

U Protect Slab 4.0 Alu1

Slab of mineral wool



PRODUCT DESCRIPTION

The plate with black aluminum adhesive U Protect Slab 4.0 Alu1 is part of ULTIMATE stone wool.



APPLICATION

The U Protect Slab 4.0 Alu1 is certified as part of the ULTIMATE Protect fire protection system for fire-resistant ducts according to EN 1366-1 (fire resistance 30, 45, 60, 90 and 120 minutes) and for heat and smoke extraction ducts according to EN 1366-8 (fire resistance 60 minutes). Details are given in the system technical data sheet.

The slab can also be used for other applications, it is particularly suitable for HVAC ducts and technological equipment. The product is compressible and is therefore not suitable for installation in areas with mechanical stress.

Despite the fact, that the fibres of the insulation are hydrophobised, the slab must be protected against moisture (weathering in the exterior) and possible mechanical damage in the construction. When high temperature and vibration load are combined, the manufacturer recommends considering a slab with a higher density (min. 110 kg/m³), or a wired mats.

Maximum service temperature according to EN 14706 is 400 °C. In the case of coated slab, the insulation thickness must be chosen so that the temperature on the coated side does not exceed 100 °C. In the part of the insulation that is exposed to temperatures above 150 °C, there is a one-time evaporation of the binder. This phenomenon does not occur in lower temperatures areas.

BENEFITS

- U Protect Slab 4.0 Alu1 slabs are part of the fire protection system for fire-resistant ducts ULTIMATE Protect according to EN 1366-1 with classification up to EI 120 S (rectangular ducts A – fire from the outside and ducts B – fire from inside and outside) and rectangular heat and smoke extraction ducts according to EN 1366-8 with classification EI 30 multi 1500 S and EI 60 multi 500 S.
- Excellent insulation performance.
- Excellent processability and fast assembly.

PACKAGING, TRANSPORT, WAREHOUSING

Product is delivered as packages on a pallet. Material has to be transported in covered vehicles under such conditions to avoid moistening or other degradation.

DIMENSIONS AND PACKAGING

Thickness [mm]	Dimensions [mm]	Slabs per package [pcs]	Per package [m ²]	Package/ Pallet [pcs]	Quantity per pallet [m ²]
30*	600 × 1 200	13	9.36	12	112.32
40*	600 × 1 200	10	7.20	12	86.40
50	600 × 1 200	8	5.76	12	69.12
60	600 × 1 200	6	4.32	12	51.84
80	600 × 1 200	5	3.60	12	43.20
100*	600 × 1 200	4	2.88	12	34.56

*Minimal volume need to be consulted with a customer service.

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TECHNICAL PARAMETERS

Parameter	Unit	Value				Standard			
Thermal technical properties									
Declared value of the thermal conductivity coefficient λ_D according to EN ISO 13787	°C	50	100	150	200	250	300	400	
	W·m ⁻¹ ·K ⁻¹	0.035	0.040	0.047	0.054	0.062	0.072	0.096	
Maximum service temperature ST(+) / on the aluminium side	°C	400 / max. 100				EN 14706			
Specific heat capacity c_p *	J·kg ⁻¹ ·K ⁻¹	1 000				-			
Physical properties									
Density*	kg·m ⁻³	66				EN 13470			
Short-term water absorption (W_p) WS	kg·m ⁻²	<< 1				EN ISO 29767			
Fire safety properties									
Reaction to fire	-	A1				EN 13501-1			

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

More about the product

www.isover.cz/en/products/ultimate/u-protect-slab-40-alu1



1/2/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.