

Trade Essentials® Particleboard

Trade Essentials Particleboard is a three layered board, with fine particles on the top and bottom surfaces, and larger wood flakes in the middle. The wood particles are pressed and bonded together with resin creating a tight compact panel that can be machined easily. Surfaces are sanded smooth at the mill, ready for use or finishing with a high pressure laminate, decorative foil or timber veneer.



APPLICATIONS

Trade Essentials® Particleboard is an underated flat panel product. Trade Essentials Particleboard is designed for interior use for a wide range of substrate applications, including joinery, furniture, built-in furniture, shelving and cupboards of all types where the product will not be subjected to high humidity.

SHEET SIZES & THICKNESSES

Trade Essentials Particleboard is available in a large range of sheet sizes and thicknesses. See Appendix 6.

PROPERTIES

(Typical physical properties when tested to AS/NZS 1859.1)

Specification	Unit	THICKNESS		
		9-12mm	13-22mm	23-33mm
Density	kg/m ³	660	650	610
Modulus of Rupture	MPa	14.5	14.5	13.5
Modulus of Elasticity	MPa	2300	2200	2100
Internal Bond	MPa	0.60	0.60	0.50
Surface Soundness	MPa	1.0	1.2	1.2
Screw Holding Face	N	-	600	600
Screw Holding Edge	N	-	700	700
Thickness Swell 1hr	%	<12	<12	<12
Formaldehyde Level	mg/L	≤ 1.0	≤ 1.0	≤ 1.0

WEIGHT

Thickness	9mm	12mm	16mm	18mm	25mm
kg per m ²	6.0	7.8	10.4	11.5	15.5

FIRE HAZARD INDICES

(Typically achieved when tested to AS/NZS 1530.3)

Indices	Result	Range
Ignitability	14	0-20
Spread of Flame	8	0-10
Heat Evolved	7	0-10
Smoke Developed	4	0-10

FIRE TEST RESULTS

Cone Calorimeter (Results when tested in accordance with AS/NZS 3837)

Classification	Result
Group Number	3
Average Specific Extinction Area	61.2 Kg/m ²

Trade Essentials Particleboard is manufactured to E1 formaldehyde emission levels (≤ 1.0mg/L). It is also available with even lower E0 formaldehyde emission levels (≤ 0.5mg/L).

GREENfirst PRODUCT

Trade Essentials Particleboard E0 is a Greenfirst product.

General Site Work Notes

Appendix 1. Handling & Product Application Guidelines
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Board Product: Site Work Notes

Appendix 3. Handling & Product Application
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Sheet Size & Thickness Availability

Appendix 6
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Greenfirst Product

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