TECHNICAL DATA SHEET

TEBOSILVER FLOOR

FT TEBOSILVER FLOOR · REF 26-v2-GB · *Cancels and supersedes any previous versions*

TEBOSILVER FLOOR II/III is a tongue-and-groove flooring plywood panel designed for use in traditional construction and timber frame buildings. It is ideally suited for structural flooring applications.
TEBOSILVER FLOOR II/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): II / III

Face side II	Reverse side III
	
With sound or synthetically filled knots	With open defects

Finishing: sanded 2 sides
Edge machining: with tongue & groove
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: E1 IAW EN 717-1 · REACH 2023/1464 compliant
Content of Pentachlorophenol (IAW EN 13986): PCP ≈ 0 ppm

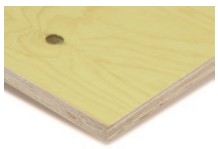
SIZES, NUMBER OF PLIES & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing	
			1235 mm	610 mm
12	(5)	2485 x 610 / 1235 (T&G4) 2500 x 610 / 1235 (T&G2)	50	100
15	(5)		40	80
18	(7)		34	68
21	(7)		30	60
24	(9)		24	48
27	(9)		25	50
30	(11)		20	40

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

		12	15	18	21	24	27	30
Modulus of elasticity (E_m)	//	10614	11879	11851	10275	10004	9983	8411
	_I_	1810	3121	3149	4325	4996	5017	5756
Bending strength (f_m)	//	31.8	35.6	35.6	32.0	30.0	29.9	25.2
	_I_	5.4	9.4	9.4	13.0	15.0	15.0	17.3
Others characteristic values	Available on DOP : Strength in: Tension (f_t), Compression (f_c), Panel shear (f_v) and Planar shear(f_r) Modulus of elasticity in: Tension (E_t), Compression (E_c), Panel shear (G_v) and planar shear (G_r)							

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)

SIzing - Span tables

Maximum permissible span between supports IAW EN 1991-1-1 (5/03/2003).
The table below has been calculated in accordance with the French national annex NF P06 -11-2 to EN 1991-1-1. It is given for indication purposes only. It is therefore the designer's responsibility to calculate the sizing of the structural project in accordance with the national Annex to EN 1991-1-1-1 applicable in the European country where the plywood is going to be used.

		Flooring : use categories applied			
	Thickness (mm)	A Areas for domestic and residential activities (e.g. dwellings, flats & bedrooms in hotel..)	B Office areas (e.g. offices, classrooms, hospital wards)	C1 Areas with tables (e.g. schools, cafes, restaurants, dining halls, reading rooms, reception halls..)	C2 Areas with fixed seats (e.g. places of worship, theatres, cinemas, conference & meeting rooms..)
Service class 1	18	700			
	21	775		625	
	24	825	625	675	
	25	850	650	675	550
	27	1000	675	725	625
	30	1050	725	750	675
Service class 2	18	675			
	21	775		600	
	24	825	625	650	
	25	825	650	650	
	27	975	675	700	600
	30	1025	725	725	650

	Thicknesses mm)	Roofing : use categories applied H Roofs : not accesible except normal maintenance and repair
Classe of services 2	12	675
	15	825
	18	1200
	21	1200

Bending radius (mm)

Thickness	12	15	18
//	3000	3750	4750
_I_	2400	3000	3800

Nail and screw holding (t = 15 mm)

Nail	Face and edge: 300 N	
Screw	Face	Edge
	1450 N	1150 N

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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	λ = 0,13

Characteristic density

IAW EN 789	490 kg/m³

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}

Airbone 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/m² 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/m²): $R = 13 \times \lg(m_A) + 14$

TECHNICAL SUITABILITY & CERTIFICATION

CE Marking	CE	**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

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)
	EUDR - RDUE	PEFC 10-31-663	CERTIFICAT BFO103	ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A B C	EPA TSCA Title VI TFC 029 Certified ULEF - USA	RAKENNUSTIETO M1 EMISSION CLASSIFICATION