

TEBOSILVER II/III
TEBOSILVER III/III
TEBOSILVER FLOOR
TEBOSILVER ROOF

- 1. Identification code:** Plywood 100% Silver Fir (*Abies alba*) - EN 636-3 S
 - 2. Type number:** 100% Silver Fir for humid conditions
 - 3. Intended use:** Structural exterior
 - 4. Manufacturer:** SIB THEBAULT SAS - 20 rue de Saunière - 79190 Sauzé-Vaussais - France
THEBAULT Jean SAS - 47 rue des fontenelles - 79460 Magné - 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 (in progress)
 - 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	10	12	15	18	21	24	27	30	35	40
Number of plies		3	3	5	5	5	7	7	9	9	11	13	15
RESISTANCE (N / mm ²)													
Tension f_t	//	22.5	20	18	15	18	20	17.2	15	16.7	15.5	14.6	14.6
	⊥	7.5	10	12	10	12	10	12.8	15	13.3	14.5	15.4	15.4
Compression f_c	//	21.7	19.3	17.4	14.5	17.4	19.3	16.6	14.5	16.1	15.0	14.1	14.1
	⊥	7.3	9.7	11.6	9.7	11.6	9.7	12.4	14.5	12.9	14.0	14.9	14.9
Bending f_m	//	43.3	43.3	35.6	31.8	35.6	35.6	32.0	30.0	29.9	25.2	26.5	25.5
	⊥	0	0	9.4	5.4	9.4	9.4	13.0	15.0	15.0	17.3	18.4	19.5
Planar shear f_r	//	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	⊥	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Panel shear f_v	//	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
	⊥	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
MODULUS OF ELASTICITY (N / mm ²)													
Tension E_t	//	11250	10000	8999	7494	9000	10000	8575	7503	8336	7744	7288	7319
	⊥	3750	5000	6001	5004	6000	5000	6425	7497	6664	7256	7712	7681
Compression E_c	//	11250	10000	8999	9996	9000	10000	8575	7503	8336	7744	7288	7319
	⊥	3750	5000	6001	5004	6000	5000	6425	7497	6664	7256	7712	7681
Bending E_m	//	14765	14444	11879	10614	11879	11851	10275	10004	9983	8411	8851	8490
	⊥	235	556	3121	1810	3121	3149	4325	4996	5017	5756	6149	6510
Planar shear G_r	//	22	22	22	22	22	22	22	22	22	22	22	22
	⊥	22	22	22	22	22	22	22	22	22	22	22	22
Panel shear G_v	//	360	360	360	360	360	360	360	360	360	360	360	360
	⊥	360	360	360	360	360	360	360	360	360	360	360	360

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
* In reference to table 8 of EN 13986 - 2004+A1:2015	Any	3 mm	E	Efl
THERMAL CONDUCTIVITY (W/m.K)		$\lambda = 0,13$		

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 - $F_{\text{max,k}}$ (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 - $F_{\text{ser,k}}$ (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)To obtain the values by mean of calculation, use EN 1195-1-1 with a density of 490 (kg/m³)

IMPACT RESISTANCE

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

 $\leq 0,062 \text{ mg/m}^3$, 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 490 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
	1 and 2	0,60	0,70	0,80	0,90
DEFORMATION FACTOR k_{def}		Service class			
		1		2	
		0,80		1,00	
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 - 15/05/25