



VALCAN

The Defining Standard

Technical data sheet – TDS/CPA2/rev1/11.2022

Ceramapanel A2

Ceramapanel A2 are asbestos free double pressed and autoclaved flat boards. They are reinforced with mineralized cellulose fibres and through coloured, with smoothed surface and rectified edges.

Ceramapanel A2 boards are CE and UKCA marked in accordance with EN 12467

| STANDARD DIMENSIONS** AND GEOMETRY | UNIT OF MEASURE | VALUE |
|--|---|--|
| Length | Mm | 2500 3000 3050 |
| Width | Mm | 1200 1250 |
| Thickness | | 5-6-8-10-12 |
| 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 | ±0.2 |
| Nominal Weight | Kg/m ² | 14.4 (t=8mm) 18.0 (t=10mm) 21.6 (t=12mm) |
| PHYSICAL PROPERTIES | | |
| Density (dry) | Kg/m ³ | 1600±50 |
| MECHANICAL PROPERTIES | | |
| EA 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 | ≥18 |
| Resistance (charpy test) | According to EN 179-1:2010 | |
| - Longitudinal | KJ/m ² | 4.3 |
| - Transversal | KJ/m ² | 3.1 |
| HYGROMETICAL PROPERTIES | | |
| Natural humidity | % | 10 ÷ 15 |
| Max water absorption* | % | ≤25 |
| Moisture movement – Relative humidity change from 30% to 90% | | |
| - Longitudinal | Mm/m | 0.7 |
| - Transversal | Mm/m | 0.8 |

*** On request, smaller dimensions are available.



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| THERMAL AND WATER VAPOUR PROPERTIES | | |
|--|----------------------------|-----------------------|
| Vapor resistance factor, μ - according to EN 12572:2016 | --- | 49 |
| Thermal Conductivity – according to the 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 (through coloured) | MJ/kg | 1.1 |
| Fire rating class | According to EN 13501-1 | A2-s1, d0 |
| 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 EN12467.

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