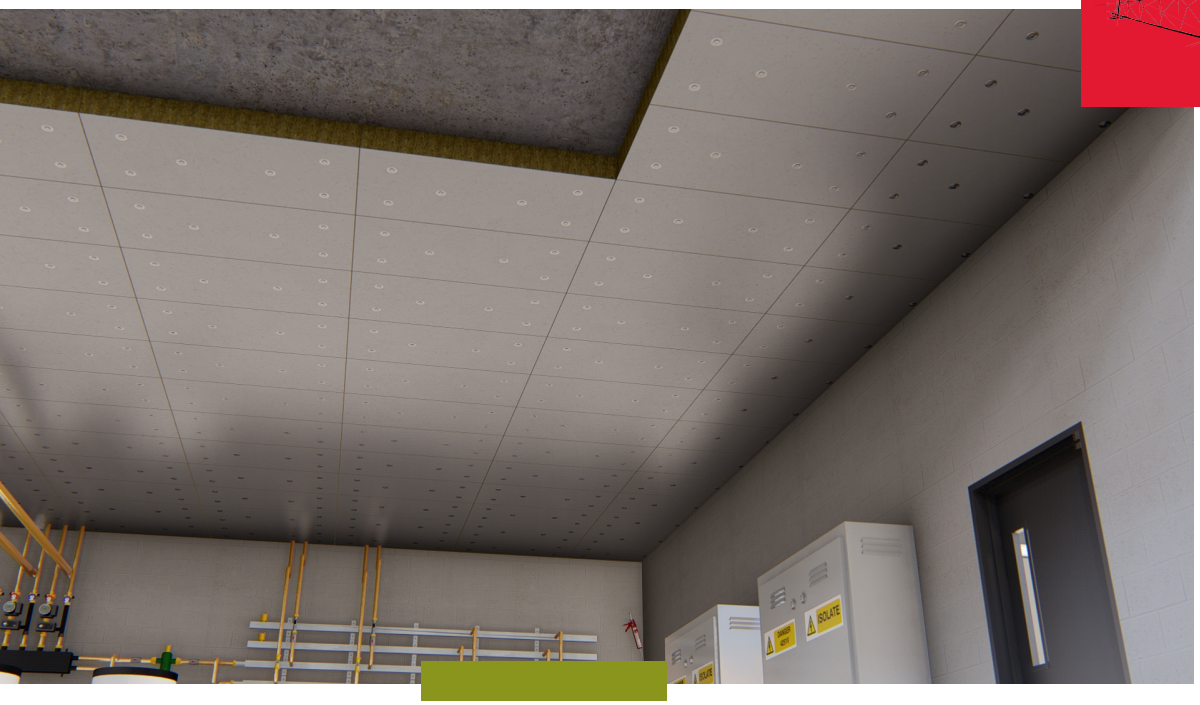
Technical Data Sheet
Concrete Soffit Insulation
1st November 2023



ROCKWOOL Comfort Liner

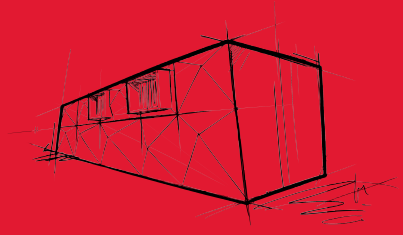
Fire, Thermal and Acoustic Insulation for Concrete Soffit

ROCKWOOL Comfort Liner is a high-performance insulation solution designed specifically for use in the soffits of commercial and industrial buildings. The product is made from non-combustible stone wool with high melting point of above 1000°C.

In addition to its non-combustible properties, ROCKWOOL Comfort Liner is known for its exceptional thermal performance. The insulation is designed to provide superior heat retention, helping to reduce energy consumption and lower heating costs for building owners.

This product is easy to install and easily cut to accommodate services. Available in various of thickness, it is an excellent choice for architects, builders, and contractors who are looking for a durable, high-quality insulation solution that will provide long-lasting thermal performance and peace of mind.

For more information at www.rockwool.com/anz



Fire Performance

The non-combustible characteristics of ROCKWOOL Comfort Liner insulation means that it will not develop toxic smoke or promote flame spread even when directly exposed to fire.

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Technical Parameters

Product	ROCKWOOL Comfort Liner SSL950	Test Standard
Density	80 kg/m^3	N/A
Reaction to Fire	Non-combustible Euroclass A1	AS 1530.1 EN 13501-1
Fire Hazard Properties	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	AS 1530.3
Melting Point	1000°C	ASTM E794
Thermal Conductivity at mean 23°C	0.034 W/mK	ASTM C518
Water Absorption (partial immersion)	0.5 kg/m²	BS EN ISO 29767
Water Vapor Absorption	Less than 0.04 Vol %	ASTM C1104/ 1104M
Water Repellent	99 %	GB/T 10299

Sound Absorption Coefficient (50mm Thickness)

Product	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC	α_w
Comfort Liner SSL950	0.2	0.75	1.0	1.0	1.0	1.0	1.0	1.0

Application

ROCKWOOL Comfort Liner is designed for use with concrete soffits where a thermal, fire or acoustic performance is required.

Compliance with the Australia NCC

These range of ROCKWOOL products when properly specified and installed, demonstrate compliance with the following requirements:

- **Thermal**
  Complies with AS/NZS 4859.1 and meets the requirements of NCC through adherence to NCC 2022 Volume 1 Section J4D3 (1), NCC 2019 Volume 1 Section J1.2(a), NCC 2019 Volume 2 Section 3.12.1.1(a) and state-prescribed variations.

