SVT code: 7753
Product identification code: CZ0001-008
Specification code: MW-EN 13 162-T4-MU1

Isover Maxil

Stone wool insulation

TECHNICAL SPECIFICATION

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

APPLICATION

Isover Maxil slabs are suitable for insulation of the outer walls of ventilated facade systems and are to be inserted into the grid under the cladding, or mechanically bonded into the multi-layer masonry. The slabs can be mechanically bond using the clamps for soft MW insulations. Insulating slabs are not glued to the surface. The material is suitable for fire protection system constructions where the density ≥ 75 kg·m^{-3} is required.
Superior thermal insulation material with λ_D = 0.034 W·m^{-1}·K^{-1}.

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.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Maxil insulation slabs are packed into the PE foil with package height up to 0.5 m. The slabs have to be transported in covered vehicles under 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.

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]		
30*	1 200 × 600	14	10.08	0.32	120.96	0.85
40*	1 200 × 600	10	7.20	0.29	86.40	1.15
50*	1 200 × 600	8	5.76	0.29	69.12	1.45
60*	1 200 × 600	7	5.04	0.30	60.48	1.75
80*	1 200 × 600	5	3.60	0.29	43.20	2.35
100*	1 200 × 600	4	2.88	0.29	34.56	2.90

* Consult the producer for terms of delivery.

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 $\Delta\varepsilon_l$, in width $\Delta\varepsilon_b$, in thickness $\Delta\varepsilon_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS (23,90)

Isover
Saint-Gobain Construction Products CZ a.s.
Smrčkova 2485/4, 180 00 Prague 8 – Libeň, Czech Republic
podpora@saint-gobain.com • www.isover.cz

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TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
Thermal technical properties				
Declared value of thermal conductivity coefficient λ_D [2]	[W·m^{-1}·K^{-1}]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.034	
Design thermal conductivity λ_u [3]	[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	75	

Acoustic properties [5]

Practical sound absorption coefficient α_p	[-]	EN 13162+A1 EN ISO 11654 Measurement according to EN ISO 354	Level of practical sound absorption coefficient: AP				
	Frequency		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
	Thickness	40 mm	0.10	0.45	0.95	1.00	1.00	1.00
		60 mm	0.20	0.80	1.00	1.00	1.00	1.00
		80 mm	0.40	1.00	1.00	1.00	1.00	1.00
		100 mm	0.50	1.00	1.00	1.00	1.00	1.00
Weighted sound absorption coefficient α_w Noise reduction coefficient NRC	[-]	EN ISO 11654 (for NRC according ASTM C423)	Level of weighted sound absorption coefficient: AW				
	Single number value		α_w		NCR		
	Thickness	40 mm	0.75 (MH)		0.85		
		60 mm	1.00		0.95		
		80 mm	1.00		1.00		
		100 mm	1.00		1.05		
Specific air flow resistivity r	Measurement according to EN ISO 9053-1		Level of air flow resistivity: AFr [kPa·s·m^{-2}]				
	Thickness	100 mm	32.9				

[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
- Certificate of constancy of performance
- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

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

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