



DECLARATION OF PERFORMANCE	
Reference :	DOPÄirextremelighv2
Commercial name :	Air Extremelight
Product type :	Light Particleboard
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.4
CE Class :	LP 1
Field of application :	General non-structural purpose in dry conditions
AVCP Class :	4
Certification number:	Not applicable
Produced at:	Breestraat 4,B-8710 Wielsbeke
	Ingelmunstersteenweg 299,B-8780 Oostrozebeke

Essential Characteristic	Unit	Standard	Test Method	Thickness range (mm)					
				>6-13	>13-20	>20-25	>25-32	>32-40	>40
Bending strength	N/mm ²	EN 16368 - T2	EN 310	NPD	NPD	NPD	2,5	2	2
Modulus of elasticity in bending	N/mm ²	EN 16368 - T2	EN 310	NPD	NPD	NPD	450	400	375
Internal bond	N/mm ²	EN 16368 - T2	EN 319	NPD	NPD	NPD	0,17	0,14	0,14
Surface Soundness	N/mm ²	EN 16368 - T2	EN 312	NPD	NPD	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986 Annex B	EN 717-1	NPD	NPD	NPD	E1	E1	E1
Reaction to fire	Class	EN 13986 - 5.8	EN 13501-1	NPD	NPD	NPD	E	E	E
Reaction to fire (Flooring)	Class	EN 13986 - 5.8	EN 13501-1	NPD	NPD	NPD	NPD	NPD	NPD
Water vapour permeability μ	wet dry	EN 13986 - T9	EN 12524	NPD	NPD	NPD	12 50	12 50	12 50
Airborne sound insulation	dB	EN 13986 - 5.10	EN ISO 140-3	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption α		EN 13986 - T10	EN ISO 354	NPD	NPD	NPD	0,10/0,25	0,10/0,25	0,10/0,25
Thermal conductivity λ	W/m.K	EN 13986 - T11	EN 12664	NPD	NPD	NPD	0,09	0,09	0,09
Strength - tension ft	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - compression fc	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - bending $f_{m,0}$	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - panel shear f_v	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - planar shear f_p	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - tension E_t	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - compression E_c	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - bending E_m	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - panel shear G_v	N/mm ²	EN 13986 - 5.13	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Impact resistance	Class	EN 13986 - 5.14	EN 12871	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength R_{mean}	N/mm ²	EN 13986 - 5.15	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength $F_{ser,k}$	N/mm ²	EN 13986 - 5.15	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength $F_{max,k}$	N/mm ²	EN 13986 - 5.15	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Linear expansion $\delta_{L0,85}$	mm/m	EN 13986 - 5.15	EN 318	NPD	NPD	NPD	NPD	NPD	NPD
Mechanical durability (kmod; kdef)		EN 13986 - 5.16	Shall be taken from :	NPD	NPD	NPD	EN 1995-1-1	EN 1995-1-1	EN 1995-1-1
Biological durability	Service Class	EN 13986 - 5.17	EN 335	NPD	NPD	NPD	1	1	1
Content of PCP	ppm	EN 13986 - 5.18	EN 71-11	NPD	NPD	NPD	<5	<5	<5

(*) <9mm : E; 9mm : D-s2,d0

Informative Characteristic	Unit	Standard	Test Method	Thickness range (mm)					
				>6-13	>13-20	>20-25	>25-32	>32-40	>40
Formaldehyde content	mg/100g	EN 13986 Annex B	EN 120	< 8 mg/100g DS					
Density	kg/m ³	-	EN 323	430					
Density variation	%	EN 16368 - T1	EN 323	+/- 10					
Thickness variation	mm	EN 16368 - T1	EN 324-1	+/- 0,3					
Length and width variation	mm	EN 16368 - T1	EN 324-1	+/- 2					
Edge straightness	mm/lm	EN 16368 - T1	EN 342-2	< 2					
Flatness	mm/lm	EN 16368 - T1	EN 342-2	< 1,5					
Squareness	mm/lm	EN 16368 - T1	EN 342-2	< 2					
Moisture content	%	EN 16368 - T1	EN 322	5 - 13					

Version date :
16/09/2024

Veronique Hoflack
President UNILIN bv, division panels

