



Specification code: MW-EN 13 162-T4-DS(70,-)-MU1 Identification code of the product-type: CZ0001-006 SVT code: 1878

ISOVER Fassil Mineral insulation from stone woo

TECHNICAL SPECIFICATION

Insulating slabs made of ISOVER mineral wool. The production method is based on fibering mineral composition melt and other additives and ingredients. The mineral fibres produced are processed into the final slab shape in the production line. The entire fibre surface is made water repellent. The slabs in the construction should be protected suitably against the weather effects (outer sheathing, alternatively diffusion foil).

APPLICATION

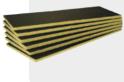
ISOVER Fassil NT slabs are suitable for insulation of outer walls of ventilated facade systems and are to be inserted into the grid under the cladding, or fitted mechanically in the multi-layer masonry. The slabs can be fitted mechanically using clamps for soft MW insulation. Insulating slabs are not glued to the surface. To harden the surface, these slabs are coated with black non-woven fibreglass fabric. It is necessary to protect the coating against an excessive wind impact if used on a ventilated facade. When the material is used to insulate ceilings, it is also necessary to use metal dowel pins with respect to fire security that cannot be positioned at the edge of the slab. The coating is not suitable for additional treatment (painting, gluing, etc.) The material is suitable for fire protection system constructions where the volume density 50 \geq kg·m³ is required. Superior energy saving insulation type $\lambda_p = 0.034 \text{ W·m}^{-1}\text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

ISOVER Fassil NT insulation slabs are packed into the PE foil with package height up to 0.5 m. The slabs have to be transported in covered vehiclesunder conditions preventing their wetting or other degradation. The products are stored indoors or outdoors depending on the conditions specified in the current ISOVER price list.

BENEFITS

- very good thermal insulation performance
- fire-resistant excellent acoustic properties in terms of noise absorption
- low vapour resistance - good water vapour penetrability
- environmentally friendly and hygienic completely hydrophobic
- long life span
- resistant to wood-destroying pests, rodents, and insect
 easy workability can be cut, drilled into, etc.
 dimensional stability during temperature change



DIMENSIONS AND PACKAGING

Thickness	[mm]	50*	60*	80*	100*	120*	140*	160*	200*		
Length × width	[mm]	1200 × 1000	1200 × 600								
Quantity per palette-	[m³]	2.520	3.110	3.110	3.024	3.110	3.024	2.765	2.880		
	[m ²]	50.40	51.84	38.88	30.24	25.92	21.60	17.28	14.40		
Declared thermal resistance R_{D}	[m ² ·K·W ⁻¹]	1.45	1.75	2.35	2.90	3.50	4.10	4.70	5.85		

* It is necessary to consult with the producer for the terms of delivery.

TECHNICAL PARAMETERS

Parameter		Unit Methodology		Designation code		
Geometric shape						
Length /	[%, mm]	EN 822	±2 %			
Width b	[%, mm]	EN 822	±1.5 %			
Thickness d	[%, mm]	EN 823	-3 % or -3 mm $^{1)}$ and +5 % or 5 mm $^{2)}$	Class of thickness tolerances	T4	
Deviation from squareness of the edge on length and width S_b	[mm·m ⁻¹]	EN 824	5			
Deviation from flatness S _{max}	[mm]	EN 825	6			
Relative change in length $\Delta \varepsilon_{ii}$, in width $\Delta \varepsilon_{bi}$, in thickness $\Delta \varepsilon_{di}$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS(70,-)	
Thermal technical properties						
Declared value of the thermal conductivity coefficient λ_{D}^{33}	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1	0.034			
		Measurement according to EN 12667				
Design thermal conductivity $\lambda_u^{(4)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	0.036			
Specific heat capacity c _d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	800			
Fire safety properties						
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1			
Maximum temperature for use	[°C]		200			
Melting temperature t_t	[°C]	DIN 4102 part 17	≥ 1000			
Hydrothermal properties						
Water vapour diffusion resistance factor μ	[-]	EN 13162+A1	1	Declared value for water vapour diffusion resistance factor	MU1	
Other properties						
Density	[kg·m ⁻³]	EN 1602	50			

¹⁾ Whichever gives the greatest numerical tolerance

²⁾ Whichever gives the smallest numerical tolerance.

