

**AEROGEL THERMAL INSULATION PANEL
COATED**



Aerogel thermal insulation panel, compression resistant, provided by PE-AL vapor barrier layer.
Nominal density 230 kg/m³.
Designed to building restoration and renovation, and generally for whole applications where highly thermal performance, almost zero vapor permeability and low thickness of the insulation package are needed.
Available also with double vapor barrier layer on both faces.



CORE FEATURES

Insulation material made of silica aerogel with high density glassfibers support, one or two-side coated by polyethylene-aluminum-polyethylene multilayer vapor barrier.

- High thermal performance
- Compression resistant
- Almost zero vapour permeability
- Harmful emissions free
- Easy to work, may be cut

FIELD OF APPLICATION



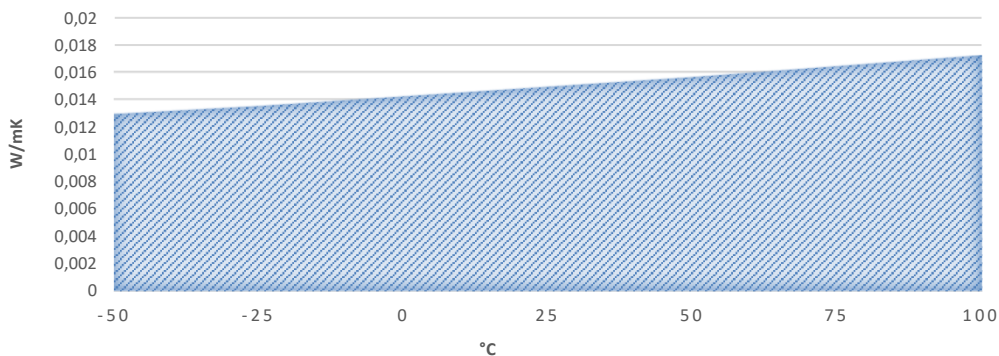
- Wall cavities
- Floating floors
- Flat roofs
- Attics
- Pitched roof

GUIDELINES

Depending on the type of application. Please refer to case studies and original documentation on ecofine.it
Keep dry, protect from moisture and UV rays. Under standard storage conditions product is unlimited storable.
The product may appears dusty: inhalation and breathing excessive amounts of dust may cause irritation of the respiratory tract.

PERFORMANCE

THERMAL CONDUCTIVITY ACCORDING TO WORKING TEMPERATURE *



* Trend obtained by interpolation with conversion coefficient $f_T = 0,0018913$

TECHNICAL DATA

FEATURE	STANDARD	U.M.	VALUE		
Thermal conductivity (λ_D) ¹⁾	EN10456	W/mK	0,015		
Calorific value (Cp)	EN10456	J/Kg.K	1030		
Nominal density	--	Kg./m ³	200 ± 10%		
Water vapour transmission rate (μ)	EN12086	--	> 4,5x10 ⁶		
Water vapour permeability	EN12086	Kg./msPa	< 4x10 ⁻¹⁷		
Airflow resistance (Sd)	EN12086	m	> 1400		
Short-term partial immersion water absorption (Wp)	EN1609	Kg./m ²	0		
Long term water absorption by total immersion (Wlp)	EN12087	Kg./m ²	0		
Compression behaviour (σ_{10})	EN826	KPa	54		
Compressive creep (ϵ_{10Y}) ²⁾	EN1606	%	0,45 (3 KPa)	1,55 (6 KPa)	3,65 (9 KPa)
Dynamic stiffness (s ⁻¹) ¹⁾	EN29052-1	MN/m ³	43		
Compressibilità (c) ¹⁾	EN12431	mm	1,2		
Dimensional stability (70°C / 90%UR) ³⁾	EN1604	%	width:Δεl<1	length:Δεb<1	thickness:Δεd<1
Fire behaviour of insulation - EUROCLASS	EN13501-1	--	B/s1/d0		
Fire behaviour of lining - EUROCLASS	EN13501-1	--	E		

Nominal thickness	mm	10	20	30
Size ³⁾	--	P		P*
Dimension ⁴⁾	mm	740x740		
Thermal resistance	m ² K/W	0,66	1,32	1,98
Service temperature ⁵⁾	°C	-30/+70		
Dimensional tolerance	%	width, length: ±1,5 thickness: 0/+15		

¹⁾ performance determined with thickness 10 mm with no lining ²⁾ linear regression processed from 1h to 2928h

³⁾ prestazione determinata senza rivestimento

⁴⁾ P=sheet P*= multy-layer panel

- 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 . Article suitable to be transferred to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010
- TARIC: 68 06 90 0000

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