

TECHNICAL  
PRODUCTS  
FOR  
**OEM**  
INDUSTRIES





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# FOAM SOLUTIONS FOR AUTOMOBILES & RAILWAYS

In the automotive industry, lowering the weight of an average car is a challenge. Aerofoam® can supply low density foam that lowers the overall weight of the vehicle and helps in reducing fuel consumption. Aerofoam® is chemically neutral, which helps in preventing corrosion. Aerofoam® can be used in commercial and private vehicles. Aerofoam® automotive foams can be used in different applications like acoustic and thermal insulation, and in some cases as water seal.

Aerofoam® engineered foams are versatile and can be used in various other applications including anti-fatigue mats and all-purpose box liners to name a few.

They are often used with equipment as thermal and acoustic solution for compressors, fans, engines, pumps, and AC units. Technical foams can be custom made and are available in different structures, colors, density and mechanical features.

Aerofoam® is the best suited product for acoustic and thermal insulation in the mass transit industry. Aerofoam® consists of cross-linked polyolefin and elastomeric foam. The fire and smoke toxicity properties meet the American, European and British standards.

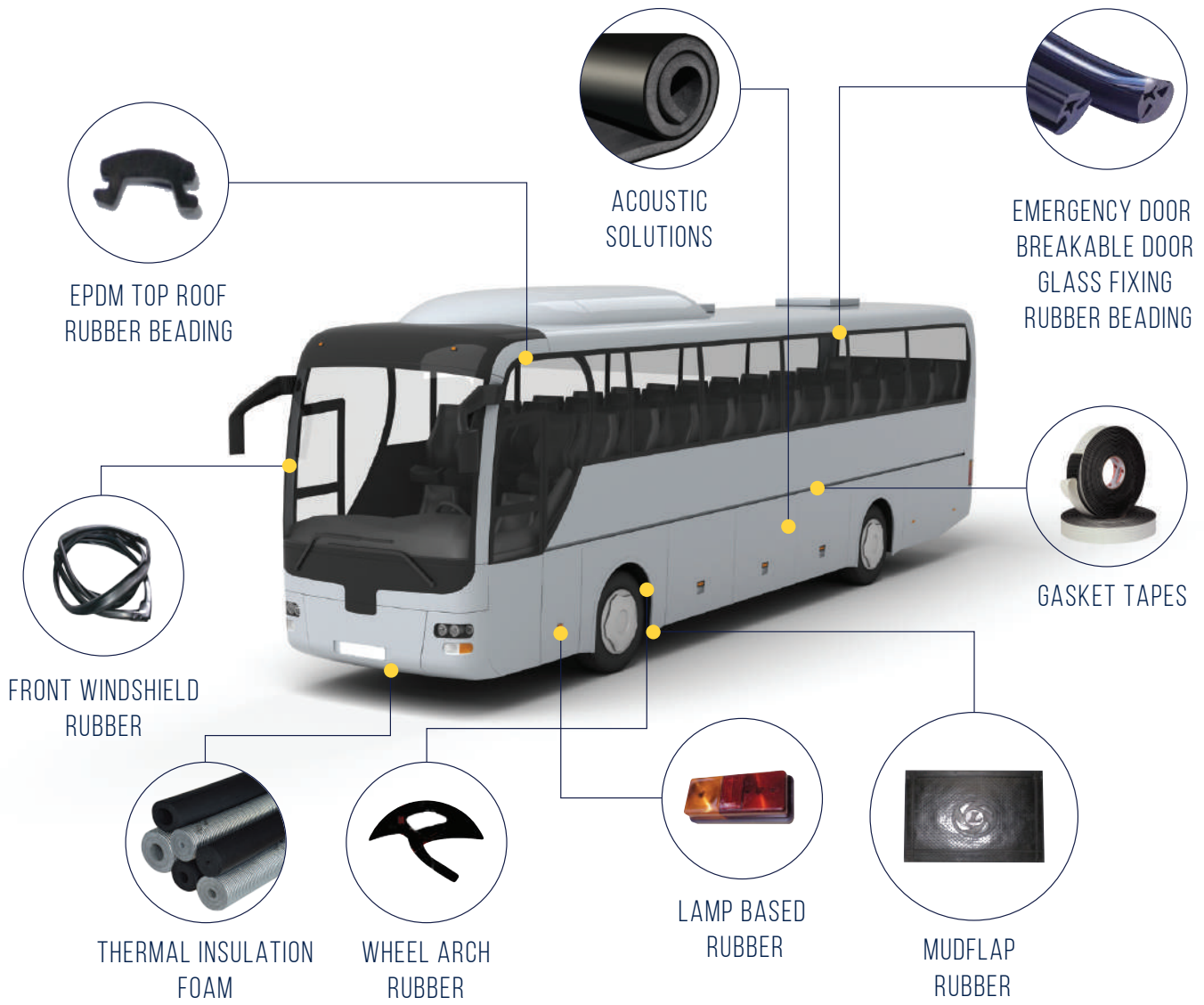
**Neoprene Gasket Tapes** provides good compression recovery, flammability ratings, good chemical and UV resistance for any type of joints. Also referred to as foam rubber tape, rubber weatherseal, sponge rubber tape, foam rubber weather seal and sponge rubber foam.



