

DECLARATION OF PERFORMANCE

Nr: DOP-CE-10/2023

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

Intended use or uses of the construction product: For use as a structural component in dry and humid conditions

Manufacturer: Somapar Sociedade Madeireira Paranaense Ltda
Rodovia BR 476 - Km. 01, 980 - CP 213 - São Joaquim
84.605-000
União Da Vitória - PR
Brazil

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

Construction product covered by a harmonized standard: BM Certification, Notified Body No. 2358, performed initial and continuous inspections of FPC under system 2+ and issued the certificate of conformity of the FPC 2358-CPR-0368

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:

Uniao da Vitoria, 29th September 2023


Gustavo Grein Cavalcanti
Director

Declared Performance						
Essential characteristics	Product Type	12 mm (7)	15mm (7)	18 mm (7)	Harmonized technical specification	
Bending strength (N/mm ²)	//	30,7	31,5	23,1	EN 310	
5 percentile value	⊥	19,2	19,4	15,6		
Mean bending strength (N/mm ²)	//	42,0	42,8	31,3		
	⊥	28,2	27,2	29,2		
Bending stiffness (MOE) (N/mm ²)	//	2.397	1.211	2.054		
5 percentile value	⊥	1.408	1.914	1.432		
Mean stiffness (MOE) (N/mm ²)	//	3.658	3.475	3.343		
	⊥	2.408	2.596	2.824		
Bonding quality			Class 3			EN 314
Durability (Moisture resistance) (%)			10			EN 322
Mean Density (kg/m ³)		> 500	>500	>480	EN 323	
Formaldehyde release (phenolic glue)			Class 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		-	
Thermal conductivity W/(m · K) (mean density 500 kg/m ³)			0,13		taken from EN 13986, table 11	
Mean bending strength for structure use (N/mm ²)	//	32,34	27,80	23,34	EN 789 and EN 1058	
	⊥	20,73	19,20	21,57		
Characteristic bending strength for structure use (N/mm ²)	//	24,81	20,55	16,95		
	⊥	14,13	12,79	14,27		
Characteristic bending stiffness (MOE) for structural use (N/mm ²)	//	4.285	4.035	1.755		
	⊥	2.479	3.891	1.841		
Mean bending stiffness (MOE) for structural use (N/mm ²)	//	6.753	7.222	6.195		
	⊥	5.082	6.970	5.652		
Mean compression strength for structure use (N/mm ²)	//	20,61	20,07	18,17		
	⊥	18,87	19,33	20,38		
Characteristic compression strength for structure use (N/mm ²)	//	16,98	16,70	14,51		
	⊥	15,87	16,62	16,65		
Characteristic compression stiffness (MOE) for structural use (N/mm ²)	//	2.666	2.618	2.316		
	⊥	2.553	2.626	2.718		
Mean compression stiffness (MOE) for structural use (N/mm ²)	//	4.032	3.845	3.604		
	⊥	4.027	4.206	4.003		
Mean tension strength for structural use (N/mm ²)	//	16,62	15,57	14,19		
	⊥	15,15	13,70	15,16		
Characteristic tension strength for structure use (N/mm ²)	//	11,71	10,16	7,95		
	⊥	9,59	10,04	9,78		
Characteristic tension stiffness (MOE) for structural use (N/mm ²)	//	1.737	2.275	1.621		
	⊥	1.763	2.746	1.945		
Mean tension stiffness (MOE) for structural use (N/mm ²)	//	3.008	4.102	2.750		
	⊥	2.731	3.848	3.100		
Mechanical durability			NPD		-	
Biological durability			NPD		-	
Content of pentachlorophenol			PCP < 5 ppm		taken from EN 13986	