

.

RHINO ROCK WOOL

Engineered for **Performance**. Built for **Future**.



RHINO PRODUCT VARIANTS

For the first time in India, Rhino – the greenest rock wool will be available in three unique variants. Each variant has been meticulously engineered to meet diverse customer needs, achieving an unprecedented equilibrium between ambitious sustainability objectives and superior performance.

With these three variants, Rhino ensures that every application benefits from high-performance thermal, acoustic, and fire insulation while contributing to a greener future. All Rhino rock wool products such as Resin Bonded Slabs (RB), Wired Mats (WM), Building Rolls (BR), Rhino RockArmor Lamella (RA), Loose Wool (LW) shall be available in these three variants.

rhino elite Peak Performer.

Engineered for those who demand the best, Rhino Elite delivers top-tier thermal and acoustic insulation with a significantly smaller carbon footprint. Delivering a 25% reduction in carbon emissions compared to conventional Cupola furnace rock wool products, it empowers customers to prioritize both performance excellence and demonstrable sustainability leadership.



rhino enduro

Future Perfect.

Rhino Enduro strikes the perfect balance between long term sustainability and robust performance. With a **45% lower** carbon footprint than Cupola-produced rock wool products, it's the ideal choice for customers focused on sustainability and superior thermal and acoustic properties. It's resilient composition and minimized environmental impact ensures longevity and reliable performance for demanding insulation applications.



rhino eco-green World Saver.

For organizations with environmental sustainability at their core, Rhino Eco-Green sets a new global benchmark.

Achieving up to 65% reduction in carbon footprint compared to market alternatives this variant is a testament to our commitment to eco-friendly production. It's the definitive choice for industry leaders in sustainability, and is perfectly suited for commercial, institutional, and residential infrastructure targeting green ratings and certifications.













RHINO PRODUCT RANGE

Explore our range of high-performance stone wool insulation products. At present Rhino Rock Wool Insulation products are available in Elite Variant with ~25% reduced embedded carbon emissions as compared to cupola furnaces. Enduro as well as Eco-Green shall be available by 2026.

Rhino Elite is available in Slabs (SL), Wired Matts (WM), Building Rolls (BR), RockArmor (RA) Lamella boards/strips and Loose Wool (LW), Pipe Cover (PC) (under construction).

The Rhino Advantage

- Innovation: Pioneering electric smelting technology, first in India
- Sustainability: Significant reduction in carbon footprint
- **Performance**: Unmatched fire resistance, thermal efficiency, and acoustic insulation
- Reliability: Durable and long-lasting, ensuring peace of mind for years to come













Rhino Slabs (SL) | Precision-Cut. Powerfully Efficient.

Rhino Slabs (SL) are premium-grade, resin bonded stone wool insulation boards designed for flat and generally large curved surfaces. Manufactured using India's most advanced electric smelting technology, these slabs offer exceptional fire resistance, thermal performance, and acoustic insulation in one robust product. With non-combustibility, high dimensional stability, and water-repellent properties, Rhino Slabs are engineered to deliver decades of maintenance-free performance.

Ideal for building envelopes in residential, commercial, institutional, and industrial structures, Rhino Slabs enable energy savings, improved interior comfort, and enhanced fire safety. The product's ability to withstand extreme temperatures, resist deformation, and provide soundproofing makes it a highly versatile and future-proof insulation choice. Compliant with global standards, Rhino Slabs are easy to install, dimensionally stable, and fire-resistant beyond 1000°C.

TECHNICAL SPECIFICATIONS

Property	Specification			
Density Range	40 – 160 kg/m³			
Thickness Range	25 mm – 200 mm			
Standard Lengths 1000 mm / 1200 mm				
Standard Widths	600 mm / 1200 mm			
Thermal Conductivity ≤ 0.037 W/m·K at 25°C				
	Group 2–5 as per IS 8183:2024; Type II to IV as per ASTM C 612			
Fire Rating	Euro Class A1 (non-combustible); withstands >1000°C			
Water Absorption ≤ 1% by volume (water repellent)				
Compressive	Varies with density (up to 80 kPa at 10% deformation)			
Strength				
Acoustic Absorption	NRC up to 1.0 depending on configuration			
Facing	Aluminum Foil, Alu–Glass, Black Tissue, White Tissue, Kraft Paper			
	(Custom Facings available on request)			
Indian Standards	IS 8183:2024			
ASTM Standards	ASTM C612 (Mineral Fiber Block and Board Insulation)			

Note: Intermediate and custom sizes can be produced on request.











