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ROCKWOOL Thermalrock S is a versatile stone wool insulation slab that is suitable for a wide range of general building applications.

ROCKWOOL Thermalrock S is non-combustible – it does not develop toxic smoke nor promote flame spread, even when directly exposed to fire. It also contributes to a building's energy efficiency with its reliable thermal performance. It is moisture repellent, and contributes to improved acoustic comfort. The superior performances of ROCKWOOL Thermalrock S ensure that its insulation value can be maintained for a long time.

The product is available in a wide range of thicknesses and densities to suit most application requirements.

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Non-combustible with high melting point above 1000°C. Minimal contribution to spread of fire and assuring a safe escape of building occupants and first responders intervention.

ROCKWOOL Thermalrock S

Technical Data Sheet
General Building Application
October 2023

Technical Parameters

Product Name	ROCKWOOL Thermalrock S40	ROCKWOOL Thermalrock S60	ROCKWOOL Thermalrock S80	ROCKWOOL Thermalrock S100	ROCKWOOL Thermalrock S120	ROCKWOOL Thermalrock S140	Test Standard	
Reaction to Fire	Non-combustible Euroclass A1	Non-combustible Euroclass A1	Non-combustible Euroclass A1	Non-combustible Euroclass A1	Non-combustible Euroclass A1	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	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	Ignitibility: 0 Spread of flame: 0 Heat evolved: 0 Smoke developed: 0-1	AS 1530.3
Melting Point	1000°C	1000°C	1000°C	1000°C	1000°C	1000°C	ASTM E794	
Thermal Conductivity at mean 15°C	0.035 W/mK	0.034 W/mK	0.033 W/mK	0.033 W/mK	0.033 W/mK	0.033 W/mK	ASTM C518	
Water Absorption (partial immersion)	1 kg/m ²	0.5 kg/m ²	0.5 kg/m ²	0.5 kg/m ²	0.5 kg/m ²	0.5 kg/m ²	BS EN ISO 29767	
Water Vapor Absorption	Less than 0.04 Vol %	Less than 0.04 Vol %	Less than 0.04 Vol %	Less than 0.04 Vol %	Less than 0.04 Vol %	Less than 0.04 Vol %	ASTM C1104	

Application

ROCKWOOL Thermalrock S is manufactured in a wide variety of thicknesses and densities to suit most requirements, suitable for general application in residential, commercial and industrial buildings.

Compliance with the New Zealand Building Code

ROCKWOOL stone wool products when used, installed and maintained in accordance with the requirements outlined in this datasheet, will meet or contribute to meeting the following provisions of the NZBC:

1. Clause B2 DURABILITY: Performance B2.3.1 (a) not less than 50 years and B2.3.1 (b) 15 years.

Where the building is maintained so that provisions of the NZBC E2 and E3 Clauses are met, and where the insulation is not crushed or exposed to conditions that will diminish its thermal performance, ROCKWOOL Stone Wool Insulation can expect to have a serviceable life of at least 50 years. Refer to Installation Guideline and Product Handling and Storage Guideline for more information.

2. Clause E3 INTERNAL MOISTURE: Performance E3.3.1.

ROCKWOOL Stone Wool Insulation contributes to meeting this requirement.

3. Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

ROCKWOOL Stone Wool Insulation is safe when handled.

4. Clause H1 ENERGY EFFICIENCY: Performance H1.3.1 (a) and H1.3.2 E.

ROCKWOOL Stone Wool Insulation will contribute to meeting the requirements of NZBC Clause H1, Performance H1.3.1 (a) and H1.3.2 E by complying with NZBC Verification Methods H1/VM1, H1/VM2, NZBC Acceptable Solutions H1/AS1, or H1/AS2.

Facings

Optional facing with one or two sided glass tissue is available upon request. For more information, please contact your local representatives.

Packaging and Storage

ROCKWOOL Thermalrock S is shrink-wrapped in polyethylene sheets for ease of handling, transportation, storage and identification. Products should be stored indoors or under waterproof covering.

For more information at www.rockwool.com/anz

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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 Thermalrock S40

R-Value m ² K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m ²)
0.70	25	600	1200	12	8.64
1.45	50	600	1200	8	5.76
1.85	64	600	1200	5	3.60
2.15	75	600	1200	4	2.88
2.55	90	600	1200	4	2.88
2.85	100	600	1200	3	2.16

ROCKWOOL Thermalrock S60

R-Value m ² K/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

ROCKWOOL Thermalrock S80

R-Value m ² K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m ²)
0.75	25	600	1200	12	8.64
1.50	50	600	1200	6	4.32
1.95	64	600	1200	5	3.60
2.25	75	600	1200	4	2.88
2.75	90	600	1200	4	2.88
3.05	100	600	1200	3	2.16

ROCKWOOL Thermalrock S100

R-Value m ² K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m ²)
0.75	25	600	1200	12	8.64
1.50	50	600	1200	6	4.32
1.95	64	600	1200	5	3.60
2.25	75	600	1200	4	2.88
2.75	90	600	1200	4	2.88
3.05	100	600	1200	3	2.16

ROCKWOOL Thermalrock S120

R-Value m ² K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m ²)
0.75	25	600	1200	9	6.48
1.50	50	600	1200	6	4.32
1.95	64	600	1200	5	3.60
2.25	75	600	1200	4	2.88
2.75	90	600	1200	4	2.88
3.05	100	600	1200	3	2.16

ROCKWOOL Thermalrock S140

R-Value m ² K/W	Thickness (mm)	Width (mm)	Length (mm)	# Pieces per pack	Area per pack (m ²)
0.75	25	600	1200	9	6.48
1.50	50	600	1200	6	4.32
1.95	64	600	1200	5	3.60
2.25	75	600	1200	4	2.88
2.75	90	600	1200	4	2.88
3.05	100	600	1200	3	2.16



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For more information at www.rockwool.com/anz

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

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