

DECLARATION OF PERFORMANCE	
Reference :	DOPFibrabelMRNAFMR50v1
Commercial name :	Fibrabel MR NAF MR50
Product type :	MDF Fibreboard
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.9
CE Class :	L-MDF.H
Field of application :	Internal use as non-structural component in humid 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	16	15	15	15
Modulus of elasticity in bending	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	1700	1600	1500	1400
Internal bond	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	0,45	0,45	0,45	0,40
Swelling in thickness, 24h	%	EN 622-5	NPD	NPD	16	13	12	11
Moisture resistance OPTION 1 : Internal bond	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	0,25	0,2	0,15	0,1
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 622-5	NPD	NPD	16	15	15	15
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	NPD
Reaction to fire	Class	EN 13501-1	NPD	NPD	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0
Water vapour permeability $\mu$	wet dry	EN 13986 - table 9	NPD	NPD	12	12	12	12
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	NPD	0,1	0,1	0,1
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	2	2	2	2
Content of PCP	ppm	EN 13986-5.18	NPD	NPD	<5	<5	<5	<5

Informative Characteristic	Unit	Reference	Thickness range (mm)					
			6	>6 - 9	> 9 - 12	>12-19	>19-30	>30-45
Formaldehyde class	Class	ASTM E1333	CARB NAF < 0.04 ppm [8 -> 40mm]					
Moisture resistance class	Class	ANSI A208.2-2016	Class 115 [8 -> 40mm]					

Version date :  
6/05/2019

Lode De Boe,  
President UNILIN bvba, division panels