## AUTOMOTIVE PROFILES

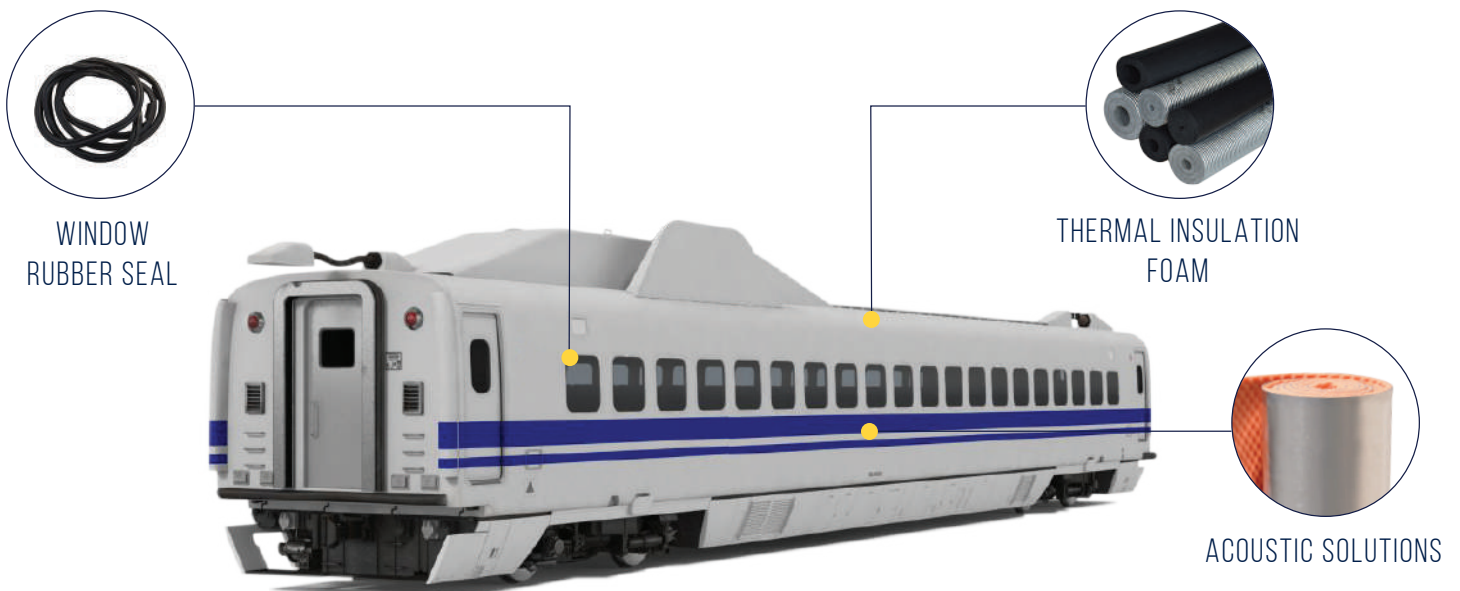
Rubtech™ solid sponge co-extruded profiles are used around doors of automobiles to keep water and dust out. Their two parts - the solid fastening and the seal (bulb and/or lips) in sponge rubber are co-extruded. They provide perfect sealing and at the same time are unaffected by climatic conditions and fluctuating temperatures.





