

SVT code: 431

Product identification code: CZ0001-022

Specification code: MW-EN 13 162-T5-DS(TH)-CS(10)30-TR10-WS-WL(P)-MU1

Isover TF Profi

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 Profi 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/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. Appropriate also for flush mounting systems.

PACKAGING, TRANSPORT, WAREHOUSING

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

BENEFITS

- Quality class A
- System certification
- ✓ Very good thermal insulation performance ($λ_D$ = 0.035 W·m⁻¹·K⁻¹).
- 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]	\	/olume per packag	е	Quantity per pallet	Declared thermal resistance	
		[pcs]	[m²]	[m³]	[m²]	$\mathbf{R}_{\mathbf{D}}[\mathbf{m}^2\cdot\mathbf{K}\cdot\mathbf{W}^{-1}]$	
30	1000 × 600	7	4.20	0.126	100.8	0.85	
40	1000 × 600	6	3.60	0.144	72.0	1.10	
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	1	0.60	0.120	15.6	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	
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	
320*	1000 × 600	1	0.60	0.192	9.6	9.10	
340*	1000 × 600	1	0.60	0.204	9.6	9.70	
350*	1000 × 600	1	0.60	0.210	8.4	10.00	

^{*} Non-standard product, delivery terms on request.



Isover TF Profi

Stone wool insulation

TECHNICAL PARAMETERS

Parameter	Unit	Metho	Va	lue	Designation code					
Geometric shape										
Length /	[%, mm]	EN	±1	1%						
Width b	[%, mm]	EN	±1,	5%						
Thickness d	[%, mm]	EN 823			-1 mm ¹⁾ 3 mm			ess tolerand	es	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 $\Delta \varepsilon_b$, in width $\Delta \varepsilon_b$, in thickness $\Delta \varepsilon_d$	[%]	EN 1604			1		nal stability ature and hu			DS(70/90)
Thermal technical properties										
Declared value of thermal conductivity coefficient $\lambda_0^{\ 2)}$	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667		0.0)35					
Design thermal conductivity $\lambda_u^{(3)}$	$[W \cdot m^{-1} \cdot K^{-1}]$	ČSN 73 0540-3		0.0	37					
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3		80	00					
Mechanical properties										
Compressive stress at 10% deformation $\sigma_{_{70}}$	[kPa]	Declaration according to EN 826		3	0	at 10% (compressive stress formation		CS(10)30
Tensile strength perpendicular to faces σ_{mt}	[kPa]	Declaration according to EN 1607		1	0			of tensile strength cular to faces		TR10
Shear strength	[kPa]	EN 13162+A1 Measurement according to EN 12090		20) ⁴⁾	Level of shear stren				SS20
Shear modulus	[kPa]	Measurement according to EN 12090		100	004)					
Fire safety properties										
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1		A	A1					
Maximum temperature for use	[°C]			20	00					
Melting temperature t_t	[°C]	DIN 4102 part 17		≥ 10	000					
Hydrothermal properties										
Short-term water absorption $W_{\scriptscriptstyle p}$	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 1609			1	Dec	or short-ter orption	rm	WS	
Long-term water absorption by partial immersion W_{lo}	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 12087		;	3	Declared level for long-te absorption by partial im				WL(P)
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1			1	Declared value for		vater vapour diffusion		MU1
		Measurement according to EN 12086					resistance factor			
Other properties	Fl33	EN 1602		00 140)						
Density	[kg·m ⁻³]	EIN 1002		90-140)						
Acoustic properties		EN 17	7162 41							
	[-]	EN 13162+A1 EN ISO 11654		Level of pra		practical sound absorption coefficient AF				AD
		Measurement according to EN ISO 354								AP
Description of the country of the co	Fragues and			250 11-	250 Hz 500 H		1000 Hz	2000) I I =	4000 Hz
Practical sound absorption coefficient $a_{_{p}}$	Frequency	60 mm	0.30	0.90	1.00		1.00	1.0		1.00
	Thickness	100 mm	0.55	1.00	1.00		1.00	1.0		1.00
		140 mm	0.65	0.95	1.00		1.00	1.0		1.00
			O 11654	0.55						
Maighted cound pheautierffi-i	[-]		ding ASTM C423)		Level of we	eighted soun	d absorption	on coefficient		AW
Weighted sound absorption coefficient a_w	Single number value		α_{w}			a_{str} NCF				
Sound Absorption Average a _{str}		60 mm	60 mm 1.00				- 0.90			
Noise reduction coefficient NRC	Thickness	100 mm 1.00							1.00	
		140 mm 1.00							1.00	
		EN 13162+A1					low resistivity			
Specific air flow resistivity r	[mm] [kPa·s·m ⁻²]	Measurement according to EN ISO 9053-1		100 23.8	120 ⁶⁾ 23.0	140 ⁶⁾ 22.2	150 ⁶⁾ 21.8	160 21.4	180 ⁶⁾ 20.6	200 ⁶⁾ 19.8
	[MN·m ⁻³]	EN 13162+A1					namic rigidity			SD
Dynamic rigidity of	[mm]			100	1206)	1406)	1506	160	1806)	2006)
Dynamic rigidity s'	[MN·m ⁻³]		Measurement according to ČSN ISO 9052-1 (idt. EN 29052-1		9.2	9.3	9.3	9.3	9.3	9.4

RELATED DOCUMENTS

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

More about the product

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



20/1/2025 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

¹⁾ Value with greatest numerical tolerance.
²⁾ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} 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 conductivity.

 ⁴⁾ 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⁾ Interpolated and extrapolated values.