

SVT code: 429 Product identification code: CZ0001-006 Specification code: MW-EN 13 162-T4-DS(70,-)-MU1

Isover Fassil

Stone wool insulation



TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. Production is based on drawing the mineral melt with 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 sheathing, alternatively diffusion foil).

APPLICATION

Isover Fassil slabs 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 to the multi-layer masonry. The slabs can be mechanically bonden using clamps for soft MW insulations. Insulating slabs are not glued to the surface. To harden the surface it is possible to manufacture these slabs coated with black or white mineral non-wooven fabric. This possible modification is called Isover Fassil NT. The coating is not adapted to additional adjustments (painting, gluing, etc.). The material is suitable for fire protection system constructions where a density of \geq 50 kg·m⁻³ is required. **Especially the energy saving insulation type** $\lambda_{\rm p}$ = 0.034 W·m⁻¹-K⁻¹.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Fassil insulation slabs are packed into the PE film 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	Thickness Length × width		Volume per package	2	Quantity per pallet	Declared thermal resistance		
[mm]	[mm] [mm]	[pcs]	[m²]	[m³]	[m²]	R _D [m ² ·K·W ⁻¹]		
30*	1200 × 600 (625*)	16	11.52	0.35	264.96	0.85		
40*	1200 × 600 (625*)	12	8.64	0.35	198.72	1.15		
50	1200 × 600 (625*)	10	7.20	0.36	165.60	1.45		
60	1200 × 600 (625*)	8	5.76	0.35	132.48	1.75		
80	1200 × 600 (625*)	6	4.32	0.35	99.36	2.35		
100	1200 × 600 (625*)	5	3.60	0.36	82.80	2.90		
120	1200 × 600 (625*)	4	2.88	0.35	66.24	3.50		
140	1200 × 600 (625*)	3	2.16	0.30	56.16	4.10		
160	1200 × 600 (625*)	3	2.16	0.35	49.68	4.70		
180*	1200 × 600 (625*)	2	1.44	0.26	41.76	5.25		
200*	1200 × 600 (625*)	2	1.44	0.29	37.44	5.85		

* Consult the producer for terms of delivery.



TECHNICAL PARAMETERS

Parameter	Unit	Methodology				Value	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]	E	N 825		6						
Relative change in length $\Delta \varepsilon_{i}$, in width $\Delta \varepsilon_{b}$, in thickness $\Delta \varepsilon_{d}$	[%]	EN 1604			1 Dimensional stability under the spo temperature and humidity condition				DS(70,-)		
Thermal technical properties											
Declared value of thermal conductivity coefficient $\lambda_0^{(3)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667			0.034						
Design thermal conductivity $\lambda_{\mu}^{(4)}$	[W·m ⁻¹ ·K ⁻¹]		73 0540-3			0.036					
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			800						
Fire safety properties											
Reaction to fire class	[-]	Declaration acco	rding to EN 13501	-1+A1		A1					
Maximum temperature for use	[°C]				200						
Melting temperature t_t	[°C]	DIN 4	102 part 17			≥ 1000					
Hydrothermal properties	2 3										
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1			1 Declared value for water vapour diffusion resistance factor			ion	MU1		
Other properties											
Density	[kg·m ⁻³]	EN 1602			50						
Acoustic properties ⁵⁾											
Practical sound absorption coefficient a_p	[-]	EN 13162+A1 EN ISO 11654		Level of practical sound absorption coefficient				AP			
		Declaration according to EN ISO 354									
	Frequency		125 Hz	2	50 Hz	500 Hz	1000 Hz	2000 Hz	400	00 Hz	
	Thickness	60 mm	0.20		0.75	1.00	1.00	1.00	1.	.00	
		80 mm	0.35		1.00	1.00	1.00	1.00	1.	.00	
		100 mm	0.45		1.00	1.00	1.00	1.00		.00	
		120 mm	0.60		1.00	1.00	1.00	1.00	1.	.00	
Weighted sound absorption coefficient a_w Noise reduction coefficient NRC	[-]	EN ISO 11654 (for NRC according ASTM C423)				Level of weighted sound absorption coefficient AW					
	Single number	mber value			a _w NCR						
				1.00			0.95				
	Thickness	80 mm			1.00		1.00				
					1.00 1.05						
		120 mm			1.00 1.05						
		EN 13162+A1		Level of air flow resistivity					AFr		
Specific air flow resistivity r	[kPa·s·m ⁻²]	Measurement according to EN ISO 9053-1		14.5							

¹⁾ Value with greatest numerical tolerance.

¹⁰ Value with greatest numerical tolerance.
²⁰ Value with lowest numerical tolerance.
³⁰ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.
⁴⁰ 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

More about the product



www.isover.cz/en/products/mineralni-vlna/isover-fassil

Declaration of Performance

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Environmental Product Declaration

ISO 9001, ISO 14001, ISO 45001, ISO 50001

10/12/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.