

# Air Distribution Ducts

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### “Engineered Ductwork for Superior Air Delivery”

Air Distribution Ducts by Zeco Aircon are designed to efficiently deliver conditioned air across all types of commercial, residential, and industrial spaces. Available in Rectangular, Round, and Oval profiles, and constructed using premium GI, SS, or Aluminum, our ducts ensure durability, energy efficiency, and optimal airflow. Whether you're outfitting a hospital, data center, or high-rise office, Zeco customized duct systems offer unmatched quality, fast installation, and long-term performance in line with SMACNA standards.

## Features

- Material Composition:
  - Galvanized Steel: Commonly used due to its durability and corrosion resistance.
- Aluminum:
  - Lightweight and corrosion-resistant, often used in coastal or high-humidity areas.
- Shapes and Sizes:
  - Rectangular, Round & Oval
- Custom Sizes can be fabricated to suit specific building designs.
- Insulation Properties:
  - Internal or External Insulation: Reduces energy loss and prevents condensation.
- Leak Resistance:
  - Sealed Joints and Connections: Minimize leakage, enhancing energy efficiency.

## Benefits

- Enhanced Indoor Air Quality
- Improved Thermal Comfort
- Energy Efficiency
- Well-designed ducts minimize air leakage, reducing energy waste.
- Insulated ducts lower heat gain or loss, improving HVAC performance.
- Long-Term Cost Savings
- Efficient air delivery reduces strain on HVAC units, extending equipment lifespan.
- Minimizes maintenance costs with durable, low-maintenance materials.
- Quick Installation: Prefabricated and modular systems speed up installation time.

## Product Technical Specifications - Product Range

### 1. Material Thickness Ranges:

- Galvanized Iron (GI): 0.5 mm to 1.2 mm
- Stainless Steel 304 (SS 304): 0.5 mm to 0.8 mm
- Aluminum (AL): 0.8 mm to 1.2 mm

## 2. Pressure Class:

- Designed to withstand pressures up to 2000 Pa

## 3. Insulation Options:

- Closed-cell nitrile rubber
- Open-cell nitrile rubber (For thermal and acoustic performance)

## 4. Sealing Standards:

- Conforms to Class A, B, and C as per SMACNA standards

# Product Construction Details

## 1. Material Selection:

- Fabricated from high-grade Galvanized Iron (G.I.), Stainless Steel (SS 304), or Aluminum based on project requirements.

## 2. Seam & Joint Technology:

- Uses Pittsburgh or Snap Lock seams, with gaskets and sealants applied at joints to ensure airtight connections and minimal leakage.

## 3. Reinforced Corners & Flanges:

- All duct sections include reinforced corners and flanged ends (TDF/TDC or angle flanges) to ensure structural integrity and easy assembly.

## 4. Surface Finish & Coating:

- Galvanized Steel enhanced corrosion resistance and aesthetic compatibility in visible installations.

## 5. Insulation Options:

- Internal or external insulation available using closed or open-cell nitrile rubber to meet thermal and acoustic needs.

## 6. Automated Fabrication:

- CNC-based cutting, folding, and assembling ensures consistent quality, precise dimensions, and minimal wastage.

## 7. Custom Fit:

- Each duct is tailored as per design drawings to ensure perfect alignment, reduced site modifications, and smoother installation.

# Types of Duct



Rectangular Duct



Round Duct



Oval Duct

# Applications



Commercial Buildings



Healthcare Facilities



Industrial Facilities



Residential Buildings



Data Centers



Educational Institutions



Hospitality



Clean Rooms & Pharmaceuticals



Airports & Transport Hubs



Food & Beverage

## Our Presence



## Sales & Support Offices

Ahmedabad | Bengaluru | Chennai | Delhi | Gurugram | Hyderabad | Jaipur | Kanpur | Kolkata | Mumbai | Pune

### Corporate Office

#### Gurugram

DLF Corporate Greens,  
Tower No. - 4, 12th Floor,  
Southern Peripheral Road,  
Sec - 74A, Gurugram -  
122004, Haryana

### Manufacturing Facilities

#### Haryana

O-1, O-5 and O-3/A,  
Old Industrial Area,  
Bahadurgarh-124507  
Haryana, India

#### Maharashtra

343 & 343/1/A,  
Village Lahe, Mumbai-  
Nashik Highway,  
Taluka Shahpur,  
Thane - 421603

#### Karnataka

Plot no. 124 to 127,  
3rd Phase, KIADB Industrial  
Area, Malur, Distt: Kolar,  
Karnataka - 563130

**Registered Office:** Office No. 105, First Floor, Padma Tower-I, Rajendra Place, New Delhi 110008



1800 911 0070



[www.zecoaircon.com](http://www.zecoaircon.com)



[info@zecoaircon.com](mailto:info@zecoaircon.com)