

Product Data Sheet

Application: HVAC

Isover U Protect Slab 4.0 Alu1



Isover Ultimate™ mineral wool slabs for fire protection of rectangular ductwork.

The Isover U Protect system is certified to deliver up to two hours of passive fire protection for HVAC mechanical ventilation and smoke extract ducts. It has been tested in accordance with EN 1366-1 and EN 1366-8 and assessed against the criteria in EAD 350142-00-1106 under ETA 18/0691.

For rectangular ductwork, the Isover U Protect Slab 4.0 Alu1 is manufactured from Ultimate mineral wool and supplied in 1200 × 600 mm slabs. Ultimate mineral wool provides conventional thermal insulation and also achieves a Euroclass A1 fire classification. The fire resistance is dependent on the application, insulation thickness, and installation method.

Features and Benefits



FIRE PROTECTION

Tested to European standards and CE marked in accordance with EAD 350142-00-1106 providing up to 2 hours passive fire protection to HVAC ventilation and smoke extract ductwork.



THERMAL INSULATION

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



A1 FIRE CLASSIFICATION

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



EASE OF INSTALL

The Ultimate™ slabs offer a lightweight solution compared to traditional stone wool options, ensuring ease of handling and installation, as well as reducing the stress on supporting structures. Their flexibility and mechanical strength allows fast and efficient cutting and fitting. The adhesive used in the system is only required at penetration details rather than at every insulation joint.

Key Considerations

When using Isover U Protect Slabs 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 isover.co.uk for all current documentation relating to this product.

Product Specification

| Product code | Thickness (mm) | Length (mm) | Width (mm) | Slabs per pack | Pack area (m ²) | Packs per pallet | Weight per m ² (kg) | Pallet area (m ²) |
|--------------|----------------|-------------|------------|----------------|-----------------------------|------------------|--------------------------------|-------------------------------|
| 5200687129 | 30 | 1200 | 600 | 13 | 9.36 | 12 | 2.20 | 112.32 |
| 5200687130 | 40 | 1200 | 600 | 10 | 7.20 | 12 | 2.90 | 86.40 |
| 5200680825 | 50 | 1200 | 600 | 8 | 5.76 | 12 | 3.60 | 69.12 |
| 5200680826 | 60 | 1200 | 600 | 6 | 4.32 | 12 | 4.40 | 51.84 |
| 5200680827 | 70 | 1200 | 600 | 5 | 3.60 | 12 | 5.10 | 43.20 |
| 5200680828 | 80 | 1200 | 600 | 5 | 3.60 | 12 | 5.80 | 43.20 |
| 5200680829 | 90 | 1200 | 600 | 4 | 2.88 | 12 | 6.60 | 34.56 |
| 5200680830 | 100 | 1200 | 600 | 4 | 2.88 | 12 | 7.30 | 34.56 |

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

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|------------------------------------|--|
| Application | Use Isover U Protect Slab 4.0 Alu1 on rectangular ductwork to provide up to two hours passive fire protection in HVAC ventilation and smoke extraction ducts. Must be used in conjunction with U Protect Accessories as tested. For further details, please visit isover.co.uk/hvac-insulation/duct-insulation-fire-protection . |
| External Application | Isover U Protect Slab 4.0 Alu1 is not suitable for external use. |
| Maximum Service Temperature | 400°C |
| Facing | Isover U Protect Slab 4.0 Alu1 is faced on one side with a black aluminium foil. |

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| Environmental | All Isover products are manufactured under Environmental Management System – ISO 14001. |
| Certification | UKCA Marked to EN 14303. CE marked to EN 14303. Designation code: MW-EN-14303-T4-ST(+)-400-MV2 |
| Handling, Storage, Health and Safety | Information regarding storage, installation and handling of Isover products and health and safety information can be found at isover.co.uk/suis . |
| Quality | All Isover products are manufactured under Quality Management Standard – ISO 9001. |
| EUCEB | EUCEB certified, demonstrating our mineral wool fibre products conform with Note Q of Regulation (EC) No 1272/2008. |



Isover

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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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