

Product Data Sheet

Application: HVAC

ISOVER U PROTECT SLAB 4.0 ALU1



High Performance ULTIMATE™ Slab for Fire Protection of Rectangular Ductwork

Isover U Protect Slab 4.0 Alu1 is a lightweight and easy to install ULTIMATE™ mineral wool slab. It combines all the advantages of conventional thermal and acoustic insulation with excellent fire performance and is a component of the 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.



Acoustic Benefits

The inherent sound deadening properties of the ULTIMATE™ mineral wool insulation will help to reduce noise from ductwork, improving the acoustic comfort of those living or working within the building.

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 the following product documents:

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

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

| | | | |
|------------------------------------|--|---|---|
| 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 Slabs. For further details, please visit isover.co.uk/hvac-insulation/duct-insulation-fire-protection or contact isover.technical@saint-gobain.com . | Environmental | All Isover products are manufactured under Environmental Management System - ISO 14001. |
| Fire | Euroclass A1 Reaction to Fire classification according to EN 13501-1 | Handling, Storage, Health and Safety | Information regarding storage, installation and handling of Isover products and health & safety information can be found at isover.co.uk/healthandsafety . EUCEB certified, demonstrating our mineral wool fibre products conform with Note Q of Regulation (EC) No 1272/2008. |
| Maximum Service Temperature | 400°C | Certification | UKCA Marked to EN 14303. CE marked to EN 14303. Designation code: MW-EN-14303-T4-ST(+)-400-MV2 |
| Facing | Isover U Protect Slab 4.0 Alu1 is faced on one side with a black aluminium foil. | Quality | Manufactured under Quality Management Standard - ISO 9001. |
| | | External Applications | Isover U Protect Slab 4.0 Alu1 is not suitable for external use. |



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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