

TEBO SILVER III/III

FT TEBO SILVER III/III · REF 26-VI-GB · Cancels and supersedes any previous versions



TEBO SILVER III/III is a lightweight, dimensionally stable, and resistant plywood panel designed for applications where the visual appearance of the wood surface is not a primary concern. Thanks to its reliable technical characteristics, it is suitable for a wide range of uses, including industrial packaging, wall sheathing, roof sheathing substructure, structural frames for upholstered furniture.

TEBO SILVER III/III is available in a variety of standard sizes and thicknesses.



DESCRIPTION

Base board: Silver Fir throughout Plywood (*Abies alba*)

Faces (IAW EN 635-3): III / III



Finishing: sanded 2 sides

Average density (IAW EN 323): 510 kg/m³ (+/- 10%)

Bonding (IAW EN 314-2): class 3 / IAW DIN 68705-3 : BFU 100

Service (IAW EN 636): class 2 (humid conditions) · Flooring and roofing IAW EN 12871

Formaldehyde release classification (IAW EN 717-1): E0.5 (≤ 0,062 mg/m³)

Content of Pentachlorophenol (IAW EN 13986): PCP ≈ 0 ppm

SIZES, NUMBER OF PLIES & PACKAGING

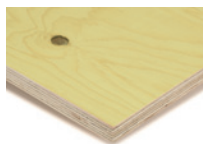
Thicknesses (mm)	Number of plies	Sizes (mm)	Packing
10	(5)	Standard : 2500 x 1250 On request Length: 2500 / 2440 / 2400 Widths: 1200 / 1220 / 1250	45
12	(5)		37
15	(5)		30
18	(7)		25
21	(7)		22
25	(9)		18
27	(9)		15
30	(11)		15
35	(13)		13
40	(15)		11
45	(17)		10

Other sizes & thicknesses: on request

OPTIONS

• **Preservative treatments, fungicide & Insecticide, antitermite:** on request

• **Cutting & TG processing:** on request



• **WeatherScreen treatment:** on request

Hydrophobic coating significantly reducing the risk of micro-organisms (mould and blue stain) growth, yellow in colour to allow easy identification in the warehouse and at the worksite.

STORAGE

Flat, on intermediate bearers, in an enclosed dry and ventilated building, clear of the ground. As far as storage on site is concerned, provision should be made to cover the panels with an opaque waterproof sheeting with the underside of the stacks clear of the ground.

FURTHER PROCESSING & INSTALLATION

Compliance with standard practice, with regulations and with health and safety rules should be maintained at all times.

Cutting and machining in the workshop possible except laser technology.

PRODUCTION SITES

Production on Thébault's sites in France



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TECHNICAL PROPERTIES

Characteristic values (MPa) IAW EN 789 - 1058 for structural calculations IAW Eurocodes

		7	9	10	12	15	18	21	24	27	30	35	40
Modulus of elasticity (E_m)	//	14765	14444	11879	10614	11879	11851	10275	10004	9983	8411	8851	8490
	⊥	235	556	3121	1810	3121	3149	4325	4996	5017	5756	6149	6510
Bending strength (f_m)	//	43.3	43.3	35.6	31.8	35.6	35.6	32.0	30.0	29.9	25.2	26.5	25.5
	⊥	0.0	0.0	9.4	5.4	9.4	9.4	13.0	15.0	15.0	17.3	18.4	19.5
Others characteristic values	Available on DOP Strength in: Tension (f_t), Compression (f_c), Panel shear (f_v) and Planar shear (f) Modulus of elasticity in: Tension (E_t), Compression (E_c), Panel shear (G_v) and planar shear (G)												

Uses

Use in structural applications (IAW EN 13986, IAW EN 12871, EN 636-2, EN 636-1)	Suitable for use as structural element in humid conditions (service class 2) and interior conditions (service class 1)
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Bending radius (mm)

Thickness	10	12	15	18
//	1670	2000	2500	3000
⊥	1660	2010	2490	3020

Nail and screw holding (t = 15 mm)

Nail	Face and edge: 300 N	
Screw	Face	Edge
	2250 N	2050 N

Sound absorption coefficient

IAW EN 13986 Table N°10	Frequency range	
	250 Hz to 500 Hz	1000 Hz to 2000 Hz
	0,10	0,30

Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
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Characteristic density

IAW EN 789	490 kg/m ³
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Vapour permeability

IAW EN 13986 Table 9	Wet cup	Dry cup
	44 μ	187 μ

Reaction to fire

End use condition In reference to table 8 of EN 13986 - 2004+A1:2015	Minimum thickness	Class excluding floorings	Class floorings
Without an air gap behind the panel	9 mm	D-s2,d0	D _{fl} -s1
With a closed or an open air gap not more than 22 mm behind the woodbased panel	9 mm	D-s2,d2	-
With a closed air gap behind the wood-based panel	15 mm	D-s2,d1	D _{fl} -s1
With an open air gap behind the wood-based panel	18 mm	D-s2,d0	D _{fl} -s1
Any	3 mm	E	E _{fl}

Airborne sound absorption

IAW EN 13986 Paragraph 5.10	The sound transmission loss R of a single wood-based panel, measured in dB, is related the mean surface mass m_A en kg/m ² according to the following equation (which is only valid for the frequency range of 1 kHz to 3 kHz and at a surface mass > 5 kg/m ²): $R = 13 \times \lg(m_A) + 14$
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TECHNICAL SUITABILITY & CERTIFICATION

CE marking		CE Structure attestation of conformity 2+	DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-3 S E1 * DOP : Declaration of Performance available on www.groupe-thebault.com
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Use	Ressource bois			Volatile substances		
Humid	RDUE Conformity	PEFC (on request)	Bois de France	Information on the emission level of volatile substances within the indoor air, showing a risk of toxicity in case of inhalation, based on a scale going from A+ (very low emissions) to C (high emissions). Scenarios flooring/ceiling	EPA TSCA Titre VI (USA)	M1 (FI)
						