

Isover MAXIL

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T4 - 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 should be protected suitably against the weather effects (outer sheathing, alternatively diffusion foil).

APPLICATION

Isover MAXIL slabs are suitable for insulation of the outer walls of ventilated facade systems and are to be inserted into the grid under the cladding, or mechanically bonded into the multi-layer masonry. The slabs can be mechanically bond using the clamps for soft MW insulations. Insulating slabs are not glued to the surface. The material is suitable for fire protection system constructions where the density $\geq 75 \text{ kg.m}^{-3}$ is required.

Especially the energy saving insulation type $\lambda_D = 0.034 \text{ W.m}^{-1}.\text{K}^{-1}$.

PACKAGING, TRANSPORT, WAREHOUSING

Isover MAXIL insulation slabs are packed into the PE foil with package height up to 0.5 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

- fire-resistant
- very good thermal insulation performance
- 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.
- dimensional stability during temperature change

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Package - pack (m ²)	Package - pallets (m ²)	Declared thermal resistance R_D (m ² .K.W ⁻¹)
Isover MAXIL 3	30	1200 x 600	10.80	120.96	0.85
Isover MAXIL 4	40	1200 x 600	7.20	86.40	1.15
Isover MAXIL 5	50	1200 x 600	5.76	69.12	1.45
Isover MAXIL 6	60	1200 x 600	5.04	60.48	1.75
Isover MAXIL 8	80	1200 x 600	3.60	43.20	2.35
Isover MAXIL 10	100	1200 x 600	2.88	34.56	2.95

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm							
THERMAL INSULATING PROPERTIES										
Condition set for declared values $l(10^{\circ}\text{C})$ and (u_{dry})	-	-	EN ISO 10456							
Declared value of the thermal conductivity coefficient λ_D (based on the set of measured values according to EN 12667)	$\text{Wm}^{-1}\text{K}^{-1}$	0.034	EN 13162							
Specific heat capacity c_d	$\text{Jkg}^{-1}\text{K}^{-1}$	800	ČSN 73 0540-3							
MECHANICAL PROPERTIES										
Specific load value	kNm^{-3}	0.75	EN 1991-1-1, EN 1990							
FIRE SAFETY PROPERTIES										
Reaction to fire class	-	A1	EN 13501-1							
Dimensional stability at temperature $(70 \pm 2)^{\circ}\text{C DS (T+)}$	%	≤ 1	EN 1604							
Maximum temperature for use	$^{\circ}\text{C}$	200	-							
Melting temperature t_i	$^{\circ}\text{C}$	≥ 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	0.10	0.45	0.95	1.00	1.00	1.00	
		60	mm	0.20	0.80	1.00	1.00	1.00	1.00	
		80	mm	0.40	1.00	1.00	1.00	1.00	1.00	
		100	mm	0.50	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							
	Thickness	40	mm	0.75 (MH)						
		60	mm	1.00						
		80	mm	1.00						
		100	mm	1.00						
OTHER PROPERTIES										
Specific resistance against air flow AF_r	kPa s m^{-2}	32.9	EN 29053							
Moisture resistance factor (μ) MU	-	1.0	EN 12086							

RELATED DOCUMENTS

- EC compliance certificate 1390-CPR-0305/11/P
- Declaration of Performance CZ0001-008 (www.isover.cz/DOP)

1. 3. 2016 The information is valid up to date of publishing. The manufacturer reserves right to change the data.