



# Dhanbad Rock Wool Insulation Pvt Ltd

(An ISO 9001 and OHSAS 18001 certified Co.)

Manufacturers of **DHANROCK®** wool | Mineral wool Insulation  
Products for Thermal, Acoustic, Hot & Fire Protection Applications

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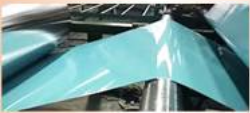
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## *Saving Energy for Life*

### ROCK WOOL Product Range

- **LRB MATTRESS**
- **RESIN BONDED SLAB**
- **RIGID PIPE SECTION**
- **LOOSE ROCK WOOL**



### Product Approvals

- **ISO: 9001-2015**
- **OHSAS 18001**
- **NTPC / BHEL**
- **DOOSAN**
- **ENGINEERS (I) LTD**
- **MECON**
- **LNT POWER**
- **BPCL / IOCL**
- **NPCIL / FACT**
- **SAIL / NRL**
- **TATA STEEL**

### Dhanbad Rock Wool Insulation Pvt Ltd - Co. Overview

- **Dhanbad Rock wool Insulation Pvt. Ltd** is one of the leading manufacturers of Rock | Mineral wool Range of Products under brand name **DHANROCK®** for Thermal, Acoustic & Fire Protection applications. The Company was established in the year 2011.
- Registered Office & HO is at Dhanbad, and Manufacturing plant is at Govindpur, Near Dhanbad, Jharkhand.
- We have Installed capacity of 15,000 MT/ year cater to domestic and export markets.
- We are an ISO 9001 : 2015 & OHSAS : 18001 certified Co.
- **DHANROCK®** Brand is approved by the leading Power & Mechanical Consultants & major consumers.

### Product Production - overview

- Minerals, Coke, Dolomite | Limestone, Phenol Formaldehyde & other additives are the major raw Materials.
- **DHANROCK®** wool is manufactured from Selected Minerals / Rocks of specific chemical compositions. Minerals are melted with the help of Coke at temperature of approx. 1400°C. The molten is passed through 3 high speed spinning wheels to form fibers by centrifugal force.
- The loose fibers are treated with Binder, converted in to Slabs, LRB Matts, Pipe sections & Rolls of various Densities & Thicknesses with different facings as per customers' choice. The entire process is computerized / automated.

### Product - Technical overview

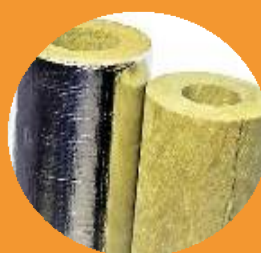
- **DHANROCK®** Wool product range conforms to IS-8183, IS-9842, IS-3144, IS-3677 & ASTM C-795, C-871, C-612, C-592, C-547.
- The product is Free of asbestos, CFC, HCFC either in the manufacturing process or in the finished products.
- Eco-friendly manufacturing process. Recyclable
- Water Repellant, Itch Free Products are available on demand.
- **DHANROCK®** Wool | Mineral Wool Products are suitable for Operating Temperature up to 750°C. The Product range is Fire Resistant, & Flame Retardant. It does not emit smoke even during intensive fire.

<i>Product</i>	<i>Product Range</i>	<i>Applications</i>
<b>RESIN BONDED SLAB (RBS)</b> conforms to IS-8183, IS-3144. ASTM C-795 / C-871 / C-612	Density - 48 – 160 Kg/m <sup>3</sup> Thick - 25 – 100 mm Facing - AL Foil, BGT & ALG Size - 1000 x 500 mm (other sizes on demand )	<b>Thermal</b> - Boiler, Oven, Duct, Roof, Fire stopper, Solar Panel, Tank, Chimney, Drywall, etc. <b>Acoustic</b> – Genset Canopy, Façade Partition, False Ceiling Overlay,
<b>LIGHTLY RESIN BONDED MATT.(LRB)</b> conforms to IS-8183 & IS-3144 ASTM C-795 / C-871 / C-592	Density - 85 – 160 Kg/m <sup>3</sup> Thick - 25 – 100 mm Facing - GI & SS Hex. Wire mesh Size - 1640 x 1220 mm	Thermal insulation of Boilers, Vessels, Industrial Ducts, Pipe Lines, ESP, Chimneys, Heat Exchangers, Storage Tanks, etc.
<b>RIGID PREFORMED PIPE SECTION</b> conforms to IS-9842 ASTM C-547 / C-302	Density - 128, 144 & 160 Kg/m <sup>3</sup> Thick - 25 mm – 150 mm Pipe Dia - 15 - 400 mm Facing - AL Foil (optional )	Cold & Hot insulation of Steel Pipe lines in Power, Process, Oil, Cement & Tire Industries.
<b>UNBONDED MINERAL (ROCK) WOOL</b> conforms to IS-3677	Loose wool without Binder Standard packing – 40 kgs (HDPE)	Cavity Filling Oven Insulation. Industrial Moulds.
<b>Aluminium Cladding Sheets. Ancillaries / Allied Products</b>	AL Coil , 275 – 325 kgs packing. All fast moving gauges of Leading brands in sizes of 3' & 4' width.	Cladding in Hot Insulation applications

## PRODUCT ADVANTAGES



## PRODUCT APPROVALS



**DHANROCK® Wool Range of LRB Mattress**

Density (kg/m <sup>3</sup> )	85 – 150
Thickness (mm)	25 – 100
Facing	GI & SS (one/Both sides)
Size ( Mtr)	1.52 x 1.22 / 1.64 x 1.22
Service Temp.	750° C
Packing	HDPE
Conforms to	IS-8183, IS-3144, IS 3346 & ASTM C-795/C-871/C-592



