

TEBOFLAM



Internal fittings in public access buildings.
All constructions subject to specific fire regulations.



DESCRIPTION

Base board: Okoume throughout fire-retardant Plywood

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 13986): E1

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

SIZES, NUMBER OF PLYS & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing
5	(3)	2500 x 1220 3100 x 1530	45
9	(5)		50
10	(5)		45
12	(5)		37
15	(7)		30
18	(9)		25
22	(11)		20
25	(11)		18
30	(13)		15

Other sizes & thicknesses: on request

OPTIONS

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



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



TECHNICAL PROPERTIES

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

		5	9	10	12	15	18	22	25	30
Modulus of elasticity (E_m)	//	6318	6940	6170	5692	5456	4940	4650	5042	4962
	-L	2932	4356	5580	6058	6294	6810	7100	6708	6788
Bending strength (f_m)	//	40,5	30,6	34,4	31,7	30,4	27,5	25,9	28,1	27,7
	-L	26,4	24,3	31,1	33,8	35,1	38	39,6	37,4	37,8
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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Nail and screw holding ($t = 15$ mm)

Nail	Face and edge: 300 N	
Screw	Face	Edge
	1050 N	1200 N

Bending radius (mm)

Thicknesses	5	8	10	12	15	18
//	1000	1600	2000	2400	3000	3800
-L	1000	1600	2000	2400	3000	3800

Fire reaction

AIW EN13501-1	B-s1, do IAW EN 13501-1 (FCBA test report N° -09 /RC- 10 dated 11 03 2009). This fire reaction classification exclusively applies to the following conditions of end- use: <ul style="list-style-type: none"> • Against a substrate at least rated A2 in fire reaction classification. • Without air- gap for the thicknesses of 5 to 9 mm. • With an authorized air - gap for the thickness range ≥ 10 mm. • Mounting on a structure at least rated D in fire reaction classification, e.g. timber or steel structure
	Flooring application correspondence : Dfl-s1

Characteristic density

IAW EN 789	430 kg/m ³
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Sound absorption coefficient

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

Vapour permeability

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

Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
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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_x 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): $R = 13 \times \lg(m_x) + 14$
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TECHNICAL SUITABILITY & CERTIFICATION

CE Structure attestation of conformity 1	0380 - DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-3 1 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) 	KOMO (NL) 	FSC® www.fsc.org FSC® C051251 La marque de la gestion forestière responsable	CE S (Structural)
			ÉMISSIONS DANS L'AIR INTÉRIEUR

PRECAUTIONS OF USE

All further working operations performed on the product after delivery which may modify the fire reaction classification are carried out under the liability of the buyer or of the end user.

The panels contain crystalline fire-resistant additives which may migrate to the surface and create chalky, powdery areas. This will not affect the mechanical or fire-resistance properties of the panels.

These additives will also increase the hygroscopicity of the panels.

Whatever type of surface finishing you wish to apply on to the plywood it is important to:

- 1- Stabilize the plywood in the atmosphere where they are to be used until they have reached their equilibrium moisture content.
- 2- Brush the panels in order to reduce, as far as possible, the presence of crystal on the surface
- 3- Conduct preliminary tests on samples with the surface coatings to be used to ensure that they are compatible with the plywood substrate. If necessary coordinate tests with the manufacturer of the surface finishing.

When the surface finishing requires an application with an adhesive, it is important to:

- 4- Stabilize the plywood in the atmosphere where they are to be used until they have reached their equilibrium moisture content.
- 5- Brush the panels in order to reduce, as far as possible, the presence of crystal on the surface.
- 6- Use sample pieces to carry out preliminary tests with the adhesive system, to ensure that the area of adherence is compatible with the plywood substrate. If necessary coordinate tests with the manufacturer of the adhesive.

Chalky, powdery areas may occasionally appear on the surface of the panels (even through coatings such as varnish, paint, veneer). This is caused by the panels' crystalline fire-resistant additives. This is a phenomenon which is inherent to the product. Therefore it may not be subject to the submission of a complaint by the buyer or the end-user.

The fire treatment applied to TEBOFLAM EXTERIEUR is obtained by mean of vacuum pressure treatment. The process may cause a warping or bowing phenomenon within the plan of the plywood which does not affect the intrinsic properties of the panel. The occurrence of such phenomenons may therefore not be subject to the submission of a complaint by the buyer or the end-user.