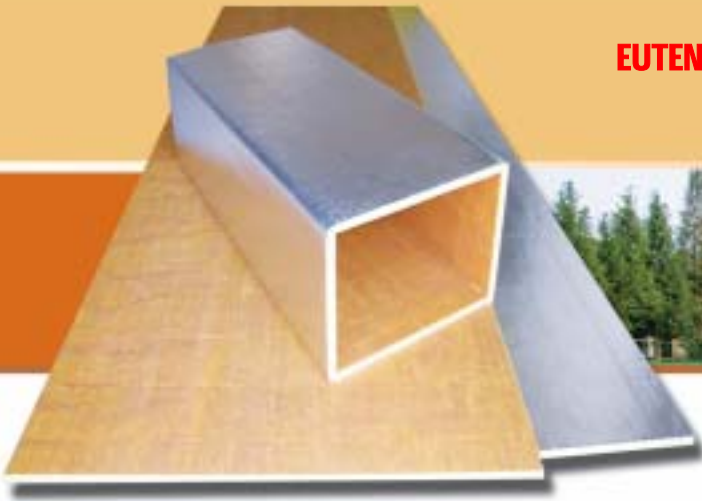


**EUTEND®**

**EUTEND® Air Duct Board and Air Handling Systems**



**Beijing Eutend Technology Co., Ltd.**

## **EUTEND—Leading in Air Handling Systems!**

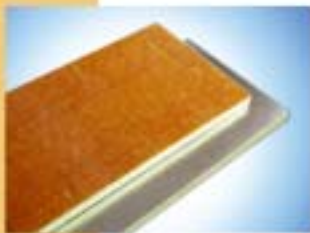
Beijing Eutend Technology Co., Ltd. is a high tech enterprise specializing in construction materials and air duct systems. Our mission is to offer our customers the highest quality insulation materials by utilizing modern R&D techniques and state-of-the-art plant facilities. The manufacturing process of our latest product – Eutend Air Duct Board System is based on our exclusive patent. The result is a product that exceeds all performance requirements, and therefore has been recognized by many insulation experts nationally and internationally as the ultimate air handling solution.



## **Eutend Air Duct Board Product Line**



## Product Descriptions



Eutend Air Duct Board is commonly used in HVAC air handling applications. Our high performance duct board is manufactured from strong, resilient glass fibers bonded with thermosetting resin. This process guarantees a much enhanced product life. The exterior surface of the board is made from reinforced aluminum foil, which has excellent thermal properties and also serves as a vapor repellent air barrier. It is laminated to the glass fiber substrate with special environment-friendly adhesives.



The interior surface of Eutend Air Duct Board features our patented coating system; antimicrobial and ESO water-proof agents are incorporated into the glass fiber reinforced resin surface. Through this technology we achieve minimum fiber exposure towards the air-stream, reduced moisture absorption and mold growth, exceptional durability and superior acoustical qualities.

Eutend Air Duct Board is available in 25mm, 30mm, and 38mm thickness. Standard board size is 3000mm x 1200mm and 4200mm x 1200mm. Eutend Air Duct Boards can be joined to build straight ducts of any of size or length. Duct system components such as tees, offsets, elbows, and transitions may be fabricated from flat duct board.



## Product Properties

- **Typical Physical Properties**

| Property                      | Value                                      |
|-------------------------------|--|
| Operating Temperature         | Inside: <121°C, Outside: <66°C             |
| Maximum Air Velocity          | 30m/s                                      |
| Max Operating Static Pressure | 1000Pa                                     |
| Water Vapor Sorption          | 2.4% by weight at 49°C, 95% R.H.           |
| Water Repellent Rate          | Inner Surface: 98.2%, Outer Surface: 99.3% |
| Fungi and Bacteria Resistance | Bacteriostatic rate > 99%                  |
| Fibre Shedding                | Never                                      |
| Fire Rating                   | GB8624A                                    |

- **Thermal Property**

|  | 25mm Board | 30mm Board | 38mm Board |
|--|------------|------------|------------|
| Thermal Resistance<br>(m <sup>2</sup> . °C /W) | 0.8        | 0.95       | 1.1        |
| Thermal<br>Conductivity (20°C)<br>(W/m.°C)     | 0.033      | 0.033      | 0.033      |
| Heat Flux C<br>(W/m <sup>2</sup> . °C)         | 1.3        | 1.1        | 0.9        |

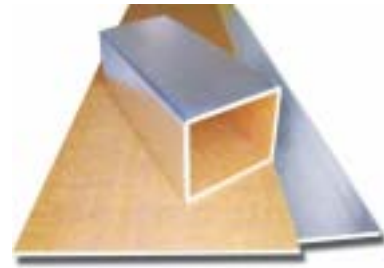
- **Acoustic Property**

| Noise Reduction Coefficient     | 0.65 |      |      |      |
|---------------------------------|------|------|------|------|
| Frequency (Hz)                  | 250  | 500  | 1000 | 2000 |
| Acoustic Absorption Coefficient | 0.35 | 0.70 | 0.63 | 0.84 |

## Product Advantages

- **Excellent physical strength**

Eutend Air Duct Board is manufactured by laminating the reinforced resin surface, the aluminum foil and glass fibers substrate simultaneously. This unique sandwich structure makes our duct boards very rigid and allows for higher operating pressure. Ducts hold their shape longer and require fewer supporting units. Tests have shown that Eutend Air Duct Board offers exceptional structural integrity, abuse resistance and reduced friction.



- **Fire and flame resistant**

Eutend Air Duct Systems are resistant to flame spread from external or internal fire sources, and meet all applicable fire safety standards for use in residential and commercial buildings. Comprehensive evaluation and tests have been conducted by China National Fire Testing Center, which has classified Eutend Air Duct Boards as Class A materials in terms of flammability, smoke intensity, and smoke toxicity.

- **Quiet operation**

Eutend Air Duct System features outstanding noise absorbing characteristics and acoustical properties. The internal air-stream surface integrates micro cavities using our patented coating technology. This design decreases the audibility of crosstalk and equipment noise, and eliminates the sounds associated with the expansion and contraction of sheet metal systems.



- **Efficient insulation**

Eutend Air Duct Board is manufactured from high-intensity glass fibers. At the temperature of 24°C, the thermal conductivity can be as low as 0.033W/m.K, which outperforms any traditional insulation materials of the same thickness. The thermal performance inherent to the Eutend Duct delivers warmed or cooled air at the desired temperatures, ensures minimal energy loss, and reduces condensation problems.

- **Waterproof; Dust and dirt resistant, prevents microbial growth**

Eutend Air Duct Boards are produced with antimicrobial agents integrated into the surface. The agents not merely immobilize but prevent the growth of fungus and bacteria on the interior air-stream surface. Additionally they guard against incursion of dust or dirt into the substrate.



- **Cost effective**

Eutend Air Duct Board System weighs about 1/3 of lined sheet metal duct systems, which significantly reduces the total load of any construction, an ever more decisive factor especially in steel-structured buildings. The light weight requires fewer supporting structures, reducing any building's overall weight and costs. Installation becomes easier and quicker due to the weight advantage as well.



## Tools and Accessories

- **Hand Tools for V-Groove and Modified Shiplap**



- **EUBOND™  
Air Duct Board Foaming Adhesive.**



- **Pressure / Heat Sensitive Tapes**



- **PVC Flange Series**



- **Reinforcement Series**



**EUTEND**

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