

Isover ORSTROP

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T2 - 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 inner humidity (vapour-proof foil, suitable protection against dust setting, false ceilings sheathing, and additional construction layers).

APPLICATION

Isover ORSTROP slabs are suitable for unloaded thermal, acoustic and fire insulation of ceilings (between joists), unused attics, false ceilings and cavities.

RELATED DOCUMENTS

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

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Per package (m ²)	Declared thermal resistance R _D (m ² .K.W ⁻¹)
Isover ORSTROP 4	40	1200 x 600	8.64	1.05
Isover ORSTROP 5	50	1200 x 600	7.20	1.25
Isover ORSTROP 6	60	1200 x 600	5.76	1.50
Isover ORSTROP 8	80	1200 x 600	4.32	2.00
Isover ORSTROP 10	100*	1200 x 600	5.04	2.50
Isover ORSTROP 12	120*	1200 x 600	4.32	3.00
Isover ORSTROP 14	140*	1200 x 600	3.60	3.55
Isover ORSTROP 16	160*	1200 x 600	2.88	4.05
Isover ORSTROP 18	180*	1200 x 600	2.88	4.55
Isover ORSTROP 20	200*	1200 x 600	2.16	5.05

Thickness tolerance classification T2 complies with allowed tolerance according to EN 13162: - 5% or - 5% mm, while the higher numerical value prevails and + 15mm or + mm where the lower tolerance numerical value is predominant. * Compressed packaging

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm	
THERMAL INSULATING PROPERTIES				
Condition set for declared values l(10°C) and (u _{dry})	-	-	EN ISO 10456	
Declared thermal conductivity coefficient λ _D	Wm ⁻¹ .K ⁻¹	0.041	EN 12667	
Specific heat capacity c _d	J.kg ⁻¹ .K ⁻¹	800	ČSN 73 0540-3	
MECHANICAL PROPERTIES				
Specific load value	kNm ⁻³	0.30	EN 1991-1-1, EN 1990	
FIRE SAFETY PROPERTIES				
Reaction to fire class	-	A1	EN 13501-1	
Maximum temperature for use	°C	200	-	
Melting temperature t _f	°C	≥ 1000	DIN 4102 part 17	
ACOUSTIC PROPERTIES				
Acoustic absorption coefficient α for perpendicular impact of acoustic waves (-) according to ISO 10534 - 1	Frequency	Hz	125 250 500 1000 2000 4000	
	Thickness	40	mm	0.08 0.14 0.28 0.57 0.87 0.84
		60	mm	0.12 0.22 0.45 0.79 0.90 0.94
		80	mm	0.19 0.42 0.81 0.99 0.93 0.99
		120	mm	0.30 0.59 0.95 0.97 0.98 0.99
Mean acoustic absorption coefficient in the band of 250 - 4000 Hz α _{stf}	160	mm	0.47 0.88 0.97 0.94 0.98 0.99	
	Thickness	40	mm	0.55
		60	mm	0.68
		80	mm	0.88
120		mm	0.92	
160	mm	0.96		
OTHER PROPERTIES				
Moisture resistance factor (μ) MU	-	1	EN 12086	

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

PACKAGING, TRANSPORT, WAREHOUSING

Isover ORSTROP 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