

Product:	ROCKWOOL® Stone wool	P.D.S
Type:	LIGHT-WEIGHT SEMI-RIGID SLAB	17
Name:	RockTech S 300 (for use up to 450°C)	Page 1 of 4

Description

ROCKWOOL® RockTech S 300 is a high quality resin-bonded light-weight semi-rigid mineral wool slab with excellent thermal, acoustic and fire safety properties.

Applications for RockTech S 300 can be used for low temperature thermal insulation and for general acoustic applications.

Standard Sizes (mm)

Thickness	Dimensions	Slab Per Pack
25	1200 x 600	12
38	1200 x 600	8
50	1200 x 600	6
75	1200 x 600	4
100*	1200 x 600	3

^{*} not a stock item

Special sizes and facings are available to order but may be subject to minimum production quantity requirements.

Product Performance and Properties

Density: > 80 kg/m3 (nominal):- being delivered density according to

ASTM C612 - 93

Service Temperature: Maximum continuous service temperature on plain surface

450°C (842°F) according to ASTM C411.

Thermal Conductivity (typical data): Tested in accordance with DIN 52612.

*When tested to AS 4859.1, laboratory thermal

conductivity.

Mean Temp (°C)	23*	50	100	150	200
K value (W/mK)	0.035	0.040	0.047	0.056	0.067

Thickness (mm)	25	38	50	75	100
R-Value* (Km²/W)	0.714	1.085	1.428	2.142	2.857

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Corrosion Resistance: Stone wool is chemically neutral and will neither

Chemical Neutrality: cause nor promote corrosion.

Corrosion Resistance: Stone wool has a very low content of water leachable Water Leachable Chlorides: chloride, less than 6 ppm so it can be safely used

chloride, less than 6 ppm so it can be safely used on austenitic stainless steel. Meets the requirements for use

over stainless steel in accordance with ASTM C795.

Fire: Non-combustible when tested according to international

standards eg. ASTM E-136-82, DIN 4102, BS476 Pt4-

1970, ISO R 1182, AS 1530.1.

Moisture Resistance Water: Highly water repellent, non-hygroscopic and non-capillary.

The water repellency is in accordance with BS 2972 (total immersion) is >96% (vol.). RockTech S 300 is water

repellent in accordance with AGI Q 136.

Moisture Resistance Vapour Diffusion: Water vapour diffusion resistance factor of $\mu = 1.3$. This

low value means that water can pass through and cool

without condensing.

Moisture Resistance: Absorbs very little water from the air. Tests show at

Absorption from the air: relative humidity of 90% for 30 days the hygroscopic water

content is around .004 volume per cent. The water vapour absorption (vapor sorption) in accordance with ASTM C110

4/C 1104 m is + 0.02% (vol).

Moisture Resistance Capillarity: Stone wool fibres and fibre coating repels water and

prevents capillarity.

Melting Point: Melting point of the stone wool fibre is over 1000°C

(1800°F)

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Specific Heat: Stone wool specific heat factor is 0.84 kJ/kg per degree

centigrade.

Calorific Value: Stone wool has a low organic matter content giving a low

caloric value of around 600 kJ/kg.

Biological Properties: Stone wool contains no nutrients and therefore provides no

basis for growth of fungi, moulds or bacteria, nor does it

attract insects, rodents or vermin.

Acoustic Properties: Stone wool base material when measured according to

ISO 354 and applied directly to the wall surface at a

thickness of 50 mm gives the following:

Hz	125	250	500	1000	2000	4000	NRC
Coeff a S	0.22	0.65	1.01	1.11	1.06	1.02	0.96

Durability: Stone wool has been proven in services for over 50 years in all types of exposure and as such will give effective

in all types of exposure and as such will give effective protection for the lifetime of the equipment they insulate.

Compatibility: Stone wool is compatible with all materials which it is likely

to come into contact in normal industrial and building

applications.

Environment: Stone wool presents a very effective ecological profile in all

elements of manufacture, recycling use, service life and energy efficiency of material. No CFC's or HCFC's are

used in its manufacture.

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Health & Safety

RockTech S is NOT CLASSIFIED as HAZARDOUS according to NOHSC criteria as a consequence of the following events and conclusions about the health effects of long term occupation exposure to mineral wool insulation products.

- Over 50 years of extensive health research on ROCKWOOL® products in Europe has resulted in the scientific conclusion that there are no long term health problems from using rock(stone)wool.
- In March 1995 the UK Health and Safety Executive concluded that rock(stone)wool should not be classified as a potential carcinogen.
- Under note Q of the National Occupational health and Safety Commission (NOHSC) publication "List of Designated Hazardous Substances" (NOHSC; 1005-1999) the classification of NON-CARCINOGENIC is to apply.
- Under the European Union Criteria set out in 67/548/EEC a classification of CARC, Cat O applies, ie; "Not classifiable for carcinogenicity."
- Under World Health Organisation (WHO) and its Monographs Programme of the International Agency for Research on Cancer (IARC) it has been concluded that, "Rock (stone) wool are now considered not classifiable as to carcinogenicity to humans (Group 3),

It is recommended that for the handling and installation of ROCKWOOL products the internationally recognised Safety Data Sheet be followed. This is available from Australasian Insulation Supplies Pty Ltd.

Technical Advice and

Thermal Calculation Service:

Heat transfer calculation for ROCKWOOL stone wool insulation system thermal design is readily available. AIS technical advisers are ready to give help and advice on any matter connected with insulation or products manufactured by ROCKWOOL®.

For further information and technical advice on insulation contact:



Eureka Insulation Pty Ltd
12 Enterprise Circuit, Prestons NSW 2170
Phone: 1800 626 624
www.eurekainsulation.com.au

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