

**AEROGEL THERMAL INSULATION PANEL
COATED**

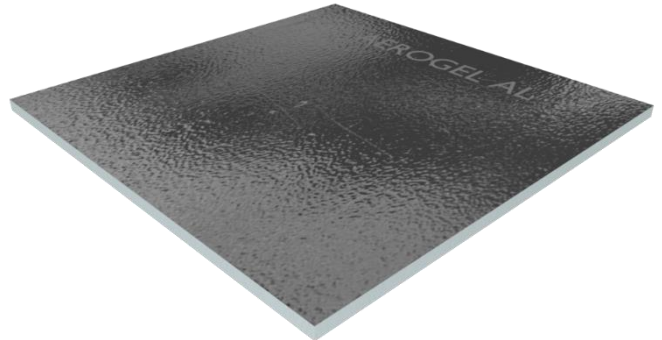
AEROGEL AL

Mineral fibers support aerogel thermal insulation panel, compression resistant, provided by PE-AL alkali-resistant vapor barrier layer. Nominal density 230 kg/m³.

AEROGEL AL surface is not suited to be coated by skim coatings or mortars because of its highly hydrophobic property and coat layer: suitable only for dry applications.

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 mineral fibers support, one-side coated by AR polyethylene-aluminum-polyethylene multilayer vapor barrier.

- 130 gr. vapor barrier layer
- high thermal resistance
- compression resistant
- almost zero vapour permeability
- hydrophobic rate > 99,5%
- harmful emissions free
- good sound reduction property
- easy to work, may be cut and pierce

COMPLIANCE

CE marked in accordance to Regulation (EU) 305/2011, according to standard EN 13162:2015
CE marking of the product ensures compliance with Declaration of Performance nr. AP2016-16

FIELD OF APPLICATION

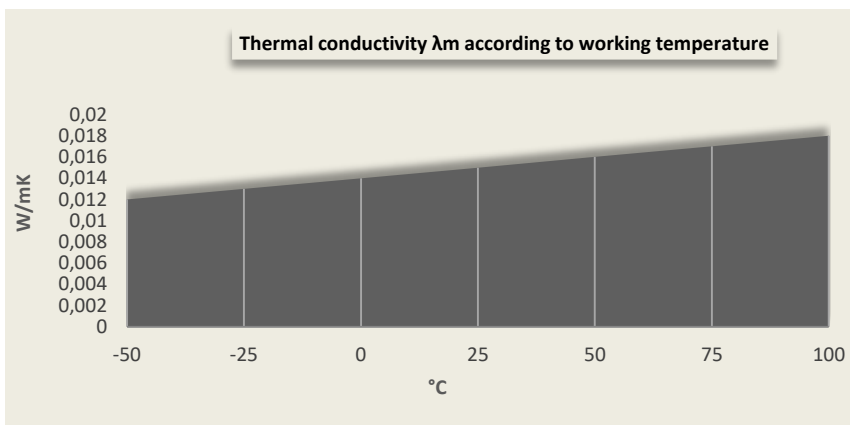


- Wall cavities
- Pitched roof
- Floating floors
- Flat roofs
- Attics

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.

THERMAL PERFORMANCE



°C	W/mK
-50	0,012
-25	0,013
0	0,014
25	0,015
50	0,016
75	0,017
100	0,018

TECHNICAL DATA

FEATURE	STANDARD	U.M.	VALUE
Declared thermal conductivity λ_d	EN12667	W/mK	0,015
Calorific value C_p	EN10456	J/Kg.K	1030
Nominal density ρ	--	Kg./m ³	230 ± 10%
Water vapour transmission rate μ	EN12086	--	> 4,5x10 ⁶
Water vapour permeability	EN12086	Kg./msPa	< 4x10 ⁻¹⁷
Airflow resistivity (Sd)	EN12086	m	> 1400
Short-term partial immersion water absorption (Wp)	EN1609	Kg./m ²	0
Long term water absorption by total immersion (Wip)	EN12087	Kg./m ²	0
Compression behaviour ($\sigma_{10/20}$)	EN826	KPa	55 at 10% - 100 at 20%
Creep behaviour ¹⁾	EN1606	%	relative deformation ϵ_{10a} <15
Tensile strength perpendicular to faces	EN1607	KPa	7,1
Fire behaviour - EUROCLASS	EN13501-1	--	NPD
Dimensional stability	EN1604	%	width: $\Delta\epsilon_l$ <1 length: $\Delta\epsilon_b$ <1 thickness: $\Delta\epsilon_d$ <1

Nominal thickness (d _N)	mm	10	20	30	
Size ³⁾	--	--	p		
Dimension ⁴⁾	--	mm	c-d		
Thermal resistance (R _D)	EN13162	m ² K/W	0,65	1,30	1,95
Conductance	--	W/m ² K	1,52	0,76	0,51
Service temperature	--	°C	-30/+80		
Dynamic stiffness (s')	EN29052-1	MN/m ³	43	--	
Compressibility (c)	EN12431	mm	1,2	--	

CE according to standard EN 13162:2015
MW-EN 13162-T2-DS(70,-)-CS(10)55-TR5-WL(P)-MU13

¹⁾ 9KPa load, linear regression processed from 0,1 to 2016 hours
²⁾ Referred to thickness 10 mm ³⁾ r= roll p= panel
⁴⁾ a=1.500x38.000 b=1.500x36.000 c=740x740 d=1480x740

- Product does not contain substances classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments. Please refer to article MS information sheet
- Notes for disposal: product suitable to be transferred to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010, CER 170604
- TARIC: 6806900000

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