

TEBOROOF TG2 & TG4 WEATHERSCREEN



Roofing applications in traditional and timber framed constructions.



THEBAULT Group

Commercial contact
47, rue des Fontenelles
79 460 MAGNE - France
Tél : +33 (0)5 49 35 70 20
Fax : +33 (0)5 49 35 21 10
info@groupe-thebault.com

www.groupe-thebault.com



DESCRIPTION

Base board: Maritime Pine throughout Plywood tongued & grooved with an hydrophobic & breathing yellow coating.

The colouring allows an easy identification in the warehouse and at the worksite

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

Faces (IAW EN 635 – 3): III / III

Face side III



Admitting open defects

Face side III



Admitting open defects

Finishing: unsanded 2 sides

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

ADVANTAGES

- Hydrophobic breathing protection of 60 days at the working site
- Anti- micro- organism protection
- 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 PLIES & PACKING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing	
			1220 mm 1235 mm	610 mm
15	(5)	2485 x 1235 / 610	40	80
18	(7)	2440 x 1220 / 610	34	68
21	(7)	2400 x 1200 / 600	30	60

Other sizes & thicknesses: 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.

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 à Sauzé-Vaussais (79) et Solférino (40).



TECHNICAL PROPERTIES

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

		15	18	21
Modulus of elasticity (E_m)	//	9860	9802	8857
	⊥	2590	2648	3593
Bending Strength (f_m)	//	26,4	24,8	22,4
	⊥	11,6	10,6	13,5
Other characteristic values	Available on request Strength in: Tension (f_t), Compression (f_c), Panel shear (f_v) and Planar shear ($f_{t,v}$) Modulus of elasticity in: Tension (E_t), Compression (E_c), Panel shear (G_v) and planar shear (G_t)			

Uses

Use in structural applications (IAW EN 13986, EN 636-3)	Suitable for use as structural element in exterior conditions corresponding to service class 3 of ENV 1195-1.
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Determination of the plywood fitness (mm) based on load and pan, in humid conditions

	Optimized spans (mm)	600	700	800	900	1000
Load (daN / m ²)	100	15	15	15	15	18
	150	15	15	18	18	18
	200	15	15	18	18	21

Characteristic density

IAW EN 789	540 kg/m ³
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Bending radius (mm)

Thickness	15	18
//	3750	4750
⊥	3000	3800

Nail and screw holding (t = 15 mm)

Nail	Face and edge: 30 daN	
Screw	Face	Edge
	180 daN	140 daN

Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
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Reaction to fire

IAW EN 13501-1	D-s2, d0 (minimum thickness 9mm)
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Vapour permeability

IAW EN 13986 Table N°9	Wet cup	Dry cup
	70 μ	200 μ

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

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 to the mean surface mass m_A in 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 structure attestation of conformity 2+	0380 - DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-3 S E1
CE structure 2+ « Roofing & Flooring 15 to 24 mm»	* DOP : Déclaration of Performance available on www.groupe-thebault.com

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)	