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DECLARATION OF PERFORMANCE	
Reference :	DOPFibraluxMRBlackv1
Commercial name :	Fibralux MR Black
Product type :	MDF Fibreboard
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.9
CE Class :	MDF.HLS
Field of application :	Internal use as structural component in humid conditions
AVCP Class :	2+
Certification number:	1161-CPR-0141 [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/mm²	EN 622-5	34	34	32	30	28	NPD
Modulus of elasticity in bending	N/mm²	EN 622-5	3000	3000	2800	2700	2600	NPD
Internal bond	N/mm²	EN 622-5	0,70	0,80	0,80	0,75	0,75	NPD
Swelling in thickness, 24h	%	EN 622-5	18	12	10	8	7	NPD
Moisture resistance OPTION 1 : Internal bond	N/mm²	EN 622-5	0,35	0,3	0,25	0,2	0,15	NPD
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 622-5	25	19	16	15	15	NPD
Surface Soundness	N/mm²	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986-table B1	E1	E1	E1	E1	E1	NPD
Reaction to fire	Class	EN 13501-1	E	D-s2d0(*)	D-s2d0	D-s2d0	D-s2d0	NPD
Water vapour permeability μ	wet	EN 13986 - table 9	20	20	20	20	20	NPD
	dry		12	12	12	12	12	NPD
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption α		EN 13986 - table 10	0,10/0,20	0,10/0,20	0,10/0,20	0,10/0,20	0,10/0,20	NPD
Thermal conductivity λ	W/m.K	EN 13986 - table 11	0,1	0,1	0,1	0,1	0,1	NPD
Strength - tension ft	N/mm²	EN 12369-1	18	18	18	16,5	16	NPD
Strength - compression fc	N/mm²	EN 12369-1	18	18	18	16,5	16	NPD
Strength - bending f_m	N/mm²	EN 12369-1	22	22	22	22	21	NPD
Strength - panel shear f_v	N/mm²	EN 12369-1	8,5	8,5	8,5	8,5	8,5	NPD
Strength - planar shear f_r	N/mm²	EN 12369-1	NPD	NPD	NPD	NPD	NPD	NPD
Stifness - tension E_t	N/mm²	EN 12369-1	3200	3200	3200	3100	2800	NPD
Stifness - compression E_c	N/mm²	EN 12369-1	2800	2800	2800	2700	2400	NPD
Stifness - bending E_m	N/mm²	EN 12369-1	2800	2800	2800	2700	2400	NPD
Stifness - panel shear G_v	N/mm²	EN 12369-1	1000	1000	1000	1000	800	NPD
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength R_{mean}	N/mm²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength $F_{ser,k}$	N/mm²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Punshing shear strength $F_{max,k}$	N/mm²	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD
Linear expansion $\delta l_{30,85}$	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	1	1	1	1	1	NPD
Content of PCP	ppm	EN 13986-5.18	<5	<5	<5	<5	<5	NPD

(*) <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 [6 -> 38mm]					
Formaldehyde class	Class	ASTM E1333	TSCA Title VI (EPA) < 0.11 ppm [6 -> 38mm]					

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Lode De Boe,
President UNILIN bvba, division panels

