



Isover MAXIL N

Mineral insulation from stone woo

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 NT 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. To harden the surface it is possible to manufacture these slabs coated with black or white mineral non-wooven fabric. This possible modification is called MAXIL NT. The coating is not adapted to additional adjustments (painting, gluing, etc.). The material is suitable for fire protection system constructions where the density 75 ≥ ka·m⁻³ is required.

Especially the energy saving insulation type $\lambda_p = 0.034 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

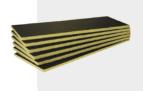
Isover MAXIL NT insulation slabs are packed into the PE foil with package height up to 0.5 m. The slabs have to be transported in covered vehicles under conditions preventing their wetting or other degradation. The products are stored indoors or outdoors depending on the conditions specified in the current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

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]	30*	40*	50*	60*	80*	100*			
Length × width	[mm]	1200 × 600								
Volume per – package –	[ks]	15	10	8	7	5	4			
		10.80	7.20	5.76	5.04	3.60	2.88			
	[m³]	0.32	0.29	0.29	0.30	0.29	0.29			
Quantity per palette	[m²]	120.96	86.40	69.12	60.48	43.20	34.56			
Declared thermal resistance R _D	[m²·K·W ⁻¹]	0.85	1.15	1.45	1.75	2.35	2.95			

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

TECHNICAL PARAMETERS

Parameter	Unit	Mathadalami	Value	Designation and	
	Unit	Methodology	value	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 $\Delta \varepsilon_{l}$, 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)
Thermal technical properties					
Declared value of the thermal conductivity coefficient $\lambda_0^{(5)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.034		
Design thermal conductivity $\lambda_u^{(4)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	0.036		
Specific heat capacity c _a	[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		

- Whichever gives the greatest numerical tolerance.
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- 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 CZ0001-008
- Environmental Product Declaration ISO 9001, ISO 14001, OHSAS 18001, ISO 50001







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TECHNICAL PARAMETERS

Parameter	Unit		Methodology		Value	Design			
Acoustic properties ⁵⁾									
	[-]		Declaration according to EN 13162+A1 Declaration according to			AP			
The practical sound absorption coefficient a_{α}			EN ISO 11654 asurement accord EN ISO 354		Declared level of practical sound absorption coefficient				
The practical sound absorption coefficient ap	Frequency	· ·	125 Hz	250 ⊢	Iz 500 Hz	1000 Hz	2000 Hz	4000 Hz	
		40 mm	0.10	0.45	0.95	1.00	1.00	1.00	
	Thickness	60 mm	0.20	0.80	1.00	1.00	1.00	1.00	
	Inickness	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	
	[-]		Declaration according to EN ISO 11654 or NRC according ASTM C423)		Declared level of weighted sound absorption coefficient AW			t AW	
Weighted sound absorption coefficient a_w	Single number value	e	Q_{w}		NRC				
Noise Reduction Coefficient NRC		40 mm	0.75 (M		MH)		0.85	0.85	
	Thickness	60 mm	1.00			0.95			
	THICKHESS	80 mm	1.00			1.00			
		100 mm	1.00			1.05			
Specific air flour reciptivity r		De	eclaration according to EN 13162+A1		Level of air flow resistivity			AFr	
Specific air flow resistivity r	[mm] [kPa·s·m-2]	Mei	Measurement according to EN 29053		60 32.9				

⁵⁾ Informative non-declared value beyond scope of CPR, obtained by concrete tests.



Example of product application Isover MAXIL NT

