

Specification code: MW - EN 14303 - T5 - ST(+)720 - CS(10)80 - WS1 - CL10

Isover Tank Roof Slab 80 kPa

BENEFITS

Slab of mineral wool

The slab fulfils the the requirements of SSG 7591

for a top layer of storage tank roof insulation.

Easy to handle, easy to cut with a sharp knife. AS quality - suitable for use over stainless steel.

Very good insulation performance.

Extremely high temperature operation.



Isover Tank Roof Slab 80 is a strongest and the most rigid slab from Isover production.



APPLICATION

Isover Tank Roof Slab 80 is a slab with very high density used as thermal, acoustic and fire protective insulation of flat tank roofs (usually as a top layer in multiple layer systems) and for special technological applications. The slab fulfils the requirements of SSG 7591 for a top layer of storage tank roof insulation. The compressive strength of Isover Tank Roof Slab 80 is higher than 80 kPa, making it strong enough to withstand normal walking loads during installation and maintenance.

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 80 has a maximum service temperature of 720 °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.

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	Dimensions	Packages on a pallet						
[mm]	[mm]	m² / Pallet	m² / Package	Package/ Pallet	Slabs / Package			
20	500 × 1000	60	5	12	10			
40	500 × 1000	30	3	10	6			

Minimal volume need to be consulted with a producer.

TECHNICAL PARAMETERS

Parameter	Unit	Value			Standard						
Thermal technical properties											
Declared value of the thermal conductivity coefficient λ_p	°C	50	100	150	200	250	300	400	500	600	700
according to EN ISO 13787	W·m ⁻¹ ·K ⁻¹	0.044	0.049	0.054	0.061	0.068	0.076	0.096	0.119	0.146	0.183
Measured value of the thermal conductivity coefficient according to EN 12667*	$W \cdot m^{-1} \cdot K^{-1}$	0.044	0.048	0.053	0.059	0.066	0.073	0.091	0.113	0.138	0.173
Maximum service temperature ST(+)	°C			720			EN 14706				
Specific heat capacity $c_{\scriptscriptstyle ho}^{\;\;*}$	J·kg ⁻¹ ·K ⁻¹			800			-				
Physical properties											
Density*	kg·m⁻³			190			EN 1602, EN 13470				
Short-term water absorption (W_p) WS	kg⋅m ⁻²			<< 1			EN ISO 29767				
Longitudinal air-flow resistance =*	kPa·s·m ⁻²			> 90			EN ISO 9053-1				





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Parameter			Unit	Value			Standard				
Mechanical properties											
Compressive stress at 10 % deformation (σ_{10}) CS(10)			kPa	≥ 80			EN 826				
Fire safety properties											
Reaction to fire			-		A1		EN 13501-1				
Melting temperature t_t^*			°C		≥ 1 000		DIN 4102 part 17				
Acoustic properties											
Acoustic absorption coefficient a_p for	Frequency		Hz	125	250	500	1000	2 000	4 000		
perpendicular impact of acoustic waves (-) according to EN ISO 354	Thickness	20	mm	0.05	0.30	0.65	0.80	0.85	1.00		
and EN ISO 11654*		40	mm	0.35	0.70	0.80	0.75	0.80	0.85		
Definition of single numerical value according to EN ISO 11654*	Weighted sour		_ a _w				Absorption class				
	Thickness	20	mm	0.60) (H)		C				
		40	mm	0.	80		В				

 $^{^{\}ast}$ Informative non-declared value beyond scope of CPR, obtained by concrete tests.