

Isover TF PROFI

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T5 - DS(TH) - CS(10)30 - TR10 - WS - WL(P) - MU1

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool with longitudinal fibres. The production is based on defibring method of the minerals composition melt and additional 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 have 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 fibre are suitable for external thermal insulation composite systems (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 mechanically 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.

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Declared thermal resistance R _D (m ² .K.W ⁻¹)
Isover TF PROFI 3	30	1000 x 600	0.80
Isover TF PROFI 4	40	1000 x 600	1.10
Isover TF PROFI 5	50	1000 x 600	1.35
Isover TF PROFI 6	60	1000 x 600	1.65
Isover TF PROFI 7	70*	1000 x 600	1.90
Isover TF PROFI 8	80	1000 x 600	2.20
Isover TF PROFI 10	100	1000 x 600	2.75
Isover TF PROFI 12	120	1000 x 600	3.30
Isover TF PROFI 14	140	1000 x 600	3.85
Isover TF PROFI 15	150	1000 x 600	4.15
Isover TF PROFI 16	160	1000 x 600	4.40
Isover TF PROFI 18	180	1000 x 600	5.00
Isover TF PROFI 20	200	1000 x 600	5.55
Isover TF PROFI 22	220*	1000 x 600	6.10
Isover TF PROFI 24	240*	1000 x 600	6.65
Isover TF PROFI 26	260*	1000 x 600	7.20
Isover TF PROFI 28	280*	1000 x 600	7.75
Isover TF PROFI 30	300*	1000 x 600	8.30

Thickness tolerance classification T5 complies with allowed tolerance according to EN 13162: -1% or - 1 mm, while the higher numerical value prevails, and + 3mm.

* Minimum volume to be consulted with the manufacturer.

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
THERMAL INSULATING PROPERTIES			
Condition set for declared values I(10°C) and (u ₁₀)	-	-	EN ISO 10456
Declared value of the thermal conductivity coefficient λ _D (based on the set of measured values according to EN 12667)	W.m ⁻¹ .K ⁻¹	0.036	EN 13162
Specific heat capacity c _f	J.kg ⁻¹ .K ⁻¹	800	ČSN 73 0540-3
MECHANICAL PROPERTIES			
Compressive stress at 10% deformation (σ ₁₀) CS(10)	kPa	≥ 30	EN 826
Perpendicular tensile strength (σ _{tm}) TR	kPa	≥ 10	EN 1607
Maximum load value	kN.m ⁻³	1.4	EN 1991-1-1, EN 1990
Dimensional stability at (70±2)°C and relative humidity (90 ± 5)% DS(TH)	%	≤ 1	EN 1604
FIRE SAFETY PROPERTIES			
Reaction to fire class	-	A1	EN 13501-1
Maximum temperature for use	°C	200	-
Melting temperature t _f	°C	≥ 1000	DIN 4102 part 17
ACOUSTIC PROPERTIES			
Dynamic rigidity s'	mm	100 120* 140* 150* 160 180* 200*	EN 29052-1
	MPa/M	9.2 9.2 9.3 9.3 9.3 9.3 9.4	
Airflow resistance r	kPa s/m ²	23.8 23.0 22.2 21.8 21.4 20.6 19.8	EN 29053
OTHER PROPERTIES			
Moisture resistance factor (μ) MU	-	1	EN 12086
Moisture absorption short term/long term WS / WL(P)	kg.m ⁻²	1/3	EN 1609 EN 12087

* Interpolated and extrapolated values.

It meets the EN 13500 standard requirements as MW insulation used in ETICS. Meets ETAG 004. Meets Quality class A standards (Czech guild for heat cladding)

RELATED DOCUMENTS

- Certificate of Constancy of Performance 1390-CPR-312/11/P
- Declaration of Performance CZ0001-022 (www.isover.cz/DOP)

1. 9. 2015 The information is valid up to date of publishing. The manufacturer reserves right to change the data.