



We are
ARAMCO Approved #: 10062193, MAADEN Approved # : 39136, SABIC Approved # 11048598

CIVIL Acoustics Products

PRODUCTS LINE UP- CIVIL



ACOUSTIC DOORS (WOODEN & STEEL)
ACOUSTIC PARTITIONS (FIXED & STACKABLE), FIRE DOORS



ACOUSTIC LOUVERS



FLOATING FLOOR



ACOUSTIC TREATMENT (COOLING TOWER/
CHILLER/ GENERATOR/FAN ROOM ETC.)



ARCHITECTURAL LOUVERS/ SAND TRAP LOUVERS
(AMCA UNDER PROCESS)



ACOUSTIC BARRIERS



ACOUSTIC UNDERLAY (RUBBER,
CROSS- LINKED RUBBER &
POLYETHYLENE) (SPAIN)

ARCHITECTURAL LOUVERS/ GRILLES-WEATHER RESISTANT



ARCHITECTURAL LOUVER/ WEATHER RESISTANT LOUVER

FEATURES

- Weather-resistant louvres give good protection against the direct ingress of rain, leaves and birds.
- Frame and blades - made of GI or Extruded AL -as per specifications
- Wire Mesh (optional)
- Color/ Coating- as per specifications

APPLICATION

USED FOR WIDE RANGE OF HVAC EQUIPMENTS SUCH AS COMPRESSORS, AIR HANDLING UNITS, FANS, PUMPS AND CHILLERS, FAN COILS, PACKAGE UNITS, COOLING TOWERS ETC.

**** for cross section/ free area/ pressure drop/ selection- please contact sales office for more information.**

**** Sound data is available upon request**

FIRE tested as per BS 476 PART 20 (for Fire grilles)



ARCHITECTURAL WEATHER LOUVER



DESCRIPTION

- ▶ Weather-resistant louvres give good protection against the direct ingress of rain, leaves and birds. Aircoustics AWRL range is Weather-Resistant-
- ▶ Louvres are designed to provide good protection against the same. Mounting is available both Flush and flange mounting. Special mounting design is available upon request.

Special designs:

- ❖ **Both split and linear construction** are possible, and details are available upon request. Usually for the cross section more than 4 m² or as per site condition. **
- ❖ **Drainable louvres** reduce water penetration from non-wind driven rain. Blade gutters direct water sitting on the blades to vertical down spouts in the louver. e.g. Outdoor Generator/ plant rooms.
- ❖ **Economical, Non-Drainable louvers** should be used in applications where ventilation is important and water penetration is unlikely to occur. e.g., for Car parks

RANGE

AWG	AWGE	AAWG	AAWK	AWG-F
• Frame and Blades are of Galvanized steel sheet • Flange drilled as standard • Wire-mesh of GI • 60% FREE cross section area**	• Frame and Blades are of Stainless steel • Wire-mesh of SS • Flange drilled as standard • 60% FREE cross section area	• Frame and Blades are of EXTRUDED Aluminum section • Wire mesh of Galvanized steel • Flange drilled as standard • 60% FREE cross section area**	• Frame and Blades are of EXTRUDED Aluminum section- (Natural Anodized) • Wire mesh of Galvanized steel • Flange drilled as standard • 60% FREE cross section area**	• Frame, Blades and Mullions are from Galvanized or Aluminum construction • Mullion is powder coated standard RAL 9005 • Mullion is drilled at side to connect the louver sections together or to site support structure. • Wire mesh is of Galvanized steel • 50% FREE cross section area

ACOUSTIC LOUVERS



ACOUSTIC LOUVERS

FEATURES

- Heavy Gauge Frame
- Withstand minimum design load of 30 psf (146.5 kg/m²)
- Multi section possible enable to assemble at site
- Coating as per specification- Baked enamel/ Kynar/ Anodized/ prime coat finish etc..
- Color as per Specifications can be provided
- Water penetration 0.01 oz/ ft² of free area** (*please contact sales office for more information*)
- Available in 100,150,300,600,900 mm thickness

Sound Reduction Index (SRI) tested in independent laboratory as per BS ISO EN 140-3:1995 standard.



ACOUSTIC LOUVERS

DESCRIPTION

Acoustic louvers are used to prevent noise breakout from an air inlet or outlet of a plant room, building or enclosure whilst allowing ventilation air transfer. They have varying acoustic performance depending on the type of aerodynamically designed blades is used and the depth of the acoustic louvre demanded by the design.

Aircoustics certifies that the water penetrations and air performance ratings have been verified by private testing. Test and procedures were performed in accordance with AMCA publication 511.

