



# 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

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