Stone Wool Insulation: RB Slab

Saint-Gobain Rockinsul™ Resin Bonded (RB) Slab is a stone wool insulation made by processing molten rock into fibers, bonded with phenolic resin. It is a rigid product with good compressive strength. Lower densities are typically used in building insulation and higher densities are used in industrial applications such as tank tops. It can be used for maximum service temperatures upto 750°C.

CHARACTERISTICS	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Make	-	-	Saint-Gobain Rockinsul™	-
Material	-	-	Resin Bonded Stone Wool	-
Bulk Density⁺	ρ	Kg/m^3	40 to 160 ; Tolerance: ± 10%	IS 8183, IS 3144
Thickness	t	mm	25 to 150 ; Tolerance: -2 to +6mm	IS 8183, IS 3144
Length	l	m	1 to 1.2 ; Tolerance: -0.5%	IS 8183, IS 3144
Width	w	m	0.6, 1.2 ; Tolerance: - 0.5%	IS 8183, IS 3144
Melting Point	T	°C	> 1200°C	-
Facing	-	-	Unfaced, FSK	-
Thermal Conductivity*	-	-	as per IS 8183	IS 8183, IS 3346
Incombustibility	-	-	< 5% loss in mass	IS 8183, IS 3144
Heat Resistance	-	-	No deterioration of fiber. No evidence of internal self-heating when heated up to 750°C	IS 8183, IS 3144
Linear Shrinkage	-	-	< 2% when subject to soaking heat at 750^0C of use for 24 hours	IS 8133, IS 5724

⁺Refer page no. 3 for our standard density products.
**Thermal conductivity values depend on density and mean temperature of application. For details, please contact our nearest sales office.*

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SAINT-GOBAIN INDIA PRIVATE LIMITED - INSULATION BUSINESS
5th Floor, Leela Business Park, Andheri Kurla Road, Andheri, Mumbai Suburban, Maharashtra, 400059, India
https://www.insulation-india.saint-gobain.com

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Stone Wool Insulation: RB Slab

CHARACTERISTICS	SYMBOL	UNIT	QUANTITIES AND DECLARED VALUES	STANDARD
Recovery After Compression	-	-	> 90%	IS 8183, IS 3144
Moisture Content	-	-	< 2%	IS 8183, IS 3144
Moisture Absorption	-	-	< 2%	IS 8183, IS 3144
Shot Content	-	-	< 25%; including all 3 sieve sizes: 500 micron, 250 micron & 150 micron	IS 8183, IS 3144
Sulphur Content	-	-	< 0.2%	IS 8183, IS 3144
Leachable Chloride Content	-	ppm	< 10	IS 8183, IS 3144
Alkalinity	-	pH	7 to 10	IS 8183, IS 3144
Corrosion Control	-	-	No signs of stress corrosion cracking	ASTM C 692
Fiber Diameter	-	µm	< 7	IS 8183, IS 3144
Resistance to Vibration	-	-	< 1% height of settlement	IS 8183, IS 3144
Resistance to Jolting	-	-	< 3% height of settlement	IS 8183, IS 3144
NRC	-	-	0.85 to 1	ASTM C423 / ISO 354

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Annexure for RB Slab:

Density (kg/m^3)	Unfaced RB Slab		RB Slab with FSK Facing	
	Thickness (mm)	Width (m)	Thickness (mm)	Width (m)
40	50, 75, 100, 150	0.6, 1.2	50 to 150	0.6, 1.1, 1.2
48	25, 50, 75, 100, 150	0.6, 1.2	50 to 150	0.6, 1.1, 1.2
64	50, 75, 100	0.6, 1.2	50 to 100	0.6, 1.1, 1.2
80	-	-	50 to 120	0.6, 1.1, 1.2
96	50, 75, 100	0.6, 1.2	50 to 100	0.6, 1.1, 1.2
100	40, 50, 75, 100	0.6, 1.2	40 to 100	0.6, 1.1, 1.2
120	50, 75, 100	0.6, 1.2	50 to 100	0.6, 1.1, 1.2

Note :

1. *For any other customizations, please contact our nearest sales office*

Thermal Resistance Table (at 20°C):

Density (kg/m^3)	K-Value W/m.K (20°C)	R-Value m^2.K/W (25mm)	R-Value m^2.K/W (50mm)	R-Value m^2.K/W (75mm)	R-Value m^2.K/W (100mm)
40	0.0338	0.740	1.479	2.219	2.959
48	0.0334	0.749	1.497	2.246	2.994
60	0.0320	0.781	1.563	2.344	3.125

Note :

1. *Thermal conductivity values as per ASTM standard.*

Disclaimer: *The technical information corresponds to our present state of knowledge and experience at the date of printing (see imprint). But no legal guarantee can be given, unless it has been explicitly agreed. The state of experience and knowledge is developing continuously. Please see to it that you always use the latest edition of this information. The described product applications do not take special circumstances in consideration. Please verify whether our products are appropriate for the application. For further information please contact our sales offices. We deliver only according to our terms of trade and terms of delivery.*

CERTIFICATIONS





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