

SOFFIT SLAB

Thermal, fire and acoustic insulation for concrete soffits



SOFFIT SLAB

Soffit Slab consists of a non-combustible rigid ROCKWOOL® board with a variety of facings.

Particularly suited for providing cost effective fire resistance and thermal insulation through concrete car park soffits and similar applications.

SOFFIT SLAB



Advantages

- Excellent thermal performance
- Effective acoustic insulation
- Non-combustible stone wool insulation and facing options
- Up to 4 hours fire resistance
- Water repellent
- Easily cut to accommodate services
- Simply butt together at joints
- Hi-impact option for durability

Description

ROCKWOOL Soffit Slab is manufactured using high performing, non-combustible stone wool insulation. Available with a plain, foil or tissue facing which can provide up to 4 hours fire protection to the underside of concrete soffits.

Hi-Impact Soffit Slab

With a 6mm rigid fibre cement board facing, this combination of two non-combustible products provides increased impact resistance and durability. Available in various thicknesses, the off-white facing can be easily decorated to match design and colour schemes.

Applications

Suitable for use with concrete soffits where a thermal, fire or acoustic performance is required.

Performance

Fire performance

Soffit Slabs have been tested to BS EN 1363-1 to offer fire protection to reinforced concrete soffits. When applied to the soffit using the recommended fixings and pattern, 130 and 140mm thick products, with and without facings, provide 3 hours fire insulation and integrity to a minimum 90mm thick floor slab. 150 and 160mm thicknesses provide 4 hours to a minimum 150mm thick slab.

Thermal performance

ROCKWOOL® Soffit Slab has a thermal conductivity (k value) of 0.034 W/mK.

Thermal resistance of un-faced Soffit Slab:

- 130mm Soffit Slab: 3.82 m²K/W
- 145mm Soffit Slab: 4.26 m²K/W
- 160mm Soffit Slab: 4.70 m²K/W

A typical construction comprising of a 150mm concrete floor slab underlined with 130mm thick Soffit Slab would achieve a U-value of 0.25W/m²K. A U-value of 0.20 W/m²K can be achieved using 160mm thick Soffit Slab.

Technical information

Standards and approvals

ROCKWOOL® Soffit Slab achieves a reaction to fire classification of A1 as defined in BS EN 13501-1.

Compatibility

ROCKWOOL® Soffit Slabs are chemically inert and compatible with most materials with which they are likely to come into contact in normal building applications.

Biological

ROCKWOOL® Soffit Slabs offer no sustenance to vermin and do not encourage the growth of fungi, moulds or bacteria.

Product information

| Property | Description |
|----------------------|-------------------------------|
| Length | 1000mm (High Impact – 1200mm) |
| Width | 600mm |
| Thickness | 130, 145, 160mm |
| Thermal Conductivity | 0.034 W/mK |
| Reaction to Fire | Euroclass A1 |
| Fire Resistance | Up to 4 hours |

Installation

When fixing a tile or modular system, it is advisable to start with a focus reference slab in the centre of the soffit with subsequent slabs being fixed working towards each edge. The use of string lines or laser alignment equipment will assist in ensuring alignment and squareness of the installation.

Mechanical fixings

Soffit Slabs should be fixed direct to the concrete soffit using Ejoyt DDS fixings with the Ejoyt DDT70 washer or similar. Recommended number and pattern of fixings for each slab size are shown in figures 1 and 2 below. Care should be taken not to over-tighten fixings to prevent damage to slab surface. For further information on fixing type and suitability, please refer to the fixing manufacturer.

Fixing size guide

| | High Impact Soffit Slab | | Plain, Foil & Tissue Faced Soffit Slab | | |
|--------------|-------------------------|-----------------|--|-----------------|-----------------|
| Thickness | 136mm | 166mm | 130mm | 145mm | 160mm |
| Ejoyt Fixing | DDS 7.3 x 175mm | DDS 7.3 x 200mm | DDS 7.3 x 175mm | DDS 7.3 x 175mm | DDS 7.3 x 200mm |
| Ejoyt Washer | DDT 70mm | | | | |