## OTHER RUBBER PARTS:

- Door Stopper
- Head Lamp Rubber
- Gear Shift Knob Rubber
- Battery Cover
- Engine Mount Rubber
- Coolant Tank Rubber Cover
- Footstep Beading
- Cord Bumper Stopper
- Number Plate Outer Rubber



# GENERATORS

Generators are proven to be of great importance, especially in places where power shortages are frequent and prominent. It uses high levels of kinetic energy and diesel to generate enough electricity to power a house. However, the speed at which the power box operates produces heat, vibration and sound.

## FOAMS FOR THERMAL & ACOUSTIC SOLUTIONS

Sound vibrations and noise can be generated from a vast range of sources causing discomfort to others in different rooms and floors and disrupting the daily activities. AeroSound® is a range of acoustic solutions that helps in absorbing sound and dampening its impact to prevent the sound to be transferred to other rooms. It has been designed to provide acoustic comfort in every possible circumstance, ensuring a peaceful and content environment for all. On the other hand, Aerofoam® offers thermal insulation solutions to reduce heat transfer from Generators to maintain a safe temperature of the outer casing.

Neoprene Gasket Tapes are used for any type of joints. It works as a sealant and a bond between the metal surfaces. For example, to seal the door frames.



- Excellent noise reduction index
- Available in closed cell & semi open cell structure
- Excellent noise reduction index
- Low water vapor permeability

## VIBRATION ISOLATORS

Anti-Vibration Mounts, also known as AV Mounts are key components for reducing noise and vibration in heavy machinery and equipment like electric generators, motors, etc. Anti-Vibration Mounts are a low cost and effective component with a wide variety of uses.



Spring Hanger



Cup Spring Mount



Housed Spring Mount



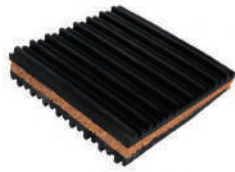
Rubber Floor Mounts

## ANTI-VIBRATION PADS

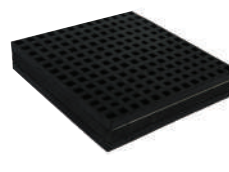
Anti-Vibrating Rubber Pads are a form of Vibration Isolators which helps in preventing the vibrations from equipment and machinery to spread across the floor and other part of the infrastructure. These Vibration Isolator Pads offer the highest level of sound attenuation and can be easily installed as most of them have high load capacity.



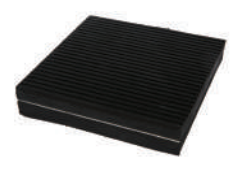
Ribbed Mounting Pad



Cork Sandwich Pad



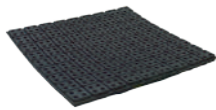
Square Cell Multi Layer Pad



Metal Sandwich Pad



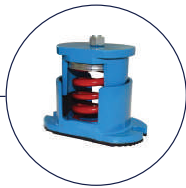
Ribbed Multi Layer Pad



Waffle Pad



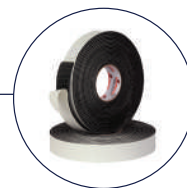
Square Cell Pad



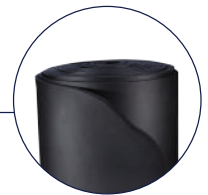
VIBRATION ISOLATOR



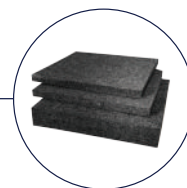
SOUND BARRIER



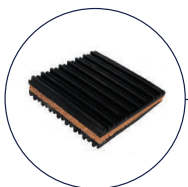
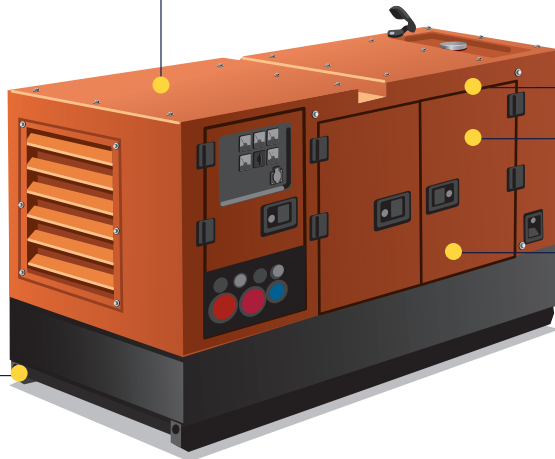
GASKET TAPES



