

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

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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/m², 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

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.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per palett	Declared thermal resistance	
		[pcs]	[m²]	[m³]	[m²]	$\mathbf{R}_{\mathbf{D}}[\mathbf{m}^2\cdot\mathbf{K}\cdot\mathbf{W}^{-1}]$	
20 1)2)	1000 × 600	7	6.00	0.120	132.0	0.50	
30 1)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	

 $_{
m D}$ 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		
Geometric shape	•						
Length /	[%, mm]		EN 822	±2%			
Width b	[%, mm]		EN 822	±1,5%			
Thickness d	[%, mm]		EN 823	-1% nebo -1 mm¹) a +3 mm	Class of thickness tolerances	T5	
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 $\lambda_{\scriptscriptstyle D}^{3)}$	$[W \cdot m^{-1} \cdot K^{-1}]$		ion according to EN 13162+A1 ement according to EN 12667	0.038			
Design thermal conductivity λ_u^{4}	$[W \cdot m^{-1} \cdot K^{-1}]$		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	
Fire safety properties							
Reaction to fire class	[-]	Declaration	on according to EN 13501-1+A1	A1			
Maximum temperature for use	[°C]			200			
Melting temperature t_t	[°C]		DIN 4102 part 17	≥ 1000			
Hydrothermal properties							
Short-term water absorption $W_{\scriptscriptstyle p}$	[kg·m ⁻²]		ion according to EN 13162+A1 ement according to EN 1609	1	Declared level for short-term water absorption	WS	
Long-term water absorption by partial immersion W_{lp}	[kg·m ⁻²]		ion according to EN 13162+A1 ment according to EN 12087	3	Declared level for long-term water absorption by partial immersion	WL(P)	
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1 Measurement according to EN 12086		1	Declared value for water vapour diffusion resistance factor	MU1	
Other properties							
Density	[kg·m ⁻³]		EN 1602	110-1904)			
Environmental properties / impacts							
Volume of pre-consumer recycled content for production ⁵⁾	nt [%]		ČSN ISO 14021	75-80			
Volume of post-consumer recycled content for production ⁵⁾	[%]		ČSN ISO 14021	0			
Non-hazardous waste disposed ⁶⁾	[kg /FU ⁷⁾]		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	АР		
Eutrophication potential	[kg PO ₄ ³⁻ ekv. /FU]		EN 15804+A1, ČSN ISO 14025	0.0146	EP		
Photochemical ozone creation	2 4		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		

RELATED DOCUMENTS

- Declaration of Performance CZ0001-024
- Certificate of constancy of performance
- Quality class A
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

1/8/2023 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.
 Declared values were set under the following conditions: (reference temperature 10°C, humidity u_{ay} reached by drying) according 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.

The density is not constant and varies with the thickness of the product.

According to EN ISO 14021, part 7.8 Recycled content.

In this case it is standard mixed waste.

 $^{^{7)}}$ FU = functional unit (1 m² of insulation at a thickness of 160 mm thick for life cycle phases A1-A3).