3) Declared values were set under the following conditions (reference temperature 10 °C, humidity u_{dy}, which is reached by drying) according EN ISO 10456.

4) It is valid for typical use in construction with risk of condensation. In the case of construction without any risk of condensation it is possible to use the declared value of thermal conductivity

RELATED DOCUMENTS

Declaration of Performance CZ0001-006

Environmental Product Declaration ISO 9001, ISO 14001, ISO 45001, ISO 50001







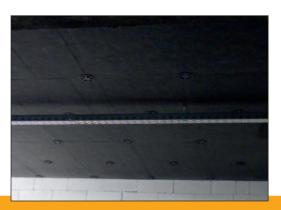
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TECHNICAL PARAMETERS

Parameter	Unit		Methodology		Value		Desigr	ation code		
Acoustic properties ⁵⁾										
	[-]	Mea	EN 13162+A1 EN ISO 11654 Measurement according to EN ISO 354			el of practica	al sound absorption coefficient		AP	
The practical sound absorption coefficient a	Frequency		125 Hz 250		z l	500 Hz	1000 Hz	2000 Hz	4000 Hz	
p	Thickness	60 mm	0.20	0.75		1.00	1.00	1.00	1.00	
		80 mm	0.35	1.00		1.00	1.00	1.00	1.00	
		100 mm	0.45	1.00		1.00	1.00	1.00	1.00	
		120 mm	0.60	1.00		1.00	1.00	1.00	1.00	
	[-]	(for NF	EN ISO 11654 RC according ASTM C423) Level of weigh			l of weighte	ed sound absorption coefficient A			
Weighted sound absorption coefficient a _w	Single number value		a _w				NRC			
Noise Reduction Coefficient NRC		60 mm	1.00				0.95			
Noise Reduction Coefficient NRC	Thickness	80 mm	1.00			1.00				
		100 mm	1.00			1.05				
		120 mm	1.00				1.05			
Specific air flow resistivity r		Maa	EN 13162+A1 Measurement according to			Level of air flow resistivity AFr 14.5				
Specific all now resistivity r	[kPa·s·m ⁻²]	Med	EN ISO 9053-1							
Environmental properties / impacts										
Non-hazardous waste disposed6)	[kg /FU ⁷⁾]		EN 15804+A1, ČSN ISO 14025		1.6	NHWD				
Total use of non-renewable primary energy resources	[MJ /FU]		EN 15804+A1, ČSN ISO 14025		78.9	PENRT				
Global Warming Potential	[kg CO ₂ ekv. /FU	ני	EN 15804+A1, ČSN ISO 14025		8.32	GWP				
Ozone Depletion	[kg CFC 11 ekv. /F	U]	EN 15804+A1, ČSN ISO 14025		4.41 E-07	ODP				
Acidification potential	[kg SO ₂ ekv. /FU	ני	EN 15804+A1, ČSN ISO 14025		0.0599	АР				
Eutrophication potential	[kg PO ₄ ³⁻ ekv. /FU	1	EN 15804+A1, ČSN ISO 14025		0.00554	EP				
otochemical ozone creation [kg C ₂ H ₄ ekv. /FU]		ני	EN 15804+A1, ČSN ISO 14025		0.00832	POPC				
iotic depletion potential for non-fossil resources [kg Sb ekv. /FU]			EN 15804+A1, ČSN ISO 14025		4.0 E-07	ADP-elements				
iotic depletion potential for fossil resources [MJ (Calorific value) /		/FU]	EN 15804+A1, ČSN ISO 14025		74.5	ADP-fossil fuels				

⁵⁾ Informative non-declared value beyond scope of CPR. obtained by concrete tests.
 ⁶⁾ In this case it is standard mixed waste.
 ⁷⁾ FU = functional unit (1 m² of insulation by 100 mm thick for live cycle phases A1-A3).



Example of product application ISOVER Fassil NT

30. 4. 2020 The information is valid up to date of publishing. The manufacturer reserves right to change the data.

