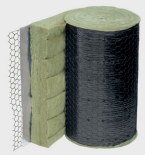
Specification code: MW – EN 14303 – T2 – ST(+)400

U Protect Wired Mat 4.0 Alu1

Mesh mat



PRODUCT DESCRIPTION

The mesh mat with black aluminum foil U Protect Wired Mat 4.0 Alu1 is made of ULTIMATE stone wool.

APPLICATION

The U Protect Wired Mat 4.0 Alu1 is certified as part of the ULTIMATE Protect fire protection system for fire-resistant ducts according to EN 1366-1 (fire resistence 30, 45, 60, 90 and 120 minutes). Details are given in the system technical data sheet. Wired Mat can also be used for other applications, it is particularly suitable for technological equipment.

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.

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 Wired Mat 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]	Rolls / Package [pcs]	Per package [m²]	Package/ Pallet [pcs]	Quantity per pallet [m²]
50	2 × 600 × 6 000	2	7.20	18	129.60
70	2 × 600 × 4 300	2	5.16	18	92.88
80	2 × 600 × 3 700	2	4.44	18	79.92
100	2 × 600 × 3 000	2	3.60	18	64.80

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Mesh mat

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
	$W \cdot m^{-1} \cdot K^{-1}$	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*	$J \cdot kg^{-1} \cdot K^{-1}$	1 000			-			
Physical properties								
Density*	$kg \cdot m^{-3}$	66			EN 13470			
Short-term water absorption (W_p) WS	$kg \cdot m^{-2}$	<< 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-wired-mat-40-alu1

1/9/2026 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

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