SVT code: 7089
Product identification code: CZ0001-043
Specification code: MW-EN 13 162-T4-MU1

Isover Topsil

Stone wool insulation

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. The production method is based on drawing the mineral composition melt with other additives and ingredients. The mineral fibres produced are processed into the final slab shape on the production line. The entire fibre surface is water repellent. The slabs in the construction should be protected in a suitable manner (outer sheathing, alternatively diffusion foil).

APPLICATION

Isover Topsil slabs provide for versatile application on all types of ventilated façades, wooden buildings, walls and pitched roofs and ceilings. The material is suitable for fire protection system structures where the volume density $60 \geq$ kg·m^{-3} is required.
Superior thermal insulation material with λ$_D$ = 0.033 W·m^{-1}·K^{-1}.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Topsil insulation slabs are packed in PE film with the maximum package height of 0.5 m. The slabs have to be transported in covered vehicles under conditions preventing their wetting or other degradation. They can also be delivered on pallets 1 200 × 2 400 mm. 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 resistance.
- 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 insects.
- Easy workability – can be cut, drilled into, etc.
- Dimensional stability during temperature change.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per pallet [m²]	Declared thermal resistance R$_D$ [m²·K·W^{-1}]
		[pcs]	[m²]	[m³]		
40	1 200 × 600	12	8.64	0.35	198.72	1.20
50	1 200 × 600	10	7.20	0.36	165.60	1.50
60	1 200 × 600	8	5.76	0.35	132.48	1.80
80	1 200 × 600	6	4.32	0.35	99.36	2.40
100	1 200 × 600	5	3.60	0.36	82.80	3.00
120	1 200 × 600	4	2.88	0.35	66.24	3.60
140	1 200 × 600	3	2.16	0.30	56.16	4.20
160*	1 200 × 600	3	2.16	0.35	49.68	4.80
180*	1 200 × 600	x	x	x	16.80	5.45

* Non-standard product, delivery terms on request.

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Geometric shape					
Length *l*	[%, mm]	EN 822	±2%		
Width *b*	[%, mm]	EN 822	±1,5%		
Thickness *d*	[%, mm]	EN 823	-3% or -3 mm$^{1)}$ and +5 mm 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 Δε$_l$, in width Δε$_b$, in thickness Δε$_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS (23/90)

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TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code				
Thermal technical properties								
Declared value of thermal conductivity coefficient λ_D[3]	[W·m^{-1}·K^{-1}]	Declaration according to EN 13162+A1	0.033					
		Measurement according to EN 12667						
Design thermal conductivity λ_u[4]	[W·m^{-1}·K^{-1}]	ČSN 73 0540-3	0.035					
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	[-]	Declaration according to EN 13162+A1	1	Declared value for water vapour diffusion resistance factor				MU1
Other properties								
Density	[kg·m^{-3}]	EN 1602	60					
Acoustic properties[5]								

Parameter	Unit	Methodology		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	Designation code
Practical sound absorption coefficient a_p	[-]	EN 13162+A1		Level of practical sound absorption coefficient						AP
		EN ISO 11654								
		Declaration according to EN ISO 354								
	Frequency			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
	Thickness	40 mm		0.16	0.47	0.86	1.00	1.00	1.00	
		60 mm		0.27	0.92	1.00	1.00	1.00	1.00	
		80 mm		0.50	1.00	0.96	1.00	1.00	1.00	
		100 mm		0.50	1.00	0.98	1.00	1.00	1.00	

Parameter	Unit	Methodology	Value	Designation code
Weighted sound absorption coefficient a_w	[-]	EN ISO 11654 (for NRC according ASTM C423)	Level of weighted sound absorption coefficient	AW
	Single number value		α_w	
	Thickness	40 mm	0.75 (MH)	
		60 mm	1.00	
		80 mm	1.00	
		100 mm	1.00	
Specific air flow resistivity r		EN 13162+A1	Level of air flow resistivity	AFr
	[mm]	Measurement according to EN ISO 9053-1	60	
	[kPa·s·m^{-2}]		22.1	

[1] Value with greatest numerical tolerance.
[2] Value with lowest numerical tolerance.
[3] Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.
[4] 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.
[5] Informative non-declared value beyond the scope of CPR, obtained by specific tests.

RELATED DOCUMENTS

- Declaration of Performance
- Environmental Product Declaration (EPD)
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

More about the product

www.isover.cz/en/products/mineralni-vlna/isover-topsil

2/1/2025   The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.