

TEBO PIN WEATHER SCREEN



General construction works
Roofing structures
Flooring structures
Wall sheathing
Renovation works



DESCRIPTION

Base board: Maritime Pine throughout Plywood with 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

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

Face side II	Reverse side III
Tight with sound knots and wooden patches. Occasional synthetic repairs.	Admitting open defects

Finishing: sanded 1 side

Average density (IAW EN 323): 580 kg/m³ (+/- 10%)

Bonding (IAW EN 314-2): class 3

Service (IAW EN 636): class 3 exterior conditions

Formaldehyde release classification (IAW EN 13986): E1

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

Treatment compliant to Biocidal Products Regulation EU N°528/2012

ADVANTAGES

- Hydrophobic breathing protection of 60 days at the working site
- Anti- micro- organism protection at the working site (mould and blue stain) significantly reducing the risk of mould growth compared to unprotected softwood plywood panels
- Base board: Maritime Pine originating from France next door to the main EU countries
- Full certification for the structural design.
- Gluing: Class 3 phenolic resisting to 72 hours boiling test
- Service class : Class 3 IAW EN 636 exterior conditions (except cladding)
- Strong mechanical properties
- Strong screw holding
- Good dimensional stability thus facilitating installation
- Reduction of drying periods at the work site before closing the building structures

SIZES, NUMBER OF PLYS & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing
			1235 mm
9	(3)	2500 x 1250	50
12	(5)		37
15	(5)		30
18	(7)		25
21	(7)		22
24	(9)		20

Other sizes & thicknesses: on request

OPTIONS

Preservative treatments, fungicide & Insecticide, antitermite: optional on request

Cutting & TG processing: optional on request

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. Avoid contact with food or feed supplies

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

		9	12	15	18	21	24
Modulus of elasticity (E_m)	//	11752	7596	9152	9220	8188	7983
	└┬	698	2078	3298	3230	4262	4467
Bending strength (f_m)	//	31,7	23,2	24,4	23,0	20,4	17,0
	└┬	4,9	14,8	13,7	12,1	15,1	12,5
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, EN 636-3, EN 636-2, EN 636-1)	Suitable for use as structural element in exterior conditions (service class 3), humid conditions (service class 2) and interior conditions (service class 1)
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Bending radius (mm)

Thickness	10	12	15	18
//	2500	3000	3750	4750
└┬	2000	2400	3000	3800

Nail and screw holding (t = 15 mm)

Nail	Face and edge: 300 N	
Screw	Face	Edge
	1450 N	1150 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	540 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_λ 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): $R = 13 \times \lg(m_\lambda) + 14$
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TECHNICAL SUITABILITY & CERTIFICATION

CE Structure attestation of conformity 2+ CE structure 2+ «Flooring 15 to 40 mm» CE structure 2+ «Roofing 12 to 40 mm»	0380 - 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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Quality marks (country)			Ecocertification	CE Marking	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
NF Extérieur CTB-X (F)	BFU 100 (D)	KOMO (NL)	PEFC	CE S (Structural)	
	(equivalent) 				