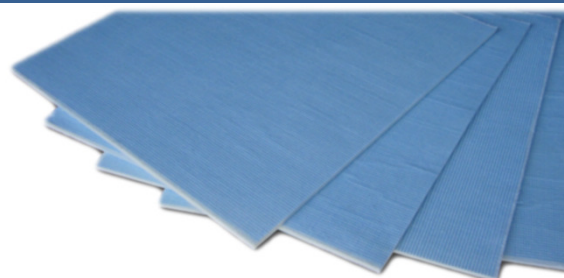




AEROGEL THERMAL INSULATION PANEL | UNCOATED

# AEROGEL SW



Mineral fibers support matrix aerogel-based thermal insulation panel, non-flammable, highly vapor permeable, reinforced by double AR fiberglass mesh 4x5 mm on two faces, suitable to receive mortar layers.

Fire behavior Euroclass B/s1/0, nominal density 180 kg/m<sup>3</sup>.

Designed to building restoration and renovation, and generally for whole civil and industrial applications where highly thermal performance and low thickness of the insulation package are needed.

AEROGEL SW is specific got internal and external ETICs applications.

## CORE FEATURES

Insulation material made of silica aerogel - volume of which consists of 97% air contained in nanopores- with high density mineral fibers support reinforced by double AR fiberglass mesh on two faces

- high thermal performance
- stable
- good adhesion with mortars
- vapour breathable
- hydrophobic
- fireproof
- harmful emissions free
- easy to install, may be cut and pierce
- solves thermal bridges

## 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. AP2016-18

## FIELD OF APPLICATION



- external ETICs
- internal ETICs
- widespread thermal bridges

## GUIDELINES

Depending on the 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 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,

## TECHNICAL DATA

FEATURE	STANDARD	U.M.	VALUE
Declared thermal conductivity λd	EN13162	W/mK	0,016
Average thermal conductivity λm	EN12667	W/mK	0,014
Calorific value Cp	EN10456	J/Kg.K	1030
Nominal density ρ	--	Kg./m <sup>3</sup>	180 ± 10%
Service temperature	--	°C	-30/+100
Flexibility	--	--	NO
Water vapour transmission rate μ	EN12086	--	13
Water vapour permeability	EN12086	Kg./msPa	14,4x10 <sup>-12</sup>
Fire behaviour - EUROCLASS	EN13501-1	--	B/s1/d0

FEATURE	STANDARD	U.M.	VALUE
Short-term partial immersion water absorption (Wp)	EN1609	Kg./m <sup>2</sup>	0
Long term water absorption by total immersion (WIp)	EN12087	Kg./m <sup>2</sup>	0
Compression behaviour (σ10)	EN826	KPa	70,6
Adhesive strength of mortars on substrate	EN1015-12	N/mm <sup>2</sup>	0,19 (RAS 600K)
Tensile strength perpendicular to faces	EN1607	KPa	7,1
Dimensional stability	EN1604	%	width:Δεl<1 length:Δεb<1 thickness:Δεd<1

Nominal thickness (d <sub>N</sub> )		mm	10	20	30	40	50
Size	--	--	p				
Dimension	--	mm	a/b			b	
Thermal resistance (Rd)	EN13162	m <sup>2</sup> K/W	0,65	1,30	1,95	2,60	3,25
Conductance	--	W/m <sup>2</sup> K	1,52	0,76	0,51	0,38	0,30
Airflow resistance (Sd)	EN12086	m	0,13	0,26	0,39	0,52	0,65
 according to standard EN 13162:2015 MW-EN 13162-T2-DS(70,-)-CS(10)70-TR5-WL(P)-MU13			p= panel a=740x740 b=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: 68069000

**RELATED PRODUCTS**



**RAS 600K adhesive**  
And rendering mortar

**Insulation Fixing**

**Reinforcement fiberglass mesh**

*Please refer to the installation guidelines and specific documentation according to the type of application*

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)