

## AEROGEL INSULATION COMPOSITE BOARD



Composite board made of one or multiple layers of AEROGEL A2 and a 15 mm thickness 4-sides-tapered-edge gypsum fibreboard.

It's designed for building restoration and renovation, and generally for all applications where reduction the thickness of the insulation package is needed. Specifically suitable for dry applications, with or without support frame.

Intended internal use only.



### CORE FEATURES

Insulation material composed of silica aerogel with high density glassfibres support and homogeneous gypsum-based 15 mm thickness fibreboard, in-factory sealed

- High thermal performance
- Stability and impact strength
- Harmful emissions and VOC free
- Fire resistant
- Hard and stable
- Aasy and fast to install

### FIELD OF APPLICATION



- Internal counter walls
- Dry screed floors

### GUIDELINES

Depending on type of application. Please refer to case studies and original documentation on [ecofine.it](http://ecofine.it) portal. Keep dry, protect from moisture and UV rays.

Under standard storage conditions the product is unlimited storable.

Inhalation and breathing excessive amounts of product dust may cause irritation of the respiratory tract. Long-time contact with skin and eyes may cause irritation.

### SPECIFICHE TECNICHE

Nominal thickness	mm	25	35	45	55	65
Size <sup>1)</sup>		P	P*			
Dimension	mm	1000x1480				
Thermal resistance <sup>2)</sup>	m <sup>2</sup> K/W	0,70	1,36	2,02	2,68	3,34
Dimensional tolerance	%	width, length: ±1,5 thickness: 0/+15				
Airflow resistance (Sd)	m	0,32	0,45	0,58	0,72	0,85

<sup>1)</sup> P= panel P\*= panel with multy-layered insulation component

<sup>2)</sup> the sum of thermal resistance of the insulation layer and the board

**INSULATION LAYER**

FEATURE	STANDARD	U.M.	VALUE		
Thermal conductivity ( $\lambda_D$ ) <sup>1)</sup>	EN10456	W/mK	0,015		
Calorific value (Cp)	EN10456	J/Kg.K	1030		
Nominal density	--	Kg./m <sup>3</sup>	200 ± 10%		
Water vapour transmission rate ( $\mu$ )	EN12086	--	13		
Water vapour permeability	EN12086	Kg./msPa	14,4x10 <sup>-12</sup>		
Long term water absorption by total immersion (Wlp)	EN12087	Kg./m <sup>2</sup>	0		
Compression behaviour ( $\sigma_{10}$ )	EN826	KPa	54		
Compressive creep ( $\epsilon_{10Y}$ ) <sup>2)</sup>	EN1606	%	0,45 (3 KPa)	1,55 (6 KPa)	3,65 (9 KPa)
Fire behaviour - EUROCLASS	EN13501-1	--	B/s1/d0		
Volatile Organic Compounds (VOC)	EN16000-9	classe	A+		

<sup>1)</sup> performance determined with thickness 10 mm <sup>2)</sup> linear regression processed from 1h to 2928h

**GYPSUM FIBREBOARD LAYER**

CARATTERISTICA	NORMA	UNITÀ	VALORE		
Thermal conductivity ( $\lambda$ )	EN12667	W/mK	0,32		
Nominal density	--	Kg./m <sup>3</sup>	1150 ± 50		
Calorific value (Cp)	--	J/Kg.K	1100		
Water vapour transmission rate ( $\mu$ )	EN12572	--	13		
Fire behaviour - EUROCLASS	EN13501-1	--	A2/s1/d0		



Compliance to EAD 070006-00-0504

- Product does not contain substances classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments. Please refer to article Information sheet
- Classification of FAVs pursuant to Regulation (CE) 1272/2008 - Annex VI, as amended by Regulation (CE) 790/2009 according to the CLP criteria. HAZARD CATEGORY: Exempted from classification. NOTE: "R"
- CER: 17.06.04 (insulation) 17.08.02 (gypsum fibreboard) . Article suitable to be transferred to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010
- TARIC: 68 09 19 00

All product information, data and technical details are based on the latest research and experience. We reserve the right to make technical alterations to the constructions recommended and to the handling as well as to further development of the individual products and associated changes in quality. All technical guidelines and requirements are to be adapted to local conditions and do not constitute factory, technical or assembly guidelines. The relevant technical guidelines and specifications for the products in the technical leaflets and system descriptions have to be observed. We will provide the most up to date technical information at the time of publishing. On publication of new data or releases, all previous publications become invalid. Please see on [www.ecofine.it](http://www.ecofine.it)