

SVT code: 1878 Product identification code: CZ0001-006 Specification code: MW-EN 13 162-T4-DS(70,-)-MU1-AFr20

Isover Fassil NT

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

RCE

Isover Fassil NT slabs are suitable for insulation of outer walls of ventilated facade systems and are to be inserted into the grid under the cladding, or fitted mechanically in the multi-layer masonry. The slabs can be fitted mechanically using clamps for soft MW insulation. Insulating slabs are not glued to the surface. To harden the surface, these slabs are coated with black non-woven fibreglass fabric. It is necessary to protect the coating against an excessive wind impact if used on a ventilated facade. When the material is used to insulate ceilings, it is also necessary to use metal dowel pins with respect to fire security that cannot be positioned at the edge of the slab. The coating is not suitable for additional treatment (painting, gluing, etc.) The material is required. **Especially the energy saving insulation type** $\lambda_{\rm p} = 0.034 \text{ W-m}^{-1}\text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Fassil NT 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.

Thickness [mm]	Length × width [mm]	Quantity per pallet [m³]	Quantity per pallet [m²]	Declared thermal resistance R ₀[m²·K·W⁻¹]	
50*	1 200 × 1 000	2.520	50.40	1.45	
60*	1200 × 600	3.110	51.84	1.75	
80*	1200 × 600	3.110	38.88	2.35	
100*	1200 × 600	3.024	30.24	2.90	
120*	1200 × 600	3.110	25.92	3.50	
140*	1200 × 600	3.024	21.60	4.10	
160*	1200 × 600	2.765	17.28	4.70	
180*	1200 × 600	3.024	16.80	5.25	
200*	1200 × 600	2.880	14.40	5.85	

* Consult the producer for terms of delivery.

DIMENSIONS AND PACKAGING



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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				or -3 mm ¹⁾ nm or +5 mm ²⁾	Class of thicknoss tolorancos			Τ4
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			
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]	ČSN 73 0540-3				0.036				
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3				800				
Fire safety properties	2. 5									
Reaction to fire class	[-]	Declaration acco	rding to EN 13501	-1+A1		A1				
Maximum temperature for use	[°C]	bestatation decording to Err 10001 FAT				200				
Melting temperature t_t	[°C]	DIN 4102 part 17				≥ 1000				
Hydrothermal properties	[0]	Dirty	102 part IV			2 1000				
							Declared value for	water vapour diffu	sion	
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1			1	resistance factor MU1			MU1	
Other properties										
Density	[kg·m ⁻³]	EN 1602			50					
Acoustic properties ⁵⁾										
	[-]	EN 13162+A1								
		EN ISO 11654		Level of practi		tical sound absorption coefficient AF			AP	
		Declaration according to EN ISO 354								
Practical sound absorption coefficient a	Frequency		125 Hz	2	50 Hz	500 Hz	1000 Hz	2000 Hz	400	00 Hz
Practical sound absorption coefficient ap	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	1.	.00
		120 mm	0.60		1.00	1.00	1.00	1.00	1.	.00
	[-]	EN ISO 11654 (for NRC according ASTM C423)			Level of weighted sound absorption coefficient AW					AW
Weighted sound absorption coefficient a	Single number	Single number value			a _w NCR					
Weighted sound absorption coefficient a _w	Thickness	60 mm 1.0			1.00		0.95			
Noise reduction coefficient NRC		80 mm 1			1.00		1.00			
		100 mm 1.00				1.05				
		120 mm 1.00				1.05				
		EN 13162+A1		Leve		el of air flow resistivity			AFr	
Specific air flow resistivity r	[kPa·s·m ⁻²]	²] Measurement according to EN ISO 9053-1			20					

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

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More about the product



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

Certificate of stability of properties

ISO 9001, ISO 14001, ISO 45001, ISO 50001

Declaration of Performance CZ0001-006

18/6/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.