

# Isover T-P

## Stone wool insulation



### TECHNICAL SPECIFICATION

Insulating slabs made of Isover mineral wool. The production is based on the defibring method of the mineral 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. The slabs in the construction have to be protected suitably (vapour-proof foil, layers of the floor construction, etc.)



### APPLICATION

Precisely cut slabs used in light and heavy floating floors in combination with Isover N/PP insulating strips. There are high quality demands in case of underlay surface of the dry floating floors on which the precise cut slabs are laid. Thanks to its high accuracy and minimum compressibility these slabs are applicable even in the thin anhydrite floors. Maximum imposed load for this insulation is 5 kN/m<sup>2</sup>.

### PACKAGING, TRANSPORT, WAREHOUSING

Isover T-P insulation slabs are packed into the PE foil with package height up to 0.5 m. The slabs have to be transported in covered vehicles under conditions preventing their wetting or other degradation. They should be stored flat in sheltered space to maximum layer height of 2 m.

### BENEFITS

- Very good thermal insulation performance.
- Fire resistance.
- 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.

### 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> ]		
20	1200 × 600	10	7.20	0.14	86.40	0.50
25	1200 × 600	8	5.76	0.14	69.12	0.65
30	1200 × 600	7	5.04	0.15	60.48	0.80
40	1200 × 600	6	4.32	0.17	43.20	1.05
50	1200 × 600	4	2.88	0.14	34.56	1.35

### TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Geometric shape					
Length <i>l</i>	[% , mm]	EN 822	±2%	Class of thickness tolerances	T7
Width <i>b</i>	[% , mm]	EN 822	±1,5%		
Thickness <i>d</i>	[% , mm]	EN 823	0 mm and +10 % or +2 mm <sup>1)</sup>		
Deviation from squareness of the edge on length and width <i>S<sub>b</sub></i>	[mm·m <sup>-1</sup> ]	EN 824	5		
Deviation from flatness <i>S<sub>max</sub></i>	[mm]	EN 825	6		
Thermal technical properties					
Declared value of thermal conductivity coefficient $\lambda_D$ <sup>2)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	Declaration according to EN 13162+A1	0.037		
		Measurement according to EN 12667			
Design thermal conductivity $\lambda_D$ <sup>3)</sup>	[W·m <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	0.038		
Specific heat capacity <i>c<sub>d</sub></i>	[J·kg <sup>-1</sup> ·K <sup>-1</sup> ]	ČSN 73 0540-3	800		
Mechanical properties					
Compressibility <i>c</i>	[mm]	Declaration according to EN 13162+A1	≤ 2	Declared level for compressibility Declared level of tensile strength perpendicular to faces	CP2
		Measurement according to ČSN 12431			
Compressive stress at 10% deformation $\sigma_{10}$	[kPa]	Declaration according to EN 826	40	Declared level of compressive stress at 10% deformation	CS(10)40
The point load at a given deformation <sup>1)</sup> <i>F<sub>p</sub></i>	[N]	Declaration according to EN 12430	400	Declared level of point load for 5 mm deformation	PL(5)400

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## TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code				
Fire safety properties								
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					
Hydrothermal properties								
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				
Acoustic properties <sup>4)</sup>								
Dynamic stiffness $s'$		Declaration according to EN 13162+A1	Declared value of dynamic rigidity					SD
	[mm]		20	25	30	40	50	
	[MN·m <sup>-3</sup> ]	Measurement according to ČSN ISO 9052-1 (idt. EN 29052-1)	30.9	26.7	25.6	20.8	19.1	
Additional acoustic properties								
	[mm]		20	25	30	40	50	
Decrease the level of impact noise $\Delta L_w$ <sup>5)</sup>	[dB]	EN ISO 717-2	-	22	-	-	-	
Compressibility $K$	[%]	ČSN 730532	2.8	1.9	1.7	1.7	1.1	
Elasticity $\epsilon$	[%]	ČSN 730532	88.7	83.5	85.9	87.1	85.4	
Loss factor $\eta$	[-]	ČSN ISO 9052-1	0.11	0.09	0.09	0.09	0.09	
Other properties								
Density	[kg·m <sup>-3</sup> ]	EN 1602	145-155					

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

<sup>2)</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>3)</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>4)</sup> Informative non-declared value beyond the scope of CPR, obtained by specific tests.

<sup>5)</sup> Determined by a calculation made for a heavy floating floor upon a standard 120 mm reinforced concrete ceiling slab and 40 mm anhydrite screeding.

## RELATED DOCUMENTS

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

### More about the product

[www.isover.cz/en/products/mineralni-vlna/isover-t-p](http://www.isover.cz/en/products/mineralni-vlna/isover-t-p)



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