

PAULOWNIA wood - data sheet

Density by volume (at 12%-15% moisture content)	268 kg/m ³	DIN 52182
Density of the wood in completely dry condition (0%)	253 kg/m ³	DIN 52182
Moisture content (at 20/65)	13,4%	EN 13183-1
Shrinkage in longitudinal direction	0,12%	
Shrinkage in the tangential direction	0,22%	
Shrinkage (vol.)	0,327%	
Drying shrinkage (rad.)	0,69%	DIN 52184
Thermal resistance coefficient	0,09 W/mK	

Bending strength	42,47 N/mm ² [MPa]	DIN 52186
Modulus of elasticity under static bending	5033 N/mm ² [MPa]	DIN 52186
Tensile strength along fibres	43 N/mm ² [MPa]	DIN 52186
Compressive strength along fibres	23,42 N/mm ² [MPa]	DIN 52186
Resistance to dynamic loads	2,2 Nm/cm ²	DIN 52189

Brinell hardness - transverse	7,22 N/mm ² [MPa]	DIN 1534
Brinell hardness - tangent	7,33 N/mm ² [MPa]	DIN 1534
Brinell hardness - longitudinal	23,50 N/mm ² [MPa]	DIN 1534
Bolt pull-out resistance - transverse	511 N	EN 320
Bolt pull-out resistance - tangential	544 N	EN 320
Bolt pull-out resistance - longitudinal	509 N	EN 320
Crack assessment after 3 months	Number of cracks 0, crack width 0, no visible wedges or deformations	ISO 4628-4
Abbreviation	PAEL	EN 13556

all values are given as the average value

Flashpoint	420°C	
Fire rating	B - s1, d0	EN 13501-1
Durability	2 - 3	EN 350-2

Classification of Paulownia Multiplex panels	F20/E40	EN 636
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