

## **Technical Data Sheet**

### **Ducting Solutions**

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#### **Product Overview**

Our ducting solutions are designed to provide highly efficient air distribution while ensuring superior thermal and acoustic insulation performance. Engineered for HVAC and industrial air systems, our ductwork enhances energy efficiency, noise control, and indoor air quality in commercial and industrial spaces.

Whether fabricated from GI, aluminum, or pre-insulated panels, each ducting system is tailored to the project's operational and environmental needs.

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#### **Key Applications**

- Central HVAC systems in commercial buildings
  - Pharmaceutical cleanrooms & labs
  - Industrial exhaust & air supply systems
  - Food processing and FMCG facilities
  - Hospitals and healthcare centers
  - Data centers and controlled environments
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#### **Technical Specifications**

##### **1. Duct Construction Materials**

- Galvanized Iron (GI) Sheets (24G – 18G)
- Aluminum Sheets (0.6 mm – 1.2 mm)
- Stainless Steel (SS 304 / 316)
- Pre-Insulated Duct Panels (PUF/PIR)



## 2. Insulation Properties (Optional)

- **Thermal Conductivity:** 0.032 W/mK (at 24°C)
- **Service Temperature Range:** -50°C to +150°C
- **Sound Transmission Class (STC):** Up to 45 dB
- **Noise Reduction Coefficient (NRC):** 0.75 to 1.00

## 3. Acoustic Treatment (If Required)

- Internal acoustic lining with glass wool or acoustic foam
- Vibration isolators and flexible duct connectors

## 4. Mechanical Properties

- **Support Systems:** GI hangers with rubber grommets
- **Sealing & Air Tightness:** Class C & D as per SMACNA
- **Fire Resistance:** Class 0 / Class 1 (BS 476 Part 6 & 7)

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## Product Formats Available

- Rectangular and round ductwork
- Flexible ducts for return/supply air
- Pre-insulated panels with aluminum foil facing
- Thickness range: 10 mm to 50 mm (insulation)

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## Compliance & Certifications

- SMACNA Standard Compliance
- ISO 9001:2015 Certified Production



- CE Marked and RoHS Compliant
  - Fire Safety Standards: BS 476 Part 6 & 7
  - Environmentally sustainable material usage
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## Benefits


- Enhanced energy efficiency and airflow control
  - Superior noise reduction and acoustic comfort
  - Long service life with corrosion-resistant materials
  - Fast and accurate on-site installation
  - Custom-designed solutions for any project scale
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## Manufacturer

### **Bharath Modern Insulation Company**

*Specialists in Ducting, Thermal & Acoustic Solutions Since 1975*

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