooring underlay	Dongas	Boxes/packaging	Sips manufacture
52741	Smooth	Raw	9	2440 x 1200	60	292.8	19	1140	✓	✓	-	-	✓	✓	✓
52740	Smooth	Raw	9	2745 x 1200	60	329.4	21.4	1284	✓	✓	-	-	✓	✓	✓
52739	Smooth	Raw	9	3050 x 1200	60	366.0	23.8	1428	✓	✓	-	-	✓	✓	✓
55595	Smooth	Raw	12	2400 x 1200	45	129.5	24.4	1099	-	✓	✓	✓	✓	✓	✓
58901	Smooth	Raw	12	3600 x 1200	45	194.4	36.6	1647	-	✓	✓	✓	✓	✓	✓
56725	T&G VJ150	Raw	12	2400 x 1200	30	86.4	24.4	732	✓	✓	-	-	✓	-	✓
58973	Double Sided Black/White	Pre-finished	12	2400 x 1200	45	129.5	24.4	1099	✓	✓	✓	-	✓	✓	✓

Performance Criteria (Typical Results Achieved)

		STRUCTApanel® 12mm	Non-Structural Pine Plywood	STRUCTApanel® 9mm	OSB 9mm	Plywood 9mm	Plasterboard
Size Tolerances							
Density	kg/m ³	707	458.73	726	630	650	650
Thickness Swell (24hrs)	%	3.04	4.25	3.5	11	-	-
Impact Resistance (Janka)	N	-	-	5030	3895	2522	566
MOR	MPa	25.56	24.44	24	26.7	-	-
MOE	MPa	3342	1556	3480	2966	-	-
Surface Water Absorption	g/m ²	26.2	534.46	-	-	-	-
Surface Hardness	N	4550	3665	-	-	-	-
Screw Holding	N	-	995.12	1327	912	931	98
Lateral Screw Holding*	kg/screw	-	-	87	61	83	28

*Screw holding test completed on STRUCTApanel® using an 8g x 50mm zenith screws fixed directly into panel.

STRUCTApanel® 12mm Exceeds AS 1859.1 High Performance Particleboard for tests MOR / MOE / IB / Thickness swell / MORA.

STRUCTApanel® 12mm exceeds LHDS Part 6 fixing capacity requirements with a tested performance of 1600N (45% above minimum).

WORKING WITH STRUCTApanel®

Storage (Internal and External Applications)

STRUCTApanel® sheets must be stored in a dry condition prior to installation and protected from moisture during transport, handling, and storage. Panels should be stacked flat on evenly spaced bearers or pallets to prevent distortion and to allow airflow beneath the pack. Stacks should be kept clear of the ground and stored in locations protected from rain and excessive humidity.

Where panels must be stored externally prior to installation for hoarding works, they should be covered with waterproof sheeting supported on battens or spacers so that air can circulate between the cover and the sheets, preventing condensation and moisture build-up.

Exposure (Internal Applications and External Applications)

Internal Applications

For internal bracing applications, STRUCTApanel® is intended for installation in dry internal environments only. Panels should be allowed to acclimatise within the installation area for approximately 48 hours before fixing so that the material can adjust to the ambient temperature and humidity conditions.

During this period the sheets should remain stacked flat on bearers with adequate airflow around the pack. Installation should occur only when the building envelope is weather-tight and framing members are dry to ensure that the panels are not exposed to excessive construction moisture.

External Applications

Where STRUCTApanel® is used for temporary external hoarding installations, the panels must remain dry prior to fixing and should be installed onto a suitable supporting framework in accordance with manufacturer guidance.

Panels should be installed so that the bottom edge remains clear of ground level, typically maintaining a minimum clearance of approximately 20 mm to avoid contact with soil, water, or pooled moisture.

Landscaping materials, soil, or debris should not be placed against the panels, and adequate expansion gaps should be provided between adjacent sheets to allow for movement.

Fixings should be periodically inspected and tightened throughout the service life of the hoarding installation to maintain structural stability.

Moisture and Ventilation Considerations

Moisture management and ventilation should also be considered where panels are installed against solid substrates such as masonry or concrete. In these situations, battens or furring channels may be used to provide airflow behind the panel, reduce the risk of moisture transfer, and create a suitable and level fixing surface.

Maintaining dry conditions and adequate ventilation helps ensure the stability and performance of STRUCTApanel® whether used for internal structural bracing or temporary external hoarding applications.

