

### DECLARATION OF PERFORMANCE

Reference :	DOPDurelisVapourblockTGv2
Commercial name :	Durelis Vapourblock TG
Product type :	Tongue and groove panel
Reference standard :	Wood Based Panel - EN 13986+A1:2015 Annex A Table A.4
CE Class :	P5
Field of application :	Internal use as a structural component in humid conditions
AVCP Class :	2+
Certification number:	1161-CPR-0146
Produced at:	Ingelmunstersteenweg 299,B-8780 Oostrozebeke

Essential Characteristic	Unit	Reference	Thickness range (mm)						
			>6-10	>10-13	>13-20	>20-25	>25-32	>32-40	>40
Bending strength	N/mm <sup>2</sup>	EN 622-5	18	18	16	14	12	10	9
Modulus of elasticity in bending	N/mm <sup>2</sup>	EN 622-5	2550	2550	2400	2150	1900	1700	1550
Internal bond	N/mm <sup>2</sup>	EN 622-5	0.45	0.45	0.45	0.40	0.35	0.30	0.25
Swelling in thickness, 24h	%	EN 622-5	13	11	10	10	10	9	9
Moisture resistance OPTION 1 : Internal bond	N/mm <sup>2</sup>	EN 622-5	0.25	0.25	0.22	0.2	0.17	0.15	0.12
Moisture resistance OPTION 1 : Swelling in thickness	%	EN 622-5	12	12	12	11	10	9	9
Surface Soundness	N/mm <sup>2</sup>	EN 622-5	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Formaldehyde class	Class	EN 13986-table B1	E1	E1	E1	E1	E1	E1	E1
Reaction to fire	Class	EN 13986-5.8	E	D-s2d0(*)	D-s2d0	D-s2d0	D-s2d0	D-s2d0	D-s2d0
Water vapour permeability $\mu$	wet dry	EN 13986 - table 9	NPD	192	192	NPD	NPD	NPD	NPD
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Sound absorption $\alpha$		EN 13986 - table 10	0,10/0,25	0,10/0,25	0,10/0,25	0,10/0,25	0,10/0,25	0,10/0,25	0,10/0,25
Thermal conductivity $\lambda$	W/m.K	EN 13986 - table 11	0.14	0.14	0.14	0.13	0.12	0.12	0.12
Strength - tension $f_t$	N/mm <sup>2</sup>	EN 12369-1	9.4	9.4	8.3	7.4	6.6	5.6	5.6
Strength - compression $f_c$	N/mm <sup>2</sup>	EN 12369-1	12.7	12.7	11.8	10.3	9.8	8.5	7.8
Strength - bending $f_m$	N/mm <sup>2</sup>	EN 12369-1	15	15	13.3	11.7	10	8.3	7.5
Strength - panel shear $f_p$	N/mm <sup>2</sup>	EN 12369-1	7	7	6.5	5.9	5.2	4.8	4.4
Strength - planar shear $f_r$	N/mm <sup>2</sup>	EN 12369-1	1.9	1.9	1.7	1.5	1.3	1.2	1
Stiffness - tension $E_t$	N/mm <sup>2</sup>	EN 12369-1	2000	2000	1900	1800	1500	1400	1300
Stiffness - compression $E_c$	N/mm <sup>2</sup>	EN 12369-1	2000	2000	1900	1800	1500	1400	1300
Stiffness - bending $E_m$	N/mm <sup>2</sup>	EN 12369-1	3500	3500	3300	3000	2600	2400	2100
Stiffness - panel shear $G_v$	N/mm <sup>2</sup>	EN 12369-1	960	960	930	860	750	690	660
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Punishing shear strength $R_{mean}$	N/mm <sup>2</sup>	EN 1195	NPD	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	NPD
Punishing shear strength $F_{max,k}$	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Linear expansion $\delta_{30,85}$	mm/m	EN 318	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Mechanical durability (kmod; kdef)		Shall be taken from :	NPD	NPD	NPD	NPD	NPD	NPD	NPD
Biological durability	Service Class	EN 335	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2	1 & 2
Content of PCP	ppm	EN 13986-5.18	<5	<5	<5	<5	<5	<5	<5

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

Informative Characteristic	Unit	Reference	Thickness range (mm)						
			>6-10	>10-13	>13-20	>20-25	>25-32	>32-40	>40
Formaldehyde content	mg/100g	EN 120	< 8 mg/100g DS						

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