JUST PLYWOOD

TECHNICAL DATA SHEET · ORIENTED STRAND BOARD, OSB/3

OSB3 Sheeting



A load-bearing, moisture-resistant oriented strand board. Pine strands are laid in cross-directional layers and pressed with MDI resin into a dense, stiff panel. It's a cost-effective sheet for sheathing, linings and fit-out.

Features

- ✓ OSB/3 grade: load-bearing panel for humid conditions
- ✓ Pine strands bonded with MDI resin
- ✓ Low formaldehyde emissions (see test results)
- ✓ Low 24-hour swelling, from 4.4% to 8.2%
- ✓ Bold strand texture for a raw, modern look

Applications

- Wall and roof sheathing
- Internal linings and feature walls
- Hoarding and site signage
- Shelving, storage, packaging and crating
- Shopfitting and exhibitions

Specifications

Panel type	Oriented strand board, OSB/3
Species	Pine
Binder	MDI resin, with paraffin wax
Sheet size	2440 × 1220 mm
Thicknesses	9, 12, 18 mm
Density	approx. 650 kg/m³ (18 mm test)
Moisture content	4–9% as tested
Approx. weight / sheet	9 mm 17 kg · 12 mm 23 kg · 18 mm 35 kg

Test results

Property	Unit	9 mm	12 mm	18 mm
Bending strength MOR, major / minor axis	MPa	53.2 / 28.9	53.4 / 29.9	50.4 / 37.7
Stiffness MOE, major / minor axis	MPa	8090 / 3370	8370 / 4140	7276 / 4617
Internal bond	MPa	1.17	1.21	0.90
Internal bond after boil test	MPa	0.54	0.29	0.21
Thickness swelling, 24 h	%	5.1	4.4	8.2
Formaldehyde emission		0.007 mg/m³	0.016 mg/m³	0.2 mg/100 g

Independent laboratory tests on production samples: 9 mm and 12 mm in 2026 (GB/T 41715-2022, chamber method for formaldehyde); 18 mm in 2022 (EN 310/317/319/322/323, EN 120 perforator for formaldehyde). All results met the OSB/3 requirements of the standard used. Weights are approximate (about 650 kg/m³).

Handling, storage and safety

- Store flat, dry and under cover, on bearers clear of the ground, away from heat or ignition sources.
- Cutting and sanding make wood dust. Use extraction, and wear a P2 mask, safety glasses and gloves.
- Seal edges and faces when the sheet will see weather or high humidity.
- Structural use in Australia must follow the engineer's or certifier's requirements.

Typical values from manufacturer's data and test reports. Natural timber products vary. Check that the product suits your project, and follow the engineer's design wherever structural performance is required. Issued November 2026.