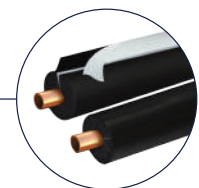
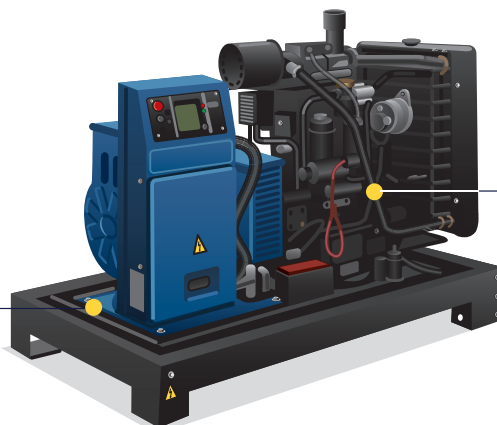
THERMAL INSULATION  
FOAM



SOUND ABSORBING FOAM



ANTI-VIBRATION PAD



SELF SEAL  
THERMAL INSULATION  
TUBES

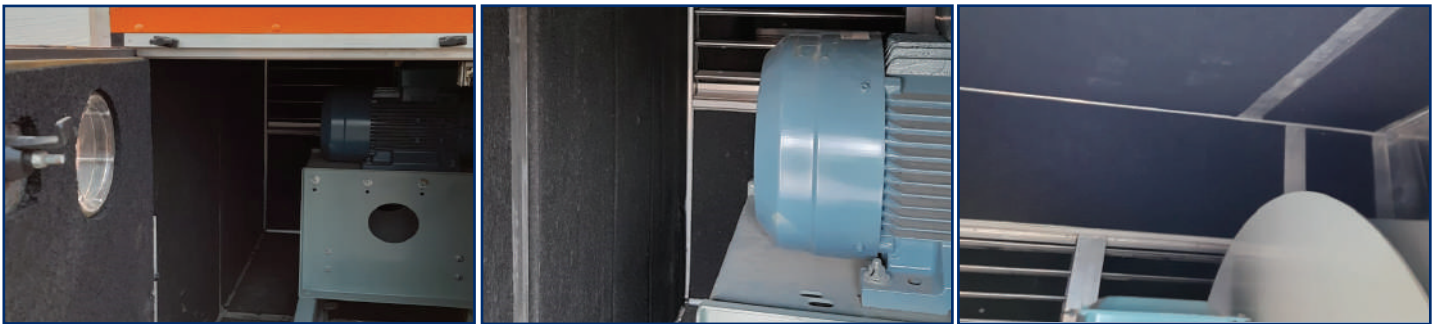
# APPLIED HVAC EQUIPMENTS-OEM

HVAC is a widely growing industry that helps in regulating temperatures in buildings and structures. It consists of a variety of equipments that operate differently and require a diverse range of accessories to control the thermal conductivity and the sound produced as a result of complex mechanism.

