SVT code: 7785
Product identification code: Akustic-Innenwand Version-004
Specification code: MW-EN 13 162-T3-MU1-AFr11

Isover Akustic SSP2

Mineral fibreglass insulation

TECHNICAL SPECIFICATION

Insulation slabs made of Isover fibreglass wool. The production is based on defibration of melt of glass and other additives and ingredients. Produced mineral fibres are then shaped into slabs on the production line. Fibres are made water-repellent on their entire surface. Slabs in construction have to be protected suitably (covered with perforated material, other layers of construction).

APPLICATION

Isover Akustic SSP2 slabs are suitable for any thermal, acoustic, no-load insulation. Black glass non-woven fabric is attached to one side. The slabs are used especially as absorbing insertion in lining elements for acoustic walls, ceilings, false ceilings, and thermal and acoustic insulation of air-conditioning devices. They are suitable for airflow not exceeding 30 m/s. Fibers are made water-repellent on their entire surface.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Akustic SSP2 slabs are packaged into PE foil. Slabs have to be transported in covered vehicles under conditions preventing them from getting wet or being degraded. 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]		
20	1 000 × 600	24	18.00	0.36	288	0.55
30	1 000 × 600	16	12.00	0.36	192	0.85
40	1 000 × 600	12	9.00	0.36	144	1.15
50	1 000 × 600	10	7.50	0.38	120	1.45

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 +10 mm or +10 mm[2)]	Class of thickness tolerances	T3
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)

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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 Measurement according to EN 12667	0.034		
Design thermal conductivity λ_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	840		
Fire safety properties					
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1		
Maximum temperature for use	[°C]		150		
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	25		
Acoustic properties [5]					

Parameter								
Practical sound absorption coefficient α_p	[-]	EN 13162+A1 EN ISO 11654 Declaration 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	20 mm	0.05	0.20	0.50	0.75	0.90	0.95
		30 mm	0.10	0.30	0.70	1.00	1.00	1.00
		40 mm	0.20	0.45	0.85	1.00	1.00	1.00
		50 mm	0.25	0.60	1.00	1.00	1.00	1.00
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					
	Thickness	20 mm	0.50					
		30 mm	0.60					
		40 mm	0.75					
		50 mm	0.90					
Specific air flow resistivity r	[kPa·s·m^{-2}]	Declaration according to EN 13162+A1	Level of air flow resistivity					AFr
		Measurement according to EN ISO 9053-1	11					

[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
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

More about the product

www.isover.cz/en/products/isover-akustic-ssp2

01/08/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

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