



AFC Product Lines

Carbon (Stone+, Groove+, Lines+, Reflect+) · Lines+ · Sky · Nature (Matte & Glossy)

Technical data sheet.

All tests in accordance with EN 12467.

| | Unit of measure | Value |
|----------------------------------|---|--|
| STANDARD DIMENSIONS | | |
| Length | mm | 2500 3050 |
| Width | mm | 1250 |
| Thickness | mm | All: 8, 10 Carbon ^{Groove+} : 10 |
| Tolerances on nominal dimensions | Classification according to EN 12467:2018 | Level 1 |
| - on length | mm | ± 2 |
| - on width | mm | ± 1 |
| - on straightness of edges | % | 0,1 |
| - on squareness of edges | mm/m | 2 |
| - on thickness for smooth sheets | mm | ± 0,5 |
| Nominal weight | kg/m ² | 14,4 (t=8mm) 18,0 (t=10mm) |
| PHYSICAL PROPERTIES | | |
| Density (dry) | kg/m ³ | 1600 ± 50 |
| MECHANICAL PROPERTIES | | |
| E modulus of elasticity (dry) | | |
| - longitudinal | GPa | 14 |
| - transversal | GPa | 12 |
| E modulus of elasticity (wet) | | |
| - longitudinal | GPa | 11 |
| - transversal | GPa | 9 |
| Bending strength (wet) | MPa | ≥ 24 |
| Resistance (Charpy test) | According to EN 179-1:2010 | |
| - longitudinal | kJ/m ² | 4,3 |
| - transversal | kJ/m ² | 3,1 |

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| HYGROMETRICAL PROPERTIES | | |
| Natural humidity | % | 10 ÷ 15 |
| Max water absorption (wet over dry) | % | ≤ 25 |
| Moisture movement – Relative humidity change from 30% to 90% | | |
| - longitudinal | mm/m | 0,7 |
| - transversal | mm/m | 0,8 |
| THERMAL AND WATER VAPOUR PROPERTIES (untreated boards) | | |
| Vapor resistance factor, μ – according to EN 12572:2016 | --- | 49 |
| Thermal conductivity – according to EN 12664:2002 | W/mK | 0,42 |
| Thermal expansion coefficient – according to EN 10545-8:2014 | | |
| - longitudinal | 1/°C | 1,71•10 ⁻⁶ |
| - transversal | 1/°C | 0,58•10 ⁻⁶ |
| OTHER PROPERTIES | | |
| Superior calorific power | MJ/kg | ≤ 1,3 |
| Fire rating class | According to EN 13501-1 | A2 s1 d0 |
| Fire rating class | ASTM E136 & CAN/ULC S114 | Pass |
| Freeze-thaw performance | | RL ≥ 0,75 |
| Durability classification | According to EN 12467:2018 | category A |
| Strength classification | According to EN 12467:2018 | class 5 |
| CE marked product according to | --- | EN12467 |

If not otherwise specified, the tests are in accordance with EN 12467.