

A Product Of



Greenlam
Industries Limited

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MikasaPLY

SAPPHIRE

— • THE NO NONSENSE PLY • —



Sapphire is a Structural-grade plywood composed of premium hardwood with 0.6mm face veneer thickness on each side. This grade is fire-retardant, providing safety against fire hazards. With a lifetime warranty, Sapphire is the ultimate choice for those who demand nothing but the finest quality in their plywood products.

TECHNICAL SPECIFICATION

Thickness in mm	4	6	9	12	16	19	25
Number of Plies	5	7	9	11	13	15	17

Face Veneer	0.6 mm - 2 layers of 0.3mm face veneers on each side
Fire Retardant	Yes, as per IS 5509:2021
Emission Norms	E0
Veneer Treatment	Each veneer is preservative treated with Vacuum Pressure Technology
Density approx. in kg per CBM	800
Nail Holding Strength (kg)	≥150
Screw Holding Strength (kg)	≥275
Impact Resistance	Excellent strength and dimensional stability due to higher number of plies and use of select premium hardwood
Quad-Core Press	Yes, additionally two times owing to dual-surface construction of face veneer
100% Composed Veneer	All layers are pre-composed in an automatic state-of-the-art machine
Adhesives of Plies	
Glue Shear Strength (N)	≥1755
Visual Inspection	Excellent
Moisture Content (%)	8 - 12
Water Absorption (%)	<5
Static Bending Strength (N/mm²)	
Modulus of Rupture (MOR):	
Along the grain	≥60
Across the grain	≥45
Modulus of Elasticity (MOE):	
Along the grain	≥9000
Across the grain	≥5200
Adhesive	Phenolic adhesive
Calibration	100% with Precision Calibration Technology
Compressive Strength (N/mm²)	
Parallel to the face grain	40
Perpendicular to the face grain	35
Panel shear strength(N/mm²)	13.5
Modulus of rigidity(N/mm²)	600
Rolling shear strength(N/mm²)	3.5