

Product Data Sheet

Application: HVAC

ISOVER U PROTECT WIRED MAT 4.0 ALU1



High performance Ultimate™ wired mat for fire protection of circular ductwork.

Isover U Protect Wired Mat 4.0 Alu1 is a lightweight and easy to install Ultimate™ mineral wool wired mat. It combines all the advantages of conventional thermal insulation with Euroclass A1 fire classification and is a component of the Isover U Protect System.

The Isover U Protect system has been tested in accordance to EN 1366-1 and EN 1366-8 and assessed against the criteria in BS 476: Part 24. It offers up to 2 hours passive fire protection in HVAC ventilation and smoke extract ducts as well as up to 1 hour passive fire protection for kitchen ducts.

The fire resistance is also dependent on the application, thicknesses of insulation and the method of installation.

Please contact isover.technical@saint-gobain.com for further details.

Features and Benefits



Fire Protection

The Isover U Protect system has been tested in accordance to EN 1366-1 and EN 1366-8 and assessed against the criteria in BS 476: Part 24. It offers up to 2 hours passive fire protection in HVAC ventilation and smoke extract ducts as well as up to 1 hour passive fire protection for kitchen ducts.¹



Fire Classification

Achieves a Euroclass A1 Reaction to Fire classification, according to EN 13501-1.



Thermal Performance

Offers energy savings through helping to control temperatures and reduce heat loss or gain within ductwork.

Key Considerations

When using Isover U Protect Wired Mat 4.0 Alu1 you need to satisfy yourself that use of the product meets all relevant national Building Regulations and guidance as well as local, national and other applicable standards relevant for your construction or application, including requirements in relation to fire.

Please refer to the following product documents:

- Declaration of Performance - available at isover.co.uk/products/Isover-u-protect-wired-mat-4-alu1
- Safe Use Instruction Sheet - available at isover.co.uk/healthandsafety

Product Specification

Product code	Thickness (mm)	Length (m)	Width (m)	Roll area (m ²)	Packs per pallet	Weight per m ² (kg)	Pallet area (m ²)
5200864101	30	10.00	2 x 0.60	12.00	18	2.30	216.00
5200687131	50	6.00	2 x 0.60	7.20	18	3.60	129.60
5200687132	60	5.00	2 x 0.60	6.00	18	4.30	108.00
5200680831	75	4.00	2 x 0.60	4.80	18	5.30	86.40
5200687133	80	3.70	2 x 0.60	4.44	18	5.60	79.92
5200864775	90	3.30	2 x 0.60	3.96	18	6.30	71.28
5200687134	100	3.00	2 x 0.60	3.60	18	6.90	64.80
5200680832	120	2.50	2 x 0.60	3.00	18	8.30	54.00

Thermal Conductivity

Mean temp °C	10	50	100	150	200	300	400
Declared thermal conductivity (W/m.K)	0.031	0.035	0.040	0.047	0.054	0.072	0.096

Characteristics

Application

The Isover U Protect system has been tested in accordance to EN 1366-1 and EN 1366-8 and assessed against the criteria in BS 476: Part 24 to offer up to 2 hours passive fire protection in HVAC ventilation and smoke extraction ducts, as well as up to 1 hour passive fire protection for kitchen ducts. The system includes a range of accessories (intumescent paint, glue, screws and tape) to ensure the correct installation of the U Protect Wired Mats. For further details, please visit isover.co.uk/hvac-insulation/duct-insulation-fire-protection or contact isover.technical@saint-gobain.com.

Fire

Euroclass A1 Reaction to Fire classification according to EN 13501-1.

Maximum Service Temperature

400°C

Facing

Isover U Protect Wired Mat 4.0 Alu1 is faced on one side with a black aluminium foil and reinforced with a galvanised steel grid.

Environmental

All Isover products are manufactured under Environmental Management System - ISO 14001.

Handling, Storage, Health and Safety

Information regarding storage, installation and handling of Isover products and health & safety information can be found at insulation-uk.com/healthandsafety. EUCEB certified, demonstrating our mineral wool fibre products conform with Note Q of Regulation (EC) No 1272/2008.

Certification

UKCA Marked to EN 14303.
CE marked to EN 14303.
Designation code: MW-EN-14303-T2-ST(+)-400

Quality

Manufactured under Quality Management Standard - ISO 9001.

External Applications

Isover U Protect Wired Mat 4.0 Alu1 is not suitable for external use.



Isover

Saint-Gobain Isover UK Limited,
Saint-Gobain House, East Leake, Loughborough,
Leicestershire, LE12 6JU.

**Customer Service -
Order Placement and Enquiries**

Tel: 0800 0322 555
Email: isover.customerservice@saint-gobain.com

Technical Support Team

Email: isover.technical@saint-gobain.com

isover.co.uk

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Isover reserves the right to amend or revise product specification without notice. The information in this publication is correct at the time of publication. The information herein should not be read in isolation as it is meant only as guidance for the user, who should always ensure that they are fully conversant with the products and systems being used and their subsequent installation prior to the commencement of work.

For an up-to-date library of product information, users should visit the website at isover.co.uk

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Registered Offices: Saint-Gobain House, East Leake, Loughborough, Leicestershire, LE12 6JU.