

Isover T

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T5 - CS(10)50 - TR7,5 - PL(5)500 - WS - WL(P) - MU1

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. 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 (vapour-proof foil, water-proofing, flat roof bearing layer, etc.)

APPLICATION

Isover T slabs are designed for thermal, acoustic and fire insulation of the flat roofs. They can be used both as a top layer and as a bottom layer into multiple layer systems. There is a suitable combination with with gravity flow systems Isover SD and Isover DK as well as with Isover AK attic wedge blocks which help to change the horizontal direction of the waterproofing into the perpendicular direction. Water-proofing membrane can be applied directly on the Isover T slabs (glued, mechanically attached or with a load). If there is no bearing concrete (reinforced) slab above the thermal insulation in the roof assembly,

walking paths have to be designed so that the dishing formation is prevented in the areas of walking in order to inspect the roof and the technological devices.

PACKAGING, TRANSPORT, WAREHOUSING

Isover T insulating slabs are packed into the PE foil in height up to 1.3 m. The slabs have to be transported in covered vehicles under conditions preventing their wetting or other degradation. They should be stored flat in sheltered space to maximum layer height of 2 m.

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, etc.

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Per package (m ²)	Declared thermal resistance R _D (m ² .K.W ⁻¹)
Isover T 3	30	1000 x 1200	50.4	0.75
Isover T 4	40	2000 x 1200	72.0	1.00
Isover T 5	50	2000 x 1200	60.0	1.25
Isover T 6	60	2000 x 1200	50.4	1.50
Isover T 8	80	2000 x 1200	38.4	2.05
Isover T 10	100	2000 x 1200	31.2	2.55
Isover T 12	120	2000 x 1200	24.0	3.05
Isover T 14	140	2000 x 1200	19.2	3.55

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

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
THERMAL INSULATING PROPERTIES			
Condition set for declared values I(10°C) and (u _{dry})	-	-	ČSN EN ISO 10456
Declared thermal conductivity coefficient λ _D	Wm ⁻¹ .K ⁻¹	0.039	ČSN 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	≥ 50	ČSN EN 826
Perpendicular tensile strength (σ _{mt}) TR	kPa	≥ 7.5	ČSN EN 1607
Point load at 5 mm deformation (F _p) PL(5)	N	≥ 500	ČSN EN 12430
Specific load value	kNm ⁻³	1.60 and 1.25 ¹⁾	ČSN EN 1991-1-1 ČSN EN 1990
FIRE SAFETY PROPERTIES			
Reaction to fire class	-	A1	ČSN EN 13501-1
Maximum temperature for use	°C	200	-
Melting temperature t _t	°C	≥ 1000	DIN 4102 part 17
OTHER PROPERTIES			
Moisture resistance factor (μ) MU	-	1	ČSN EN 12086
Moisture absorption short term/long term WS / WL(P)	kgm ⁻²	1/3	ČSN EN 1609 ČSN EN 12087

¹⁾ In term of the roof construction stress the upper or the lower specific value can be considered.

RELATED DOCUMENTS

- EC compliance certificate 1390-CPD-0305/11/P

1. 8. 2011 The information is valid up to date of publishing. The manufacturer reserves right to change the data.