

DECLARATION OF PERFORMANCE	
Reference :	DOPFibrabelUltralightv1
Commercial name :	Fibrabel Ultralight
Product type :	MDF Fibreboard
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.9
CE Class :	UL2-MDF
Field of application :	Internal use as non-structural component in dry conditions
AVCP Class :	4
Certification number:	Not Applicable
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 <sup>2</sup>	EN 622-5	NPD	NPD	18	16	14	12
Modulus of elasticity in bending	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	1400	1300	1200	1100
Internal bond	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	0,35	0,35	0,35	0,30
Swelling in thickness, 24h	%	EN 622-5	NPD	NPD	18	14	13	12
Moisture resistance OPTION 1 : Internal bond	N/mm <sup>2</sup>	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 <sup>2</sup>	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986-table B1	NPD	NPD	E1	E1	E1	E1
Reaction to fire	Class	EN 13501-1	NPD	NPD	D-s2d0	D-s2d0	D-s2d0	D-s2d0
Water vapour permeability $\mu$	wet dry	EN 13986 - table 9	NPD	NPD	5	5	5	5
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption $\alpha$		EN 13986 - table 10	NPD	NPD	0,10/0,20	0,10/0,20	0,10/0,20	0,10/0,20
Thermal conductivity $\lambda$	W/m.K	EN 13986 - table 11	NPD	NPD	0,07	0,07	0,07	0,07
Strength - tension $f_t$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - compression $f_c$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - bending $f_m$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - panel shear $f_v$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Strength - planar shear $f_r$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - tension $E_t$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - compression $E_c$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - bending $E_m$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stiffness - panel shear $G_v$	N/mm <sup>2</sup>	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $R_{mean}$	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $F_{ser,k}$	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $F_{max,k}$	N/mm <sup>2</sup>	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	1	1
Content of PCP	ppm	EN 13986-5.18	NPD	NPD	<5	<5	<5	<5

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

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 [8 -> 40mm]					
Formaldehyde class	Class	ASTM E1333	TSCA Title VI (EPA) < 0.11 ppm [8 -> 40mm]					

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