



# U Protect Slab 4.0 Alu1

## 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 are designed for providing protection to air ducts and smoke extraction ducts. Installation guidelines must be followed and ISOVER Protect components must be used (BSF, BSK, Black Tape and fire screws).



#### 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 conductivity (declared values)	T	[°C]	10	50	100	150	200	300	400	EN 12667 EN ISO 13787
	λ	[W/(m·K)]	0.031	0.035	0.040	0.047	0.054	0.072	0.096	
Behaviour in fire	-	-	Fire reaction: Non-combustible Euroclass A1 Fire resistance of ventilation air ducts in fire classes EI15-EI120.							EN 1366
Specific thermal capacity	c	[kJ/(kg·K)]	~ 1							-
Acoustics	α	-	Sound absorption coefficient α <sub>w</sub> = 0.90							EN 11654
	-	kPa·S/m <sup>2</sup>	Specific Airflow resistance A <sub>Fr</sub> = 60 (measurement on non-faced product)							EN 29053
Chemical behaviour	-	-	Hydrophobic. Silicone-free. Sulphide-free.							AGI Q 132
Facing	-	-	U Protect Slab 4.0 Alu1 is available with a black aluminium facing. Also available: - Non-faced product (U Protect Slab 4.0). - V1 facing product (U Protect Slab 4.0 V1): faced on one side with a reinforced yellow glass tissue.							-
Water vapour permeability	-	-	MV2							-
Quality management	-	-	CE-marked according to EN 14303. ISOVER is certified according to EN ISO 9001 and EN ISO 14001.							EN ISO 14303 EN ISO 9001 EN ISO 14001
Miscellaneous	-	-	CE-marking designation code: MW-EN14303-T4-ST(+)400-MV2							-

Delivery form: Dimensions/Packaging								
Thickness (mm)	30	40	50	60	70	80	90	100
Width (mm)	600	600	600	600	600	600	600	600
Length (mm)	1200	1200	1200	1200	1200	1200	1200	1200
m <sup>2</sup> /pack	9.36	7.20	5.76	4.32	3.60	3.60	2.88	2.88
m <sup>2</sup> /pal	112.3	86.4	69.1	51.8	43.2	43.2	34.6	34.6
Slabs/pck	13	10	8	6	5	5	4	4
Pck/pal	12	12	12	12	12	12	12	12

[www.isover-technical-insulation.com](http://www.isover-technical-insulation.com)

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