Multi section possibility in design enables ease to assemble at site

RANGE

Acoustic louvers:

AAL- 1045/ 1545/ 2035/ 3035/ 3045. Usually designed to have both sound absorptive and improved STL characteristics. Material could be Aluminum or Steel as per specification

AALD 2035/ 3035: Usually designed to have both sound absorptive and improved STL characteristics. Material could be Aluminum or Steel as per specification.

MATERIAL

- Louvers are with mill finish in standard Aluminum construction& Blades extruded aluminum with water drain
- Frame extruded aluminum with vertical drain channel, joined with corners and screws
- The construction is with stationery airfoil blades or rectangular ones.
- The construction material can be as per specification i.e., **Aluminum/ GI/ Stainless steel.**
- Coating - Baked enamel/ Kynar/ Anodized/ prime coat finish etc. or as per Specifications can be provided**



ACOUSTIC BARRIER



FEATURES

- Offers exceptional transmission loss i.e., 14 Db at 125 Hz**
- Rust proof finish
- Cleanable with water and mild detergent periodically
- GI/AL/PVC/Vinyl coated material and finish available
- Special options- brick/stone/wood-consult our sales office
- Structural steel work upon request
- Louvered and solid barrier options

*** (please contact sales office for more information)*

STC 36 tested in independent laboratory as per ASTM standards.

ACOUSTIC BARRIER

DESCRIPTION

- "Out of sight is out of ears" can be referred as the basic principle of blocking or diffraction of longer wavelength size or same wavelength size than the barrier size. An acoustic barrier (sometimes also called a 'noise barrier') is designed to protect people close to the source of a noise. Common noises which can be treated with acoustic barriers include construction work, industrial sites, roads/motorways, and quarries. Sound absorptive surfaces reduce the reverberant build up between parallel barriers and other reflective surfaces- this enhances the ability of barrier to attenuate noise.
- Aircoustics products and structures are designed to built in accordance with numerous international standards and specifications. AFZE has been assessed and accredited with the ISO 9001: 2008 Quality standard.
- Aircoustics designed AAB model is a range of acoustic barrier which Offer exceptional transmission loss i.e. 14 Db at 125 Hz**.
- ** Sound data is available upon request- for more information on design and product please contact our sales office.
- ** Design calculation for barrier is available by our expert Acoustic Engineers. **
- Aircoustics offer complete design, manufacturing and installation services including all necessary structural steel work or an expert supervision is provided to ensure the performance is

RANGE

Free standing barriers

- **AFS/ ASFS-** Usually designed to have both sound absorptive and improved STL characteristics. Material could be Aluminum or Steel as per specification.
- **AFS-** designed long side the noisy equipment/ source.
- **ASFS-** designed for free standing between multiple sound source/ equipment
- Offers excellent Sound Transmission Loss (STL) characteristics.
- Suitably designed for rapid assembly from prefabricated components.
- Desired height can be achieved by **stackable panels** between steel posts.

Cladding module

- A special design that comes with acoustic panels which are fabricated in such a way to easily attach to a new or existing structure thus improving the acoustic performance. Material available in Aluminum and steel.

Model

- **AC: 64** mm / **AC12** : 76 mm thickness/ **AC 38** :102 mm thickness
- The sound absorptive cladding modules are good for reducing reflective sound/ Suitable to apply on new and retrofits
- Can be applied on metal/ wood/ brick/ concrete/ stone or any other noise reflecting surfaces. Enhances the sound absorption on 125 Hz

Louver screens

- Are aesthetically pleasing looking product that allows the ventilation yet provides acoustic performance
- Suitable for mechanical service plants (pumps/ compressors and chillers)

MATERIAL

- Aircoustics AAB barrier is with rust proof finish
- Product is designed to be Cleanable with water and mild detergent periodically
- Construction and finish have a wide choice: GI/AL/PVC/Vinyl coated material
- Available in Special options- brick/stone/wood**
- Desired RAL color and different coating is available to choose from Kynar/ powder coating/ Anodized finish etc.





