

Isover NF 333 V

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T5 - DS(TH) - TR80 - WS - WL(P) - MU1

TECHNICAL SPECIFICATION

Insulating slabs with bevelled edges are made of Isover mineral wool with perpendicular 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 and the edges are then trimmed by bevelling of 8 to 15mm according to the customer's requirements at a 45° angle. The entire fibre surface is hydrophobic and the fibres are perpendicular to the wall plane.

APPLICATION

Isover NF 333 V slabs with bevelled edges are suitable for interior wall and ceilings insulation, where they are fully glued on a sufficiently flat and bearing surface. These slabs placed regularly side by side in bond or broken bond can conceal minor irregularities in the underlay surface and create the effect of bossage. No surface layer is necessary, if dust is removed from the slab surface by vacuum cleaning. If surface treatment is required, exterior or interior paint can be sprayed on cleaned and primed slabs.

PACKAGING, TRANSPORT, WAREHOUSING

Isover NF 333 V insulation slabs are packed into the PE foil covered packets or as the packets on a pallet. Isover NF 333 V is standardly delivered on pallets. Material have to be transported and stocked under conditions preventing their wetting or other degradation.

BENEFITS

- up to 40% faster workability due to slab dimensions 1000 x 333 mm against normal 200 mm lamella
- can be used without surface adjustment
- can be used without anchoring
- lesser time requirements than ETICS
- slabs can cover small surface bumps
- "bossage" effect on ceiling
- high tensile strength (can be applied on ceilings)
- good thermal insulation performance
- fire resistance
- 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, brushed, etc.

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Declared thermal resistance R_D ($m^2 \cdot K \cdot W^{-1}$)
Isover NF 333 V 5	50*	1000 x 333	1.20
Isover NF 333 V 6	60*	1000 x 333	1.45
Isover NF 333 V 8	80*	1000 x 333	1.95
Isover NF 333 V 10	100*	1000 x 333	2.40
Isover NF 333 V 12	120*	1000 x 333	2.90
Isover NF 333 V 14	140*	1000 x 333	3.40
Isover NF 333 V 15	150*	1000 x 333	3.65
Isover NF 333 V 16	160*	1000 x 333	3.90
Isover NF 333 V 18	180*	1000 x 333	4.35
Isover NF 333 V 20	200*	1000 x 333	4.85

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 $l(10^\circ C)$ 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)	$W \cdot m^{-1} \cdot K^{-1}$	0.041	EN 13162
Specific heat capacity c_d	$J \cdot kg^{-1} \cdot K^{-1}$	800	ČSN 73 0540-3
MECHANICAL PROPERTIES			
Perpendicular tensile strength (σ_{mt}) TR	kPa	≥ 80	EN 1607
Specific load value	$kN \cdot m^{-3}$	0.88	EN 1991-1-1, EN 1990
Dimensional stability at temperature $(70 \pm 2)^\circ C$ and relative humidity $(90 \pm 5) \% DS(TH)$	%	≤ 1	EN 1604
FIRE SAFETY PROPERTIES			
Reaction to fire class	-	A1	EN 13501-1
Maximum temperature for use	$^\circ C$	200	-
Melting temperature t_t	$^\circ C$	≥ 1000	DIN 4102 part 17
OTHER PROPERTIES			
Moisture resistance factor (μ) MU	-	1	EN 12086
Moisture absorption short term/long term WS / WL(P)	$kg \cdot m^{-2}$	1/3	EN 1609, EN 12087

RELATED DOCUMENTS

- EC compliance certificate 1390-CPD-0312/11/P
- Declaration of Performance CZ0001-023 (www.isover.cz/DOP)

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