KNAUF INSULATION

TP 435 B

with ECOSE® TECHNOLOGY

Build on us.

Product description

Mineral Wool with ECOSE Technology, insulation slabs for Ventilated Facade.
The product is non-combustible, water repellent, resistant on aging and chemically neutral. It is laminated in black glass veil whose purpose is protection from mechanical damage, protection from rainwater, insulation cooling protection, shedding protection due to air flow and improving compactness of the slabs.

Applications

TP 435 B

Technical characteristics

Declared coefficient of thermal conductivity λ_D	0.034 W/mK
Reaction to fire	A1 - non-combustible material
Thickness tolerance	T4
Air flow resistance AFr	>10 kPa·s/m^2
Short term water absorption Ws	≤1 kg/m^2
Long term water absorption W_{lp}	≤3 kg/m^2
Declaration of Performance - DoP	www.dopki.com/G4220MPCPR

DESIGNATION CODE: MW - EN 13162 - T4 - WS - WL(P) - AFr10

Benefits

- Excellent thermal insulation properties
- Excellent sound absorption
- Stable and compact material
- Water repellent and vapour permeable
- Increased safety in case of fire
- The material meets health, safety and environmental requirements
- Excellent sustainability credentials
- Ideal for LEED, WELL, BREEAM, DGNB projects

Dimensions and packaging

Thickness (mm)	Width (mm)	Length (mm)	pcs / packaging	m2 / packaging	packages / pallet	m2 / pallet	R Thermal resistance (m2K/W)
50	600	1250	12	9,00	24	216,00	1,45
60	600	1250	10	7,50	24	180,00	1,75
80	600	1250	8	6,00	24	144,00	2,35
100	600	1250	6	4,50	24	108,00	2,90
120	600	1250	4	3,00	24	72,00	3,50
140	600	1250	4	3,00	24	72,00	4,10
160	600	1250	4	3,00	24	72,00	4,70
180	600	1250	3	2,25	24	54,00	5,25
200	600	1250	3	2,25	24	54,00	5,85

Certification, accreditations and industry standards

Application

Mineral Wool with ECOSE Technology Insulation panels, intended for thermal, sound and fire protection of ventilated facades with increased fire protection requirements. On the wall they are placed between the Ventilated facade profiles and mechanically fastened with metal fasteners (5-8 pcs / m2) without gluing needs. They can also be used for various types of "sandwich" facades.

Packaging

The product NaturBoard TP 435 B is delivered in PE heat-shrinking foil. The products must be stored in a dry place, indoors or under roof. In exceptional situations, the packages stored outdoors should be protected by watertight foil. The packages must not be placed directly on the ground.

Quality

NaturBoard TP 435 B is certified to comply with standard EN 13162 as well as with the EUCEB certificate which ensures that the product is biosoluble and not dangerous for health in accordance with European Directive 97\69\EC. Due to ECOSE Technology naturally based binder, it posseses Eurofins Indoor Air Comfort Gold Certificate, regarding indoor Environmental Quality and Low-Emitting Materials. It is also officially certified by the DECLARE label, indicating that it is independently analyzed in forensic detail to ensure it does not contain any harmful or unhealthy chemical ingredients included on the International Living Future Institute's Red List.

Knauf Insulation mineral wool products made with ECOSE Technology® benefit from a no added formaldehyde binder, which is up to 70% less energy intensive than traditional binders and is made from rapidly renewable bio-based materials instead of petroleum-based chemicals. The technology has been developed for Knauf Insulation's mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE Technology® contain no dye or artificial colours.

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