



Shiv Sales Corporation®

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Resin Bonded Slabs

Resin Bonded, Rock Wool Slabs

It is a precisely engineered Resin Bonded Fibrous Insulation to offer maximum resistance to heat passage. These Fibers are spun from selected rocks, melted at 1600°C and blended to a carefully

adjusted chemical composition. Its centrifugally spun fibres have a diameter 1820th that of human hair which are felted using state of art Technology into bonded and cured slabs to optimum density and resilience.

Specification Conformance

Slabs manufactured from selected rocks using state of the art technology conforms to and exceeds requirements specified in local & International Standards such as

IS 8183: 1993

BS: 3958 Part – 5

ASTM C 612

IMO for A15, A-30 & A-60 class fire barrier insulation. **

** The only product to carry this certification in India.*

Physical Data for Standard Products

Slab Grade	Slab Density	Optimum Temperature Limits oc	Thickness (mm)**	Size (m)
300	48	250	25,40,50,60,65 & 75	1.0x0.50, 1.0x0.60 or 1.2x0.75
400	64	300	25,40,50,60,65 & 75	1.0x0.50, 1.0x0.60 or 1.2x0.75
600	96	400	25,40,50,60,65 & 75	1.0x0.50, 1.0x0.60 or 1.2x0.75
900	144	550	25,40,50,60 & 65	1.0x0.50, 1.0x0.60 or 1.2x0.75

Water & Moisture Repellence

Rasin bonded slabs by virtue of fiber surface treatment and lay pattern has an angle of contact exceeding 90° C which result good resistance to water and mositure ingress and hence does not promote capillary action. When tested as per IS, BS and ASTM standards the material exhibits excellent resistance to moisture absorption and is superior to materials like Calcium Silicate and Glaswool which are inherently hygroscopic in nature.

*All insulation materials degrade in their properties when water or moisture enters their body.

Sound Absorption

Excellent Sound Absorption by virtue of its scientific fibre lay pattern ensuring controlled dispersion of air pockets and prices air flow resistance.

Thickness in mm	25*	50*	25**	50**	
Frequency	125	0.13	0.23	0.16	0.28
	250	0.32	0.58	0.41	0.68
	500	0.82	0.85	0.84	0.98
	1000	0.95	0.96	0.96	0.97
C/S	2000	0.94	0.98	0.96	0.95
	4000	0.76	0.94	0.92	0.94
NRC		0.84	0.79	0.89	

Fire Resistance

Totally Incombustible when tested as per IS: 3144 (Melting point of fibres is above 1000°c [1825°F])

Corrosion Protection

These Fibres, in the first place, are devoid of impurities like Halides (Chlorides & Fluorides) and Sulphides which are commonly found in other materials such as Calcium Silicate. This is due to the fact that these fibres are manufactured by a dry manufacturing process and its faint alkalinity, actually fights against corrosive reactions. It meets various critical specification including ASTM C795 requirements where specified.

This is feature is responsible for its exclusive selection for critical application such as Nuclear Power Plants. Ship building and Railways coaches where corrosion resistance is of vital significance.

Thermal Conductivity

Resin Bounded material is the only one to offer the LOW THERMAL CONDUCTIVITY to weight ratio when compared to block type insulates like Calcium Silicate. This minimizes the total load on the piping and equipment while maximizing thermal efficiency with a given thickness of usage.

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