

Designation code CE: MW-EN13162-T3-DS(70,90)-CS(10)5-AFr20-WS-WL(P)-MU1

ISOVER OPTI VENT

STONE WOOL BOARDS

Benefits

HIGH QUALITY

-  High thermal insulation performance (low thermal conductivity);
-  Fire safety (noncombustible material);
-  Excellent acoustic properties (high absorption coefficient);
-  Long life span and time-stable properties;
-  Low vapor flow resistance;
-  Resistant to mold, mildew, rodents and insects;

ECONOMIC VALUE

-  Contributes to the reduction of energy consumption;
-  Chemically neutral, non-corrosive, easy to handle, non-toxic;

TECHNICAL SPECIFICATION

Boards made from ISOVER stone wool. The boards are obtained by melting the mineral raw materials in a furnace, fiberizing the melt by REX process, spraying a binder and adding mineral oils for protection against dust and water repellence. The mineral fibers mat is processed into boards which are packaged on the production line.

APPLICATION

Use (according to standard EN 13162:2012 + A1:2015):

Thermal insulation for buildings (ThiB).

ISOVER OPTI VENT boards are used for thermal, acoustic and fire insulation in civil and industrial buildings:

- ventilated facades;
- curtain walls;
- wooden houses walls or metallic buildings walls;
- walls made of metal boxes for halls;
- partition walls with specified fire resistance performances;

PACKAGING

ISOVER OPTI VENT boards are packed in packages wrapped in PE foil, and the packages are packed in pallets.





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TECHNICAL PARAMETERS	U.M.	VALUE
THERMAL INSULATION PROPERTIES		
Declared thermal conductivity - λ_D	W/(m•K)	0.035
MECHANICAL PROPERTIES		
Compressive stress at 10% deformation 10% σ_{10} or CS (10\Y)	kPa	5.0
FIRE SAFETY PROPERTIES		
Reaction to fire	-	A1
Melting temperature (according DIN 4102-17)	°C	≥ 1000
OTHER PROPERTIES		
Relative change in thickness $\Delta\epsilon_d$, DS(70,90)	%	max. 1
Air flow resistivity AFr	kPa•s/m ²	≥ 20
Specific heat capacity c_p (according EN ISO 10456)	J/(kg•K)	1030
Short term water absorption W_p / Long term water absorption W_{lp}	kg/m ²	max. 1 / max. 3
Water vapour diffusion resistance factor μ , MU	-	1
Thickness tolerances	Class	T3
Chemical behavior	Chemically neutral. Does not retain moisture. Allows vapors diffusion.	



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DIMENSIONS AND PACKAGING

PRODUCT	Thickness (mm)	Length x Width (mm)	Area (m ² /package)	Number of packs/pallet	Area (m ² /pallet)	Declared thermal resistance R _D (m ² ·K/W)
OPTI VENT	50	1000 x 600	4.8	12	57.6	1.40
OPTI VENT	60	1000 x 600	4.8	10	48.0	1.70
OPTI VENT	80	1000 x 600	3.6	10	36.0	2.25
OPTI VENT	100	1000 x 600	2.4	12	28.8	2.85
OPTI VENT	120	1000 x 600	1.8	12	21.6	3.40
OPTI VENT	140	1000 x 600	1.8	10	18.0	4.00
OPTI VENT	150	1000 x 600	1.8	10	18.0	4.25
OPTI VENT	160	1000 x 600	1.8	10	18.0	4.55
OPTI VENT	180	1000 x 600	1.2	12	14.4	5.10
OPTI VENT	200	1000 x 600	1.2	12	14.4	5.70
OPTI VENT	220	1000 x 600	1.2	10	12.0	6.25
OPTI VENT	240	1000 x 600	1.2	10	12.0	6.85
OPTI VENT	250	1000 x 600	1.2	10	12.0	7.10

RECOMMENDATION

During installation: mineral wool boards must be dry, clean, without traces of dust or other impurities. Moisture and water damages the properties of mineral wool. The thermal insulation must be protected against the action of moisture, whether it is generated by condensation, by an accident during installation or caused by flooding due to faulty installation.

CERTIFICATES, STANDARDS, APPROVALS

- Certificate of constancy of performance:
1840-CPR-99/91/EC/0868-24
- Certificate of Management System:
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

TRANSPORT AND STORAGE

The boards must be transported, stored and installed avoiding contact with water, or other damage. Packages or boards will not be stored in direct contact with the ground.

INSTALLATION

During installation, ensure that the insulation is continuous, without gaps or free spaces, without leaks at the joints between the boards or in the end or perimeter areas. Installation of the mineral wool boards will be done according to the manufacturer's instructions or the cladding system supplier's instructions in accordance with the designer's recommendations. In the case of interior insulation of external walls, attics or decks, a vapor barrier film installed towards the warm area is recommended to be used to stop the transmission of moisture.

SAFETY INSTRUCTIONS

Before start using the product, consult the technical safety data sheet and the information printed on the packaging. As personal protection, the use of protective gloves is recommended.

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Prior to installation, please ensure that you have thoroughly read and understood the specifications of your project, that you have tested the product for your specific purpose, and that the selected product will enable the required outcome. The information presented in this document does not constitute a guarantee as to certain properties of the product or compatibility for a specific use, hence Saint-Gobain Group cannot be held responsible for the quality of the installation works.