

DECLARATION OF PERFORMANCE

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|------------------------|---|
| Reference : | DOPQualirackTGv1 |
| Commercial name : | Qualirack TG |
| Product type : | 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 | >10-13 | >13-20 | >20-25 | >25-32 | >32-40 | >40 |
| Bending strength | N/mm ² | EN 312 | 16 | 15 | 15 | 13 | 11 | 9 | 7 |
| Modulus of elasticity in bending | N/mm ² | EN 312 | 2300 | 2300 | 2300 | 2050 | 1850 | 1500 | 1200 |
| Internal bond | N/mm ² | EN 312 | 0.40 | 0.35 | 0.35 | 0.30 | 0.25 | 0.20 | 0.20 |
| Swelling in thickness, 24h | % | EN 312 | 19 | 15 | 15 | 15 | 15 | 14 | 14 |
| Formaldehyde class | Class | EN 13986-table B1 | E1 | E1 | E1 | E1 | E1 | E1 | E1 |
| Reaction to fire | Class | EN 13501-1 | D-s2d0(*) | D-s2d0 | D-s2d0 | D-s2d0 | D-s2d0 | D-s2d0 | D-s2d0 |
| Water vapour permeability μ | wet | EN 13986 - table 9 | 17 | 16 | 16 | 16 | 15 | 15 | 15 |
| | dry | | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| Airborne sound insulation | dB | EN 13986-5.10 | NPD | NPD | 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 | 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 | 0.12 | 0.12 |
| Strength - tension f_t | N/mm ² | EN 12369-1 | 8.9 | 7.9 | 7.9 | 6.9 | 6.1 | 5 | 4.4 |
| Strength - compression f_c | N/mm ² | EN 12369-1 | 12 | 11.1 | 11.1 | 9.6 | 9 | 7.6 | 6.1 |
| Strength - bending f_m | N/mm ² | EN 12369-1 | 14.2 | 12.5 | 12.5 | 10.8 | 9.2 | 7.5 | 5.8 |
| Strength - panel shear f_y | N/mm ² | EN 12369-1 | 6.6 | 6.1 | 6.1 | 5.5 | 4.8 | 4.4 | 4.2 |
| Strength - planar shear f_r | N/mm ² | EN 12369-1 | 1.8 | 1.6 | 1.6 | 1.4 | 1.2 | 1.1 | 1 |
| Stiffness - tension E_t | N/mm ² | EN 12369-1 | 1800 | 1700 | 1700 | 1600 | 1400 | 1200 | 1100 |
| Stiffness - compression E_c | N/mm ² | EN 12369-1 | 1800 | 1700 | 1700 | 1600 | 1400 | 1200 | 1100 |
| Stiffness - bending E_m | N/mm ² | EN 12369-1 | 3200 | 2900 | 2900 | 2700 | 2400 | 2100 | 1800 |
| Stiffness - panel shear G_v | N/mm ² | EN 12369-1 | 860 | 830 | 830 | 770 | 680 | 600 | 550 |
| Impact resistance | Class | EN 12871 | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| Punishing shear strength R_{mean} | N/mm ² | EN 1195 | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| Punishing shear strength $F_{ser,k}$ | N/mm ² | EN 1195 | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| Punishing shear strength $F_{max,k}$ | N/mm ² | EN 1195 | NPD | NPD | NPD | NPD | NPD | NPD | NPD |
| Linear expansion $\delta_{30,85}$ | mm/m | EN 318 | < 4 | < 4 | < 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 | EN 1995-1-1 | EN 1995-1-1 |
| Biological durability | Service Class | EN 335 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 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) | | | | | |
|----------------------------|---------|-----------|----------------------|--------|--------|--------|--------|--------|
| | | | >8-10 | >10-13 | >13-20 | >20-25 | >25-32 | >32-40 |
| Formaldehyde content | mg/100g | EN 120 | < 8 mg/100g DS | | | | | |

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