

# Isover Panel Płyta Plus

## (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 Panel Płyta Plus 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 Panel Płyta Plus 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 Panel Płyta Plus 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

#### 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 Δε <sub>l</sub> , in width Δε <sub>b</sub> , in thickness Δε <sub>d</sub>	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions DS (70/90)

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<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

<sup>1)</sup> Value with greatest numerical tolerance.

<sup>2)</sup> Value with lowest numerical tolerance.

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

## RELATED DOCUMENTS

- Declaration of Performance
- ISO 9001, ISO 14001, ISO 45001

## More about the product

[www.isover.cz/en/products/isover-multiplat-34-nt](http://www.isover.cz/en/products/isover-multiplat-34-nt)



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