ACOUSTIC UNDERLAY



FEATURES

- Sound reduction up to 26dB
- Sustainable rubber fiber composition
- Maintains resilience over time
- Resistant to mold and mildew
- PVC free product
- Lightweight; Easy to install
- Approved for underfloor heating
- Made in Denmark from recycled tires
- Odor-free / low-VOC
- Produced with 50% wind energy
- LEED / BREEAM certified

*** (please contact sales office for more information)*

LEED/ BREEAM *Certified*
Impact test for sound reduction *as per DIN EN*
ISO 10140

ACOUSTIC UNDERLAY

DESCRIPTION

- ▶ "Excess of everything is bad" and same goes for excessive exposure of loud noise or impact sound that can cause increased tiredness, lack of concentration, problem with sleep which in long run would result in chronic disease.
- ▶ TEXIMPACT- underlay is a product from Spain and manufactured in accordance to CTE-DB-HR, EN ISO 140-1, EN ISO 140-3, EN ISO 140-6, EN ISO 140-8, EN ISO 717/1/2. The Quality management system is according to ISO 9001.
- ▶ TEXIMPACT Acoustic underlay dampens sound by separating the floor covering and the subfloor with a thick, dense, insulative layer of felt, Closed cell membrane by absorbing sound energy before it can reach the rooms below. A careful selection and installation can improve the living ambience and make the atmosphere serene. The material is available in 6 m and 10 mm thickness.

MATERIAL

- High performance cross-linked polyethylene closed cells membrane
- 1 m² of TEXIMPACT will approximately cover 90 m² of surface, including the overlaps

BENEFITS

- High impact noise reduction
- Separates and insulates the sound from dropping of object/ footsteps, furniture movements, etc.
- Impact noise insulation: ΔL_w 24 dB**
- Airborne noise reduction: 7.5 dBA**
- Very high compressive strength
- Dynamic stiffness of 57.7 to 87 MN/m³ / Durable mechanical properties
- Minimum loss of thickness under loading situations
- Lightweight, flexible, easy to handle, cut and adapt to any surface
- Waterproofed
- Underfloor heating approved
- CFCs-free/ Odour-free / low-VOC

APPLICATION

IMPACT NOISE INSULATION FOR ANY KIND OF FLOORS

AS A SEPARATING /DAMPENING LAYER FOR THOSE APPLICATIONS WHERE DIFFERENT CONSTRUCTION ELEMENTS MUST BE SEPARATED.

HOTEL/ SERVICES APARTMENTS

OLD AGE HOMES/ STUDENT ACCOMMODATIONS

CONDOMINIUMS`



ACOUSTIC DOORS/ STEEL & WOODEN



FEATURES

- Guaranteed performance -site tested to International standards
- Complete size flexibility
- Door Jamb-for both in built and retrofit jobs
- Acoustic seals in built
- Rugged construction for long life
- Finish as per specifications
- Foldable steel doors are available
- Single and double leaf doors with **STC 50** and **45** respectively.

*** (please contact sales office for more information)*

Rw 47 tested in independent laboratory as per BS EN ISO 10140-22010 standards.



ACOUSTIC DOORS



DESCRIPTION

- ▶ Aircoustics acoustic wooden/ steel doors are extremely high-performance sound reducing door sets. These high-quality door sets are available in a wide range of finishes and are fire rated. The doors are filled with an inert non-combustible vermin proof acoustic absorber and is fitted with standard door hardware. All acoustic doors are tested in accordance with International standards.
- ▶ Aircoustics offer complete design, manufacturing and installation services including all necessary structural steel work or an expert supervision is provided to ensure the performance is not hurt.

MATERIAL

Wooden Doors

- Wooden Doors are with Veneers finish.
- Paint primer finish and full range of RAL colour is available
- Print grade laminates are standard but other proprietary laminate finish is available on request
- Available in Special options- brick/stone/wood**
- Desired RAL color and different coating is available to choose from Kynar/ powder coating/ Anodized finish etc.

Steel Doors

- Door and door frame is manufactured in Galvanized steel sheet.
- Print grade laminates are standard but other proprietary
- Standard bulkhead doors are fitted with positive action seals suitable for personal access.

BENEFITS

Wooden Doors

- High performance version is called AIRCOUSTICS 44 and it has a sound reduction of RW 44 Db.
- Medium performance has Rw 35 and model is AIRCOUSTICS 35. Other performances i.e. 38 or others are available at request.
- Wooden door 35 Db are FD60 and 44 Db are FD 30 fire tested.
- Available in single and double leaf construction.
- Vision panels glazed in clear 17 mm fire and acoustic safety glass are provided on all 35 Db doors.
- Perimeter seals are integrally fitted in the frames and an automatic lift threshold seal at the base of the door leaf
- Special vision glass and seals upon request

Steel Doors

- Steel doors are available with single leaf and double leaf construction
- Single leaf is with STC 50 and double leaf has STC 45 Db performance
- Door jamb is designed for build-in or retrofit installations.
- Choice of finishes
- Rugged construction for long life and low maintenance
- Complete size flexibility
- Foldable doors option

Contact us



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