



ROCKLOYD SLAB

RESIN BONDED, ROCKWOOL SLABS



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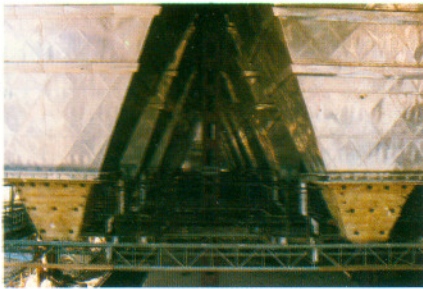
RESIN BONDED, ROCKWOOL SLABS

SLAB GRADES : 300/400/600/900 SERVICE TEMPERATURE: -100°C to 800°C

PRODUCT

ROCKLOYD is a precisely engineered Resin Bonded Fibrous Insulation to offer maximum resistance to heat passage. Rockloyd Fibres are spun from selected rocks, melted at 1600°C and blended to a carefully adjusted chemical composition. Its centrifugally spun fibres have a diameter 1/20th that of human hair which are felted using State of the Art Technology into bonded and cured slabs to optimum density and resilience.

Over 25 million sq. mts. of Rockloyd Insulation is in service in prestigious projects within the country saving millions of tonnes of fuel year after year.



SPECIFICATON CONFORMANCE

Rockloyd Slabs manufactured from select 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 C612

IMO for A-15, A-30 & A-60 class fire barrier insulation.**

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

PHISICAL DATA FOR STANDARD PRODUCTS

SLAB GRADE	SLAB DENSITY kg/m ³	OPTIMUM TEMPERATURE LIMITS °C	THICKNESS (mm)**	SIZE m
300	48	250	25,40,50,60,65 & 75	1.0 x 0.50, 1.0 x 0.60 or 1.2x0.75
400	64	300	25,40,50,60,65 & 75	1.0 x 0.50, 1.0 x 0.60 or 1.2x0.75
600	96	400	25,40,50,60,65 & 75	1.0 x 0.50, 1.0 x 0.60 or 1.2x0.75
900	144	550	25,40,50,60 & 65	1.0 x 0.50, 1.0 x 0.60 or 1.2x0.75

**Can be made available with increments in thickness of 5mm against special orders.

WATER & MOISTURE REPELLENCE*

Rockloyd Slabs by virtue of fiber surface treatment and lay pattern has an angle of contact exceeding 90°C which results in good resistance to water and moisture 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 Glasswool 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 precise air flow resistance.

Sound absorption co-efficient of Rockloyd slabs 48 kg / m³ are furnished below :

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	0.96	0.98	0.96	0.95
4000	0.94	0.94	0.92	0.94
NRC	0.76	0.84	0.79	0.89

*With rigid backing ** With 1" air gap

FIRE RESISTANCE

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

CORROSION PROTECTION

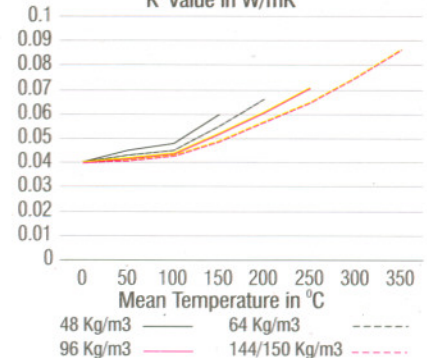
Rockloyd Fibres, in the first place, are devoid of impurities like Halides (Chlorides & Fluorides) and Sulphides which are commonly found in other materials such as Calcium Silicate. This is due to the fact that Rockloyd fibers are manufactured by a dry manufacturing process and its faint alkalinity, actually fights against corrosive reactions. It meets various critical specifications including ASTM C-795 requirements where specified.

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

THERMAL CONDUCTIVITY

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

THERMAL CONDUCTIVITY CHART
ROCKLOYD K'VALUE GRAPH
K' Value in W/mK



THE ROCKLOYD FAMILY



• Consult us for recommendation on thickness of insulation and application to suit your end use condition.



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