

Isover Multimax 30

Mineral fibreglass insulation



TECHNICAL SPECIFICATION

Insulating slabs made of Isover fibreglass wool. The production method is based on the fibering of glass melt and other 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 cassette sheathing, diffusion and vapour-proof foil).



APPLICATION

A glass mineral wool slabs, Isover Multimax 30 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. 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.

Especially the energy saving insulation type, $\lambda_p = 0,030 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

A glass mineral wool slabs, Isover Multimax 30, 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 x width [mm]	Volume per package			Quantity per pallet [m ²]	Declared thermal resistance R _D [m ² ·K·W ⁻¹]
		[pcs]	[m ²]	[m ³]		
30	1200 x 600	18	12.96	0.39	155.52	1.00
50	1200 x 600	11	7.92	0.40	95.04	1.65
100	1200 x 600	5	3.60	0.36	43.20	3.30
150	1200 x 600	4	2.88	0.43	34.56	5.00

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
Geometric shape				
Length <i>l</i>	[% , mm]	EN 822	±2 %	
Width <i>b</i>	[% , mm]	EN 822	±1,5 %	
Thickness <i>d</i>	[% , mm]	EN 823	-1 % or -1 mm ⁹ and +3 mm	Class of thickness tolerances T5
Deviation from squareness of the edge on length and width <i>S_e</i>	[mm·m ⁻¹]	EN 824	5	
Deviation from flatness <i>S_{max}</i>	[mm]	EN 825	6	
Relative change in length $\Delta\epsilon_l$, in width $\Delta\epsilon_b$, in thickness $\Delta\epsilon_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions DS(23,90)

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Parameter	Unit	Methodology	Value	Designation code				
Thermal technical properties								
Declared value of thermal conductivity coefficient $\lambda_p^{2)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.030					
Design thermal conductivity $\lambda_d^{3)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	0.034					
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	840					
Fire safety properties								
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1					
Maximum temperature for use	[°C]		200					
Melting temperature t_f	[°C]	DIN 4102 part 17	< 1000					
Hydrothermal properties								
Short-term water absorption W_p	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 1609	1	Declared level for short-term water absorption WS				
Long-term water absorption by partial immersion W_{fp}	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 12087	3	Declared level for long-term water absorption by partial immersion WL(P)				
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	40					
Acoustic properties⁴⁾								
Practical sound absorption coefficient α_p	[-]	Declaration according to EN 13162+A1 Declaration according to 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
		30 mm	0.05	0.40	0.85	0.90	0.95	1.00
		50 mm	0.25	0.90	1.00	0.95	0.95	1.00
100 mm	1.00	0.95	0.95	1.00	0.95	0.95	0.90	
Weighted sound absorption coefficient α_w	[-]	EN ISO 11654 (for NRC according ASTM C423)	Level of weighted sound absorption coefficient				AW	
		Single number value	α_w	α_{str}	NCR			
		30 mm	0.70 (H)	0.69	0.80			
		50 mm	1.00	0.86	0.95			
100 mm	1.00	1.00	0.95					
Sound Absorption Average α_{str}								
Noise reduction coefficient NRC								
Specific air flow resistivity r	[kPa·s·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN ISO 9053-1	Level of air flow resistivity			AFr		
Environmental properties/impacts								
Non-hazardous waste disposed ⁵⁾	[kg /FU ⁶⁾]	EN 15804+A1, ČSN ISO 14025	1.61	NHWD				
Total use of non-renewable primary energy resources	[MJ /FU]	EN 15804+A1, ČSN ISO 14025	135	PENRT				
Global warming potential	[kg CO ₂ ekv. /FU]	EN 15804+A1, ČSN ISO 14025	8.16	GWP				
Ozone depletion	[kg CFC 11 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	2.40 E-07	ODP				
Acidification potential	[kg SO ₂ ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0799	AP				
Eutrophication potential	[kg PO ₄ ³⁻ ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00723	EP				
Photochemical ozone creation	[kg C ₂ H ₄ ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0214	POPC				
Abiotic depletion potential for non-fossil resources	[kg Sb ekv. /FU]	EN 15804+A1, ČSN ISO 14025	5.44 E-06	ADP-elements				
Abiotic depletion potential for fossil resources	[MJ (Calorific value) /FU]	EN 15804+A1, ČSN ISO 14025	161	ADP-fossil fuels				

¹⁾ Value with greatest numerical tolerance.

²⁾ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.

³⁾ 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.

⁴⁾ Informative non-declared value beyond the scope of CPR, obtained by specific tests.

⁵⁾ In this case it is standard mixed waste.

⁶⁾ FU = functional unit (1 m² of insulation at a thickness of 100 mm for life cycle phases A1-A3).

RELATED DOCUMENTS

- Declaration of Performance
- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001

More about the product

www.isover.cz/en/products/isover-multimax-30



10/1/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.