



# WALCOOM

Walcoom Corporation



# SOUND BARRIERS

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## "The best choice provider for highway or railway noise weakening"



For over 20 years, Walcoom Corporation has been offering the strong and durable sound barriers products to a wide range of places. We are specialized in sound barriers producing and exporting, and our products include transparent sound barriers and aluminum sound barriers. With high strength and firm structure, they are popular for highway or railway noise weakening. Advanced

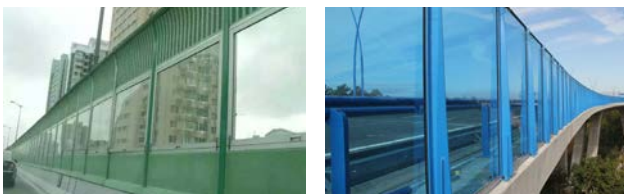
production equipment, skilled workers, professional sale representatives and considerate after sale service contribute our high quality products and long term cooperation with our customers.

**Sound barriers** is also called noise barrier or acoustic barriers, including transparent sound barriers and aluminum sound barriers. Transparent sound barriers has glass-like appearance; aluminum sound barriers panel has round or louver holes and light weight. They both have high strength and firm structure. With easy installation and long service life, Walcoom sound barriers are widely used in business offices, residential areas, factories. Besides, they are popular on highways and railways to reduce noise pollution.

**Compared with concrete sound barriers, our sound barriers products** has various types for various applications. They are popular for the high strength, beautiful appearance and long service life. And they have the following advantages: easy installation and less project time to be spent; not affected by cold climate and no cracks; recyclability and friendly to the environment; available to any place like narrow space.

## Feature of sound barriers

- High strength and firm structure.
- Perfectly reduce the noise pollution.
- Harsh environment resistance.
- Easy installation and maintenance.
- Durable and long service life.



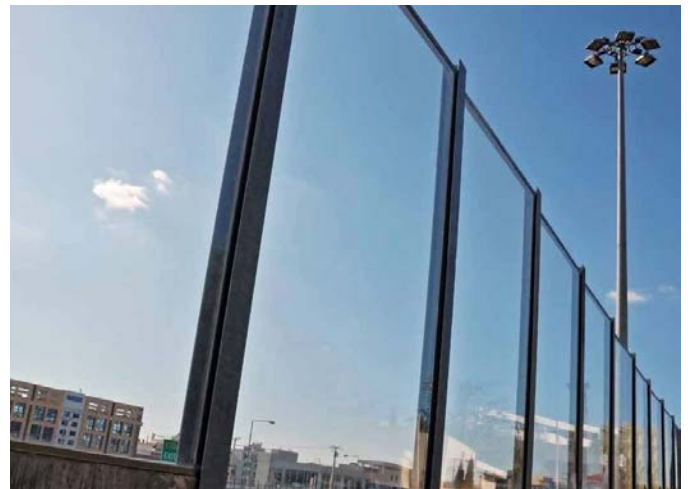
## Application of sound barriers

- Used in business offices.
- Used in residential areas.
- Used in factories.
- Used along highways.
- Used along railways.
- Used on the roadsides.
- Used on airport runways.
- Used on bridges or overpasses.

## Transparent sound barriers



Transparent sound barriers includes polycarbonate sound barriers and acrylic noise barrier. They both feature the glass-like appearance and high light transmission. They are so strong and unbreakable that they will not deform or crack. And they have beautiful colors for aesthetic effect. With easy installation and cleaning, long service life, transparent sound barriers are widely used for business office, residential area, highway, railway, bridge acoustic barriers and so on to perfectly reduce the noise pollution and give people a good sleep.



## Specification of transparent sound barriers

### • Types of transparent sound barriers

#### • Polycarbonate sound barriers

**Specifications of polycarbonate barriers:** see table 1.

#### • Acrylic noise barrier

- **Thickness:** 15 mm, 18 mm, 20 mm, 25 mm, 30 mm.
- **Width:** 1250 mm, 1500 mm.
- **Length:** 1850 mm, 2450 mm, 3100 mm.
- **Colors:** clear, milky, opal, black, green, etc.
- **Packaging:** PE film and pallets for safe delivery.
- **Guarantee:** 10 years.

- Strong and unbreakable, not deform or crack.
- Perfectly reduce the noise pollution.
- Glass-like appearance, high light transmission.
- Corrosion, UV and harsh weather resistance.
- Beautiful colors for aesthetic effect.
- Easy installation and cleaning, long service life.

