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 Insulating slabs made of isover mineral wool with longitudinal fibres. Ine 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 Isover TF PROFI facade slabs with longitudinal fibre 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.

DIMENSIONS AND PACKAGING

Declared thermal resistance R_D Thickness (mm) Product **Dimensions (mm)** (m².K.W⁻¹) 0.80 Isover TF PROFI 3 30 1000 x 600 1000 x 600 1.10 Isover TF PROFI 4 40 Isover TF PROFI 5 50 1000 x 600 1.35 Isover TF PROFI 6 60 1000 x 600 1.65 1000 x 600 Isover TF PROFI 7 70' 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 4 0 Isover TF PROFI 18 180 1000 x 600 5.00 Isover TF PROFI 20 200 1000 x 600 5.55 220* Isover TF PROFI 22 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 7.75 300* Isover TF PROFI 30 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 + 3 mm. * 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 _{drv})	-	-							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 _d	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_{mt}) 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 _t	°C	≥ 1000							DIN 4102 part 17
ACOUSTIC PROPERTIES									
Dynamic rigidity s´	mm	100	120*	140*	150*	160	180*	200*	
	MPa/M	9.2	9.2	9.3	9.3	9.3	9.3	9.4	EN 29052-1
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.

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The widest offer of thermal, acoustic and fire insulations

PACKAGING, TRANSPORT, WAREHOUSING Isover TF PROFI insulation slabs are packed into the PE foil covered packets or as the packets on a pallet. Isover TF PROFI is standardly delivered on pallets (on EPS scantlings). Material have to be transported and stocked under conditions preventing their wetting or other degradation.

ISO 9001 BUREAU VERITAS Certification

BENEFITS

- very good thermal insulation performance (λ_D = 0,036 W/mK)
- 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 insect easy workability can be cut, drilled into, glued, etc.