

Keeping Metal Insulated

INROCK[®]
BUILDING ROLLS



DESIGN COMFORT INSULATION

BUILDING ROLLS

INROCK® Building Rolls are mainly used in Pre Engineered Buildings (PEB) for roofs and walls to achieve excellent thermal, fire and acoustic insulation. It can be used for both under and over purlin application on the roof.

- They consist of fine fiber spun from a range of selected rocks melted at high temperature bonded with a thermosetting resin faced/laminated with flexible facings like - FSK & ALG etc.
- They are light weight, strong, resilient, and easy to handle and cut to suit site specific requirements.

Facings

- Flexible facings like FSK & ALG available.

*Under new product development process

STANDARD DIMENSIONS

Thickness (mm)	Width (mm)	Length (mm)
50 to 100	1100* & 1220	7000-10000

*With two side 50mm overlapping flaps

STANDARD DENSITY

Density	Thickness
Kg/m ³	mm
48	50 - 100
64	50 - 100
80 #	50



TECHNICAL DATA

Temperature Range	Upto 400oC (As per IS 8183:1993 & IS 3144)
Chemical Composition	Chloride Content - less than 10 mg/kg, Sulphur Content - 0.6%, Oil Content - 0.2%, Carbon Content - 0.3%
pH Value	7 to 8
Fibre Properties	Fibre Diameter - less than 7 microns, Shot content - Less than 5% of total weight, (less than 5% on 500 micron & 15% retention on 250 micron)
Fibre Properties	Fire spread index - less than 5, Smoke developed index - less than 50
Product Specification	Std. Size - Length 7 to 10m x Width 1100mm (both sides 50mm overlapping flaps) / 1200 mm (without flaps) Density - 40 Kg/ m ³ to 80 Kg/m ³ , Thickness - 50 mm to 100 mm, Facing - FSK & ALG
Physical Properties	CFC & HCFC free, Asbestos free, Corrosion resistance, Non capillary attraction, Linear shrinkage less than 2%
Recovery After Compression	More than 90% of original thickness
Moisture Absorption	Less than 2%
Water Vapour Permeability	Less than 0.2 perms
NRC	Up to 1.0
Biological Properties	Non-hygroscopic, Rot proof
Environmental Effect	Does not affect Ozone depletion potential(ODP), Global warming potential (GWP)<5

Note: Tolerance & Specification Confirms to IS: 8183 & ASTM C 553.

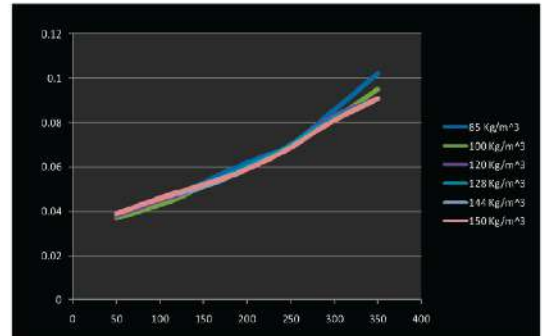
HANDLING & STORAGE:

These rolls should be stored indoor. If stored outdoor, they should be stacked above ground level & securely covered with weather proof sheets/tarpaulin.

THERMAL CONDUCTIVITY TABLE

(As Per IS: 8183, IS: 3346, ASTM C 518 / ASTM C 177)

Mean Temp. (°C)	Initial K Value (W/m.K) at different Mean Temperatures (max.)		
	Density Kg/m ³		
	48	64	84 #
10	0.036	0.034	0.033
25	0.037	0.036	0.035
50	0.038	0.037	0.037
100	0.044	0.043	0.043

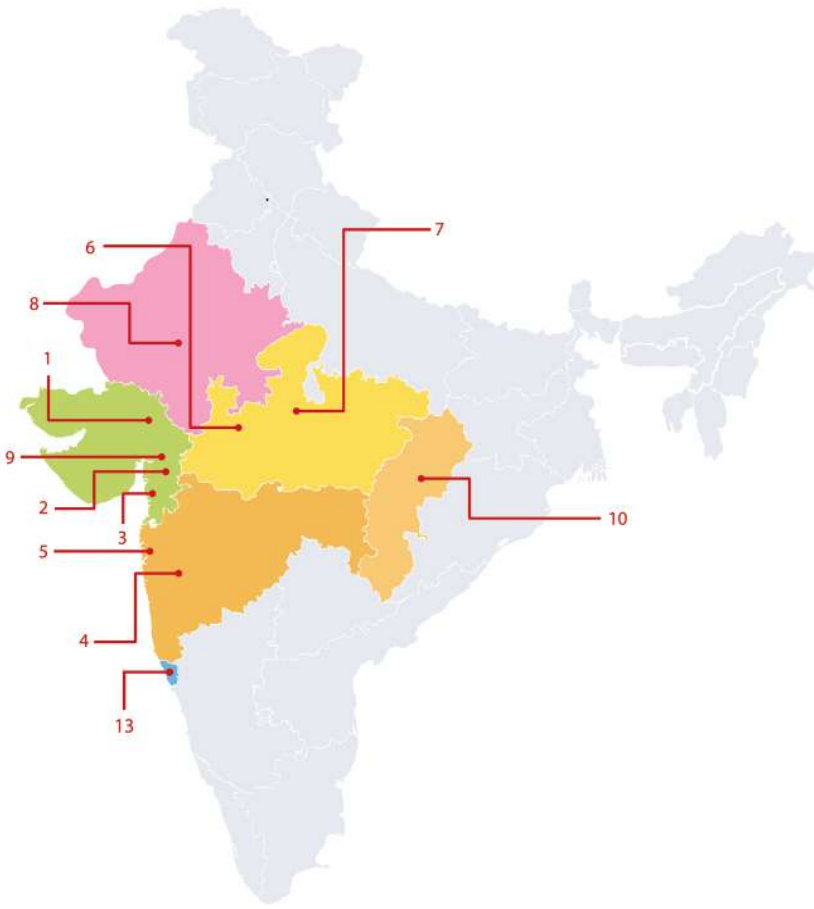


APPLICATIONS AS THERMAL, ACOUSTIC & FIRE INSULATIONS

- Most Economical Solution For Roof Insulation
- Under Deck Insulation
- Pre Engineered Buildings (PEB)
- per Fabricated Houses
- HVAC Duct Insulation
- Cattle & Poultry Farns
- Tanks
- Irregular Shapes
- Large Vessels
- Ovens
- Power Plants
- Textile Machinery
- Flanges
- Valves
- Steam Pipelines
- Reactors

FEATURES

- Excellent Thermal Insulation
- Excellent Fire Insulation
- Excellent Sound Absorption
- Excellent Water Resistance
- Non-Combustible Hence Fire Safe
- Non-Hygroscopic Hence Moisture safe
- Non-Corrosive
- Non-Carcinogenic
- High Thermal Resistance
- High Temperature Resistance
- High Mechanical Strength
- High Durability
- Low Thermal Conductivity
- Thermally & Diemensionally Stable
- Easy To Handle
- Easy To Cut
- Easy To Apply
- Fungi Resistance
- Corrosion Proof
- No Objectionable Odor / VOC






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