

DESCRIPTION Composite board with advanced porous material (APM) for thermal insulation

OVERVIEW Thermal insulation composite board consisting of AEROGEL A2 and a 15 mm-thickness gypsum fibreboard. AEROGEL A2f hard board combines high thermal insulation performance of aerogel-based blanket to mechanical strength characteristics of the fibreboard.

Designed for internal insulation of walls with no need of any support frame. Dry application.

Designed for internal restoration and renovation of buildings, specially in all situations where low-thickness insulation layers are required.

AEROGEL A2f has 4-sides-tapered edge that ease correct reinforcement and filling of joints between panels.

CORE FEATURES



High thermal insulation



Non-combustible
Non-flammable



Stability and impact strength



Breathable



Reduced thickness



Eas to install



Compression resistant



Harmful emissions free



Durable

GUIDELINES AEROGEL A2f is easy to work : it can be cut and drilled as needed.

Precise cuts allow an optimal matching of the joints. No thermal bridges.

Fixing to brick or cement structures by plugs. Threading screws are the commonly used methods for wood substrates.

Please refer to the specific documentation depending on the type of application on www.ecofine.it.

For internal applications (eg. counter walls) please refer to [Linee guida per la posa](#) .

FIELD OF APPLICATION



Counter walls



Dry screeds

TECHNICAL DATA

| | | | | | | |
|----------------------------------|--------------------|---|-----------|-----------|-----------|-----------|
| Nominal thickness | mm | 26 | 37 | 48 | 59 | 70 |
| Size | - | P | M | M | M | M |
| Dimension | mm | 1000 x 1480 | | | | |
| Thermal resistance ¹⁾ | m ² K/W | 0,72 | 1,40 | 2,08 | 2,76 | 3,44 |
| Airflow thickness | m | 0,34 | 0,48 | 0,62 | 0,77 | 0,91 |
| Dimensional tolerance | % | width, lenght : ± 1,5 ;thickness: 0 / +15 | | | | |

P= panel M= panel made of multi-layer insulation composite obtained by coupling of sheets

1) the sum of thermal resistance of insulation layer and fibreboard

INSULATION LAYER

| FEATURE | | STANDARD | U.M. | VALUE |
|--|------------------|-----------|--------------------|---|
| Declared thermal conductivity ²⁾ | λ_D | EN10456 | W/mK | 0,016 |
| Calorific value | C_p | EN10456 | J/Kg.K | 1030 |
| Nominal density | | - | Kg./m ³ | 200 ± 10% |
| Water vapour transmission rate | μ | EN12086 | - | 13 |
| Water vapor permeability | | EN12086 | Kg./msPa | 14,4x10 ⁻¹² |
| Long-term partial immersion water absorption | W_{lp} | EN12087 | Kg./m ² | 0 |
| Compression behaviour | σ_{10} | EN826 | KPa | 54 |
| Compressive creep ³⁾ | ϵ_{10Y} | 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 | class | A+ |

²⁾ performance determined for 11 mm-thickness ³⁾ linear regression processed from 1h to 2928h

FIBREBOARD LAYER

| FEATURE | | STANDARD | U.M. | VALUE |
|----------------------|-----------|----------|------|-------|
| Nominal thickness | s | - | mm | 15 |
| Thermal conductivity | λ | EN12667 | W/mK | 0,32 |

| | | | |
|--------------------------------|-----------|--------------------|-----------|
| Nominal density | - | Kg./m ³ | 1150 ± 50 |
| Water vapour transmission rate | μ | EN12572 | - 13 |
| Fire behaviour - EUROCLASS | EN13501-1 | - | A2/s1/d0 |



Manufactured in accordance with EAD 070006-00-0504

ADDITIONAL INFORMATION

Article does not contain substances classified as dangerous according to Regulation (EC) 1272/2008 and subsequent amendments. Please refer to Information Sheet.

FAVs classification in accordance with Regulation (EC) No 1272/2008 Annex VI, as amended by Regulation (EC) No 790/2009 according to CLP criteria. HAZARD CATEGORY: Exempted from classification. NOTE : "R". Complies with the applicable requirements of sections 2.4.1.3 and 2.4.2.9 D.M. 11/10/2017 -Minimum Environmental Criteria-.
TARIC : 68 09 19 00

STORAGE

Store the product in a dry place, away from moisture and ice. Keep away from water.
Under standard storage conditions product is unlimited storable.

DISPOSAL

Dispose the product and its packaging in accordance with current local/national directives.
CER: 17.06.04 (insulation), 17.08.02 (gypsum fibreboard)
Article suitable for moving to landfill facilities for non-hazardous waste in compliance to D.M. 27/09/2010

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