## Advantage of transparent sound barriers

**Table 1: Specifications of Polycarbonate Sound Barriers**

| Item   | Thickness (mm) | Weight (kg/sqm) | Min. Bending Radius (mm) | Width (mm)                   | Length (mm) | Color  |
|--------|----------------|-----------------|--------------------------|------------------------------|-------------|--|
| PSB-01 | 1.5            | 1.8             | 180                      | 1220<br>1560<br>1820<br>2100 | 3000        | clear<br>blue<br>green<br>opal<br>blue-green<br>light-green<br>brown |
| PSB-02 | 2.0            | 2.4             | 300                      |                              |             |  |
| PSB-03 | 3.0            | 3.6             | 450                      |                              |             |  |
| PSB-04 | 3.5            | 4.2             | 520                      |                              |             |  |
| PSB-05 | 4.0            | 4.8             | 600                      |                              |             |  |
| PSB-06 | 5.0            | 6.0             | 750                      |                              |             |  |
| PSB-07 | 6.0            | 7.2             | 900                      |                              |             |  |
| PSB-08 | 7.0            | 8.4             | 1050                     |                              |             |  |
| PSB-09 | 8.0            | 9.6             | 1200                     |                              |             |  |
| PSB-10 | 10.0           | 12.0            | 1500                     |                              |             |  |
| PSB-11 | 12.0           | 14.4            | 1650                     |                              |             |  |

## Aluminum sound barriers



Aluminum sound barriers, made of high quality aluminum steel, has three-layer structure. The first layer is perforated absorptive aluminum sheet with round holes or shutter aluminum sheet with louver holes; the second layer is sound absorbing material infill, such as glass wool; the third layer is reflective aluminum sheet with smooth surface. Aluminum sound barriers features the non-corrosion nature and light weight, and it is widely used for highway noise barrier.



## Advantage of aluminum sound barriers

- High strength and firm structure.
- Perfect noise absorbing and weakening.
- Special corrosive resistance.
- Light weight and easy installation.
- Durable and long service life.

## Specification of aluminum sound barriers

- **Material:** aluminum steel
- **Surface treatment:** plain, powder coated.
- **Panel thickness:** 80 mm, 100 mm, 120 mm.
- **Length:** 2000 mm, 2500 mm.
- **Width:** 500 mm.
- **Plate thickness:** 0.5-1.2 mm.
- **Flange plate (mm):** 250 × 250 × 10, 300 × 300 × 10, 350 × 350 × 10, 400 × 400 × 10.
- **H-post (mm):** 100 × 100 × 6 × 8, 125 × 125 × 6.5 × 9, 150 × 150 × 7 × 10, 175 × 175 × 7.5 × 11.
- **Types of sheet surface:** flat panel, uneven panel.
- **Types of sheet hole:** round hole, louver hole.
- **Types of barriers shape:** common shape, arc shape, knuckling shape, top arc shape, top knuckling shape, irregular shape.
- **Three-layer structure of aluminum sound barriers**
  - **Layer 1:** perforated aluminum sheet or shutter aluminum sheet.
  - **Layer 2:** sound absorbing material infill, such as glass wall.
  - **Layer 3:** aluminum sheet with smooth surface.

## FAQ about sound barriers

### ● Why sound barriers is urgently required?

With the development of economy, the number of vehicles and factories are rapidly increasing. They have greatly improved the level of people's living. Simultaneously, excessive noise pollution has been a hazard and caused serious effect to people's health and daily life, especially for children and old people. The people who have serious heart problem may have risk when a sudden noise occurs.

### ● What is the noise damage to health?

Generally speaking, the damage from noise depends on the level of noise and the length of time you listen to the noise. Noise levels can be measured in decibels or dB. The higher the decibel level, the worse to hearing loss. It is known that sounds are higher than 85 dB can cause permanent hearing loss.

### ● What is reflective sound barriers?

A noise barrier system can be roughly divided into reflective sound barriers and absorptive sound barriers. Reflective barriers such as stone and aluminum have hard and smooth surface and thus block sound toward the resources or beyond. When the sound wave hits hard surface, some energy is transmitted through the wall but the bulk is reflected back.

- **What is absorptive sound barriers?**

Absorptive noise barrier are usually designed with perforated holes or slits on surface. They make easy transportation of the sound into the interior of the wall. In the interior part, it is filled with soundproofing materials such as fiber glass and wool glass which can eliminate noises.

- **What is clear sound barriers?**

Clear sound barriers refers to the transparent sound barriers, including acrylic sound barriers and polycarbonate sound barriers. They are prior alternatives among many types of soundproofing options because of the glass-like appearance. Clear sound barriers offers a clear view along the way. It will not disturb your enjoyment of the countryside view when you are in a bus, train or car. Besides, 90% light transmission will not darken the road.

## Hot products

- Acrylic sound barriers.
- Polycarbonate sound barriers.
- Aluminum sound barriers.

## Our services

- Free consultation service.
- Strict inspections during production and before delivery.
- After sale service.

## Information supplied by the purchaser

The following information shall be supplied by the purchaser at the time of inquiry or order:

- Type.
- Size.
- Color.
- Quantity.

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