

Isover Tank Roof Slab 50 kPa

Slab



PRODUCT DESCRIPTION

Isover Tank Roof Slab 50 kPa is very strong and rigid slab.



APPLICATION

Isover Tank Roof Slab 50 is a slab with very high density used as thermal, acoustic and fire protective insulation of flat tank roofs. The slab was specifically designed to fulfill the highly demanding requirements of CINI 2.2.01 and SSG 7591 making it strong enough to withstand normal walking loads during installation and maintenance (compressive strength 50 kPa).

Despite the fact that hydrophobing additives in the insulation impede the ingress of water, it is necessary to protect the slab in the construction against moisture and possible mechanical damage by a proper manner.

Isover Tank Roof Slab 50 has a maximum service temperature of 700 °C according to EN 14706. Binders and greasing agents in mineral wool products dissolve and evaporate in areas with temperatures > 150 °C. In the outer, colder areas, no dissolution and evaporation take place.

BENEFITS

- Suitable for industrial tank roofs. It is strong enough to withstand walking load during installation and maintenance (minimum compressive strength resistance 50 kPa).
- Very good insulation performance.
- Extremely high temperature operation (up to 700 °C MST).
- Easy to handle, easy to cut with a sharp knife.
- Environmentally friendly and hygienic.

PACKAGING, TRANSPORT, WAREHOUSING

The product is supplied as packages on a pallet. Slabs must be stored in covered places under such conditions to avoid moistening or other degradation.

DIMENSIONS AND PACKAGING

Thickness [mm]	Dimensions [mm]	Packages on a pallet			
		m ² / Pallet	m ² / Package	Package/ Pallet	Slabs / Package
60	600 × 1200	30.24	2.16	14	3
80	600 × 1200	21.60	2.16	10	3
100	600 × 1200	17.28	1.44	12	2
120	600 × 1200	14.40	1.44	10	2
140	600 × 1200	11.52	1.44	8	2

Minimal volume need to be consulted with a producer.

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TECHNICAL PARAMETERS

Parameter	Unit	Value				Standard				
Thermal technical properties										
Declared value of the thermal conductivity coefficient λ_p according to EN ISO 13787	°C	50	100	150	200	300	400	500	600	700
	W·m ⁻¹ ·K ⁻¹	0,043	0,048	0,055	0,063	0,083	0,110	0,143	0,182	0,227
Maximum service temperature ST(+)	°C	700				EN 14706				
Specific heat capacity c_p *	J·kg ⁻¹ ·K ⁻¹	800				-				
Physical properties										
Density*	kg·m ⁻³	125-160				EN 1602, EN 13470				
Short-term water absorption (W_p) WS	kg·m ⁻²	<< 1				EN ISO 29767				
Longitudinal air-flow resistance Ξ *	kPa·s·m ⁻²	> 50				EN ISO 9053-1				
Mechanical properties										
Compressive stress at 10 % deformation (σ_{10}) CS(10)	kPa	≥ 50				EN 826				
Fire safety properties										
Reaction to fire	-	A1				EN 13501-1				
Melting temperature t_t *	°C	≥ 1000				DIN 4102 part 17				

* Informative non-declared value beyond scope of CPR, obtained by concrete tests.

1/11/2023 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.