

TEBOROOF DK



Roofing applications in traditional timber framed constructions



DESCRIPTION

Base board: Maritime Pine throughout Plywood, with tongue & groove

Average density (IAW EN 323): 580 kg/m³ (+/- 10%)

Faces (IAW EN 635-3): III / III



Admitting open defects

Admitting open defects

Finishing: unsanded

Edge machining: with tongue & groove

Bonding (IAW EN 314-2): class 3

Service (IAW EN 636): class 1-2 (interior and humid conditions) - flooring IAW EN 12871

Formaldehyde release classification (IAW EN 13986): E1

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

SIZES, NUMBER OF PLYES & PACKAGING

Thicknesses (mm)	Number of plies	Sizes (mm)	Packing	
			1235 mm	610 mm
12	(5)	2500 x 610 / 1235	50	100
15	(5)		40	80
18	(7)		34	68
21	(7)	2440 x 610 / 1220	30	60
22	(9)		28	56
24	(9)	2700 x 1200	24	48
25	(9)		22	44
27	(9)		25	50
30	(11)		20	40

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



Groupe THEBAULT
47, rue des Fontnelles - 79 460 MAGNE - France
Tél : +33 (0)5 49 35 70 20 - Fax : +33 (0)5 49 35 21 10
info@groupe-thebault.com

www.groupe-thebault.com



TECHNICAL PROPERTIES

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

		12	15	18	21	22	24	25	27	30
Modulus of elasticity (E_m)	//	7596	9152	9220	8188	6177	7983	6444	7695	7500
	-L	2078	3298	3230	4262	6273	4467	4815	4755	4950
Bending strength (f_m)	//	23,2	24,4	23	20,4	14,7	17	14,9	18,6	15,5
	-L	10,1	13,7	12,1	15,1	18,5	12,5	15,5	14,8	12,7
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)									

Maximum permissible span per thickness

Roofing application IAW DS/EN 1991-1-1 DK NA:2013. National Annex to EUROCODE 1: Actions on structures - part 1-1: General actions - Densities, self-weight, imposed loads for buildings (Roofing - Class H)

Thickness	12	15	18	21	24	27	30
Maximum Span (mm)	600	800	1200	1200	1200	1200	1200

The method used to support TeboRoof plywood is continuous over at least 3 joists

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

Nail	Face and edge: 30 daN	
Screw	Parent	Chant
	180 daN	140 daN

Bending radius (mm)

Thickness	12	15	18
//	3000	3750	4750
-L	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	540 kg/m ³
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Vapour permeability

IAW EN 13986 Table 9	Wet cup	Dry cup
	44 μ	187 μ

Airborne 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 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): $R = 13 \times \lg(mA) + 14$
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Uses

Use in structural applications (IAW EN 13986, IAW EN 12871, EN 636-2, EN 636-1)	Suitable for use as structural element in humid conditions (service class 2) and interior conditions (service class 1)
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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	Dfl-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	Dfl-s1
With an open air gap behind the wood-based panel	18 mm	D-s2,d0	Dfl-s1
Any	3 mm	E	Efl

TECHNICAL SUITABILITY & CERTIFICATION

CE Structure attestation of conformity 2+ CE structure 2+ «Roofing 12 to 40 mm»	0380 - DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-3 S E1 * DOP : Declaration of Performance available on www.groupe-thebault.com
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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)	BFU 100 (D)	PEFC™	CE S (Structural)	
	(equivalent) 			