

DECLARATION OF PERFORMANCE	
Reference :	DOPFibraluxBiobasedv1
Commercial name :	Fibralux Biobased
Product type :	MDF Fibreboard
Reference standard :	Wood Based Panel -EN13986:2004+A1:2015 Annex A Table A.9
CE Class :	MDF.LA
Field of application :	Internal use as structural component in dry conditions
AVCP Class :	2+
Certification number:	1161-CPR-0142 [6-30mm]
Produced at:	Rue de la Forêt 2, B-6690 Vielsalm

Essential Characteristic	Unit	Reference	Thickness range (mm)					
			6	>6 - 9	> 9 - 12	>12-19	>19-30	>30-45
Bending strength	N/mm ²	EN 622-5	NPD	NPD	27	25	NPD	NPD
Modulus of elasticity in bending	N/mm ²	EN 622-5	NPD	NPD	2800	2500	NPD	NPD
Internal bond	N/mm ²	EN 622-5	NPD	NPD	0.65	0.60	NPD	NPD
Swelling in thickness, 24h	%	EN 622-5	NPD	NPD	15	12	NPD	NPD
Moisture resistance OPTION 1 : Internal bond	N/mm ²	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD
Surface Soundness	N/mm ²	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986-table B1	NPD	NPD	E1	E1	NPD	NPD
Reaction to fire	Class	EN 13501-1	NPD	NPD	D-s2d0	D-s2d0	NPD	NPD
Water vapour permeability μ	wet dry	EN 13986 - table 9	NPD	NPD	20 12	20 12	NPD	NPD
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption α		EN 13986 - table 10	NPD	NPD	0,10/0,20	0,10/0,20	NPD	NPD
Thermal conductivity λ	W/m.K	EN 13986 - table 11	NPD	NPD	0.1	0.1	NPD	NPD
Strength - tension f_t	N/mm ²	EN 12369-1	NPD	NPD	13	12.5	NPD	NPD
Strength - compression f_c	N/mm ²	EN 12369-1	NPD	NPD	13	12.5	NPD	NPD
Strength - bending f_m	N/mm ²	EN 12369-1	NPD	NPD	21	21	NPD	NPD
Strength - panel shear f_v	N/mm ²	EN 12369-1	NPD	NPD	6.5	6.5	NPD	NPD
Strength - planar shear f_r	N/mm ²	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - tension E_t	N/mm ²	EN 12369-1	NPD	NPD	2900	2700	NPD	NPD
Stiffness - compression E_c	N/mm ²	EN 12369-1	NPD	NPD	2900	2700	NPD	NPD
Stiffness - bending E_m	N/mm ²	EN 12369-1	NPD	NPD	3700	3000	NPD	NPD
Stiffness - panel shear G_v	N/mm ²	EN 12369-1	NPD	NPD	800	800	NPD	NPD
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength R_{mean}	N/mm ²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $F_{ser,k}$	N/mm ²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $F_{max,k}$	N/mm ²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Linear expansion $\delta_{30,85}$	mm/m	EN 318	NPD	NPD	NPD	NPD	NPD	NPD
Mechanical durability (kmod; kdef)		Shall be taken from :	NPD	NPD	NPD	NPD	NPD	NPD
Biological durability	Service Class	EN 335	NPD	NPD	1	1	NPD	NPD
Content of PCP	ppm	EN 13986-5.18	NPD	NPD	<5	<5	NPD	NPD

Informative Characteristic	Unit	Reference	Thickness range (mm)					
			6	>6 - 9	> 9 - 12	>12-19	>19-30	>30-45
Formaldehyde class	Class	ASTM E1333	CARB 2 < 0.11 ppm [6 -> 30mm]					
Formaldehyde class	Class	ASTM E1333	TSCA Title VI (EPA) < 0.11 ppm [6 -> 30mm]					
Formaldehyde class	Class	ASTM E1333	CARB NAF < 0.04 ppm [12 -> 16mm]					
Formaldehyde Emission	ppm	ChemVerbots	<= 0.1 ppm [ISO 16516 LF1.8/EN 717-1*2]					

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Veronique Hoflack
President UNILIN bv, division panels

