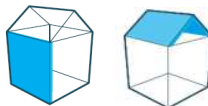


TP 138

April 2020



APPLICATIONS



PRODUCT DESCRIPTION

High thermal performance Insulation boards of Natural Mineral Wool with ECOSE® Technology TP 138 is a semi-rigid, self-supporting natural mineral wool board offering very high thermal performance in external wall and pitched roof applications.

TECHNICAL CHARACTERISTICS

Declared coefficient of thermal conductivity λ_D	0.032 W/mK
Reaction to fire	A1 - non-combustible material
Water vapour diffusion resistance factor μ	~1
Air flow resistance AFR	>5 kPa·s/m ²
Short term water absorption W_p	≤1 kg/m ²
Long term water absorption W_{lp}	≤3 kg/m ²

BENEFITS

Very high thermal performance
Excellent fire resistance - Euroclass A1, non combustible
High sound absorption
Very good mechanical properties
Minimum space requirements
Simple and easy handling

DESIGNATION CODE: MW - EN 13162 - T4 - WS - WL(P) - AF 5

DIMENSIONS AND PACKAGING

Thickness (mm)	Width (mm)	Length (mm)	pcs / packaging	m ² / packaging	packages / pallet	m ² / pallet	R Thermal resistance (m ² K/W)	
40	600	1350	14	11,34	20	226,8	1,25	**
50	600	1350	10	8,10	20	162	1,55	
60	600	1350	8	6,48	20	129,6	1,85	**
85	600	1350	6	4,86	20	97,2	2,65	
100	600	1350	5	4,05	20	81	3,15	**
120	600	1350	4	3,24	16	51,84	3,75	**
140	600	1350	4	3,24	16	51,84	4,40	**
160	600	1350	3	2,43	16	38,88	5,00	**

**Upon request we have the ability to provide equivalent materials under alternative trade names.

CERTIFICATES



challenge.
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TP 138

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ADDITIONAL INFORMATION

Application

The product is intended for thermal and sound insulation, as well as for fire protection of pitched roofs and external walls, including insulation from the inside with plaster board systems and insulation for cement board systems. TP 138 can also be used in various types of sandwich walls and can be easily installed in ventilated façade systems. Its water repellent and flexible nature allows a continuous insulation application and provides maximum insulation performance.

Packaging

The product TP 138 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

TP 138 is certified to comply with standard EN 13162 as well as with the EUCB 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 also possesses Eurofins Indoor Air Comfort Gold Certificate, regarding indoor Environmental Quality and Low-Emitting Materials.



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 glass and rock 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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