DECLARATION OF PERFORMANCE CE

DOP - 12

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THEBAULT GROUPE

TEBOPIN CLEAR
TEBOPIN STAR
TEBOPIN ELITE
TEBOPIN SELECT
TEBOPIN EUROPANEL
TEBOPIN STANDARD
TEBOPIN SOLID
TEBOPIN WEATHERSCREEN

1. **Identification code:** Plywood 100% Maritime Pine - EN 636-3 S
2. **Type number:** 100% Maritime Pine 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 / mm²)																
Tension f_t	//	13,6	17,1	15,7	12,5	15,2	15,7	17,7	15,1	11,5	13,2	14,8	11,2	13,4	13,3	14,6
	_|_	14,1	10,6	12	15,2	10,3	12	10	12,6	12	13,9	12,9	12,4	14,3	14,4	13,1
Compression fc	//	23,4	29,3	26,9	21,4	26	26,9	30,4	26	19,8	22,6	25,4	19,2	22,9	22,8	25,0
	_|_	24,1	18,2	20,6	26,1	17,7	20,6	17,1	21,5	20,6	23,8	22,1	21,2	24,6	24,7	22,5
Bending fm	//	29,2	31,7	24,7	20,3	23,2	24,4	23	20,4	17	14,9	18,6	15,5	15,9	16,9	19,6
	_|_	8,7	4,9	8,9	17,8	10,2	13,7	12,1	15,1	12,5	15,5	14,8	12,7	15,2	15,1	14,0
Planar shear fr	//	2,1	2,1	2,1	2,1	2,1	0,5	0,5	0,5	2,1	0,5	0,5	2,1	0,5	0,5	2,1
	_|_	0,5	0,5	2,1	2,1	0,5	0,5	2,1	0,5	0,5	0,5	0,5	0,5	0,5	0,5	2,1
Panel shear fv	//	5,9	5,9	7,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	7,9
	_|_	5,9	5,9	7,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	5,9	7,9
MODULUS OF ELASTICITY (N / mm²)																
Tension E_t	//	6123	7685	7059	6827	5619	7052	7968	6802	6097	5936	6668	5908	5963	6002	6564
	_|_	6327	4765	5391	5623	4627	5398	4482	5648	6353	6250	5782	6542	6487	6448	5886
Compression Ec	//	6123	7685	7059	6827	5619	7052	7968	6802	6097	5936	6668	5908	5963	6002	6564
	_|_	6327	4765	5391	5623	4627	5398	4482	5648	6353	6514	5782	6542	6487	6448	5886
Bending Em	//	10816	11752	9165	8723	7596	9152	9220	8188	7983	6444	7695	7500	7093	6824	7268
	_|_	1634	698	3285	3727	2078	3298	3230	4262	4467	4815	4755	4950	5357	5626	5182
Planar shear Gr	//	95	95	168	95	95	95	95	95	95	95	95	95	95	95	180
	_|_	95	95	86	95	95	95	95	95	95	95	95	95	95	95	162
Panel shear Gv	//	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

	End use condition	Minimum thickness	Class excluding floorings	Class floorings
REACTION TO FIRE*	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

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MEAN STIFFNESS IN BENDING UNDER CONCENTRATED LOAD R_{mean} (N / MM)

	Span l (mm)								
T (mm)	400	500	600	700Z	800	900	1000	1100	1200
12	378	310	242	173	104	60	55	54	45
15	543	455	372	268	162	98	74	78	69
18	814	691	561	429	288	210	184	171	129
21	1124	993	831	600	406	328	286	231	179
22	1178	1040	871	629	425	344	300	242	187
24	1285	1135	950	686	464	375	327	264	204
27	1756	1464	1132	829	621	505	420	348	270
30	1951	1627	1258	921	690	561	467	387	300

ULTIMATE CHARACTERISTIC STRENGTH UNDER CONCENTRATED LOAD - $F_{max,k}$ (kN)

	Span l (mm)								
T (mm)	400	500	600	700	800	900	1000	1100	1200
12	2,29	2,18	2,07	1,96	1,84	1,79	1,74	1,69	1,64
15	3,13	3,02	2,88	2,66	2,45	2,39	2,34	2,28	2,21
18	4,35	4,13	3,91	3,69	3,32	3,26	3,19	3,13	3,01
21	5,36	5,15	4,94	4,46	3,97	3,90	3,84	3,69	3,52
22	5,61	5,39	5,17	4,67	4,16	4,09	4,02	3,87	3,69
24	6,12	5,88	5,64	5,09	4,54	4,46	4,39	4,22	4,03
27	7,58	7,07	6,56	6,05	5,54	5,36	5,18	5,00	4,82
30	8,42	7,86	7,29	6,72	6,16	5,96	5,76	5,56	5,36

SERVICEABILITY CHARACTERISTIC STRENGTH UNDER CONCENTRATED LOAD - $F_{ser,k}$ (kN)

	Span l (mm)								
T (mm)	400	500	600	700	800	900	1000	1100	1200
12	1,61	1,58	1,55	1,53	1,5	1,45	1,40	1,35	1,31
15	2,15	2,12	2,09	2,03	1,97	1,93	1,88	1,85	1,82
18	3,01	2,95	2,89	2,83	2,66	2,63	2,61	2,58	2,52
21	3,80	3,74	3,68	3,42	3,15	3,12	3,09	3,03	2,94
22	3,98	3,92	3,86	3,58	3,30	3,27	3,24	3,17	3,08
24	4,34	4,28	4,21	3,91	3,60	3,57	3,53	3,46	3,36
27	5,5	5,22	4,93	4,64	4,36	4,27	4,19	4,10	4,01
30	6,11	5,80	5,48	5,16	4,84	4,74	4,66	4,56	4,46

RACKING RESISTANCE (WALL SHEATHING ON STUDS)	NPD To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 540 (kg/m³)
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	≤ 0,062 mg/m³, ½ 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/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 x lg (mA) + 14	

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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 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 - 18/03/24

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