

Isover Pyro

Slab

PRODUCT DESCRIPTION

Isover Pyro is a strongest and the most rigid slab from Isover production.



APPLICATION

Isover Pyro is used as a part of the certified ORDEXAL multifunctional fire safety system for the protection of building structures, developed by J.SEIDL & spol., s.r.o. for the protection of building structures. Detailed information is available at www.seidl.cz. 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.

BENEFITS

- Part of the fire-resistant ORDEXAL system by J.Seidl & spol., s.r.o. (www.seidl.cz)
- Easy to handle, easy to cut with a sharp knife.

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]
20	500 × 1 000
40	500 × 1 000
60	500 × 1 000
100	500 × 1 000

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_D (based on the set of measured values according to EN 12667)	$W \cdot m^{-1} \cdot K^{-1}$	0.039	EN 13162
Specific heat capacity c_p^*	$J \cdot kg^{-1} \cdot K^{-1}$	800	ČSN 73 0540-3
Physical properties			
Density*	$kg \cdot m^{-3}$	190	EN 1602, EN 13470
Short-term water absorption (W_p) WS	$kg \cdot m^{-2}$	<< 1	EN ISO 29767
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_f^*	°C	≥ 1 000	DIN 4102 part 17
Acoustic properties			
Acoustic absorption coefficient α_p for perpendicular impact of acoustic waves (-) according to EN ISO 354 and EN ISO 11654*	Frequency	Hz	125 250 500 1 000 2 000 4 000
	Thickness	20 mm	0.05 0.30 0.65 0.80 0.85 1.00
		40 mm	0.35 0.70 0.80 0.75 0.80 0.85
		60 mm	0.65 0.80 0.80 0.85 0.90 1.00
Definition of single numerical value according to EN ISO 11654*	Weighted sound absorption coefficient		- a_w Absorption class
	Thickness	20 mm	0.60 (H) C
		40 mm	0.80 B
		60 mm	0.85 (H) B

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

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