Build

Skape. PANELS

TECHNICAL DATA – 1 of 3

StructuralPly

Radiata CD

SCOPE OF USE

These products are suitable for use under roof decking, as soffit linings, and as wall or ceiling linings. They're also ideal for plywood box beams, signage, furniture, bracing, and flooring. In addition, they are commonly used in mobile homes, for fittings in the boat industry, and across a wide range of general industrial applications.

MOISTURE CONTENT

StructuralPly has an average moisture content of 9–10% at the time of manufacture and will remain within this range when stored and handled correctly. Refer to the Installation Guide for further details.

TECHNICAL PROPERTIES

Sizes Available	2400 x 1200 7, 9, 12, 15, 18, 21, 25mm 2700 x 1200 7, 9, 12, 18mm
Species	100% Radiata Pine
Country of Origin	Chile
Structural Standard	AS/NZS 2269
Treatment Type	Untreated, H3.2 Tan
Face Grade	CD
Glue Line	WBP A-Bond Resin
Emission	AS/NZS 2098.11 Super E0, JIS Super E0 LFE
Certification	CE 2+
BPIR Class	Class 1
Density Average	540kg/m3

DIMENSIONAL PROPERTIES

Tolerances:

Length	+1.5mm/-1.5mm on the specified nominal value
Width	+1.5mm/-1.5mm on the specified nominal value
Thickness	±0.4mm on the specified nominal value for sanded grades
Squareness	Within 0.2% of the length of longer diagonal
Straightness	Within 0.05% of the length
Diagonals	Below 3mm difference on a 2400 x 1200mm sheet

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34 Leonard Road, Mt Wellington, Auckland 1060.
www.skape.co.nz | sales@skape.co.nz

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LAYER CONSTRUCTION

Nominal Thickness	Number of Plies	Face Thickness (nominal	AVG Mass per Sheet
mm	N	mm	kg
6.5	3	2.54	10.1
7	3	2.54	10.9
9	3	3.15	14.0
12	3	2.54	18.7
15	5	3.15	23.3
18	7	2.54	28.0
19	7	3.15	29.5
21	7	3.15	32.7
25	9	3.15	38.9
30	11	2.54	46.7

Mass has been calculated considering 9 to 10% moisture content and sheet size of 2400x1200 and a density of 540 kg/m3.

INSTALLATION & HANDLING

For more information on installation and handling, please refer to our Structural Plywood Installation Guide.

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BRACING RATINGS

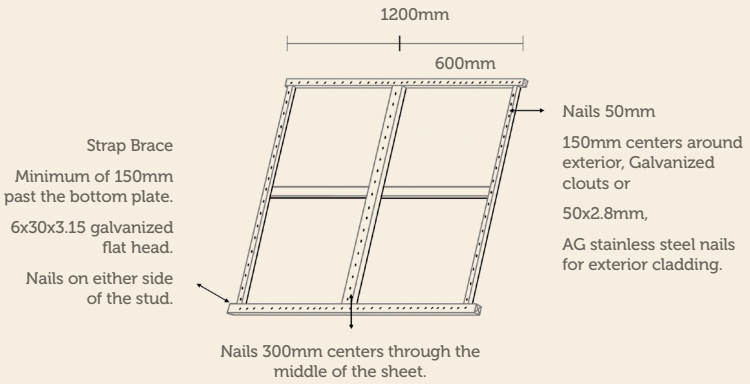
In accordance to AS/NZS 2269, our Structural Square-edge and Bracing is rated F8 which includes testing for parallel and perpendicular bending, stiffness, tensile, shear and compression strength. The following table shows bracing ratings according to P21 racking test.

Bracing ratings for araucoply certified structural ply and cladding products.

TYPE	MIN WALL LENGTH	PLYWOOD THICKNESS	MAX STUD SPACING	WIND		EARTHQUAKE	
	mm	mm	mm	BU/m	kN	BU/m	kN
AP1	1,200	6.5	600	130	6.5	132	6.6
AP2	1,200	7.0	600	142	7.1	144	7.2
AP3	1,200	12 Grooved	600	123	6.2	132	6.6

Notes: 20 bracing units = 1 kN.
* As limited by the serviceability load capacity.
** As limited by the ultimate load capacity.

For more information on bracing and installation, please refer to our Plywood Bracing Installation Guide.



Test Notes:

- Walls were constructed using 90x45 MSG8 studs (600 centres), plates and nogs.
- For 6.5mm and 7mm the plywood was fixed with 50x2.8 galvanised clouts at 150mm centres around the perimeter and at 300mm centres in the middle.
- For the 12mm Plywood 50x2.8mm Annular Grooved Stainless steel fixings were used at the same centres as above.
- Straps of 25x0.9mm around the bottom plate at each outside stud and extended a minimum of 150mm past the top of the bottom plate were used with at least 6 timber bracket galvanised 30x3.15mm FH nails on each side of the plate giving 6kN on each side of the stud.
- Tested on a concrete floor with 2 M12 hold down bolts and 50x50x3 galvanised washers on each.
- Tested by Scion, New Zealand April 2011.

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