

DOP - 7

DOP 07 - 18/03/24 - Ref 24-V2-GB - Cancels and supersedes any previous versions

TEBOFLAM EXTÉRIEUR

1. **Identification code:** Plywood 100% Okoume - EN 636-3 S
 2. **Type number:** 100% Okoume for exterior conditions
 3. **Intended use:** Structural exterior
 4. **Manufacturer:** THEBAULT JEAN SAS - 47 rue des Fontenelles - F79460 Magné
 5. **Authorized representative:** not applicable
 6. **System of assessment and verification of constancy of performance:** 1
 7. **Certificate of conformity of the factory production control issued by:** FCBA (0380)
 8. **European technical assessment:** not applicable
 9. **Declared performances:** harmonized technical specification EN 13986:2004+A1:2015
- Essential characteristics and performances**

Thickness (mm)		5	9	12	15	18	22	25	30	35	40
Number of plies		3	5	5	7	9	11	11	13	15	17
RESISTANCE (N / mm ²)											
Tension f_t	//	12,8	13,6	12,6	10,1	8,4	8,2	10	10	10	12,2
	└┘	10,7	11,2	12,2	14,7	16,4	16,6	14,8	14,8	14,8	12,6
Compression f_c	//	21	23,6	22	17,6	14,6	14,3	17,5	17,5	17,4	21,2
	└┘	17,5	19,6	21,2	25,6	28,6	28,9	25,7	25,7	25,8	22
Bending f_m	//	40,5	30,6	31,7	30,4	27,5	25,9	28,1	27,7	27,4	31,3
	└┘	26,4	24,3	33,8	35,1	38	39,6	37,4	37,8	38,1	34,2
Planar shear f_r	//	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
	└┘	NPD	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4	1,4
Panel shear f_v	//	7	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
	└┘	7	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2	8,2
MODULUS OF ELASTICITY (N / mm ²)											
Tension E_t	//	2943	6432	5971	4792	3960	3882	4756	4747	4740	5761
	└┘	6307	5318	5779	6958	7790	7868	6994	7003	7010	5989
Compression E_c	//	2943	6432	5971	4792	3960	3882	4756	4747	4740	5761
	└┘	6307	5318	5779	6958	7790	7868	6994	7003	7010	5989
Bending E_m	//	6318	6940	5692	5456	4940	4650	5042	4962	4910	5621
	└┘	2932	4356	6058	6294	6810	7100	6708	6788	6840	6129
Planar shear G_r	//	91	166	179	223	270	275	225	225	226	186
	└┘	91	87	62	92	96	103	116	122	126	148
Panel shear G_v	//	552	552	552	552	552	552	552	552	552	552
	└┘	552	552	552	552	552	552	552	552	552	552

FIRE REACTION CLASSIFICATION

IAW EN13501-1	<p>B-s1, d0 (european classification report No FCBA 22/RC-41, dated 06/12/2022)</p> <p>The classification is valid for the following end use applications:</p> <ul style="list-style-type: none"> • Mounting with mechanical fixation (nails, screws, etc.) on D-s2,d0 wood structure or better • For ≥ 7 to < 15 mm-thick panels: on a class A2-s1,d0 substrate or better with minimal density of 525 kg/m³ and minimal thickness of 12 mm standard plaster board type) • For ≥ 15 to < 40 mm-thick panels: without air gap or with closed or open air gap of any thickness between the product and the substrate; on a class A2-s1,d0 substrate or better with minimal density of 525 kg/m³ and minimal thickness of 12 mm (standard plaster board type) • For ≥ 40 à ≤ 43 mm-thick panels: without air gap or with closed or open air gap of any thickness between the product and the substrate; on a class D-s2,d0 substrate or better with minimal density of 338 kg/m³ and minimal thickness of 8 mm (standard plywood type), with or without protective rain or vapour screen rated E or better • For ≥ 12 to ≤ 43 mm-thick panels: with air gap, filled with 40 mm-thick biobased insulation material rated Euroclass E or better with a density of 55 kg/m³ (+/- 10 %); on a class D-s2,d0 substrate or better with minimal density of 338 kg/m³ and minimal thickness of 8 mm (standard plywood type), with or without protective rain screen rated E or better • With or without vertical or horizontal joints <p>Flooring application correspondence : Dfl-s1</p>
	<p>THERMAL CONDUCTIVITY (W/m.K)</p> <p style="text-align: right;">$\lambda = 0,13$</p>

MEAN STIFFNESS IN BENDING UNDER CONCENTRATED LOAD R_{mean} (N / MM)					
NPD					
ULTIMATE CHARACTERISTIC STRENGTH UNDER CONCENTRATED LOAD - $F_{max,k}$ (kN)					
NPD					
SERVICEABILITY CHARACTERISTIC STRENGTH UNDER CONCENTRATED LOAD - $F_{ser,k}$ (kN)					
NPD					
RACKING RESISTANCE (WALL SHEATHING ON STUDS)	NPD To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 500 (kg/m ³)				
IMPACT RESISTANCE	NPD In accordance with the requirements of EN 12871 in impact resistance				
WATER VAPOUR PERMEABILITY	μ Wet cup				
	μ Dry cup				
	44				
	187				
RELEASE OF FORMALDEHYDE	$\leq 0,062$ mg/m ³ , 1/2 E1 IAW EN 717-1				
CONTENT OF PENTACHLOROPHENOL	PCP < 5 ppm				
AIRBORNE SOUND ABSORPTION	NPD The sound transmission loss R of a single wood-based panel, measured in dB, is related the mean surface mass mA 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): $R = 13 \times \lg (mA) + 14$				
SOUND ABSORPTION (COEFFICIENT)	Frequency range 250 Hz to 500 Hz				
	Frequency range 1000 Hz to 2000 Hz				
	0,10				
	0,30				
EMBEDMENT STRENGTH	NPD To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 500 kg/m ³				
AIR PERMEABILITY (FLOW)	0,0 m ³ /(h.m ²)				
BONDING	Class 3 (EN 636-3) according to EN 314-2				
MODIFICATION FACTOR k_{mod}	Duration of load				
	Permanent	Long	Medium	Short	Instantaneous
	0,50	0,55	0,65	0,70	0,90
DEFORMATION FACTOR k_{def}	Service class				
	1	2		3	
	0,80	1,00		2,50	
BIOLOGICAL DURABILITY - USE CLASS	3				

10. **Performance of the product:**
The performance of the product identified in points 1 and 2 is in conformity with the declared performance of point 7.
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed on behalf of the manufacturer by :



Antoine THEBAULT, President
Issued in Magné - 18/03/24

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