

DECLARATION OF PERFORMANCE	
Reference :	DOPQualirackLF+TGv1
Commercial name :	Qualirack LF+ TG
Product type :	Melamine faced tongue and groove panel
Reference standard :	Wood Based Panel - EN13986:2004+A1:2015 Annex A Table A.4
CE Class :	P4
Field of application :	Internal use as a structural component in dry conditions
AVCP Class :	2+
Certification number:	1161-CPR-0145
Produced at:	Breestraat 4,B-8710 Wielsbeke Ingelmunstersteenweg 299,B-8780 Oostrozebeke

Essential Characteristic	Unit	Reference	Thickness range (mm)				
			>8-10	>13-20	>20-25	>20-25	25
Bending strength	N/mm <sup>2</sup>	EN 312-table 9	16	15	15	13	11
Modulus of elasticity in bending	N/mm <sup>2</sup>	EN 312-table 9	2300	2300	2300	2050	1850
Internal bond	N/mm <sup>2</sup>	EN 312-table 9	0.40	0.35	0.35	0.30	0.25
Swelling in thickness, 24h	%	EN 312-table 9	19	15	15	15	15
Formaldehyde emission class	Class	EN 13986-table B1	E1	E1	E1	E1	E1
Reaction to fire	Class	EN 13501-1	D-s2,d0 <sup>(*)</sup>	D-s2,d0	D-s2,d0	D-s2,d0	D-s2,d0
Reaction to fire (Flooring)	Class	EN 13501-1	D <sub>fl</sub> -s1	D <sub>fl</sub> -s1	D <sub>fl</sub> -s1	D <sub>fl</sub> -s1	D <sub>fl</sub> -s1
Water vapour permeability μ	wet	EN 13986 - table 9	17	16	16	16	15
	dry		50	50	50	50	50
Airborne sound insulation	dB	EN 13986-5.10	NPD	NPD	NPD	NPD	NPD
Sound absorption α		EN 13986 - table 10	0,10/0,25	0,10/0,25	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	0.14	0.13	0.12
Strength - tension ft	N/mm <sup>2</sup>	EN 12369-1	8.9	7.9	7.9	6.9	6.1
Strength - compression fc	N/mm <sup>2</sup>	EN 12369-1	12	11.1	11.1	9.6	9
Strength - bending f <sub>m</sub>	N/mm <sup>2</sup>	EN 12369-1	14.2	12.5	12.5	10.8	9.2
Strength - panel shear f <sub>y</sub>	N/mm <sup>2</sup>	EN 12369-1	6.6	6.1	6.1	5.5	4.8
Strength - planar shear f <sub>p</sub>	N/mm <sup>2</sup>	EN 12369-1	1.8	1.6	1.6	1.4	1.2
Stiffness - tension E <sub>t</sub>	N/mm <sup>2</sup>	EN 12369-1	1800	1700	1700	1600	1400
Stiffness - compression E <sub>c</sub>	N/mm <sup>2</sup>	EN 12369-1	1800	1700	1700	1600	1400
Stiffness - bending E <sub>m</sub>	N/mm <sup>2</sup>	EN 12369-1	3200	2900	2900	2700	2400
Stiffness - panel shear G <sub>y</sub>	N/mm <sup>2</sup>	EN 12369-1	860	830	830	770	680
Impact resistance	Class	EN 12871	NPD	NPD	NPD	NPD	NPD
Punshing shear strength R <sub>mean</sub>	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD
Punshing shear strength F <sub>ser,k</sub>	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD
Punshing shear strength F <sub>max,k</sub>	N/mm <sup>2</sup>	EN 1195	NPD	NPD	NPD	NPD	NPD
Linear expansion δ <sub>30,85</sub>	mm/m	EN 318	< 4	< 4	< 4	< 4	< 4
Mechanical durability (kmod; kdef)		Shall be taken from :	EN 1995-1-1	EN 1995-1-1	EN 1995-1-1	EN 1995-1-1	EN 1995-1-1
Biological durability	Service Class	EN 335	1	1	1	1	1
Content of PCP	ppm	EN 13986-5.18	<5	<5	<5	<5	<5

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

Informative Characteristic	Unit	Reference	Thickness range (mm)			
			>8-10	>13-20	>20-25	>20-25
Formaldehyde class	Class	ASTM E1333	CARB 2 < 0.09 ppm [8 -> 60mm]			
Formaldehyde class	Class	ASTM E1333	TSCA Title VI (EPA) < 0.09 ppm [8 -> 60mm]			
Formaldehyde emission	ppm	ChemVerbots	<= 0.1 ppm [ISO 16516 LF1.8/EN 717-1*2]			

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