

SVT code: 246 Product identification code: CZ0001-004 Specification code: MW-EN 13 162-T2-MU1

Isover Orsik

Stone wool insulation

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, increased relative inner humidity and condensate (diffusion and vapour-proof foil).

APPLICATION

Isover Orsik slabs are suitable for unloaded thermal, acoustic and fire insulation of pitch roofs especially with insertion between rafters and additional frame as well, into partition walls, wood ceilings insulations, false ceilings, and cavities.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Orsik 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.

DIMENSIONS AND PACKAGING

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.

Thickness	Length × width		Volume per package	Quantity per pallet	Declared thermal resistance		
[mm]	[mm]	[pcs]	[m²]	[m³]	[m²]	R _D [m ² ·K·W ⁻¹]	
40	1200 × 625	12	9.00	0.36	207.00	1.05	
50	1 200 × 625	10	7.50	0.38	165.00	1.35	
60	1 200 × 625	8	6.00	0.36	138.00	1.60	
70	1 200 × 625	6	4.50	0.32	117.00	1.85	
80	1 200 × 625	6	4.50	0.36	103.50	2.15	
90	1 200 × 625	4	3.00	0.27	87.00	2.40	
100	1200 × 600	5	3.60	0.36	82.80	2.70	
120	1200 × 600	4	2.88	0.35	66.24	3.20	
140	1200 × 600	4	2.88	0.40	57.60	3.75	
160	1 200 × 600	3	2.16	0.35	49.68	4.30	
180	1 200 × 600	3	2.16	0.39	43.20	4.85	
200	1200 × 600	2	1.44	0.29	37.44	5.40	

TECHNICAL PARAMETERS

Parameter	Unit	Unit Methodology		Designation code	
Geometric shape					
Length /	[%, mm]	EN 822	±2 %		
Width b	[%, mm]	EN 822	±1,5 %		
Thickness d	[%, mm]	EN 823	-5 % or -5 mm ¹⁾ and +15 % or +15 mm ²⁾	Class of thickness tolerances T	2
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		



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TECHNICAL PARAMETERS

Parameter	Unit	nit Methodology			Va	alue	Designation code				
Thermal technical properties											
Declared value of thermal conductivity coefficient $\lambda_{D}^{3)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667			0.	037					
Design thermal conductivity $\lambda_u^{(4)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			0.	039					
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			8	00					
Fire safety properties											
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1)1-1+A1		A1					
Maximum temperature for use	[°C]				2	00					
Melting temperature t_t	[°C]	DIN 4102 part 17			≥ 1	000					
Hydrothermal properties											
Water vapour diffusion resistance factor $\boldsymbol{\mu}$	[-]	Declaration according to EN 13162+A1				1 Declared value for ware resistance				ⁿ MU1	
Other properties											
Density	[kg·m-3]	EN 1602		;	30						
Acoustic properties ⁵⁾											
	[-]	EN 13162+A1 EN ISO 11654 Measurement according to EN ISO 354				Level of practical sound absorption coefficient					
	Frequency	r loadar di lione a	125 Hz) Hz	500 H	z 1000	Hz	2000 Hz	4000 Hz	
Practical sound absorption coefficient a_p		40 mm	0.15	0.	40	0.80	0.9	0	0.95	0.95	
	Thickness	60 mm	0.20	0.	65	1.00	1.00	C	0.95	1.00	
		80 mm	0.30	0.	90	1.00	1.00	C	1.00	1.00	
		100 mm	0.45	1.0	00	1.00	1.00	C	1.00	1.00	
	[-]	EN ISO 11654 (for NRC according ASTM C423)		23)		Level of we	evel of weighted sound absorption coefficient			AW	
Weighted sound absorption coefficient a_w	Single numb	per value	a _w			a _{stř}			NCR		
Sound Absorption Average <i>a</i> _{str}		40 mm 0.70 (H)			0.75			0.75			
Noise reduction coefficient NRC	Thickness	60 mm 0.95					0.90 0.9				
	There is a	80 mm 1.00			0.99			1.00			
		100 mm 1.00		0	1.04			1.05			
		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							

) Value with greatest numerical tolerance.

²⁾ Value with lowest numerical tolerance.

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

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Certificate of constancy of performance

Environmental Product Declaration

ISO 9001, ISO 14001, ISO 45001, ISO 50001

More about the product



www.isover.cz/en/products/isover-orsik

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