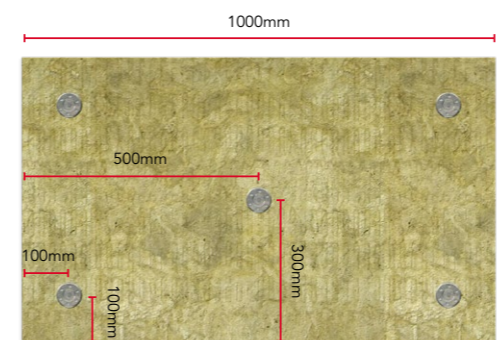


Figure 1

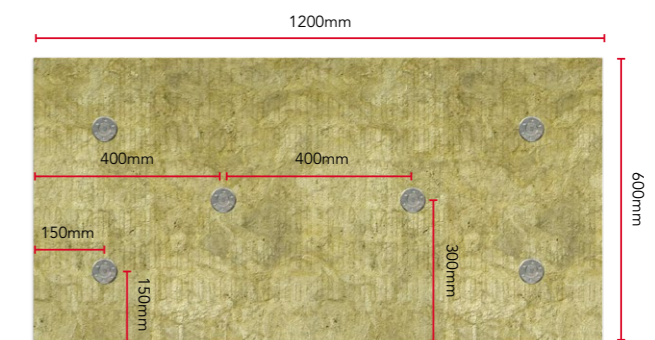


Figure 2

Light fittings and services

Soffit insulation products should not be used for supporting light fittings or services. Such installations should be supported from the concrete soffit.

Specification clauses

The insulation/fire protection of the concrete soffit is to be ROCKWOOL® Soffit Slab alu-faced / High impact / white tissue / black tissue / un-faced¹mm thick², as manufactured by ROCKWOOL® Limited, Pencoed, Bridgend CF35 6NY and installed in accordance with the manufacturer's recommendations.

¹Delete as necessary. ²Insert required thickness.

NBS specification clauses

ROCKWOOL® Soffit Slab is associated with the following NBS specification clauses:

- K11 Rigid sheet flooring/sheathing/decking/sarking/linings/casings
 - 885 Fire Protection Board
 - 890 Board

Disclaimers

This product should only be utilised for applications as outlined in the relevant ROCKWOOL product datasheet and in accordance with the relevant ROCKWOOL Fire Resistance Testing. Additionally the product must be installed in accordance with the current ROCKWOOL guidelines. For further information please visit www.rockwool.co.uk or contact our Technical Solutions Team on 01656 868490

Supporting information

For further information relating to any aspect of the FirePro range, please refer to the applicable ROCKWOOL standard details at www.rockwool.co.uk or contact the ROCKWOOL technical solution team on 01656 868490 or technical.solutions@rockwool.co.uk.

Sustainability

As an environmentally conscious company, ROCKWOOL promotes the sustainable production and use of insulation and is committed to a continuous process of environmental improvement.

All ROCKWOOL products provide outstanding thermal protection as well as four added benefits:



Fire resistance



Acoustic comfort



Sustainable materials



Durability

Health & Safety

The safety of ROCKWOOL stone wool is confirmed by current UK and Republic of Ireland health & safety regulations and EU directive 97/69/EC: ROCKWOOL fibres are not classified as a possible human carcinogen.

A Material Safety Data Sheet is available and can be downloaded from www.rockwool.co.uk to assist in the preparation of risk assessments, as required by the Control of Substances Hazardous to Health Regulations (COSHH).

Environment

Made from a renewable and plentiful naturally occurring resource, ROCKWOOL insulation saves fuel costs and energy in use and relies on trapped air for its thermal properties.

ROCKWOOL insulation does not contain (and has never contained) gases that have ozone depletion potential (ODP) or global warming potential (GWP).

ROCKWOOL is approximately 97% recyclable. For waste ROCKWOOL material that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials to our factory for recycling.



Interested?

For further information, contact the Technical Solutions Team on 01656 868490 or email technical.solutions@rockwool.co.uk

Visit www.rockwool.co.uk to view our complete range of products and services.

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The ROCKWOOL Trademark

ROCKWOOL® - our trademark

The ROCKWOOL trademark was initially registered in Denmark as a logo mark back in 1936. In 1937, it was accompanied with a word mark registration; a registration which is now extended to more than 60 countries around the world.

The ROCKWOOL trademark is one of the largest assets in the ROCKWOOL Group, and thus well protected and defended by us throughout the world.

If you require permission to use the ROCKWOOL logo for your business, advertising or promotion. You must apply for a Trade Mark Usage Agreement. To apply, write to: marketcom@rockwool.com.

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RAINSCREEN DUO SLAB®

HARDROCK®

ROCKFLOOR®

FLEXI®

BEAMCLAD®

FIREPRO®

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