

TEBOMARINE



Joinery works, internal fittings in boat building. Constructions in exposed exterior environments. Use in load bearing applications.



TeboMarine for boatbuilding



TeboMarine as a structural component in flatroofing



TeboMarine in facade construction

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

www.groupe-thebault.com



DESCRIPTION

Base board: Okoume throughout Plywood

Manufacture: in accordance with the requirements BS 1088: 2018, with certificate of conformity n° CC 03/13/1917/GB issued by an independent and notified body:
FCBA - 10, avenue de Saint-Mandé 75012 Paris - France

Faces (IAW EN 635-2): II / III

Finishing: sanded 2 sides

Average density (IAW EN 323): 500 kg/m³ (+/- 10%)

Bonding (IAW EN 314-2): class 3

Service (IAW EN 636): class 3 exterior conditions

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 PLYS & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing
4	(3)	2500 x 1220 3100 x 1530	45
6	(3)		75
9	(5)		50
12	(5)		37
15	(7)		30
18	(9)		25
22	(11)		20
25	(11)		18
30	(13)		15
35	(15)		13
40	(17)		11

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.

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



TECHNICAL PROPERTIES

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

		4	6	9	12	15	18	22	25	30	35	40
Modulus of elasticity (E_m)	//	7139	5490	3732	4136	3464	3240	3828	3545	3588	3623	4133
	└┐	2111	3760	5518	5114	5786	6010	5422	5705	5662	5627	5117
Bending strength (f_m)	//	45,5	35	23,5	22,4	18,7	17,4	19,7	18,1	18,2	18,2	20,7
	└┐	22	32,4	41,7	36,5	40,3	39	34,6	35	33,5	32,4	29,3
Others characteristic values	Available on DOP Strength in: Tension (f_t), Compression (f_c), Panel shear (f_v) and Planar shear (f_p) Modulus of elasticity in: Tension (E_t), Compression (E_c), Panel shear (G_v) and planar shear (G_p)											

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)
--	---

Nail and screw holding ($t = 15$ mm)

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

Bending radius (mm)

Thicknesses	4	9	12	15	18
//	800	2000	2400	3000	3800
└┐	800	2000	2400	3000	3800

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

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}

Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
--------------	------------------

Characteristic density

IAW EN 789	430 kg/m ³
------------	-----------------------

Vapour permeability

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

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

TECHNICAL SUITABILITY & CERTIFICATION

CE Structure attestation of conformity 2+	0380 - DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-3 S E1 * DOP : Declaration of Performance available on www.groupe-thebault.com
---	---

Marques de qualité (Pays)			Eco-labels	Marquage CE	Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles) à C (fortes émissions). Scénarios sols/plafonds
NF Extérieur CTB-X (F)	BSU 1088 (GB)	KOMO (NL)	FSC®	CE S (Structure)	