



U Protect Wired Mat 4.0

HVAC Insulation

U Protect, solutions for fire resistant ducts

ISOVER solutions for providing fire resistance in HVAC applications by using high performing ULTIMATE mineral wool. Solutions in this brochure are designed for providing fire resistance in to metal ducts and smoke extraction ducts.



Fire protection

ULTIMATE provides effective fire resistance, but also very good performance in reaction to fire.



Acoustic insulation

Improved acoustic comfort due to its excellent sound absorption and sound insulation properties.



Thermal insulation

Excellent thermal insulation combined with unique efficiency.



Fast Installation

ISOVER industrial insulation materials are designed for ease and speed of installation.



Please, ask your local ISOVER desk to provide country certificates



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Characteristic	Symbol	Unit	Quantities and measured values							Standard
Application fields	-	-	ISOVER solutions for providing fire resistance in HVAC using ULTIMATE mineral wool. U Protect solutions provide an easy to install and lightweight efficient solution for fire resistance in HVAC.							EN 1366-1 EN 1366-8
Material	-	-	Mineral wool with quality mark RAL by the Gütegemeinschaft Mineralwolle e. V., unrisky regarding health according to German decree on dangerous substances, decree on prohibition of chemicals and to guideline EU 97/69 Nota Q.							-
Thermal conductivities	T	[°C]	10	50	100	150	200	250	300	EN 12667
	$\lambda_{N,R}$	[W/(m·K)]	0.033	0.035	0.040	0.047	N.A.	N.A.	N.A.	
Thermal behaviour	-	-	Fire resistance of ventilation air ducts in fire classes EI15 - EI120. Installation guidelines must be followed and system components must be used (BSF, BSK and fire protection screws).							EN 13501
Behaviour in fire	-	-	Non-combustible Euroclass A1.							EN 13501
Specific thermal capacity	c	[kJ/(kg·K)]	~ 1							-
Acoustics	α	kPa·S/m ²	Sound absorption $\alpha_w = 1.00$ Specific Airflow resistance AFR = 48 (Measurement on naked product)							EN 11654 EN 29053
Chemical behaviour	-	-	AS-Quality. Hydrophobic. Silicone-free. Sulphide-free. Free of corrosion-supportive materials.							AGI Q 132
Facing	-	-	Product also available with following standard facings: Alu1: The product can be faced on one side with an aluminium foil reinforced with a grid. V1: The product can be faced on one side with a reinforced yellow glass tissue.							-
Quality management	-	-	CE-marked according to EN 14303. Quality control according to VDI 2055. ISOVER is certified according to EN ISO 9001 and EN ISO 14001.							EN ISO 14303 VDI 2055 EN ISO 9001 EN ISO 14001
Miscellaneous	-	-	CE-marking designation code: T2-ST(+)-620							-

Delivery form: Dimensions/Packaging								
Thickness (mm)	30	40	50	60	70	80	100	120
Width (mm)	600	600	600	600	600	600	600	600
Length (m)	10.0	7.5	6.0	5.0	4.3	3.7	3.0	2.6
m ² /pack	12.00	9.00	7.20	6.00	5.16	4.44	3.60	3.00
m ² /pal	216.0	162.0	129.6	108.0	92.9	79.9	64.8	54.0
Rolls/pck	2	2	2	2	2	2	2	2
Pck/pal	18	18	18	18	18	18	18	18

www.isover-technical-insulation.com

The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the concrete application. For further information please contact our Isover sales offices or Isover Dialog. We deliver only according to our terms of trade and terms of delivery.

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