

SVT code: 7864 Product identification code: CZ0001-024 Specification code: MW-EN 13 162-T5-DS(TH)-CS(10)40-TR15-WS-WL(P)-MU1



Isover TF Stone wool insulation

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool with longitudinal fibres. Production is based on drawing the mineral composition melt wiith 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 and has longitudinal orientation. The slabs in the construction have to be protected suitably (layers of the contact wall insulation system).

APPLICATION

Isover TF facade slabs with longitudinal fibre are suitable for external thermal insulation composite cystems (ETICS) and are glued and mechanically bonded to a sufficiently cohesive and sound wall surface. The layers of contact insulating systems are applied on the slabs: bond, reinforcement grid, penetration, plaster, and paint. Bonding of the slabs can be performed with the glue being applied along the edge and at the patches in centre of the slab. The number of the anchors for machanically anchoring is usually 5 to 6 pc/m^2 , the exact number to be specified by the designer. The anchors will be arranged according to the instructions of the certified insulating system manufacturer.

PACKAGING, TRANSPORT, WAREHOUSING

DIMENSIONS AND PACKAGING

Isover TF insulation slabs are packed into the PE film covered packets or as packets on a pallet. Isover TF is standardly delivered on wooden pallet except thicknesses of 20 and 30 mm, which are supplied on EPS beams and with interlayer. Material has to be transported and stocked under conditions preventing wetting or other degradation.

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, glued, etc. Meets requirements for flush mounting with anchors
- and 60 mm disk.

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per pallet	Declared thermal resistance	
		[pcs]	[m²]	[m³]	[m²]	R _D [m ² ·K·W ⁻¹]	
201)2)	1000 × 600	7	6.00	0.120	132.0	0.50	
301)2)*	1000 × 600	6	4.20	0.126	100.8	0.75	
50*	1000 × 600	5	3.00	0.150	60.0	1.30	
60*	1000 × 600	5	2.40	0.144	48.0	1.55	
80*	1000 × 600	3	1.80	0.144	36.0	2.10	
100*	1000 × 600	3	1.20	0.120	28.8	2.60	
120*	1000 × 600	3	1.20	0.144	24.0	3.15	
140*	1000 × 600	2	1.20	0.168	21.6	3.65	
150*	1000 × 600	2	1.20	0.180	19.2	3.90	
160*	1000 × 600	2	1.20	0.192	19.2	4.20	
180*	1000 × 600	2	0.60	0.108	16.8	4.70	
200*	1000 × 600	2	0.60	0.120	15.6	5.25	
220*	1000 × 600	1	0.60	0.132	13.2	5.75	
240*	1000 × 600	1	0.60	0.144	12.0	6.30	
260*	1000 × 600	1	0.60	0.156	12.0	6.80	

 $^{\scriptscriptstyle \mathrm{D}}$ ETICS add-on, not included in the Qualitative class. A according to CZB.

²⁾ Thicknesses of 20 and 30 mm have different palletisation and are delivered on EPS beams including interlacing.

* Consult with producer for terms of delivery.