- Fire-safe up to 1000°C
- Low thermal conductivity
- Superior sound absorption
- High dimensional stability
- Excellent for vertical & façade applications

- Roof Insulation (Flat & Pitched): Enhances thermal resistance against solar heat gain and heat loss, particularly in urban and mixed-climate zones
- External Wall Insulation (EWI): Improves façade energy performance and aesthetics; compatible with finishes like panels, renders, or tiles
- **Internal Wall Partitions:** Adds fire-rated separation and acoustic privacy in homes, hotels, hospitals, and offices
- Floor & Ceiling Insulation: Reduces heat transmission between floors and minimizes airborne and impact noise
- Pre-Engineered Metal Buildings (PEBs): Provides structural fire safety and comfort under metal skins
- Sandwich Panels & Prefab Walls: Acts as a core insulation layer in modular, panelized, or industrial wall systems
- Fire Barrier Assemblies: Installed in cavity barriers, fire-stop panels, and compartmentation zones











Rhino Wired Mats (WM) | Flexible Strength. Maximum Protection.

Rhino Wired Mats (WM) are engineered for extreme-duty thermal insulation in high-temperature and high-vibration industrial environments. These mats are made by mechanically stitching stone wool insulation to galvanized or stainless-steel wire mesh, providing both flexibility and mechanical integrity for curved or irregular surfaces.

Their structure ensures form and insulation performance under conditions involving thermal shock, vibration, and mechanical load, making them an ideal choice for insulation in refineries, power plants, process industries, and equipment enclosures. Rhino Wired Mats also offer excellent fire resistance, moisture repellency, and acoustic dampening, adding safety and comfort to demanding applications.

TECHNICAL SPECIFICATIONS

Property	Specification			
Density Range	$80 - 160 \text{ kg/m}^3$			
Thickness Range	25 mm – 120 mm			
Standard Length 1520 mm - 6000 mm (depending on thickness)				
Standard Width	1220 mm			
Wire Mesh Type Galvanized or Stainless Steel (Hexagonal / Welded mesh)				
Thermal Conductivity	≤ 0.037 W/m·K at 25°C			
	Group 2–5 as per IS 8183:2024; Type II to IV of ASTM C 592			
Fire Rating	Euro Class A1 – Non-combustible; withstands temperatures up to 1000°C			
Water Absorption	≤ 1% by volume			
Flexibility	High – conforms to curved and irregular surfaces			
Indian Standards	IS 8183:			
ASTM Standards	ASTM C592 (Thermal Insulation for High-Temp Industrial Applications)			

Note: Intermediate and custom sizes can be produced on request.







- Vibration and thermal shock resistant
- Up to 780°C thermal stability
- Flexible for irregular or large surfaces
- Easy mechanical fixing

- Boilers, Furnaces & ESP: Lined internally or externally for thermal containment and protection
- Process Vessels & Storage Tanks: Insulates large diameter, curved, or vertical equipment
- Refineries & Petrochemical Plants: Applied over pipelines, heat exchangers, or distillation towers exposed to thermal cycles
- Acoustic Machinery Enclosures: Controls noise from engines, compressors, and vibrationheavy systems
- Ductwork & Flanged Assemblies: Used in HVAC systems, smoke extraction, and industrial ventilation
- **OEM Applications:** Suitable for integration into large, fabricated components with customfitting insulation











Rhino Building Rolls (BR) | Seamless Coverage. Supreme Comfort.

