

# Isover AKUSTIC SSP 2

## 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 SSP 2 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. Fibres are made water-repellent on their entire surface.

### PACKAGING, TRANSPORT, WAREHOUSING

Isover AKUSTIC SSP 2 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

- fire-resistant
- very good thermal insulation performance
- 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]	20	30	40	50
Length x width	[mm]	1250 x 600			
	[ks]	24	16	12	10
Volume per package	[m <sup>2</sup> ]	18.00	12.00	9.00	7.50
	[m <sup>3</sup> ]	0.36	0.36	0.36	0.38
Quantity per palette	[m <sup>2</sup> ]	288	192	144	120
Declared thermal resistance R <sub>b</sub>	[m <sup>2</sup> ·K·W <sup>-1</sup> ]	0.50	0.80	1.05	1.35

\* It is necessary to consult with the producer for the terms of delivery.

### 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	-3 % or -3 mm <sup>1)</sup> and +5 % or 5 mm <sup>2)</sup>	Class of thickness tolerances T4
Deviation from squareness of the edge on length and width S <sub>b</sub>	[mm·m <sup>-1</sup> ]	EN 824	5	
Deviation from flatness S <sub>max</sub>	[mm]	EN 825	6	
Relative change in length Δε <sub>l</sub> in width Δε <sub>b</sub> in thickness Δε <sub>d</sub>	[%]	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 λ <sub>b</sub> <sup>3)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	Declaration according to EN 13162+A1	0.037	
		Measurement according to EN 12667		
Design thermal conductivity λ <sub>d</sub> <sup>4)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	0.039	
Specific heat capacity c <sub>d</sub>	[J·kg <sup>-1</sup> ·K <sup>-1</sup> ]	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 <sub>f</sub>	[°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 <sup>-3</sup> ]	EN 1602	25	

<sup>1)</sup> Whichever gives the greatest numerical tolerance.

<sup>2)</sup> Whichever gives the smallest numerical tolerance.

<sup>3)</sup> Declared values were set under the following conditions (reference temperature 10 °C, humidity u<sub>dry</sub>, which is reached by drying) according EN ISO 10456.

<sup>4)</sup> 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 DE0001-Akustic Innenwand 002
- ISO 9001, ISO 14001, OHSAS 18001, ISO 50001

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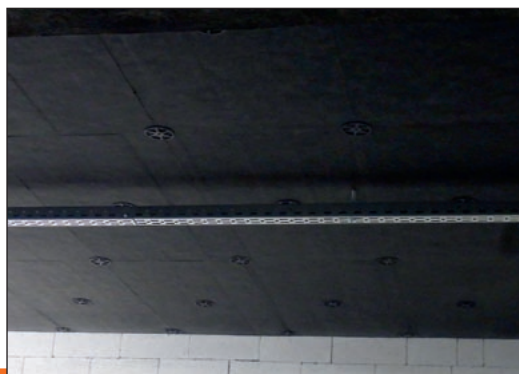
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### TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code				
Acoustic properties <sup>9)</sup>								
The practical sound absorption coefficient $\alpha_p$	[-]	Declaration according to EN 13162+A1	Declared level of practical sound absorption coefficient	AP				
		Declaration according to EN ISO 11654						
		Measurement according to EN ISO 354						
	Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	
	Application directly on the wall	Thickness	20 mm	0.05	0.20	0.50	0.75	0.90
		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
Specific air flow resistivity $r$		Declaration according to EN 13162+A1	Level of air flow resistivity			AFr		
	[kPa·s·m <sup>-2</sup> ]	Measurement according to EN 29053	11					

<sup>9)</sup> Informative non-declared value beyond scope of CPR, obtained by concrete tests.



Example of product application Isover AKUSTIC SSP 2