

Thermal **insulation**

GB / 6.5 / Rev. 1

# ODIBOARD



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PASSIVE FIRE PROTECTION



## Product description

**ODIBOARD** is an insulating board made from mineral fibres, expanded perlite and special binders.

**ODIBOARD** is an excellent insulator. Its resistance to thermal shocks allows exposure to flames. Its excellent mechanical strength makes it easy to shape and work.

**ODIBOARD** is available in three versions, each corresponding to a specific application:

- **ODIBOARD 1.6** : a light board specially designed for filling 30 to 45 minute fire resistant doors or similar applications.
- **ODIBOARD 2.6**: a light board specially designed for filling 60 minute fire resistant doors.
- **ODIBOARD 3.2**: same use as 2.6, for filling fire retardant doors of 60 minutes and more.

## Features

**ODIBOARD**-boards possess the following characteristics:

- Excellent strength weight ratio.
- Highly resistant to thermal shocks.
- Highly resistant to the accumulation and transfer of heat.
- Good mechanical strength.
- Dimensional stability.
- Available in long lengths.
- Easy to work and cut. Can be cut with a saw and pierced with a drill.
- Environmentally friendly product.

## Technical data

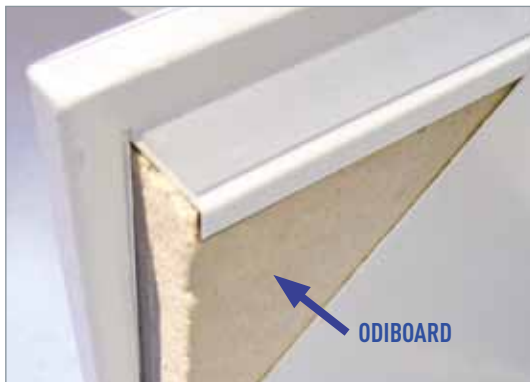
Physical properties	Unit	ODIBOARD 1.6	ODIBOARD 2.6	ODIBOARD 3.2
Nominal density	kg/m <sup>3</sup>	160	260	320
Nominal compression stress at elasticity limit (EN 826)	kPa	180	150	120
Corresponding deformation (EN 826)	%	1,5	1	2
Nominal perpendicular tensile strength for monolithic boards (EN 1607)	kPa	80	80	80
Nominal perpendicular tensile strength for laminated boards (EN 1607)	kPa	60	-	-
Flexural strength (EN 13169)	kPa	≥ 350	≥ 450	≥ 500

Thermal characteristics	Unit	ODIBOARD 1.6	ODIBOARD 2.6	ODIBOARD 3.2
Linear shrinkage after exposure to 600°C for 4 hours	%	1,5	1	0,5
Weight loss after exposure to 800°C for 2 hours	%	27	10	5
Thermal conductivity at 10°C (ISO 8301))	W/m.K	0,050	0,060	0,065

Burning behaviour rating	ODIBOARD 1.6	ODIBOARD 2.6	ODIBOARD 3.2
EN 13501-1 Euroclasses	B-S 1, d0	A 1	A 1

## Applications

- Filling material for fire resistant doors and partitions.
- Insulation against any source of heat.



Example of application: **ODIBOARD** as the core material for a metal and wooden door.

## Product range

Thickness (mm)	25	30	35	40	45	50	60*
Standard width x length (mm)	900 (+/-1) x 2100 (+/-2) 1200 (+/-1) x 2100 (+/-2) 1200 (+/-1) x 2400 (+/-2)						

\* 60 mm thickness only available in **ODIBOARD 1.6**

**Other dimensions possible** on customer specification and subject to a minimum quantity.

**ODIBOARD 1.6, 2.6 and 3.2** can be custom-cut in large or small strips and machined according to your drawings in our workshops.



Example of machining

## Product range

### Thickness tolerances

	ODIBOARD 1.6	ODIBOARD 2.6	ODIBOARD 3.2
Standard thickness and tolerances on monolithic boards	25 to 40 mm ± 1 mm	25 to 50 mm ± 2 mm	25 to 50 mm ± 2 mm
Standard thickness and tolerances on laminated boards	40 to 60 mm ± 2 mm	-	-
Thickness tolerances in grinded boards	(-0,5/+0,5 mm) or (-1/+0 mm) or (0/+1 mm)		
Squareness	2 mm/m		

### Packing - Packaging

ODIBOARD is supplied as boards on pallets, or machined to your specifications.

Number of boards per pallet and board dimensions.

Type	Length x Width (mm)	Thickness (mm)					
		Number of boards					
		25	30	35	40	45	50
ODIBOARD 1.6 / 2.6 / 3.2	900 x 2100	42	30	27	24	23	21
ODIBOARD 1.6 / 2.6 / 3.2	1200 x 2100	42	30	27	24	23	21
ODIBOARD 1.6 / 2.6 / 3.2	1200 x 2400	42	30	27	24	23	21

### Storage

Store in a dry, well-ventilated area.

### Health and safety measures

Observe usual workplace health and safety rules.

Refer to the safety data sheet.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data and information furnished by ODICE hereunder are given free of charge and ODICE assumes no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.



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