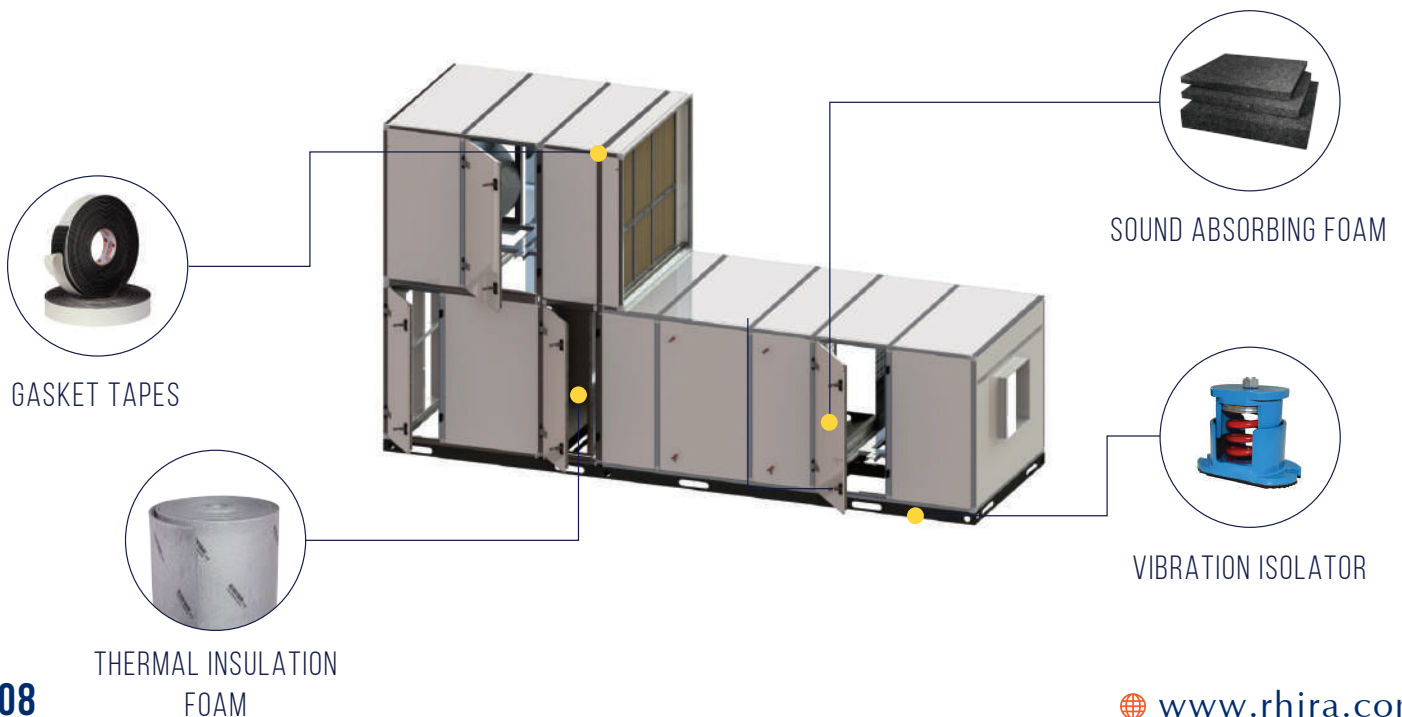
AeroSound® provides acoustic solutions for AC outdoor units as the sound absorbers help to reduce the sound generated by the compressor and the fan.

Neoprene Gasket Tapes are used for any type of joints. It works as a sealant and a bond between the metal surfaces. For example, to seal the door frames.

Vibration Isolators are required to be installed at the base to control vibration caused by the AC equipment. Different types of Vibration Isolators and Anti-Vibration Pads are available and have multiple applications.



- Foam is customizable & much easier to install which provides ease of assembly during production & longer life expectancy of the product.
- The foam is used for acoustic insulation & thermal insulation for panels of the AHU.
- A lot of companies are switching to foam for its eco-friendly, anti-fungal, anti-bacterial properties that contribute to hygienic indoor air quality.
- CFC free, low thermal conductivity, fire rated customizable densities can be manufactured as per customers requirements.





# RUBBER SEALS & PROFILES

Rubtech™ specializes in manufacturing a range of extruded and molded rubber products. We provide technical services and customized products as per customer specifications for industrial, marine and OEM's.

## APPLICABLE TO VARIOUS INDUSTRIES

- Oil & gas
- Marine industry
- Transportation
- Mechanical & electrical
- Hydraulic system manufacturers



## CONTAINER SEALS

Rubtech™ container seals are used to prevent air, moisture and water from entering the container and they help in preservation of the stored articles.



## SPONGE PROFILES

Rubtech™ sponge EPDM profiles find application in buildings for insulation purposes /FRP tank panel/automotive industry and keep out dust, moisture and water.

They are perfectly ambient and have qualities of being weather resistant and long lasting



## EPDM PROFILES

Rubtech™ EPDM profiles are used in building construction industries for aluminum frames of doors and windows sliding/hinged type.



