

# Performance BALSA WOOD

Boards and Sheets from APM



## SPECIFICATION

- ✦ All natural, green and clean.
- ✦ Outstanding strength to weight ratio.
- ✦ Enhanced corrosion & chemical resistance.
- ✦ Standard fire & heat resistance (thermal insulation).
- ✦ Ultimate noise and sound insulation.
- ✦ Exceptional impact resistance.
- ✦ Exceptional physical strength and super lightweight.
- ✦ Exceptional durability and thermal stability.
- ✦ Available in various densities.
- ✦ Manufactured sustainably, lowest carbon footprint.
- ✦ Can be used to manufacture laminated and sandwich panels.
- ✦ Can be use paint or coat with thermoset resins of your choice.
- ✦ Reduce resin uptake by 70%.
- ✦ Lloyd's Registered and approved by DNV GL.
- ✦ Certified by Forest Stewardship Council (FSC™).
- ✦ Easy installation and usage. Complete customization available.
- ✦ Does not release any toxic substances or byproducts during and after product lifecycle.



## APPLICATIONS

- ✦ Bus, train, rail, cruise, car and boat seat bottoms.
- ✦ Stadium interior wall and partitions.
- ✦ Interior walls for bus, caravan, train, rail, boat, yacht and cruise.
- ✦ Car, bus, train, boat, yacht, cruise hood.
- ✦ Wall panels for private houses, restaurants, shopping mall, office buildings, commercial building, warehouses, storage rooms etc.
- ✦ Ceiling panels for private housing, restaurants, commercial buildings, shopping mall, warehouse industrial roofing.
- ✦ Door and window panels.
- ✦ Floor, wall and roof thermal insulation.
- ✦ Noise insulation wall and partition.
- ✦ Indoor and outdoor furniture, table, park bench, chair, walking closet, kitchen table, drawers.
- ✦ Model building and toys. Sporting goods and articles.



**APM**  
Advanced Performance  
Materials

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TEST STANDARDS		Units (Imperial)	Ultra Lite (UL)	Wind Grade (WG)	Standard Grade (SG)	Heavy Weight (HW)
Nominal Density	ASTM C-271	Lbs. / cu.ft	6.5	8.2	9.5	17.5
Compressive Strength	ASTM C-365	psi	947	1342.30	1547.55	3136
Compressive Modulus	ASTM C-365	ksi	295.36	295.53	340.72	635.99
Tensile Strength	ASTM C-297	psi	1088	1810	2087	2618
Tensile Modulus	ASTM C-297	ksi	324.68	449.61	518.36	825.55
Shear Strength	ASTM C-273	psi	272	342.18	394.50	808
Shear Modulus	ASTM C-273	ksi	15.84	23.43	27.01	52.79
Thermal Conductivity at 75 °F	ASTM C-177	BTU.in/ ft <sup>2</sup> .hr.°F	0.331	0.399	0.460	0.581
Standard Sheet	Length	inch	48	48	48	48
	Width	inch	24	24	24	24
	Thickness	inch	1/4 to 3	1/4 to 3	1/4 to 3	1/4 to 3

Nominal value is an average value of a mechanical property at a nominal density. Tests are perpendicular to the plane.

Continuous operating temperature range:	-349.6° F to +325.4° F
Moisture content:	from 6% to 12%