

# TEBOGARANT



Wall cladding, facades, gables, boat building. Constructions in exposed exterior environments. Any exterior end-use where the plywood product is going to receive a paint application.

Multiannual guarantee on the glue line.



## DESCRIPTION

**Base board:** throughout Okoume plywood produced from severely selected veneers  
**Guarantee:** multiannual on the glue line

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

**Finishing:** sanded 2 sides

**Average density** (IAW EN 323): 500 kg/m<sup>3</sup> (+/- 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/m<sup>3</sup>)

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

## SIZES, NUMBER OF PLYS & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing
8	(5)	2500 x 1220 3100 x 1530	55
10	(5)		45
12	(5)		37
15	(7)		30
18	(9)		25
19	(9)		24
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



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## TECHNICAL PROPERTIES

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

		8	10	12	15	18	22	25	30	35	40
Modulus of elasticity ( $E_m$ )	//	4248	3597	4136	3464	3240	3828	3545	3588	3623	4133
	-L	5002	5653	5114	5786	6010	5422	5705	5662	5627	5117
Bending strength ( $f_m$ )	//	26,2	22,4	22,4	18,7	17,4	19,7	18,1	18,2	18,2	20,7
	-L	38,7	42,2	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)
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## Guarantees conditions

The acquisition of TEBOGARANT plywood implicates for the buyer the full acceptance of the guarantee conditions subscribed by Messrs THEBAULT JEAN SAS near their insurance company. The insurance contract and the related guarantee conditions are available on request.

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

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

## Bending radius (mm)

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

## Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
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## Characteristic density

IAW EN 789	430 kg/m <sup>3</sup>
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## Vapour permeability

IAW EN 13986 Table 9	Wet cup	Dry cup
	70 $\mu$	200 $\mu$

## 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 <sub>fl</sub> -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 <sub>fl</sub> -s1
With an open air gap behind the wood-based panel	18 mm	D-s2,d0	D <sub>fl</sub> -s1
Any	3 mm	E	E <sub>fl</sub>

## 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 <sup>2</sup> 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 <sup>2</sup> ): $R = 13 \times \lg(m_A) + 14$
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## TECHNICAL SUITABILITY &amp; 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 <a href="http://www.groupe-thebault.com">www.groupe-thebault.com</a>
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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®  La marque de la gestion forestière responsable	CE S (Structural) 
			