

Multi-Comfort
House



Isover NF 333

- STONE WOOL PERPENDICULAR SLABS FOR ETICS FASADES

MAIN BENEFITS:

- **Ultra-wide lamellas (333 mm)**
 - Faster workability, decreased anchor amounts
- **Ultra-light stone wool ETICS material**
 - ½ slab weight than common fasades (TF)
 - Easy handling
- **Suitable for Multi-Comfort passive houses**
 - thicknesses from 20 mm up to 300 mm
- **Reaction to fire class (A)**
 - no height limit use for buildings
- **Vapour permeability ($\mu 1$)**
 - ideal for reconstructions
- **Very high tensile strength (80 kPa)**
 - Gluing without anchoring is the possibility
- **Can be easily cut, drilled, glued, brushed and bended**
- **Better price than common longitudinal fasades (TF)**



Isover NF 333

Mineral insulation from stone wool



Specification code: MW - EN 13162 - T5 - DS(TH) - CS(10)30 - TR80 - WS - WL(P) - MU1

TECHNICAL SPECIFICATION

Insulating slabs 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. The entire fibre surface is hydrophobic and the fibres are perpendicular to the wall plane. The slabs in the construction have to be protected suitably (layers of the contact wall insulation system).

APPLICATION

Isover NF 333 slabs are suitable for ETICS facade systems where the insulating slabs are fully glued on a sufficiently flat and bearing surface. The layers of contact insulating systems are applied on the slabs: bond, reinforcement grid, penetration, plaster, and paint. Smaller size allows for more flexibility to bending surface compared to Isover TF slabs and perpendicular fibres orientation allow the uneven surfaces to be ground. There are lesser requirements for the mechanical bond due to full gluing (see manufacturers of the ETICS system anchors for recommended bond plans).

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Declared thermal resistance R_d ($m^2 \cdot K \cdot W^{-1}$)
Isover NF 333 2	20	1000 x 333	0.45
Isover NF 333 3	30	1000 x 333	0.70
Isover NF 333 4	40	1000 x 333	0.95
Isover NF 333 5	50	1000 x 333	1.20
Isover NF 333 6	60	1000 x 333	1.45
Isover NF 333 7	70	1000 x 333	1.70
Isover NF 333 8	80	1000 x 333	1.95
Isover NF 333 10	100	1000 x 333	2.40
Isover NF 333 12	120	1000 x 333	2.90
Isover NF 333 14	140	1000 x 333	3.40
Isover NF 333 15	150	1000 x 333	3.65
Isover NF 333 16	160	1000 x 333	3.90
Isover NF 333 18	180	1000 x 333	4.35
Isover NF 333 20	200	1000 x 333	4.85
Isover NF 333 22	220*	1000 x 333	5.35
Isover NF 333 24	240*	1000 x 333	5.85
Isover NF 333 26	260*	1000 x 333	6.30
Isover NF 333 28	280*	1000 x 333	6.80
Isover NF 333 30	300*	1000 x 333	7.30

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.* Minimum volume to be consulted with the manufacturer.

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
THERMAL INSULATING PROPERTIES			
Condition set for declared values $I(10^\circ C)$ and (u_{div})	-	-	ČSN EN ISO 10456
Declared thermal conductivity coefficient λ_D	$W \cdot m^{-1} \cdot K^{-1}$	0.041	ČSN EN 12667
Specific heat capacity c_d	$J \cdot kg^{-1} \cdot K^{-1}$	900	ČSN 73 0540-3
MECHANICAL PROPERTIES			
Compressive stress at 10% deformation (σ_{10}) CS(10)	kPa	≥ 30	ČSN EN 826
Perpendicular tensile strength (σ_{mt}) TR	kPa	≥ 80	ČSN EN 1607
Shearing strength	kPa	> 20	EN 12090
Shear modulus	kPa	> 1000	-
Specific load value	$kN \cdot m^{-3}$	0.88	ČSN EN 1991-1-1, ČSN EN 1990
Dimensional stability at temperature $(70 \pm 2)^\circ C$ and relative humidity $(90 \pm 5)\%$ DS(TH)	%	≤ 1	ČSN EN 1604
FIRE SAFETY PROPERTIES			
Reaction to fire class	-	A1	ČSN EN 13501-1
Maximum temperature for use	$^\circ C$	200	-
Melting temperature t_f	$^\circ C$	≥ 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)	$kg \cdot m^{-2}$	1/3	ČSN EN 1609, ČSN EN 12087

It meets the ČSN EN 13500 standard requirements as MW insulation used in ETICS. It also meets ETAG 004 and TP CZB 05-2007 Quality Class A. 1. 2. 2011 The information is valid up to date of publishing. The manufacturer reserves right to change the data.

PACKAGING, TRANSPORT, WAREHOUSING

Isover NF 333 insulation slabs are packed into the PE foil covered packets or as the packets on a pallet. The slabs have to be transported and stocked under conditions preventing their wetting or other degradation. Thicknesses 260, 280 and 300 are available only as goods in bulk.

BENEFITS

- 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.

RELATED DOCUMENTS

- EC compliance certificate 1390-CPD-0292/11/P
- CSI AZL č. 1007.4, AZL č. 1007.6, AZL č.1007.7