Rhino Building Rolls (BR) are flexible, pre-formed stone wool insulation mats specially designed for large-surface coverage. Lightweight yet high-performing, they combine thermal, acoustic, and fire protection in a single layer—making them ideal for horizontal and vertical installations across ceilings, roofs, and duct systems.

Their roll format reduces installation time and material wastage, while still maintaining high structural integrity and flexibility. Rhino BR is the preferred solution for HVAC contractors, builders, and prefabricated manufacturers looking for fast-track and energy-efficient installations.

TECHNICAL SPECIFICATIONS

Property	Specification			
Density Range	40 Kg/m³ - 96 Kg/m³			
Thickness Range	50 mm – 100 mm			
Standard Lengths	5000 mm – 10000 mm (depending on thickness)			
Standard Widths	1000 mm / 1200 mm			
Thermal Conductivity	≤ 0.037 W/m·K at 25°C			
	Group 2 & 3 as per IS 8183:2024; Type I & II of ASTM C 612			
Fire Rating	Euro Class A1 – Non-combustible; withstands up to 1000°C			
Acoustic Performance	NRC up to 0.90 in suspended ceilings or HVAC ducts			
Facing	Aluminum Foil, Alu-Glass			
Indian Standards	IS 8183:2024			
ASTM Standards	ASTM 612			

Note: Intermediate and custom sizes can be produced on request.







- Quick installation
- High coverage with minimal waste
- Excellent fire resistance
- Flexible for ceilings, roofs & ducts

- **Pitched Roofs & Metal Roofing Systems:** Rolls can be inserted between rafters or below purlins for long-span thermal resistance
- Ceiling Insulation (Flat & Suspended): Enhances energy retention in false ceilings and mezzanine slabs
- **Wall Partitions & Cavities:** Provides sound dampening and fire separation in drywall, modular cabins, and partitions
- HVAC Duct Lining: Acts as a fire-rated, thermally stable insulation in supply and return ducts
- **Prefab Cabins & Temporary Structures:** Lightweight and rollable format ideal for mobile and prefabricated applications.











Rhino RockArmor Lamella | Compact Core. Unmatched Rigidity.

Rhino RockArmor lamella boards or strips feature vertically oriented fibers for exceptional compressive strength and dimensional stability. Designed to perform in façade, curtain wall, and cavity fire-stop systems, they maintain form and insulation performance under wind load, vibration, and long-term use.

Unlike traditional resin bonded slabs or board insulations, Rhino undergoes the crimping process designed to compress and fold the fibers in a controlled manner. This action changes the orientation of the fibers from a predominantly horizontal alignment to a more vertical one.

This vertical fiber orientation significantly improves the mechanical characteristics of the Rhino Lamella. Specifically, it increases the tensile strength in the direction of the thickness by 5 to 10 times, making them perfect for exterior insulation finishing systems (EIFS), ventilated facades, and structural fire barriers.

TECHNICAL SPECIFICATIONS

Property	Specification		
Density Range	100 Kg/m³ – 160 Kg/m³		
Thickness Range	50 mm – 150 mm		
Standard Lengths	600 mm / 1200 mm		
Standard Widths 300 mm / 600 mm / custom cavity-fit sizes			
Thermal Conductivity	≤ 0.037 W/m·K at 25°C Group 2–5 as per IS 8183:2024 ; Type II to IV as per ASTM C612		
Fire Rating	Euro Class A1 – Non-combustible; withstands >1000°C		
Compressive Strength	Up to 150 kPa at 10% deformation		
Indian Standards	IS 8183:2024		
ASTM Standards	ASTM C612, ASTM E84, ASTM E136 (Fire and Smoke Testing)		

Note: Intermediate and custom sizes can be produced on request







- Dimensionally stable
- Fire-safe and non-combustible
- Durable under pressure and impact
- Excellent for vertical & façade applications

- Curtain Wall Insulation: Acts as core infill behind cladding or between mullions
- **EIFS / ETICS Systems:** Compatible with render, mesh, and exterior finishes—provides adhesion and fire integrity
- Fire Stop & Compartmentation: Used as cavity barriers between floors and fire zones
- Mechanical Cladding Support: Forms rigid backing for spandrel panels and metal sheeting
- Cold/ Clean Room: For stringent application requirements, used in doors, panels, and metal cladding







Rhino Loose Wool | Flow-Anywhere. Fill-Everywhere.