Termite Risk Management

STRUCTApanel® is available with H2 treatment. It is resistant to termites both north and south of the Tropic of Capricorn.



CASE STUDY

Hoop City Basketball Training Facility – Port Melbourne

Project Overview

Client: Hoop City

Contractor: Creative Flooring Solutions

Location: Port Melbourne, VIC

Application: Sports flooring subfloor system

Product Used: STRUCTApanel®

Creative Flooring Solutions specialises in residential, commercial and sports flooring installations. For the Hoop City basketball training facility in Port Melbourne, the team required a subfloor system capable of delivering strength, stability and consistent performance to support an elite-level sports surface.

The Challenge

The centre court presented a significant challenge due to a highly uneven substrate. To ensure the sports flooring system above could perform as designed, the base structure needed to be level, stable and structurally rigid.

The flooring system installed required a very specific level of spring and performance. Any inconsistency in the subfloor could compromise how the sports floor performs.

Creative Flooring Solutions required a material that could provide structural reliability, consistent dimensions, and long-term performance.

The Solution

STRUCTApanel® was selected as the ideal solution for building up and stabilising the subfloor.

Two layers of STRUCTApanel® were installed in a cross-laminated configuration, allowing the team to straighten the uneven base while significantly increasing rigidity across the court area.

The product's dimensional accuracy and manufacturing consistency ensured that every sheet performed the same, allowing installers to work efficiently without the need for constant adjustments.

As an Australian-made product, STRUCTApanel® also provided the reliability required for a high-performance sports environment.

The Outcome

The finished subfloor provided a stable, level and rigid base capable of supporting the sports flooring system installed above it.

STRUCTApanel® delivered the consistency and reliability required for elite-level sporting environments, where flooring performance cannot be compromised.

The installation process was also streamlined, as the uniform quality of the panels reduced the need for cutting, adjustments or replacing sheets due to imperfections.

Sustainability

Sustainability was an important consideration for the project.

STRUCTApanel® contains 50% recycled material and can be fully reused if the flooring system is removed in the future. Panels can be unscrewed and repurposed on another project.

The product is also PEFC certified, providing a verified chain of custody for responsibly sourced timber.

Key Benefits

- Structural strength and dimensional stability
- Consistent sheet quality for efficient installation
- Suitable for high-performance sports flooring systems
- Australian-made reliability
- 50% recycled content
- PEFC certified for sustainable sourcing
- Reusable panels for future applications



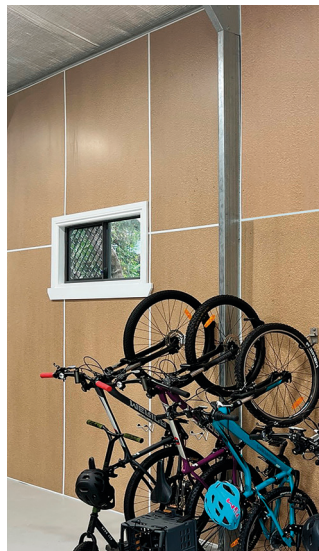
Smooth



12mm – Temporary hoarding panelling



12mm – Timber flooring underlay



12mm – Internal wall panelling



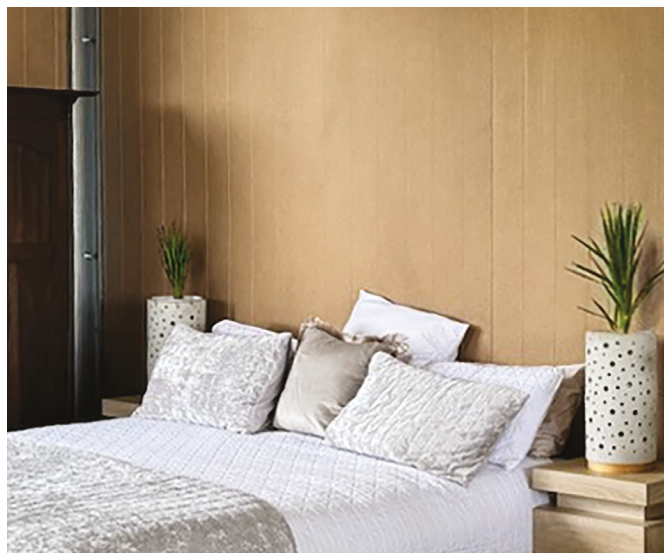
9mm – Internal wall panelling

Double Sided Black/White



12mm – Temporary hoarding panelling

Tongue & Groove VJ150



12mm – Internal wall panelling

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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