ENDESA

TECHNICAL DATA SHEET

SANDEPLY® HPL 2 SIDE - 18 mm

Multi-layer plywood panel composed of wood veneers bonded with a ULEF adhesive. The veneers are laid in a crosswise (90°) orientation to enhance dimensional stability, strength, and stiffness. The panel is finished with a high-pressure laminate (HPL) surface, manufactured by compressing multiple layers of resin-impregnated paper under high pressure and temperature. This provides superior resistance to impact, abrasion, moisture, and chemicals.

Suitable for a wide range of industrial and commercial applications.

Technical Specifications

Nominal thickness	**18 mm**
Thickness Variation Tolerance	**+ 0.2 mm / - 0.5 mm**
Dimensions	**1220 mm x 2440 mm**
Dimensions Variation Tolerance	**+ 1.6 mm / - 0 mm**
Squareness	**≤ 2 mm**
Ply Number	**9**
Density	**525 kg/m³ ± 5%**
Glue Type	**Urea Formaldehyde and Polyvinyl acetate emulsion adhesive**
Moisture Content	**6% - 12%**
Face Quality	**B/C**

www.endesabotrosa.com
E-mail: endesa@endesabotrosa.com

AV. MORÁN VALVERDE Oe1-63 Y PANAMERICANA SUR KM 9½
Tel.: (+593) 992405552 / 992405752 / 2 2676700 / 2 677376
POSTAL CODE: 170702 QUITO-ECUADOR

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Mechanical Properties

		kg/cm²	N/mm²
Bending Strength (MOR)	Lengthwise	**509**	**50**
	Crosswise	**570**	**56**
Modulus of Elasticity (MOE)	Lengthwise	**60,878**	**5,970**
	Crosswise	**52,321**	**5,131**
Tensile Strength	Lengthwise	**264**	**26**
	Crosswise	**292**	**29**
Compression Strength	Lengthwise	**306**	**30**
	Crosswise	**287**	**28**
		kgf	N
Screw Holding Strength	Face	**223**	**2,190**

Based on ASTM Standards

Commitment To User Safety and Health

Formaldehyde Emission	**CARB – P2 CERTIFIED ATCM 93120 COMPLIANT EPA TSCA TITLE VI CERTIFIED 40 CFR § 770**
Burning Rate	**0.00 mm/min**

Double-Sided Coating

High-Pressure Laminate (HPL): decorative laminate manufactured by compressing multiple layers of kraft paper impregnated with phenolic resin, topped with a decorative layer saturated with melamine resin, under high pressure and temperature.

Internal Wood Veneer Species Used

May include Brosimum utile, Dacryodes peruviana, Gmelina arborea, Huberodendron patinoi, Jacaranda copaia, Ocotea acutifolia, Schizolobium parahyba, Terminalia ivorensis, Terminalia superba, Virola duckei, Vochysia macrophylla, and others.

Applications

- **Furniture:** Office desks, school furniture, modular furniture, shelving units, counters.
- **Interior Construction:** Wall panels, restroom partitions, room dividers, cabinet panels.
- **Other:** Laboratory tables, store fixtures, double-sided displays, mobile homes, architectural panels.