

## ODITEC

### Calcium silicate board – core material

#### Product description

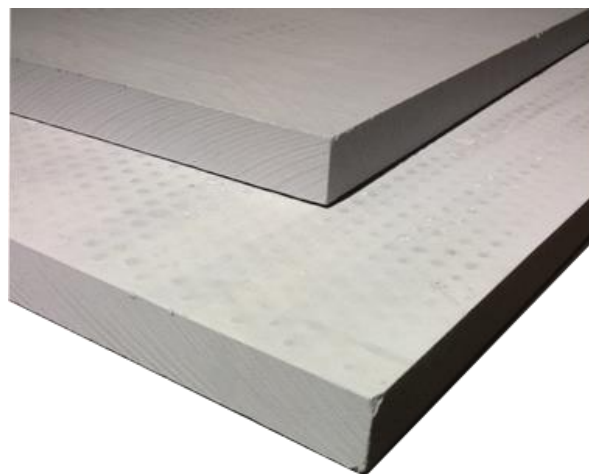
**ODITEC** is a non-combustible core material, lightweight calcium silicate board.

**ODITEC** boards do not contain quartz, not asbestos.

#### Features

**ODITEC** boards possess 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

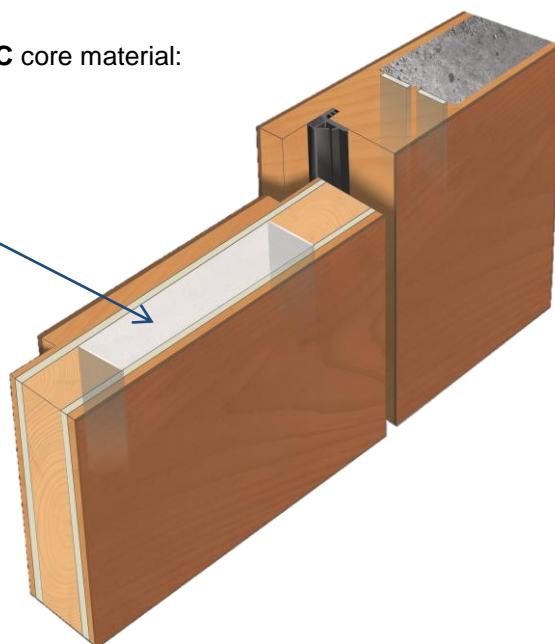
Physical properties	Unit	ODITEC 2.25	ODITEC 2.5	ODITEC 3.0
Bulk density. Dry (EN 1094-4)	kg/m <sup>3</sup>	225	250	300
Maximum service temperature (EN 14306-2009)	°C	1000	1000	1000
Thermal conductivity (ASTM C-182)				
Mean temp.	W/(mxK)			
at 200°C		0.07	0.08	0.09
at 400°C		0.09	0.10	0.11
at 600°C		0.12	0.12	0.14
at 800°C		-	0.14	0.15
Permeability to gases (EN 993-4:1995)	nPm	0.7	0.5	1
Cold crushing strength (EN ISO 8895-2006)	M/Pa	2.8	2.8	2.8
Modulus of rupture (EN 993-6:1995)	M/Pa	1.4	1.3	1.7
Linear shrinkage on heating (EN 1094-6: 1999) 12 h @ 950 ° C	%	1	1	1.5
Dimensional stability under specified temperature and humidity conditions (EN 1604) @ 23 ° C - 90% RH - 48 h	%	0.0	0.0	0.0
Coefficient of reversible thermal expansion (BS 1902:section 5.3 : 1990) at @20°C-750°C	×10 <sup>-6</sup> K <sup>-1</sup>	5.5	5.5	5.5
Total porosity (EN 1094-4:1995)	%	91	90	89
Creep under compression (EN 993-9: 1997) 50 h @ 800 ° C, load 0.1 Mpa	%	3.3	0.4	0.4
Chemical analysis, typical				
Silica	% SiO <sup>2</sup>	47	47	46
Calcium oxide	% CaO	42	43	45
Loss on ignition 1025°C	%	9	8	6
Water content	%	-	2.5	2.5
Non-combustibility test (EN 13501-1:2007 + A1:2009)		A1	A1	A1

## Applications

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

- Steel
- MDF
- Aluminium
- Chipboard
- 3-Plywood
- Polylaminate

ODITEC



## Product range

Colour: grey

Length x width (mm)	Thickness (mm)
2040 x 1220	22 – 60
2440 x 1220	22 – 60

(min. thickness 19 mm is achieved by sanding)

**ODITEC** 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	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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