

DECLARATION OF PERFORMANCE	
Reference :	DOPHydroFlamv1
Commercial name :	HydroFlam
Product type :	Fire retardant Particleboard
Reference standard :	Wood Based Panel - EN 13986 Annex A Table A.4
CE Class :	P5
Field of application :	Internal use as structural component in humid conditions
AVCP Class :	1
Certification number:	1161-CPR-1323
Produced at:	Ingelmunstersteenweg 299,B-8780 Oostrozebeke

Essential Characteristic	Unit	Reference	Thickness range (mm)		
			> 6-13	> 13-20	> 20-25
Bending strength	N/mm ²	EN 312-table 7	18	16	14
Bending stiffness	N/mm ²	EN 312-table 7	2550	2400	2150
Internal bond	N/mm ²	EN 312-table 7	0,45	0,45	0,40
Swelling in thickness, 24h	%	EN 312-table 7	11	10	10
Moisture resistance OPTION 1 : Internal bond	N/mm ²	EN 312-table 8	0,25	0,22	0,20
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 312-table 8	12	12	11
Surface Soundness	N/mm ²	EN 312-table 7	0	0	0
Formaldehyde emission class	Class	EN 13986-table B1	E1	E1	E1
Formaldehyde content	mg/100g	EN 120	≤ 8	≤ 8	≤ 8
Reaction to fire	Class	EN 13501-1	B-s2,d0	B-s2,d0	B-s2,d0
Reaction to fire	Class	BS 476	Class 1	Class 1	Class 1
Water vapour permeability μ	wet	EN 13986-table 9	16	16	15
	dry		50	50	50
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD
Sound absorption α		EN 13986-table 10	0,10/0,25	0,10/0,25	0,10/0,25
Thermal conductivity λ	W/m.K	EN 13986-table 11	0,14	0,14	0,13
Strength - tension f _t	N/mm ²	EN 12369-1	9,4	8,5	7,4
Strength - compression f _c	N/mm ²	EN 12369-1	12,7	11,8	10,3
Strength - bending f _m	N/mm ²	EN 12369-1	15,0	13,3	11,7
Strength - panel shear f _y	N/mm ²	EN 12369-1	7,0	6,5	5,9
Strength - planar shear f _r	N/mm ²	EN 12369-1	1,9	1,7	1,5
Stiffness - tension E _t	N/mm ²	EN 12369-1	2000	1900	1800
Stiffness - compression E _c	N/mm ²	EN 12369-1	2000	1900	1800
Stiffness - bending E _m	N/mm ²	EN 12369-1	3500	3300	3000
Stiffness - panel shear G _v	N/mm ²	EN 12369-1	960	930	860
Impact resistance	Class	EN 12871	NPD	NPD	NPD
Linear expansion δ _{1,30,85}	mm/m	EN 318	< 4	< 4	< 4
Mechanical durability (kmod; kdef)			EN 1991-1-1	EN 1991-1-1	EN 1991-1-1
Biological durability	Service Class	EN 335	1 & 2	1 & 2	1 & 2
Content of PCP	ppm	EN 13986-5.18	< 5	< 5	< 5

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Lode De Boe,
President UNILIN bvba, division panels

