

# **Technical Data Sheet**

## **Sound Proofing Solutions**

### **Product Overview**

Our sound proofing systems are engineered to deliver superior noise control, sound absorption, and vibration isolation for diverse industrial, commercial, and residential applications. Designed to reduce airborne and structure-borne noise, our acoustic insulation solutions improve workplace comfort, privacy, and regulatory compliance. Using high-performance materials like mineral wool, acoustic foam, and mass loaded vinyl (MLV), our systems provide effective sound attenuation while maintaining fire safety and durability.

### **Key Applications**

- Industrial Noise Barriers & Enclosures
- Recording Studios & Broadcast Rooms
- Commercial Offices & Conference Halls
- Educational Facilities & Auditoriums
- HVAC & Mechanical Equipment Noise Control
- Hospitality Venues & Entertainment Spaces
- Residential Soundproofing & Partition Walls

### **Technical Specifications**

#### **1. Acoustic Insulation Materials**

- Mineral Wool / Rockwool Panels (Density: 40–100 kg/m<sup>3</sup>, Thickness: 25–100 mm)
- High-Density Acoustic Foam (Open Cell / Closed Cell)
- Mass Loaded Vinyl (MLV) for Noise Blocking (Thickness: 1.5–5 mm)
- Perforated Metal / Fabric Facings
- Resilient Channels & Sound Isolation Clips



## **2. Acoustic & Physical Properties**

- Sound Transmission Class (STC): Up to 55 (depending on assembly)
- Noise Reduction Coefficient (NRC): 0.75–0.90
- Fire Rating: Class A (ASTM E84)
- Operating Temperature Range: -20°C to +70°C
- Water Vapor Transmission: Low permeability materials used for moisture control

## **3. Installation & Accessories**

- Acoustic Sealants and Fire-Rated Caulking
- Double-Glazed Acoustic Windows and Doors
- Modular Acoustic Panels with Interlocking Systems
- Vibration Isolation Mounts and Pads
- Custom Fabrication for Enclosures and Barriers

## **Product Formats Available**

- Modular Acoustic Wall and Ceiling Panels
- Soundproof Doors and Windows
- Acoustic Barriers and Enclosures
- Acoustic Ceiling Clouds and Baffles
- Acoustic Underlayments and Floor Treatments

## **Compliance & Certifications**

- ISO 9001:2015 Certified Manufacturing
- Compliance with ASTM E90, ISO 10140 Acoustic Standards
- Fire Safety: ASTM E84 Class A
- RoHS and REACH Compliant Components



## Benefits

- Effective reduction of airborne and impact noise
- Fire-safe, non-toxic, and environmentally friendly materials
- Flexible solutions customized for specific acoustic challenges
- Easy, modular installation for fast project turnaround
- Durable performance with minimal maintenance
- Enhances comfort, productivity, and privacy in noise-sensitive areas


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## Manufacturer

Bharath Modern Insulation Company

Specialists in Cold Storage, Thermal & Acoustic Solutions Since 1975

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