

# Isover Multiplat 34 NT

Mineral fibreglass insulation



## TECHNICAL SPECIFICATION

Insulation slabs made of Isover fibreglass wool with black non-woven fibreglass tissue. The production is based on the drawing of a melt of glass and other additives and ingredients. The produced mineral fibres are then shaped into slabs on the production line. The entire fibre surface is hydrophobic. The slabs in the construction should be suitably protected against the weather (outer sheathing, alternatively diffusion foil).



## APPLICATION

Isover Multiplat 34 NT slabs are suitable for insulation of outer walls of ventilated facade systems and are to be inserted into the grid under the cladding or fitted mechanically in the multi-layer masonry. The slabs can be fitted mechanically using clamps for soft MW insulation. Insulating slabs are not glued to the surface. When using Isover Multiplat 34 NT to insulate ceilings, it is also necessary to think about the possibility of using metal anchors with respect to fire security. These cannot be placed at the end of the slabs.

## PACKAGING, TRANSPORT, WAREHOUSING

Isover Multiplat 34 NT insulation slabs are packed into the PE film with a package height up to 0.5 m. They come in MPS packs. Packages have to be transported in covered vehicles under conditions preventing their wetting or other degradation. The products are stored indoors or outdoors depending on the conditions specified in the current Isover price list.

## BENEFITS

- Fire resistance.
- 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 insects.
- Easy workability – can be cut, drilled into, etc.
- Dimensional stability during temperature change.

## DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per pallet [m <sup>2</sup> ]	Declared thermal resistance R <sub>D</sub> [m <sup>2</sup> ·K·W <sup>-1</sup> ]
		[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]		
100	1200 × 600	10	7.20	0.21	144.00	2.90
120	1200 × 600	8	5.76	0.21	115.20	3.50
140	1200 × 600	6	4.32	0.21	86.40	4.10
160	1200 × 600	6	4.32	0.21	86.40	4.70
180	1200 × 600	4	2.88	0.21	57.60	5.25
200	1200 × 600	4	2.88	0.21	57.60	5.85

\* Consult with producer for terms of delivery.

## TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
<b>Geometric shape</b>				
Length <i>l</i>	[% , mm]	EN 822	±2%	
Width <i>b</i>	[% , mm]	EN 822	±1,5%	
Thickness <i>d</i>	[% , mm]	EN 823	-5% or -5 mm <sup>1)</sup> and +15 mm or +15 mm <sup>2)</sup>	Class of thickness tolerances T5
Deviation from squareness of the edge on length and width <i>S<sub>e</sub></i>	[mm·m <sup>-1</sup> ]	EN 824	5	
Deviation from flatness <i>S<sub>max</sub></i>	[mm]	EN 825	6	
Relative change in length $\Delta\epsilon_l$ , in width $\Delta\epsilon_b$ , in thickness $\Delta\epsilon_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions DS (70/90)

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Parameter	Unit	Methodology	Value	Designation code	
<b>Thermal technical properties</b>					
Declared value of thermal conductivity coefficient $\lambda_D$ <sup>3)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.034		
Design thermal conductivity $\lambda_D$ <sup>4)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	0.037		
Specific heat capacity $c_D$	[J·kg <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	840		
<b>Fire safety properties</b>					
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1		
Maximum temperature for use	[°C]		200		
Melting temperature $t_f$	[°C]	DIN 4102 part 17	< 1000		
<b>Hydrothermal properties</b>					
Short-term water absorption $W_p$	[kg·m <sup>-2</sup> ]	Declaration according to EN 13162+A1 Measurement according to EN 1609	1	Declared level for short term water absorption	WS
Long-term water absorption by partial immersion $W_{fp}$	[kg·m <sup>-2</sup> ]	Declaration according to EN 13162+A1 Measurement according to EN 12087	3	Declared level for long term water absorption by partial immersion	WL(P)
Water vapour diffusion resistance factor $\mu$	[-]	Declaration according to EN 13162+A1 Measurement according to EN 12086	1	Declared value for water vapour diffusion resistance factor	MU1
<b>Other properties</b>					
Density	[kg·m <sup>-3</sup> ]	EN 1602	17		
<b>Acoustic properties</b>					
Specific air flow resistivity $r$	[kPa·s·m <sup>-2</sup> ]	Declaration according to EN 13162+A1 Measurement according to EN ISO 9053-1		Level of air flow resistivity ≥ 5	AFr
<b>Environmental properties / impacts</b>					
Volume of pre-consumer recycled content for production	[%]	ČSN ISO 14021	-		
Volume of post-consumer recycled content for production	[%]	ČSN ISO 14021	-		
Non-hazardous waste disposed <sup>5)</sup>	[kg /FU <sup>6)</sup> ]	EN 15804+A1, ČSN ISO 14025	0.688	NHWD	
Total use of non-renewable primary energy resources	[MJ /FU]	EN 15804+A1, ČSN ISO 14025	66.9	PENRT	
Global warming potential	[kg CO <sub>2</sub> ekv. /FU]	EN 15804+A1, ČSN ISO 14025	3.49	GWP	
Ozone depletion	[kg CFC 11 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	1.08 E-07	ODP	
Acidification potential	[kg SO <sub>2</sub> ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0341	AP	
Eutrophication potential	[kg PO <sub>4</sub> <sup>3-</sup> ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00312	EP	
Photochemical ozone creation	[kg C <sub>2</sub> H <sub>4</sub> ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00888	POPC	
Abiotic depletion potential for non-fossil resources	[kg Sb ekv. /FU]	EN 15804+A1, ČSN ISO 14025	2.71 E-06	ADP-elements	
Abiotic depletion potential for fossil resources	[MJ (Calorific value) /FU]	EN 15804+A1, ČSN ISO 14025	68.3	ADP-fossil fuels	

<sup>1)</sup> Whichever gives the greatest numerical tolerance.

<sup>2)</sup> Whichever gives the smallest numerical tolerance.

<sup>3)</sup> Declared values were set under the following conditions (reference temperature 10°C, humidity  $u_{dry}$ , which is reached by drying) according EN ISO 10456.

<sup>4)</sup> 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.

<sup>5)</sup> In this case it is standard mixed waste.

<sup>6)</sup> FU = functional unit (1 m<sup>2</sup> of insulation by 100 mm thick for live cycle phases A1-A3).

## RELATED DOCUMENTS

- Declaration of Performance 144-WS2-DoP-14-w1
- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001

6. 6. 2023 The information is valid at the time of printing. The manufacturer reserves the right to change the data.