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TECHNICAL PARAMETERS

Parameter	Unit		Methodology	Value	Designation code		
			Hethodology	Value	Designation code		
Geometric shape Length /	[%, mm]		EN 822	±2%			
Width b	[%, mm]		EN 822	±1,5%			
Thickness d	[%, mm]		EN 823	-1% or -1 mm ¹⁾ and +3 mm	Class of thickness tolerances	Т5	
Deviation from squareness of the edge on length and width S_b	[mm·m⁻¹]	EN 824		2			
Deviation from flatness S_{max}	[mm]		EN 825	5			
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	DS(70/90)	
Thermal technical properties							
Declared value of thermal conductivity coefficient $\lambda_{\rho}^{2)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667		0.038			
Design thermal conductivity $\lambda_u^{_{3)}}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3		0.040			
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]		ČSN 73 0540-3	800			
Mechanical properties							
Compressive stress at 10% deformation $\sigma_{_{10}}$	[kPa]	Declar	ration according to EN 826	40	Declared level of compressive stress at 10% deformation	CS(10)40	
Tensile strength perpendicular to faces σ_{mt}	[kPa]	Declaration according to EN 1607		15	Declared level of tensile strength perpendicular to faces	TR15	
Shear strength	[kPa] Measure		EN 13162+A1 ement according to EN 12090	204)	Level of shear strength	SS20	
Shear modulus	[kPa]	Measur	ement according to EN 12090	10004)			
Fire safety properties							
Reaction to fire class	[-]	Declaratio	on according to EN 13501-1+A1				
Maximum temperature for use	[°C]			200			
Melting temperature t _t	[°C]		DIN 4102 part 17	≥ 1000			
Hydrothermal properties		Declarat	ion according to EN 13162+A1		Declared level for short-term		
Short-term water absorption W_{ρ} Long-term water absorption	[kg·m ⁻²] Measure		ement according to EN 1609 ion according to EN 13162+A1	1	water absorption Declared level for long-term water	WS	
by partial immersion W_{ip}	[kg·m ⁻²]	Measure	ement according to EN 12087	3	absorption by partial immersion	WL(P)	
Water vapour diffusion resistance factor μ	-		ion according to EN 13162+A1 ment according to EN 12086	1	Declared value for water vapour diffusion resistance factor	MU1	
Other properties	- 7-						
Density	[kg·m ⁻³]		EN 1602	110-1905)			
Environmental properties/impacts Volume of pre-consumer recycled content	[%]		ČSN ISO 14021	75-80			
for production ⁶⁾ Volume of post-consumer recycled content for production ⁶⁾	[%]		ČSN ISO 14021	0			
Non-hazardous waste disposed ⁷	[kg /FU ⁸⁾]		EN 15804+A1, ČSN ISO 14025	4.33	NHWD		
Total use of non-renewable primary energy resources	[MJ/FU]		EN 15804+A1, ČSN ISO 14025	222	PENRT		
Global warming potential	[kg CO ₂ ekv. /FU]		EN 15804+A1, ČSN ISO 14025	22.5	GWP		
Ozone depletion	[kg CFC 11 ekv. /FU]		EN 15804+A1, ČSN ISO 14025	1.17E-06	ODP		
Acidification potential	[kg SO ₂ ekv. /FU]		EN 15804+A1, ČSN ISO 14025	0.161	AP	AP	
Eutrophication potential	[kg PO4 ³⁻ ekv. /FU]		EN 15804+A1, ČSN ISO 14025	0.0146	EP		
Photochemical ozone creation	[kg C_2H_4 ekv. /FU]		EN 15804+A1, ČSN ISO 14025	0.0227	POPC		
Abiotic depletion potential for non-fossil resources	[kg Sb ekv. /FU]		EN 15804+A1, ČSN ISO 14025	3.91E-07	ADP-elements		
Abiotic depletion potential for fossil resources	[MJ (Calorific value) /FU]		EN 15804+A1, ČSN ISO 14025	206	ADP-fossil fuels		

 ¹⁾ Value with greatest numerical tolerance.
²⁾ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dy} reached by drying) according to EN ISO 10456.
³⁾ 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 value in the case of construction without any risk of condensation, it is possible to use the declared value of thermal value of thermal value in the case of construction without any risk of condensation. conductivity.

⁶⁾ Informative non-declared value beyond the scope of CPR, obtained by specific tests.
⁵⁾ The density is not constant and varies with the thickness of the product.
⁶⁾ According to EN ISO 14021, part 7.8 - Recycled content.
⁷⁾ In this case it is standard mixed waste.
⁸⁾ FU = functional unit (1 m² of insulation at a thickness of 160 mm for life cycle phases A1-A3).

RELATED DOCUMENTS

- Declaration of Performance
- Certificate of constancy of performance
- Quality class A

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- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

11/4/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.



More about the product www.isover.cz/en/products/isover-tf