

DECLARATION OF PERFORMANCE

Nr: 002

Identification of product-type: Structural Plywood - Phenol-formaldehyde bonded Elliotti Pine plywood

Intended use or uses of the construction product: For use as a structural, internal humid conditions.

Manufacturer: Compensados e Laminados Lavrasul SA
Rua São José 870 Centro
CEP 89545000
Timbó Grande SC
Brazil

System of assessment and verification of constancy of performance: AVCP System 2+

Construction product covered by a harmonized standard: Exova BM Trada, Notified body No. 1224, performed initial and continuous inspections of FPC under system 2+ and issued the certificate of conformity of the FPC 1224-CPR-0211

Declared Performance: Annex

In accordance with the harmonized European Standard:

EN 13986:2004+A1:2015 – *Wood-based panels for use in construction – Characteristics, evaluation of conformity and marking*

EN 636:2012+A1:2015 – *Plywood – Specification*

The performance of the product is in conformity with the declared performance.

This declaration of performance is issued under the sole responsibility of the manufacture.

Signed for and on behalf of the manufacturer by:

Timbó Grande, 18th June 2019

Annex

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Declared Performance						
Essential characteristics	Product Type	09mm (5)	12mm (5)	18mm (5)	18mm (7)	Harmonized technical specification
Characteristic bending strength (N/mm ²)	Parallel	32,93	29,27	17,72	23,27	EN 310
	Perpendicular	12,75	13,73	16,79	19,30	
Characteristic stiffness (MOE) (N/mm ²)	Parallel	2.413,42	3.634,21	3.458,28	3.711,23	
	Perpendicular	1.268,75	1.861,56	1.807,11	3.394,47	
Classification		F20/5	F15/5	F10/10	F15/10	EN 636
		E25/10	E40/20	E35/20	E40/35	
Bonding quality		Class 2				EN 314
Durability (Moisture resistance) (%)		12	12	10	9	EN 322
Mean Density (kg/m ³)		553	532	505	514	EN 323
Formaldehyde release (phenolic glue)		E1				EN 13986, Annex B
Reaction to fire (minimum density 400 kg/m ³)		D-S2,d0				taken from EN 13986, table 8
Water vapour permeability (mean density 500 kg/m ³)	Wet cup μ	70				taken from EN 13986, table 9
	Dry cup μ	200				
Airborne sound insulation		NPD				-
Sound Absorption	250 Hz to 500 Hz	0,10				taken from EN 13986, table 10
	1000 Hz to 2000 Hz	0,30				
Thermal conductivity W/(m · K) (mean density 500 kg/m ³)		0,13				taken from EN 13986, table 11
¹ Characteristic bending strength for structure use (N/mm ²)	Parallel	20,88	17,70	15,36	18,28	EN 789 and EN 1058
	Perpendicular	9,21	12,25	8,90	11,86	
Mean stiffness (MOE) for structural use (N/mm ²)	Parallel	4.939,07	4.625,25	3.907,45	3.539,98	
	Perpendicular	1.750,80	2.419,55	1.974,74	2.696,59	
¹ Characteristic compression strength for structure use (N/mm ²)	Parallel	16,69	12,53	12,59	13,45	
	Perpendicular	10,78	13,20	13,15	14,80	
Mean compression stiffness (MOE) for structural use (N/mm ²)	Parallel	5.157,83	4.363,92	4.052,97	3.741,63	
	Perpendicular	4.272,14	4.901,67	4.917,47	4.911,10	
Mechanical durability		NPD				-
Biological durability		Class 5				taken from EN 335/EN 1099
Content of pentachlorophenol		<5 ppm				taken from EN 13986

¹Normal distributed test data.

NPD - No Performance Determined