



Isover NF 333

Stone wool insulation

TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool with perpendicular fibres. The production is based on the defibring method used for the mineral composition of the melt with other additives and ingredients. The mineral fibres that are produced processed into the final slab shape on the production line. The entire surface of the fibre is hydrophobic and the fibres are perpendicular to the wall plane. The slabs in the construction have to be suitably protected (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 slab size and perpendicular orientation of fibres enables matching to curved surfaces. Furthermore, there is the possibility to regrind slab surface for keeping its face smooth. There are lesser requirements the for mechanical bond due to full gluing (see manufacturers of the ETICS system anchors for recommended bond plans). Upon agreement can be produced thickness. insulation up to 340 mm.

PACKAGING, TRANSPORT, WAREHOUSING

Insulation slabs are packed in PE film in loose bales or as bales on pallet. Isover NF 333 is supplied as standard on EPS beams including interleaving beams. Thicknesses above 300 mm are only available as loose slabs on a pallet.

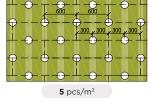
BENEFITS

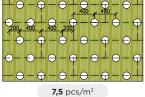
- Up to 40% faster workability because of the slab dimensions 1200 × 333 mm compared to normal strips and low consumption of anchors.
- High tensile strength (possibility of gluing heavy ceramic facings, possibility of use on ceilings).
- Possibility of bending the slabs on round walls.
- Lower demands on mechanical anchoring.
- Good thermal insulation performance.
- Fire resistance.
- Low vapour resistance good water vapour penetrability.
- Environment-friendly and hygienic.
- Completely hydrophobic.
- Excellent acoustic properties in terms of noise absorption.
- Long life span.
- Resistant to wood-destroying pests, rodents, and insects.
- Easy workability can be cut, drilled into, glued, brushed, etc.

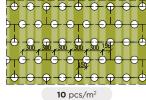
ANCHORING

Anchoring scheme according to TZÚS recommendations (Technical and Testing Institute) and CZB (Guild for Building Insulation).

As a rule, it is anchored with facade dowels to with an extension plate \emptyset 140 mm or space-formed dowels which allowto provide the anchor point with a plug.







DIMENSIONS AND PACKAGING

Thickness	Length × width	Volume per package			Quantity per pallet	Quantity per pallet	Declared thermal resistance		
[mm]	[mm]	[pcs]	[pcs] [m²] [m³]		[pcs]	[m²]	\mathbf{R}_{D} [m ² ·K·W ⁻¹]		
30	1 200 × 333	20	8.00	0.240	12	95.99	0.75		
40	1 200 × 333	15	6.00	0.240	12	71.99	1.00		
50	1 200 × 333	12	4.80	0.240	12	57.59	1.25		
60	1 200 × 333	8	3.20	0.192	15	48.00	1.50		
80	1 200 × 333	6	2.40	0.192	15	36.00	2.00		
100	1 200 × 333	6	2.40	0.240	12	28.80	2.50		
120	1 200 × 333	4	1.60	0.192	15	24.00	3.00		
140	1 200 × 333	3	1.20	0.168	18	21.60	3.50		
150	1 200 × 333	4	1.60	0.240	12	19.20	3.75		
160	1 200 × 333	3	1.20	0.192	15	18.00	4.00		
180	1 200 × 333	3	1.20	0.216	15	18.00	4.50		
200	1 200 × 333	3	1.20	0.240	12	14.40	5.00		
220	1 200 × 333	2	0.80	0.176	18	14.40	5.50		
240	1 200 × 333	2	0.80	0.192	15	12.00	6.00		
260*	1 200 × 333	2	0.80	0.208	15	12.00	6.50		
280*	1 200 × 333	1	0.40	0.112	27	10.80	7.00		
300*	1 200 × 333	2	0.80	0.240	12	9.60	7.50		

^{*} Consult the producer for terms of delivery. Upon agreement can be produced thickness. Insulation up to 340 mm.



