





Isover Woodsil

Stone wool insulation

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. The production is based on the defibring method of the mineral 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 (outer cassette sheathing, diffusion and vapour-proof foil).



APPLICATION

Isover Woodsil slabs are suitable for insulation of the outer or inner walls of wood houses and prefabricated construction.

Superior thermal insulation material with $\lambda_D = 0.035 \text{ W} \cdot \text{m}^{-1} \cdot \text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Woodsil 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 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	Declared thermal resistance R _D [m²·K·W¹]	
		[pcs]	[m²]	[m³]	[m²]		
60	1 200 × 580	8	5.57	0.33	128.06	1.70	
80	1 200 × 580	6	4.18	0.33	96.05	2.25	
100	1 200 × 580	5	3.48	0.35	80.04	2.85	
120	1 200 × 580	4	2.78	0.33	64.03	3.40	
140	1 200 × 580	3	2.09	0.29	54.29	4.00	
160	1 200 × 580	3	2.09	0.33	48.02	4.55	
180	1 200 × 580	2	1.39	0.25	40.37	5.10	

TECHNICAL PARAMETERS

Parameter Unit		Methodology	Value	Designation code	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 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	1604 1 Dimensional stability temperature and h		DS(70,-)	
Thermal technical properties						
Declared value of thermal conductivity coefficient $\lambda_{\mathcal{D}}^{3)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.035			
Design thermal conductivity $\lambda_u^{(4)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	0.038			
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	800			



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Parameter	Unit	Methodology			١	Value	Designation code			
Fire safety properties										
Reaction to fire class	[-]	Declaration according to EN)1-1+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	[-]	[-] Declaration ac		ccording to EN 13162+A1		1	Declared value for war resistance			MU1
Other properties										
Density	[kg·m ⁻³]		EN 1602			37				
Acoustic properties ⁵⁾										
		EN 13162+A1								
	[-]	EN ISO 11654				Level of practical sound absorption coefficient				AP
		Measurement according to EN ISO 354								
Practical sound absorption coefficient $a_{_{p}}$	ricient a Frequency		125 Hz	250	0 Hz 500		lz 1	000 Hz	2000 Hz	4000 Hz
		60 mm	0.20	0.	60	0.95		1.00	1.00	1.00
	Thickness	80 mm	0.30	0	.85	1.00		1.00	1.00	1.00
		100 mm	0.45	0	.95	1.00		1.00	1.00	1.00
Weighted sound absorption coefficient a	[-]	EN ISO 11654 (for NRC according ASTM C423)				Level of w	vel of weighted sound absorption coefficient			
· w	Single numb	oer value α _w			$\mathfrak{a}_{st\check{r}}$			NCR		
Sound Absorption Average $a_{_{ m str}}$		60 mm 0.90			1.00		0.92			
Noise reduction coefficient NRC	Thickness	80 mm	nm 1.00			1.08		1.02		
		100 mm	mm 1.00			1.08		1.03		
		EN 13162+A1			Level of air fl ow resistivity					AFr
Specific air flow resistivity r	[kPa·s·m ⁻²]	Measurement according to EN ISO 9053-1			≥ 5					

RELATED DOCUMENTS

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

More about the product

www. is over. cz/en/products/mineralni-vlna/is over-woods il



1/8/2025 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

Value with greatest numerical tolerance.
 Value with lowest numerical tolerance.
 Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dy} reached by drying) according to EN ISO 10456.
 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.