

Product identification code: CZ0001-056 Specification code: MW-EN 13 162-T5-DS(70,90)-CS(10)20-TR10-WS-WL(P)-MU1

# **Isover TF Prim**

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 Prim facade slabs with longitudinal fibres are suitable for external thermal insulation composite cystems (ETICS), where they are glued and mechanically bonded to a sufficiently coherent 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. Anchoring is recommended with an expansion plate in case of surface and recessed position of the anchor.

#### PACKAGING, TRANSPORT, WAREHOUSING

Isover TF Prim insulation slabs are packed into the PE film covered packets or as packets on a pallet. Isover TF Prim is standardly delivered on wooden pallet. material has to be transported and stocked under conditions preventing wetting or other degradation.

### **BENEFITS**

- ✓ Very good thermal insulation performance ( $\lambda_D$  = 0.035 W·m<sup>-1</sup>·K<sup>-1</sup>).
- 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.

#### **DIMENSIONS AND PACKAGING**

Thickness	Length × width	Volume per package			Quantity per pallet	Declared thermal resistance	
[mm]	[mm]	[pcs]	[m²]	[m³]	[m²]	$\mathbf{R}_{D}$ [m <sup>2</sup> ·K·W <sup>-1</sup> ]	
50	1000 × 600	5	3.00	0.150	60.0	1.40	
60	1000 × 600	5	3.00	0.180	48.0	1.70	
80	1000 × 600	3	1.80	0.144	36.0	2.25	
100	1000 × 600	3	1.80	0.180	28.8	2.85	
120	1000 × 600	3	1.80	0.216	25.2	3.40	
140	1000 × 600	2	1.20	0.168	21.6	4.00	
150	1000 × 600	2	1.20	0.180	21.6	4.25	
160	1000 × 600	2	1.20	0.192	19.2	4.55	
180	1000 × 600	2	1.20	0.216	16.8	5.10	
200	1000 × 600	2	1.20	0.240	14.4	5.70	
220	1000 × 600	1	0.60	0.132	13.2	6.25	
240	1000 × 600	1	0.60	0.144	12.0	6.85	
250	1000 × 600	1	0.60	0.150	12.0	6.25	
260	1000 × 600	1	0.60	0.156	12.0	7.40	
280	1000 × 600	1	0.60	0.168	10.8	8.00	
300	1000 × 600	1	0.60	0.180	9.6	8.55	



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#### TECHNICAL PARAMETERS

Parameter Unit		Methodology	Value	Designation code					
Geometric shape									
Length /	[%, mm]	EN 822	±1%						
Width b	[%, mm]	EN 822	±1,5%						
Thickness d	[%, mm]	EN 823	-1% nebo -1 mm <sup>1)</sup> a +3 mm	Class of thickness tolerances	T5				
Deviation from squareness of the edge on length and width $S_b$	[mm·m <sup>-1</sup> ]	EN 824	2						
Deviation from flatness $S_{max}$	[mm]	EN 825	5						
Relative change in length $\Delta \varepsilon_{\rm h}$ in width $\Delta \varepsilon_{\rm b}$ , in thickness $\Delta \varepsilon_{\rm d}$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS(70/90)				
Thermal technical properties									
Declared value of thermal conductivity coefficient $\lambda_{\scriptscriptstyle D}^{3)}$	$[W \cdot m^{-1} \cdot K^{-1}]$	Declaration according to EN 13162+A1  Measurement according to EN 12667	0.035						
Design thermal conductivity $\lambda_{\scriptscriptstyle u}^{^{4)}}$	$[W \cdot m^{-1} \cdot K^{-1}]$	ČSN 73 0540-3	0.037						
Specific heat capacity $c_d$	[J·kg <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	800						
Mechanical properties									
Compressive stress at 10% deformation $\sigma_{_{70}}$	[kPa]	Declaration according to EN 826	20	Declared level of compressive stress at 10% deformation	CS(10)20				
Tensile strength perpendicular to faces $\sigma_{mt}$	[kPa]	Declaration according to EN 1607	10	Declared level of tensile strength perpendicular to faces	TR10				
Fire safety properties									
Reaction to fire class	[-]	Declaration 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 <sup>-2</sup> ]	Declaration according to EN 13162+A1  Measurement according to EN 1609	1	Declared level for short-term water absorption	WS				
Long-term water absorption by partial immersion $W_{lp}$	[kg·m <sup>-2</sup> ]	Declaration according to EN 13162+A1 Measurement according to EN 12087	3	Declared level for long-term water absorption by partial immersion	WL(P)				
Water vapour diffusion resistance factor $\mu$	[-]	Declaration according to EN 13162+A1 Measurement according to EN 12086	1	Declared value for water vapour diffusion resistance factor	MU1				
Other properties									
Density 4)	[kg·m <sup>-3</sup> ]	EN 1602	80-1154)						

## **RELATED DOCUMENTS**

- Declaration of Performance CZ0001-056
- Certificate of constancy of performance
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

### More about the product

www.isover.cz/en/products/isover-tf-prim



1/3/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

<sup>&</sup>lt;sup>1)</sup> Value with greatest numerical tolerance.
<sup>2)</sup> Declared values were set under the following conditions: (reference temperature 10 °C, humidity u<sub>dy</sub> reached by drying) according to EN ISO 10456.
<sup>3)</sup> Value with greatest numerical tolerance.
<sup>4)</sup> Value with greatest numerical tolerance.
<sup>4)</sup> Va Valid for typical ass ... conductivity.
 The density is not constant and varies with the thickness of the product.