- **Fire Hazard Properties**
  Adheres to NCC 2019 Volume 1 Specification C1.10 Clause 7 and NCC 2022 Specification 7 Clause S7C7 for insulation materials. When tested to AS1530.3, these products conforms to the "Spread of Flame" and "Smoke Developed" requirements outlined in NCC 2022 Specification 7 Clause S7C7 and NCC 2019 Volume 1 Specification C1.10 Clause 7.

- **Non-Combustibility**
  Complies with the non-combustibility standards of NCC 2022 Volume 1 C2D2 and NCC 2019 Volume 1 C1.9(a) or satisfies the testing criteria outlined in AS 1530.1.

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Facings

ROCKWOOL Comfort Liner is available as plain products and additionally with options of foil facing or glass tissue on one side or two-sided.

Packaging and Storage

ROCKWOOL Comfort Liner is shrink-wrapped in polyethylene sheets for ease of handling, transportation and storage. Products should be stored in doors or under waterproof covering.

Health & Safety

ROCKWOOL stone wool products are manufactured from FBS-1 stone wool. FBS-1 stone wool is safe to use and the fibre component of these products is listed by Safe Work Australia as Man-made Vitreous Fibre (stone wool) of low bio persistence as specified under Note Q in the Australian Hazardous Substances Information System and in the Australian Approved Criteria.

Product Specification

ROCKWOOL Comfort Liner SSL950

R-Value m^2K/W	*Thickness (mm)*	*Width (mm)*	*Length (mm)*	*# Pieces per pack*	*Area per pack (m^2)*
0.75	25	600	1200	12	8.64
1.45	50	600	1200	6	4.32
1.90	64	600	1200	5	3.60
2.20	75	600	1200	4	2.88
2.65	90	600	1200	4	2.88
2.95	100	600	1200	3	2.16

Applications



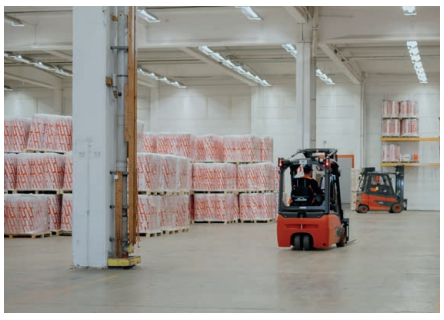
Condensation Prevention

Recommended for healthcare centre, commercial buildings car parks, data center/server rooms, cold storage, etc.



Thermal Comfort & Energy Savings

Recommended for soffit below the floor that exposed to sunlight e.g. sky garden at commercial building or residential condominium or regulated temperature warehouses, etc.



Acoustic Comfort & Health Safety

Recommended for generator/machine/ room of commercial buildings, indoor space with vehicle movement e.g. warehouses or transportation depot, etc.

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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.

It is recommended that the insulation slabs are tightly butted to minimise heat loss through insulation gaps, ensuring a professional finish is achieved.

Insulation slab can be mechanically fixed onto soffit using insulation fastener (gas actuator tool) or insulation anchor (pre-drilling).

Fixings should be installed 150mm from the edge and corners. Recommended number and pattern of fixings for each slab size are shown in figures 1 and 2 below depending on the fastener requirement. 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.

Any hanging rod or services penetrating through the insulation slab should be with minimum damage to the insulation slab.

Fixing size guide

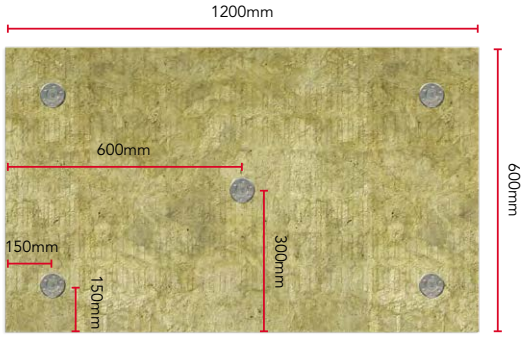


Figure 1

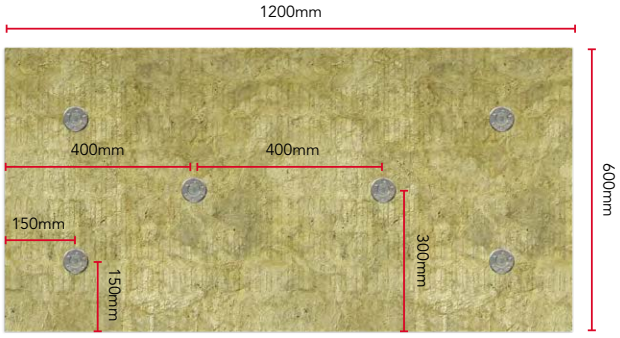


Figure 2

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.

Disclaimer: The information contained in this data sheet is only applicable for Australia and is believed to be correct at the date of publication and is subject to change after the date of printing. This data sheet was designed for general information purpose only. It's contents should not be construed as representing all performance for these insulation materials. You should not act or reply on any of the information contained herein without seeking professional advice. We make no representations as to accuracy, completeness, correctness, suitability or validity of any information in this document and will not be liable for any errors, omissions, or delays in this information or any losses, injuries or damages arising from it use. All information is provided on a as-is basis.

ROCKWOOL Malaysia Sdn. Bhd.
Lot 4, Solok Waja 1, Bukit Raja Industrial Park,
41050 Klang, Selangor, Malaysia.
T (+60) 3 3341 3444 · F (+60) 3 3342 7290
info@rockwool.com

For more information at www.rockwool.com/anz

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