



ThermalRock S

ROCKWOOL™
INDIA & MIDDLE EAST

General Product Information

ROCKWOOL™ stone wool products are made of basalt, a volcanic stone.

ROCKWOOL™ stone wool products are non-combustible with melting point of approximately 1000° C. They are particularly suitable for thermal insulation, fire protection and sound reduction/absorption.

ROCKWOOL™ stone wool is inorganic and contains no nutritious substance. Therefore it will not be attacked by micro organisms. Stone wool will not rot and does not attract vermin. No CFCs, HFCs, HCFCs, or asbestos are used in the manufacture of ROCKWOOL™ stone wool products.



Reaction to Fire Classification

ROCKWOOL™ Thermal Rock S range achieves an A1 Non-Combustible reaction to fire classification; including faced and unfaced variations.

ThermalRock S Range – Technical Parameters

Product Types	S40	S50	S60	S80	S90	S100	Standards
Nominal Density (kg/m3)	40	50	60	80	90	100	
Thermal Conductivity at 20oC λ(W/mK)*	0.034	0.034	0.035	0.035	0.036	0.035	ASTM C518
Sound Absorption Class	B	A	A	A	A	A	ISO 354/ ASTM C 423
Fire Performance	Non-Combustible/A1 Fire Classification						EN 13501-1 / UL 723
Water Vapor absorption*	0.04 % by Vol						ASTM C1104/C1104M
Water absorption (partial immersion)	< 1 Kg/m2						EN 1609:97

* Typical Values

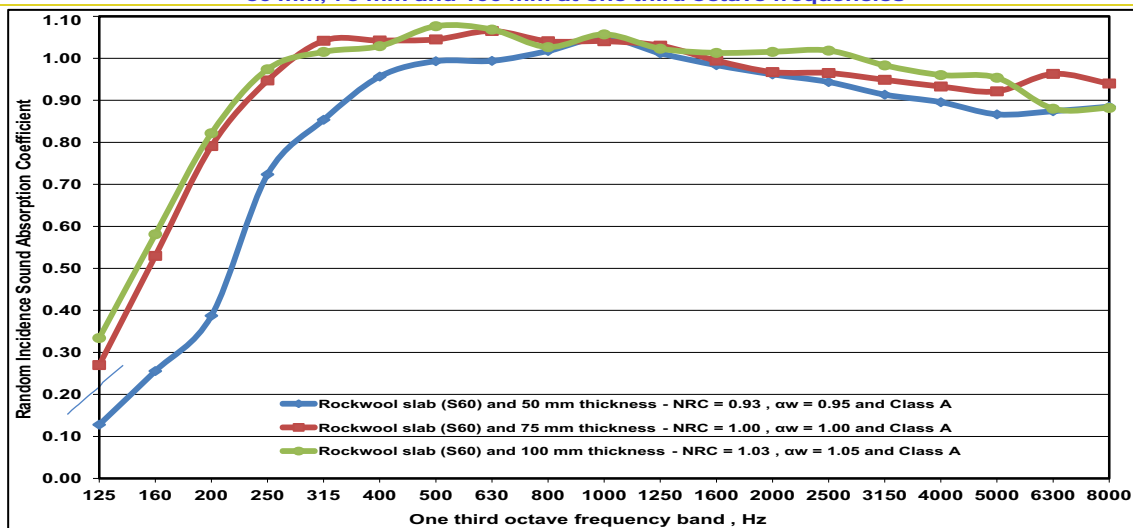
Acoustic Performance

Due to the naturally random orientation of ROCKWOOL fibres, all ROCKWOOL products make excellent acoustic absorbers; the ROCKWOOL Thermal Rock S range has been extensively tested & has a proven track record for it being used to substantially improve the acoustic performance of any application.

Below is a sample graph of the acoustic absorption coefficients that can be achieved; it must also be noted that the majority of thicknesses and densities have achieved a Class A absorber rating.

For further acoustic information please contact our technical representatives.

Figure 2 : Plot for Random incidence sound absorption coefficient (RISAC) of Rockwool slabs (S60) for 50 mm, 75 mm and 100 mm at one third octave frequencies



*Acoustic information for the other densities is also available on request.

Typical Applications

Internal Partitions – S40/S60

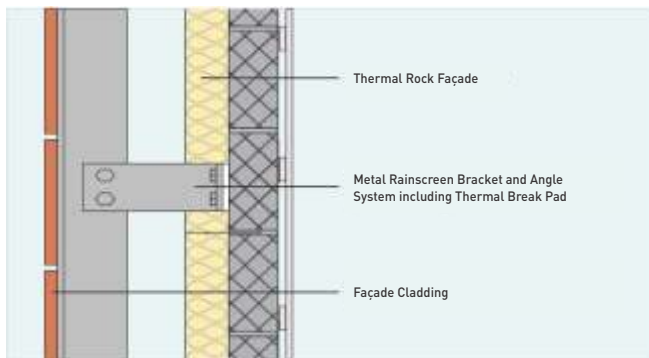
As well as excellent thermal performance the Thermal Rock S range also provides a high level of acoustic benefit; as such, it has also undergone rigorous acoustic testing and has attained a Class A absorption rating.