**Applications**

- Boilers & Vessels
- Industrial Ducts
- Steam Pipe Lines
- Storage tanks
- ESP & Chimneys
- Heat Exchangers
- Reactors
- Furnaces



**Unbonded Loose Rock | Mineral wool**  
**Major Applications**

- Bakery Oven Stuffing
- Valves & Fittings
- Cavity Filling
- For making matts with wire mesh
- Conforms to IS-3677

**PACKING – 40 kgs – HDPE Bags**





### *Range of Resin Bonded Slab ( RBS )*

Density (kg/m3)	-	48 -160
Thickness (mm)	-	25 – 100
Facing	-	ALF / ALG / BGT
Size ( mm )	-	1000 x 500
Service Temp.(°C )	-	750
Packing	-	HDPE
Conforms to	IS-8183   IS-3144 ASTM C-795   C 871   C 612	



### **Applications - Buildings**

- Underdeck & Roof
- Fire stop
- Facade
- False Ceiling overlay
- Wall Partition
- Sandwich Roof



### **Applications - Industrial**

- Storage Tank & Vessel
- Boiler & Chimney
- Oven & Heaters
- Industrial Duct
- Industrial Fan
- Solar Panel | Tanks



### ***Range of Pipe Section***

Density (kg/m <sup>3</sup> )	- 144, 150
Thickness (mm)	- 25 - 100
Facing (Optional)	- ALF   ALG
Size ( mm )	- 1000
Service Temp.(°C )	- 750
Packing	- 5 Ply Carton Box
Conforms to	- IS-9842 /ASTMC-547
Pipe Dia (mm/ Inch)	- 15 – 350 / 1- 14



### **Benefits of Rock Wool Pipes**

- Rigid Pipes are used to Insulate Pipe Lines to maintain temperature.
- Long life
- Easy & fast installation, Economical due to Less manpower requirement during erection & quick project completion.
- Reusable during maintenance.
- Uniform density & thick throughout length due to its higher Rigidity factor.
- Better performance compared to insulation with LRB Matts due to its uniform density & thickness throughout the length of insulation area.



**THERMAL CONDUCTIVITY***K value (mW/cm° C)*

Mean Temp (°C)	Group III	Group IV
	Density (kg/m³)	
	85 – 120	121 – 160
50	0.495	0.490
100	0.513	0.509
150	0.710	0.670
200	0.719	0.679
250	0.839	0.830
300	0.941	0.883

DESCRIPTION	STANDARD SPECIFICATION
MATERIAL COMPOSITION	<b>Rock   Mineral wool Fibres bonded with Thermoset Resin.</b>
SERVICE TEMPERATURE	750°C
FIBRE DIA (micron)	5 µ max (7 µ as per IS8183)
NON-FIBROUS (SHOT) CONTENT	250 µ - 12% max (15% as per IS8183) 500 µ - 3.5% max (5 % as per IS8183)
MOISTURE ABSORPTION	Max 0.8 % (2 % as per IS8183)
MOISTURE CONTENT	Max 0.7 % (2 % as per IS8183)
ALKALINITY (pH value)	Max 8.5 (7–10 as per IS8183)
RECOVERY AFTER COMPRESSION	97 % (90% as per IS8183)
CORROSIVENESS	NON-corrosive
CHLORIDE CONTENT	Max 0.0025% (0.01 % as per IS8183)
SULPHUR CONTENT	Max 0.2 % (0.6 % as per IS 8183)
ODOR EMISSION	NOT detected
FUNGI / MOLD /VERMINS	Do NOT encourage growth.
ASBESTOS CONTENT	NIL
VIBRATION SETTLEMENT	0.7 % max (1% as per IS8183)
COMPRESSIVE STRENGTH	< 20 kpa
JOLTING SETTLEMENT	1.4 % max (3% as per IS8183)
MAJOR STANARDS CONFORM TO	IS-8183   IS-3144   IS-9842   IS-3677   IS-3346 ASTM C795   C871   C592   C612   C547   C302   C177

**DHANROCK® Wool Characters and Benefits**

- Fire & Fungus Resistant, Flame Retardant.
- Non-Toxic, Non-combustible, Economical, Does not emit smoke even during intensive fire.
- Has Excellent Thermal, Acoustic & Fire properties
- Resistant to high temperature up to 750° C . Chemically inert & Exceptional long life cycle.
- Free from Asbestos, HFC's and other blowing gases either in the finished product or in the manufacturing process.
- Recyclable, Eco-friendly, value of money.
- Non hygroscopic, Water Resistant. Water Repellant product (optional on demand)

MATERIAL GRADE	NRC (Noise Coefficient value)	SAC (Sound Absorption Class)	Weighted Sound Absorption Coefficient (aw)
RB Slab 48 x 50	0.83	Class – B	0.85
RB Slab 64 x 50	0.88	Class – A	0.90
RB Slab 64 x 100	0.96	Class – A	0.95
RB Slab 96 x 50	0.91	Class – A	0.95

## **Communication Details**

### **FOR TECHNO-COMMERCIAL OFFER**

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### **REGISTERED & HEAD OFFICE**

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### **WORKS**

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***Dhanbad Rock Wool Insulation Pvt. Ltd.***

### ***REGIONAL OFFICES***

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