

# TEBOROOF DK



Roofing applications in traditional timber framed constructions.



## THEBAULT Group

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## DESCRIPTION

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

**Average density (IAW EN 323):** 580 kg/m<sup>3</sup> (+/- 10%)

**Faces (IAW EN 635 – 3):** III / III

### Face side III



Admitting open defects

### Reverse side III



Admitting open defects

**Finishing:** unsanded

**Bonding (IAW EN 314-2):** class 3

**Service (IAW EN 636):** class 2 humid conditions

**Formaldehyde release classification (IAW EN 13986):** E1

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

## SIZES, NUMBER OF PLYS & PACKING

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

## 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



## TECHNICAL PROPERTIES

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

		12	15	18	21	24	27	30
Modulus of elasticity ( $E_m$ )	//	7596	9152	9220	8188	7983	7695	7500
	_ _	2078	3298	3230	4262	4467	4755	4950
Bending Strength ( $f_m$ )	//	23,2	24,4	23	20,4	17	18,6	15,5
	_ _	14,8	13,7	12,1	15,1	12,5	14,8	12,7
Other characteristic values	Available on DOP 14-2 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 ( $G_p$ )							

### Uses

Use in structural applications (IAW EN 13986, EN 636-2)	Suitable for use as structural element in humid conditions corresponding to service class 2 of ENV 1195-1.
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### 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

### Characteristic density

IAW EN 789	540 kg/m <sup>3</sup>
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### Bending radius (mm)

Thickness	15	18
//	3750	4750
_ _	3000	3800

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

Nail	Face and edge: 30 daN	
Screw	Face	Edge
	180 daN	140 daN

### Thermal conductivity

IAW EN 13986	$\lambda = 0,13$
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### Reaction to fire

IAW EN 13501-1	D-s2, d0 (minimum thickness 9mm)
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### Vapour permeability

IAW EN 13986 Table N°9	Wet cup	Dry cup
	44 $\mu$	187 $\mu$

### 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

### 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 to the mean surface mass mA in kg/m <sup>2</sup> 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 <sup>2</sup> ): $R = 13 \times \lg(mA) + 14$
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## TECHNICAL SUITABILITY & CERTIFICATION

CE structure attestation of conformity 2+	0380 - DOP* - CPR - EN 13986 : 2004 + A1 : 2015 - EN 636-2 S E1
CE structure 2+ « Roofing 12 to 30 mm»	* DOP 14-2 : Declaration of Performance available on <a href="http://www.groupe-thebault.com">www.groupe-thebault.com</a>

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
PEFC 	CE S (Structural) 	