

TEBOPIN III

- 1. Identification code:** Plywood Maritime Pine and/or Scots Pine - EN 636-3 S
 - 2. Type number:** Plywood for exterior conditions
 - 3. Intended use:** Structural exterior
 - 4. Manufacturer:**
SIB THEBAULT SAS - 20 rue de Saunière - 79190 Sauzé-Vaussais - France
THEBAULT PLYLAND SAS - 6, piste 36A JP Darrigade - 40210 Solférino - France
 - 5. Authorized representative:** not applicable
 - 6. System of assessment and verification of constancy of performance:** 2+
 - 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)		7	9	9,5	10	12	15	18	21	24	25	27	30	35	40	45
Nimber of plies		3	3	5	5	5	5	7	7	9	9	9	11	13	15	15
RESISTANCE (N / mm ²)																
Tension f _t	//	15,9	18,5	16,6	14	16,6	16,6	18,4	15,8	11,8	13,9	15,4	11,4	11,5	11,5	14,8
	└┐	11,8	9,2	11,1	13,7	9,3	11,1	9,3	11,9	11,7	13,8	12,3	12,1	12	12,1	12,9
Compression f _c	//	27,3	31,7	28,5	23,9	28,5	28,5	31,5	27,1	20,3	23,8	26,4	19,6	19,8	19,7	25,3
	└┐	20,2	15,8	19	23,6	16	19	16	20,4	20,1	22,7	21,1	20,8	20,6	20,7	22,2
Bending f _m	//	31	32,4	26,6	23,8	26,4	26,4	24,8	23,9	17,7	17,2	20,3	16,3	14,1	15	20,2
	└┐	6,1	3,7	7	14,6	8,2	11,6	10,6	9,7	11,9	14	13,6	12,2	12,5	12,4	13,4
Planar shear f _r	//	2,1	0,5	2,1	2,1	0,5	0,5	0,5	2,1	0,5	2,1	0,5	2,1	0,5	0,5	2,1
	└┐	0,5	0,5	2,1	2,1	0,5	0,5	2,1	2,1	0,5	2,1	0,5	2,1	0,5	0,5	2,1
Panel shear f _v	//	5,9	5,9	7,9	5,9	5,9	5,9	5,9	7,9	5,9	7,9	5,9	7,9	5,9	5,9	7,9
	└┐	5,9	5,9	7,9	5,9	5,9	5,9	5,9	7,9	5,9	7,9	5,9	7,9	5,9	5,9	7,9
MODULUS OF ELASTICITY (N / mm ²)																
Tension E _t	//	7163	8300	7470	7470	6275	7470	8256	7114	6250	6250	6917	6039	6071	6093	6640
	└┐	5287	4150	4980	4980	4183	4980	4194	5336	5961	5961	5533	6411	6379	6357	5810
Compression E _c	//	7163	8300	7470	7470	6275	7470	8256	7114	6250	6250	6917	6039	6071	6093	6640
	└┐	5287	4150	4980	4980	4183	4980	4194	5336	5961	6200	5533	6411	6379	6357	5810
Bending E _m	//	11497	11989	9860	9860	8864	9860	9802	8857	8298	7241	8283	7790	7354	7059	7466
	└┐	953	461	2590	2590	1535	2590	2648	3593	4152	4152	4167	4660	5096	5391	4984
Planar shear G _r	//	95	95	95	95	95	95	95	166	95	95	95	95	95	95	95
	└┐	95	95	95	95	95	95	95	127	95	95	95	95	95	95	95
Panel shear G _v	//	548	548	548	548	548	548	548	548	548	548	548	548	548	548	548
	└┐	548	548	548	548	548	548	548	548	548	548	548	548	548	548	548
REACTION TO FIRE*		End use condition								Minimum thickness		Class excluding floorings		Class floorings		
		Without an air gap behind the panel								9 mm		D-s2,d0		Dfl-s1		
		With a closed or an open air gap not more than 22 mm behind the wood based panel								9 mm		D-s2,d2		-		
		With a closed air gap behind the wood based panel								15 mm		D-s2,d1		Dfl-s1		
		With an open air gap behind the wood based panel								18 mm		D-s2,d0		Dfl-s1		
		Any								3 mm		E		Efl		
THERMAL CONDUCTIVITY (W/m.K)										λ = 0,13						

* In reference to table 8 of EN 13986 - 2004+A1:2015

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)		IAW EN 12871 : To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 540 (kg/m³)				
IMPACT RESISTANCE		NPD				
WATER VAPOUR PERMEABILITY		μ Wet cup		μ Dry cup		
		44		187		
RELEASE OF FORMALDEHYDE		$\leq 0,062$ mg/m³, ½ E1 IAW EN 717-1				
CONTENT OF PENTACHLOROPHENOL		PCP < 5 ppm				
AIRBORNE SOUND ABSORPTION		The sound transmission loss R of a single wood based panel, measured in dB, is related the mean surface mass mA en kg/m² 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/m²): $R = 13 \times \lg (mA) + 14$				
SOUND ABSORPTION (COEFFICIENT)		Frequency range 250 Hz to 500 Hz		Frequency range 1000 Hz to 2000 Hz		
		0,10		0,30		
EMBEDMENT STRENGTH		To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 540 kg/m³				
AIR PERMEABILITY (FLOW)		0,0 m³/(h.m²)				
BONDING		Class 3 (EN 636-3) according to EN 314-2				
MODIFICATION FACTOR k_{mod}	Service class	Duration of load				
		Permanent	Long	Medium	Short	Instantaneous
	1 and 2	0,60	0,70	0,80	0,90	1,10
	3	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 - 26/09/24

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