



Technical Datasheet

Balsawood end grain panels

Description:

Panels made of kiln-dried end grain balsawood. Panels are cut to thickness and sanded to the tolerance. Panels can be supplied as stiff panels, or scrimmed and scored to fit contoured surfaces.

Balsawood has superior weight/strength properties to other core materials, and outperforms most artificial products in high temperature applications.

Balsawood has high impact strength, and is superior in fatigue. It will typically find the original shape instead of being crushed under moderate overload.

When being used in vacuum infusion processes, will individual blocks be properly impregnated and sealed, and thereby protected against moisture etc.

Typical properties of end grain balsawood panels:

Product name: Rapallo end grain	Test standard	Unit	Indicated values
Compressive strength	DIN 52185	MPa	11,5
Compressive modulus	DIN 52185	MPa	3190
Tensile strength	ASTM C297	MPa	11,57
Tensile modulus	ASTM C297	N/mm2	3495 - 3525
Shear strength	DIN 53294	Mpa	1,61
Shear modulus	DIN 53294	Mpa	182
Density	DIN 52185	Kg/cu.m	155 +/- 16
Temperature range		Celcius	- 50 -> + 150
Moisture level when packed	ISO 3130	%	< 12
Panel size, nominal	609,6 x 1219,2 mm tolerance +/- 3mm		

Quality:

Defects Allowed	Blue Stains, Mineral Stains, Brown Stains and decolorations, Sound knots, Pinholes (one per linear foot).
Defects Not Allowed	Cracks, Honey Comb, Knots, Pith > 9mm, shek or broken fiber.

All information is given in good faith and believed to be representative for the product. No warranty can be given due to the nature and variation of wood.

Rapallo Resins

Rev. 03-03-13 / AXL

Supply:

Item number	Thickness	Panels/box	total m2/box
300200	3/8" (9.52mm)	35	26,01
300204	1/2" (12.7mm)	27	18,58
300203	5/8" (15.87mm)	22	16,35
300201	3/4" 19.05mm)	17	12,63
300202	1" (25.4mm)	13	9,66
300205	1 1/4" (31.8mm)	10	7,43
300402	1 1/2" (38.1mm)	8	5,95

Size of panels is 2x4 foot or 609,6 x 1219,2mm

Std for Balsa grooved and perforated:

Special for grooved and perforated balsa:	
Knifecuts	<p>Longitudinal: 1st cut 2" from each edge then at 2" interval.</p> <p>Transversal: 1st cut 1" from each edge then at 1" interval.</p> <p>Depth:</p> <p>Balsa plates with thickness of 3/8", 3/4" or 1": Remaining un-cut material between bottom of core and scrim ≤ 2mm</p> <p>Balsa plates with thickness of 1 1/2", 1 3/4" or 2": Remaining un-cut material between bottom of core and scrim ≤ 5mm</p>
Grooves	1 st Groove 1" from each edge then at 2" intervals.
Grooves – width	3.0 4.0
Grooves – depth 3/8" + 3/4"	4.0 5.0
Grooves – depth 1" + 1 1/2" + 1 3/4"	5.5 6.5
Perforations	The first and last hole must be at equal distance from each edge. Must be centered within the grooves. At a minimum, half of the diameter should be connected with the groove.
Perforations – hole diameter	4.5 5.5
Hole distance across grooves	46.0 55.6
Hole distance in grooves	60.3 69.8