Designed for irregular spaces, Rhino Loose Wool (LW) adapts to any cavity, ensuring tight packing and maximum insulation even in complex geometries. It's your high-performance fill material for acoustic and thermal control in places where pre-formed options can't reach.

Rhino Loose Wool is an un-bonded, fluffy mineral wool insulation ideal for irregular or hard-toreach voids. It offers the same fire, thermal, and acoustic benefits of rigid boards but can be manually packed or pneumatically blown into complex geometries.

Perfect for industrial cavities, retrofit insulation, and custom-shaped enclosures, Rhino Loose Wool is a non-settling, mold-resistant, and high-fill solution for both thermal and fire containment needs.

TECHNICAL SPECIFICATIONS

Property	Specification			
Packaging Weight	25 kg & 40 Kg per bag			
Thermal Conductivity	0.037 – 0.040 W/m·K			
Fire Rating	Euro Class A1 – Non-combustible; suitable for fire-stopping			
Acoustic Performance	High absorption in confined and layered assemblies			
Indian Standards	IS 3677:1985			
ASTM Standards	ASTM C764 (Loose-fill Thermal Insulation)			

Note: Intermediate and custom sizes can be produced on request











- Versatile fill material
- Easy to apply in hard-to-reach spaces
- Thermal and acoustic insulation
- Fire-safe and mold-resistant

- Furnace & Kiln Cavities: Fills voids in high-heat enclosures.
- Masonry Gap Filling: Used in fire-rated cavity packing in construction joints.
- Valve Boxes, Silencers, Mufflers: Absorbs sound and regulates temperature in small cavities.
- Cold Storage & Refrigeration Units: Reduces thermal bridging in irregular corners.
- Fire-stop & Expansion Relief: Prevents smoke and flame spread through unsealed gaps.
- Cryogenic Tanks & Oxygen Plants: Used in tanks for cavity filling











Product Comparative Overview Page

Product	Fire Rating	Acoustic	Thermal	Flexibility	Applications
Rhino Slabs (SL)	A1	High	High	Medium	Walls, Floors
Wired Mats (WM)	A1	Med-High	High	Very High	Tanks, Boilers
Building Rolls (BR)	A1	Medium	High	Very High	Roofs, Ducts
RockArmor (RA)	A1	High	High	Rigid	Façades, Fire stop
Loose Wool (LW)	A1	High	Medium	Free Form	Cavities, Ovens

Facings in Rhino Stone Wool Products

Facings are protective or functional surface layers applied to stone wool products. They serve multiple purposes, including improved moisture resistance, better mechanical durability, aesthetic finish, vapor control, and ease of installation.

Common Facing Types

- Aluminum Foil: Reflects radiant heat and acts as a vapor barrier, ideal for HVAC and duct insulation.
- Glass Cloth/Glass Tissue: Provides high tensile strength and clean handling for industrial, commercial or residential use.
- Black/White Tissue: Used for visual appeal in ceilings and walls.
- **Kraft Paper:** Suitable for dry internal walls to offer a neat surface finish.
- Wire Mesh (GI/SS): Adds support and structure in high-temperature or vibration-prone environments.
- **Reinforced Foil:** Combines mechanical strength with vapor control and thermal reflection.
- **Custom Coatings:** Tailored finishes for special environments, like marine or cleanroom conditions.















REGISTERED OFFICE: 125, B-Wing, Mittal Court, Nariman

Point, Mumbai 400021, MH, India.

WORKS: APIIC, Industrial Park, Kantakapalli, Kothavalasa, Vizianagaram - 535240, AP

VIZAG OFFICE: D#: 50-96-4/1, Sri Gowri Nilayam, Seethamdhara NE, Visakhapatnam - 530017, AP

For Product Samples or Enquires Contact

sales@rhinorockwool.com +91 99646 74466 www.rhinorockwool.com













