



ISOVER PROFI FASSADE



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 PROFI FASSADE slabs are suitable for installation in external thermal insulation composite systems (ETICS).

PACKAGING

ISOVER PROFI FASSADE boards are packed in packages wrapped in PE foil, and the packages are packed in pallets.





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Designation code CE (30 mm) : MW - EN13162 - T5 - DS(70,90) - CS(10)30 - TR10 - PL(5)500 - AFr45 - WS - WL(P) - MU1
 Designation code CE (40-250 mm): MW - EN13162 - T5 - DS(70,90) - CS(10)30 - TR10 - PL(5)350 - AFr45 - WS - WL(P) - MU1

TECHNICAL PARAMETERS	U.M.	VALUE
THERMAL INSULATION PROPERTIES		
Declared thermal conductivity - λ_D	W/(m•K)	0.036
MECHANICAL PROPERTIES		
Compressive stress at 10% deformation 10% σ_{10} or CS (10\Y)	kPa	30.0
Perpendicular tensile strength σ_{mt} or TR	kPa	10.0
Point load at a given deformation F_p , PL(5) (thickness 30 mm)	N	500
Point load at a given deformation F_p , PL(5) (thickness between 40 ÷ 250 mm)	N	350
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	≥ 45
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	T5



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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)
PROFI FASSADE	30*	1000 x 600	4.2	22	92.4	0.80
PROFI FASSADE	40*	1000 x 600	4.8	14	67.2	1.10
PROFI FASSADE	50	1000 x 600	3.6	16	57.6	1.35
PROFI FASSADE	60	1000 x 600	3.6	12	43.2	1.65
PROFI FASSADE	80	1000 x 600	3.0	12	36.0	2.20
PROFI FASSADE	100	1000 x 600	2.4	12	28.8	2.75
PROFI FASSADE	120	1000 x 600	1.8	12	21.6	3.30
PROFI FASSADE	140	1000 x 600	1.8	10	18.0	3.85
PROFI FASSADE	150	1000 x 600	1.2	16	19.2	4.15
PROFI FASSADE	160	1000 x 600	1.2	14	16.8	4.40
PROFI FASSADE	180	1000 x 600	1.2	12	14.4	5.00
PROFI FASSADE	200	1000 x 600	1.2	12	14.4	5.55
PROFI FASSADE	220*	1000 x 600	0.6	22	13.2	6.10
PROFI FASSADE	240*	1000 x 600	0.6	20	12.0	6.65
PROFI FASSADE	250*	1000 x 600	0.6	20	12.0	6.90

* Non-standard products that require minimum order quantities. Feasibility, production capacity and estimated delivery times are available upon request.

RECOMMENDATION

The support surface needs to be clean, non-deformable, dry, firm and free of non-stick substances (such as grease, bitumen, dust, etc.).

When installing boards must be dry, clean, free of dust and other impurities.

CERTIFICATES, STANDARDS, APPROVALS

- Certificate of constancy of performance:
1840-CPR-99/91/EC/0114-07
- Certificate of Management System:
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018

INSTALLATION

ISOVER FASSADE insulation boards will be installed in external thermal insulation composite systems (ETICS).

They are first glued to the facade using an adhesive mortar and then mechanically anchored to it. The other layers of the ETICS system are applied over the mineral wool boards. This layers include filler with reinforcing mesh, decorative plaster and possibly paint. The adhesive mortar is recommended to be applied to the entire surface of the board. If it is necessary to adjust the flatness, it is recommended to apply it to the entire contour of the board and in a few points in its center (minimum 2-3 points). In most cases, 6 anchors per square meter are installed, but the exact number and placement of this anchors must be specified by the designer.

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This document contains only general recommendations and does not address special circumstances.

STORAGE, TRANSPORT AND HANDLING

- The boards must be transported, stored and mounted avoiding contact with water or other damage. The boards shall not be stored in direct contact with the soil to avoid absorption of moisture from the soil. The products removed from the pallet, or unpacked, or those not palletized, will be protected and stored in a dry place. The handling of the pallets will be done in such a way as to preserve the integrity of the packaging and avoid damage to the plates.
- Pallets must be stored indoors or in covered areas. In the case of outdoor storage, depending on the external conditions, additional protective measures will be taken so that the products are not wetted or damaged. The area where the pallets will be stored must have very good drainage that allows maintaining a dry surface (without the formation of water accumulations).
- In the case of storage for longer periods, the integrity of the packaging will be periodically checked. The packaging will also be checked in case of extreme phenomena (storms, strong winds, heavy rains, snow, etc.) to ensure that the product is not wet.

SAFETY INSTRUCTIONS

Before starting to use 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.

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.