

ODITEC 2.25

Calcium silicate board – core material

Product description

ODITEC 2.25 core material is a lightweight calcium silicate board which is classified as non-combustible product.

ODITEC 2.25 calcium silicate board do not contain quartz, nor asbestos.

Features

ODITEC 2.25 core material possesses the following characteristics:

- Non-combustibility
- Extremely lightweight
- Good mechanical characteristics
- Frost resistant
- Low hygric expansion and contraction
- Good thermal resistance
- Rot resistant
- Environmentally friendly
- Easy to machine and work with



Technical data

Physical properties	Unit	ODITEC 2.25
Bulk density. Dry (EN 1094-4)	kg/m ³	225
Maximum service temperature (EN 14306-2009)	°C	1000
Thermal conductivity (EN 12 667) at 10°C	W/(m·K)	0.061
Thermal conductivity (ASTM C-182) Mean temp. at 200°C	W/(m·K)	0.07
at 400°C		0.09
at 600°C		0.12
Sound reduction index (En ISO 717-1) Thickness 19 mm	dB	24
Thickness 38 mm		27
Thickness 60 mm		29
Dimension stability under specified temp. and humidity conditions (EN1604) at 20 °C – 90%RH – 48h	%	0,0
Compressive strength (EN 1094-5 : 1995)	M/Pa	2.8
Modulus of rupture (EN 993-6:1995)	M/Pa	1.4
Specific heat	kJ/kgK	0.84
Coefficient of reversible thermal expansion (BS 1902:section 5.3 : 1990) at 20°C-750°C	x10 ⁻⁶ K ⁻¹	5.5
Chemical analysis, typical	%	
Silica	SiO ²	47
Calcium oxide	CaO	42
Loss on ignition 1025°C	LOI	9
Water content	%	2.5
Non-combustibility test EN 13501-1 :2007+A1 :2009)	class	A1

Applications

The following skin materials can be applied onto the **ODITEC** core material:

- Steel
- MDF
- Aluminium
- Chipboard
- 3-Plywood
- Poly laminate

Product range

Colour: grey

Length x width (mm)	Thickness (mm)	Weight per board (kg)
2040 x 1220	22 – 60	11.8 - 37.3
2440 x 1220	22 – 60	14.1 - 44.7

ODITEC 2.25 can be processed to the dimension needed for a specific construction from a maximum size of 2440 mm x 1220 mm. Boards can be sanded on both sides on request.

Tolerances

ODITEC 2.25	Trimmed	Sanded
Length /width (mm)	± 2.5	± 2.5
Thickness (mm)	±1.5	± 0.3

Safe and hygiene measures

A safety data sheet is available.

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted.

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