



# VALCAN

The Defining Standard

Technical data sheet – TDS/CPA1/rev1/11.2022

## Ceramapanel A1

Ceramapanel A1 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 A1 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 <sup>2</sup>	14,4 (t=8mm) 18,0 (t=10mm) 21,6 (t=12mm)
<b>PHYSICAL PROPERTIES</b>		
Density (dry)	Kg/m <sup>3</sup>	1600±50
<b>MECHANICAL PROPERTIES</b>		
EA Modulus of elasticity (dry)		
- Longitudinal	GPa	14
- Transversal	GPa	10
E modulus of elasticity (wet)		
- Longitudinal	GPa	10
- Transversal	GPa	8
Bending strength (wet)	MPa	≥18
Resistance (charpy test)	According to EN 179-1:2010	
- Longitudinal	KJ/m <sup>2</sup>	4,3
- Transversal	KJ/m <sup>2</sup>	3,1
<b>HYGROMETICAL PROPERTIES</b>		
Natural humidity	%	8/12
Max water absorption*	%	≤25
Moisture movement – Relative humidity change from 30% to 90%		
- Longitudinal	Mm/m	1,3
- Transversal	Mm/m	1,0

\*\*\* On request, smaller dimensions are available.



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<b>THERMAL AND WATER VAPOUR PROPERTIES</b>		
Vapor resistance factor, $\mu$ - according to EN 12572:2016	---	34
Thermal Conductivity – according to the EN 12664:2002	W/mK	0,36
Thermal expansion coefficient – according to EN 10545-8:2014		
- Longitudinal	1/°C	1,71•10 <sup>-6</sup>
- Transversal	1/°C	0,58•10 <sup>-6</sup>
<b>OTHER PROPERTIES</b>		
Superior calorific power (through coloured)	mj/kg	1,1
Fire rating class	According to EN 13501-1	A1
Freeze-thaw performance		RL≥0,75
Durability classification	According to EN 12467:2018	Category A
Strength classification	According to EN 12467:2018	Class 4
CE marked product according to	---	EN12467

If not otherwise specified, the tests are in accordance with EN12467.

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