



U PROTECT WIRED MAT 4.0 ALU1



High performance ULTIMATE™ wired mat for fire protection of circular ductwork

ULTIMATE™ is an innovative lightweight and easy to install mineral wool that combines all the advantages of conventional thermal and acoustic insulation with excellent fire performance. The U Protect system has been tested under EN 1366-1 and EN 1366-8 and assessed against BS 476: Part 24. It offers up to 2 hours passive fire protection in HVAC ventilation and smoke extract ducts as well as 1 hour passive fire protection for kitchen ducts.⁽¹⁾

Features and Benefits

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

Easy to install
Ease of install
The lightweight ULTIMATE™ wired mats ensure ease of handling and installation, as well as reducing the stress on supporting structures. Their flexibility and mechanical strength allow fast and efficient cutting and fitting.

Euroclass A1 fire rating
Fire classification
U Protect Wired Mat 4.0 Alu1 achieves a Euroclass A1 Reaction to Fire classification, according to BS EN 13501-1.

Thermal
Thermal performance
U Protect Wired Mat 4.0 Alu1 can be used to help meet UK thermal building regulations and offers energy savings by protecting the installation from external thermal variation.

Product Specification

Product code	Thickness (mm)	Width (mm)	Length (mm)	Rolls per pack	m ² per pack	Packs per pallet	Weight per pack (kg)	Weight per m ² (kg)	m ² per pallet
5200864101	30	600	10000	2	12.0	18	27.8	2.3	216.0
5200687131	50	600	6000	2	7.2	18	26.2	3.6	129.60
5200687132	60	600	5000	2	6.0	18	25.8	4.3	108.0
5200680831	75	600	4000	2	4.8	18	25.4	5.3	86.40
5200687133	80	600	3700	2	4.44	18	24.9	5.6	79.92
5200864775	90	600	3300	2	3.96	18	24.8	6.3	71.28
5200687134	100	600	3000	2	3.6	18	25.0	6.9	64.80
5200680832	120	600	2500	2	3.0	18	24.8	8.3	54.0

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

⁽¹⁾: Fire resistance is dependant on the application, thicknesses used and method of installation. Please refer to U Protect Installation Guide for details.



CHARACTERISTICS

Characteristic	Description
Application fields	U Protect Wired Mat 4.0 Alu1 is part of a fire protection system - please refer to the installation guide for installation recommendations. It provides an easy to install and lightweight solution for passive fire protection in HVAC ventilation, kitchen and smoke extraction ductworks to EN 1366-1, EN 1366-8 and BS 476: Part 24.
Fire	Euroclass A1 Reaction to Fire classification according to BS EN 13501-1.
Maximum service temperature	400°C.
Facing	U Protect Wired Mat 4.0 Alu1 is faced on one side with an aluminium foil reinforced with a galvanised steel grid.
Environmental	Manufactured under Environmental Management System - ISO 14001. GWP < 5 (Global Warming Potential).
Quality	Manufactured under Quality Management System - ISO 9001.
Thickness class	Min 30-max 120 - T2.
Building regulations	Compliance with the following building regulations: England, Wales and Scotland BS 5422: 2009. For Scotland, also refer to Technical Handbooks; Domestic Handbook 2010 and Non-Domestic Handbook 2010 & Sections 6 – Energy. For installation guidance, please refer to the U Protect Installation Guide.
Handling and storage	Information regarding storage, installation and handling of ISOVER products, or health & safety information, can be found here.
Health and safety	
Certification	CE Marked to EN 14303.
External applications	U Protect Wired Mat 4.0 Alu1 is not suitable for external use.

Customer Service - Order Placement and Enquiries

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