This excellent acoustic performance makes ROCKWOOL Thermal Rock Slab the ideal product for use as an acoustic material in internal partitions; its use can greatly increase the sound deadening properties of any light weight construction.

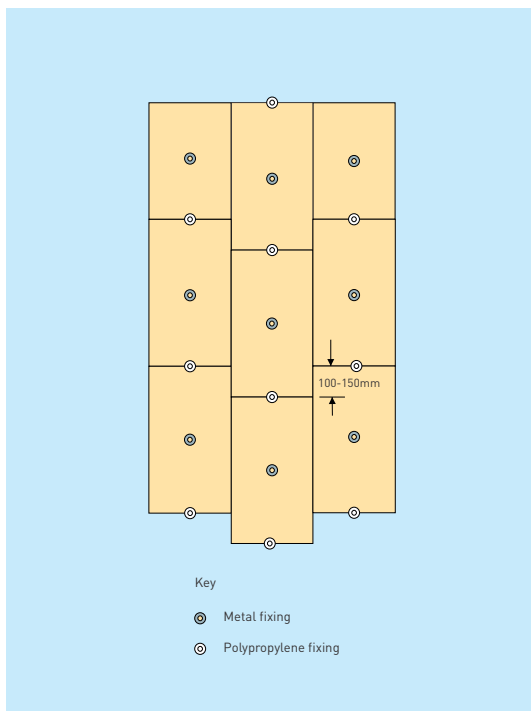


Façade – S80

Robust ROCKWOOL™ designed for installation behind façade constructions. This material gives a high level of acoustic & thermal protection to the envelope of the building; whilst maintaining its non combustible certification. When installed correctly the slabs will knit together, thereby reducing any extraneous heat loss through the board joints. Due to the materials open cell nature, this product allows the structure to breath reducing the risk of condensation.



To obtain the optimum performance from the system the slabs should be applied vertically with all joints tightly butted together. Fix using a combination of metal & polypropylene as per the detail below; possible fixing manufacturers include: SFS Intec, Hilti, Ejot.

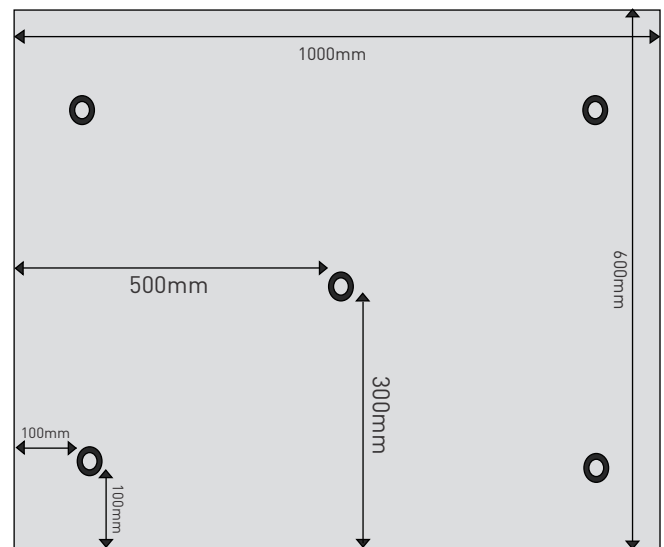


Soffit Slab – S100

High density soffit liner designed to act as a high grade thermal & fire upgrade to concrete soffits. Designed as a single solution to the issue of thermally protecting the concrete soffit and providing an upgrade to the existing fire protection properties. Available un-faced or with black/white tissue facing. All boards should be mechanically fixed directly to the concrete soffit as per the recommended fixing detail below; fixings can include SFS Intec MDD-S 8.0D (for non Fire Rated applications) & ITW Roof Grip or SPIT Isomet Hammer fixings with 50mm steel washers (for Fire Rated applications).

Light Fittings & Services

Thermal Rock Soffit Slab should not be used to support any fixtures or fittings. All services must be fixed back through the insulation, directly to the concrete soffit.



Dimensions

Length (MM)	Width (MM)	Thickness (MM)	Density (KG/M3)
1200	600	30,50,75,100	40
1200	600	30,50,75,100	50
1200	600	30,50,75,100	60
1200	600	30,50,75,100	80
1200	600	30,50,75,100	90
1200	600	30,50,75,100	100

* Please contact your local representatives for sizes and densities not stated in the data sheet

Packing and Storage

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

Various Certificate Earned by ROCKWOOL™



FILE: R27712

**ROXUL ROCKWOOL Technical
Insulation India Pvt. Ltd.**
705, Center point, J.B. Nagar,
Andheri-Kurla Road,
Andheri-East, Mumbai-400 059
T:+91 22 6715 7740
F:+91 22 6715 7710
info.rti.india@rockwool.com

**ROXUL ROCKWOOL Technical
Insulation Middle East FZE**
Dubai Airport Freezone
6WB 139,
P.O. Box 293585, Dubai, Unites Arab Emirates
T:+971 42146284
F:+971 42146285
info.rti.dubai@rockwool.com

