

Isover TF

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T5 - DS(TH) - CS(10)40 - TR15 - 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. 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 systems (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 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.

PACKAGING, TRANSPORT, WAREHOUSING

Isover TF insulation slabs are packed into the PE foil covered packets or as the packets on a pallet. Isover TF is standardly delivered on pallets. Material have to be transported and stocked under conditions preventing their 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 insect
- easy workability - can be cut, drilled into, glued, etc.

RELATED DOCUMENTS

- EC compliance certificate 1390-CPD-0312/11/P
- CSI AZL č. 1007.4, AZL č. 1007.6, AZL č.1007.7

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Declared thermal resistance R _D (m ² .K.W ⁻¹)
Isover TF 3	30	1000 x 600	0.75
Isover TF 4	40	1000 x 600	1.05
Isover TF 5	50	1000 x 600	1.30
Isover TF 6	60	1000 x 600	1.55
Isover TF 7	70*	1000 x 600	1.80
Isover TF 8	80	1000 x 600	2.10
Isover TF 10	100	1000 x 600	2.60
Isover TF 12	120	1000 x 600	3.15
Isover TF 14	140	1000 x 600	3.65
Isover TF 15	150	1000 x 600	3.90
Isover TF 16	160	1000 x 600	4.20
Isover TF 18	180*	1000 x 600	4.70
Isover TF 20	200*	1000 x 600	5.25

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 _{dry})	-	-	EN ISO 10456
Declared thermal conductivity coefficient λ _D	Wm ⁻¹ K ⁻¹	0.038	EN 12667
Specific heat capacity c _d	Jkg ⁻¹ K ⁻¹	800	ČSN 73 0540-3
MECHANICAL PROPERTIES			
Compressive stress at 10% deformation (σ ₁₀) CS(10)	kPa	≥ 40	EN 826
Perpendicular tensile strength (σ _{mt}) TR	kPa	≥ 15	EN 1607
Maximum load value	kNm ⁻³	1.60	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 _i	°C	≥ 1000	DIN 4102 part 17
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

It meets the EN 13500 standard requirements as MW insulation used in ETICS. Meets ETAG 004.

1. 1. 2012 The information is valid up to date of publishing. The manufacturer reserves right to change the data.