

Isover UNI

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T4 - DS(T+) - MU1

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. The production is based on defibering 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 should be protected suitably against the weather effects (outer cassette sheathing, diffusion and vapour-proof foil).

APPLICATION

Isover UNI slabs are suitable for unloaded insulations of the outer walls (ventilated facades under the cladding with insulant inserted into cassettes or frames), insulation of the pitch roofs, ceilings, false ceilings and other light sandwich constructions. The material is suitable for fire protection partition walls where the density $\geq 40 \text{ kg}\cdot\text{m}^{-3}$ is required.

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Per package (m ²)	Declared thermal resistance R _D (m ² ·K·W ⁻¹)
Isover UNI 4	40	1200 x 600	8.64	1.15
Isover UNI 5	50	1200 x 600	7.20	1.40
Isover UNI 6	60	1200 x 600	5.76	1.70
Isover UNI 8	80	1200 x 600	4.32	2.30
Isover UNI 10	100	1200 x 600	3.60	2.85
Isover UNI 12	120	1200 x 600	2.88	3.45
Isover UNI 14	140	1200 x 600	2.16	4.00
Isover UNI 16	160	1200 x 600	2.16	4.60
Isover UNI 18	180	1200 x 600	1.44	5.15
Isover UNI 20	200	1200 x 600	1.44	5.75

Thickness tolerance classification T4 complies with allowed tolerance according to EN 13162: -3% or - 3 mm, while the higher numerical value prevails and + 5% or + 5 mm where the lower tolerance numerical value is predominant.

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm	
THERMAL INSULATING PROPERTIES				
Condition set for declared values I(10°C) and (u _{DN})	-	-	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	0.035	EN 13162	
Specific heat capacity c _d	J·kg ⁻¹ ·K ⁻¹	800	ČSN 73 0540-3	
MECHANICAL PROPERTIES				
Specific load value	kN·m ⁻³	0.40	EN 1991-1-1, EN 1990	
FIRE SAFETY PROPERTIES				
Reaction to fire class	-	A1	EN 13501-1	
Dimensional stability at temperature (70 ± 2) °C DS (T+)	%	≤ 1	EN 1604	
Maximum temperature for use	°C	200	-	
Melting temperature t _i	°C	≥ 1000	DIN 4102 part 17	
ACOUSTIC PROPERTIES				
The practical sound absorption coefficient α_p according to EN ISO 354 and EN ISO 11654	Frequency	Hz	125 250 500 1000 2000 4000	
	Thickness	40	mm	0.15 0.40 0.85 0.95 0.95 1.00
		60	mm	0.25 0.70 1.00 1.00 1.00 1.00
		80	mm	0.35 0.95 1.00 1.00 1.00 1.00
		100	mm	0.45 1.00 1.00 1.00 1.00 1.00
Definition of single number value according to EN ISO 11654	Single number value	-	α_w α_{str} NCR	
	Thickness	40	mm	0.70 (MH) 0.79 0.80
		60	mm	1.00 0.93 0.95
		80	mm	1.00 1.01 1.00
		100	mm	1.00 1.05 1.05
OTHER PROPERTIES				
Moisture resistance factor (μ) MU	-	1	EN 12086	
Specific resistance against air flow AF _r	kPa·s·m ⁻²	12.3	EN 29053	

RELATED DOCUMENTS

- EC compliance certificate 1390-CPR-0305/11/P
- Declaration of Performance CZ0001-005 (www.isover.cz/DOP)

1. 7. 2014 The information is valid up to date of publishing. The manufacturer reserves right to change the data.