

## SPRAYWOOL THERMAL AND ACOUSTIC

September 2024

### APPLICATIONS



Car parks



Multi-level



Fire corridors



Ceiling and roofs



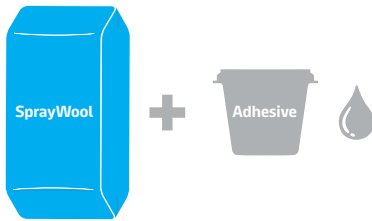
Basements



### DESCRIPTION

SprayWool Thermal and Acoustic is a non-combustible spray on insulation solution used for increasing the thermal and acoustic performance of concrete soffit applications, either behind a ceiling lining or left exposed for high Noise Reduction Coefficient (NRC) properties.

Knauf Insulation manufactures the SprayWool product only. SprayWool Thermal and Acoustic is used in conjunction with Specialist Applicator's binder solutions as part of a lightweight system.



### TESTED PERFORMANCE

Material Group Number	Group 1	ISO 9705 and AS 5637.1
SMOGRAC	0.5	AS 5637.1
Non-combustible	PASS	AS 1530.1
Thermal Conductivity	0.037	AS/NZS 4859.1

### BENEFITS

- ✓ Excellent thermal performance
- ✓ High NRC acoustic performance
- ✓ Non-combustible
- ✓ Safe and bio-soluble glasswool
- ✓ Energy saving

### CERTIFICATION



Please scan the QR Code to view the complete list of certifications on our website.

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### ADDITIONAL INFORMATION

#### SprayWool Thermal and Acoustic

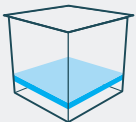
SprayWool Thermal and Acoustic can be used for both residential and industrial/commercial applications. It can be used on: concrete and aqua panel.

The specially engineered formula, combined with precision-spraying technology, saves both time and cost as thicknesses of up to 160mm can be applied during a single application.



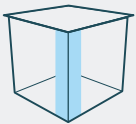
#### MULTI-LEVEL APARTMENTS

SprayWool Thermal and Acoustic is a cost-effective acoustic solution for mid-floor applications. It provides a continuous layer and fits seamlessly around services.



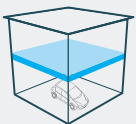
#### CRAWL SPACES AND BASEMENTS

SprayWool Thermal and Acoustic is an ideal solution as it can be used in spaces as low as 500mm. The high accuracy of the precision spraying equipment makes it easy to avoid any piping or wiring that needs to remain exposed but any excess material can be easily cleaned off and removed. An applicator can generally insulate the crawl spaces of two average-sized houses in one day.



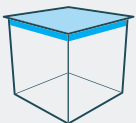
#### FIRE CORRIDORS

The Group 1 classification of SprayWool Thermal and Acoustic ensures suitability for use in fire corridors as a thermal solution.



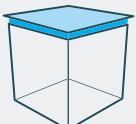
#### CAR PARKS

A quick, clean, cost-effective insulation solution for new and existing car parks. There is minimal disruption and it is specially formulated by utilising the binder to provide strong adhesion and a bright white finish.



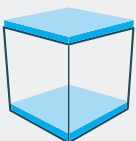
#### SUSPENDED CEILINGS

SprayWool Thermal and Acoustic can be used behind suspended tiles, plasterboard and feature ceilings to reduce noise transfer between floors.



#### CONCRETE ROOFS

Applied directly below concrete roofs, SprayWool Thermal and Acoustic is an ideal thermal and acoustic solution for living spaces.



#### OPEN PLAN SPACES

The optimal acoustic performance of SprayWool Thermal and Acoustic makes it the ideal solution as an exposed finish to reduce the airborne noise that occurs in offices and public spaces such as airports, shopping centres and schools. SprayWool Thermal and Acoustic achieves an NRC of 1 when installed at 60mm+.

#### Storage

It is recommended to store SprayWool Thermal and Acoustic insulation either indoors, or covered and off the ground. SprayWool Thermal and Acoustic insulation should not be left permanently exposed to the elements.

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### SPECIFICATIONS

R-Value (m <sup>2</sup> K/W)	Thickness (mm)	Acoustic performance (NRC)	Cohesive/adhesive strength (kPa)	Non-combustible
1.6	60	1.00	> 1.4	✓
2.15	80	1.00	> 1.4	✓
2.7	100	1.00	> 1.4	✓
3.25	120	1.00	> 1.4	✓
3.75	140	1.00	> 1.4	✓
4.05	160	1.00	> 1.4	✓

### TECHNICAL

#### System details

#### Application details

#### System performance

140mm concrete soffit with 70mm SprayWool Thermal and Acoustic installed



R-value: 2.1  
NRC: 1  
Rw (Ctr): 55 (50)

140mm concrete soffit with 70mm SprayWool Thermal and Acoustic installed behind 15mm suspended ceiling tiles (AMF 15mm tile)



R-value: 2.7  
NRC: 0.7  
Rw (Ctr): 55 (50)

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