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TECHNICAL PARAMETERS

Parameter	Unit	Methodology			Valu	ıe	Designation code					
Geometric shape												
Length /	[%, mm]		EN 822		±19	6						
Width b	[%, mm]	EN 822			±1,5	%						
Thickness d	[%, mm]	EN 823			-1 % or -1 and +3		Class of thickness tolerances				T5	
Deviation from squareness of the edge on length and width S.	[mm·m ⁻¹]	EN 824			2							
Deviation from flatness S _{max}	[mm]	EN 825			5							
Relative change in length $\Delta \varepsilon_b$, in width $\Delta \varepsilon_b$, n thickness $\Delta \varepsilon_d$	[%]	EN 1604			1		Dimensional stability under the specified temperature and humidity conditions				DS(70/9	
Thermal technical properties												
Declared value of thermal conductivity coefficient λ_0^{2j}	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667			0.04	10						
Design thermal conductivity $\lambda_u^{(3)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			0.04	12						
pecific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			800							
1echanical properties	2, 3											
Compressive stress at 10% deformation $\sigma_{_{10}}$	[kPa]	Declaration according to EN 826			40)	Declared level of compressive stress at 10% deformation				CS(10)-	
Tensile strength perpendicular to faces σ_{mt}	[kPa]	Declaration according to EN 1607			80)	Declared level of tensile strength perpendicular to faces			า	TR80	
Shear strength τ	[kPa]	Declaration according to EN 12090			204	1)	Level of shear strength				SS20	
he point load at a given deformationi F_p	[N]	Declaration according to EN 12430			1000	O ⁴⁾						
ire safety properties												
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1			A1							
laximum temperature for use	[°C]				200	0						
Nelting temperature t_t	[°C]	DIN 4102 part 17			≥ 100	00						
lydrothermal properties												
Short-term water absorption $W_{\scriptscriptstyle p}$	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 1609			1	Declared level for short-term water absorption				WS		
ong-term water absorption		Declaration according to EN 13162+A1 Measurement according to EN 12087		3		Declared level for long-term water			er	WL(P		
by partial immersion W_{lp}	[kg·m ⁻²]					absorption by partial immersion						
		Declaration according to EN 13162+A1			1		Declared value for water vapour diffusion			usion	MU1	
Nater vapour diffusion resistance factor μ	[-]	Measurement according to EN 12086		086	1		resistance factor				MUI	
Other properties												
Density	[kg·m ⁻³]	E	EN 1602		80-9	90						
Acoustic properties												
		EN 13162+A1										
	[-]	EN ISO 11654			Level		of practical sound absorption coefficient				AP	
		Measurement according to EN ISO 354										
Practical sound absorption coefficient $a_{_{p}}$	Frequency		125 Hz	250		500 Hz		0 Hz	2000 Hz		4000 Hz	
		60 mm	0.20	0.7		1.00		00	0.95		0.95	
	Thickness	100 mm	0.45	1.0		1.00		00	1.00		1.00	
		140 mm	0.65	1.0	0	1.00	1.	00	1.00		1.00	
	[-]	EN ISO 11654 (for NRC according ASTM C423)			Level c		of weighted sound absorption coefficie				AW	
Veighted sound absorption coefficient $a_{_{\scriptscriptstyle w}}$	Single number va		(for NRC according ASTM C423)				a _{stř}			NCR		
ound Absorption Average a_{st}	Single number va	60 mm 0.95		-				0.90				
oise reduction coefficient NRC	Thickness	100 mm 1.00				-			1.00			
		140 mm 1.00					-		1.00			
		EN 13162+A1					Level of air flow resistivity		1.00			
pecific air flow resistivity r	[mm]			cording to EN ISO 9053-1		1205)	140 ⁵⁾	150 ⁵⁾	160	1805)	200	
,	[kPa·s·m ⁻²]	Measurement	according to EN IS			11.5	11.5	11.5	11.5	11.5	11.5	
	[MN·m-3]				11.5	11.5	Value of dyna		5	11.0	SD	
	[mm]	EN 13162+A1 Measurement according to ĈSN ISO 9052-1 (idt. EN 29052-1			100	1205)	140 ⁵⁾	150 ⁵⁾	160	1805)	200	
Dynamic rigidity s'												
	[MN·m ⁻³]				81.5	73.4	65.4	61.3	57.3	49.2	41.2	

¹⁾ Value with greatest numerical tolerance.

RELATED DOCUMENTS

- Declaration of Performance
- Certificate of constancy of performance
- Quality class A
- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

More about the product

www.isover.cz/en/products/isover-nf-333



2/1/2025 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

³ Valid for typical use in construction with risk of condensation. In the case of construction without any risk of condensation, it is possible to use the declared value of thermal conductivity.

4) Informative non-declared value beyond the scope of CPR, obtained by specific tests.

⁵⁾ Interpolated and extrapolated values.