## SILICONE PROFILES

Rubtech™ manufactures silicone sponge profiles tailored to your exact specifications. Owing to the varying complexities being evaluated on an individual basis, silicone sponge profiles are available in all custom-made designs. We provide the silicone sponges for clean rooms, telecom shelters, air tight door seal applications, bakery ovens, freeze doors, autoclaves, isolators, dry heat sterilisers and more.

# MARINE INDUSTRY

Aerofoam® thermal insulation solutions are essential to reduce the transfer of heat from within the ships and to maintain an ambient temperature in the vessel. The risk of overheating can be reduced by installing Aerofoam® insulation solutions that help in regulating the temperature of the machines and reducing the fuel consumption of generators and AC systems.

Marine vessels require huge machines and equipment to operate, producing loud noises that could cause discomfort to the passengers in the vessels making it essential to use acoustic insulation in the ships and boats as well. Acoustic insulation can be installed in engine enclosures, bulkhead, partition walls, plant rooms and mechanical services room to absorb or insulate the sound generated from the engine. For the large vessels, thermal and acoustic foams can be used for the duct ventilation systems in combination with AC.



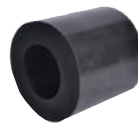
## FENDER SYSTEMS



W & M Fender



Cell Fender



Cylinder Fender



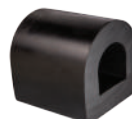
Block Fender



Arch Fender



Wing Fender



D Fender



Cone Fender

## CUSTOMIZED SOLUTIONS



Hira Industries can undertake development of a fully customized solution and support the full manufacturing life cycle from product conception to execution based on the need and specific requirements of the industry.

For customized solutions as an OEM, we provide you ready access to our customer focused, solutions oriented, technology based cutting edge team of experts with decades of experience. With an established and efficient global supply chain and state-of-the-art manufacturing facilities, we provide superior quality, custom solutions on time with utmost dedication and diligence.

# PACKAGING SOLUTIONS

Aerofoam® range of products are ideally suited as the material itself or as a component material in shock absorbing packaging systems. This foam padding is also a great way to dampen the effects of vibration making it an excellent packaging solution for items that may receive indelicate handling or require long-distance transportation and storage.

Aerofoam® foam products are anti-fungal, anti-bacterial and moisture resistant, making them an efficient solution even for the pharmaceutical industry. Flexible foams by Aerofoam® regain their original shape even after being deformed due to the memory effect. Due to the ability to absorb shock, flexible foams are applied in the packaging of medical devices and prosthetics.



Aerofoam® offers variety of packaging solutions, this includes bubble wrap that comes in a variety of sizes that can be manufactured as per the customer requirements. AeroPack Bubble Wrap by Aerofoam® is an ideal solution to protect delicate goods from getting damaged during transportation or handling.









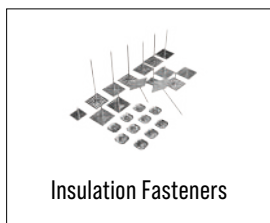
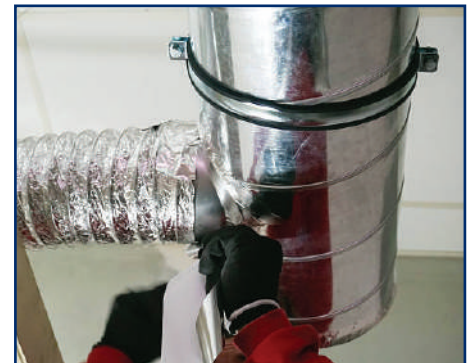
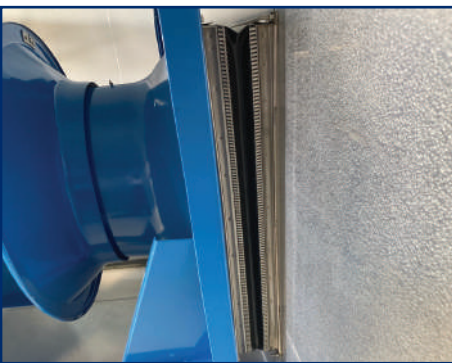
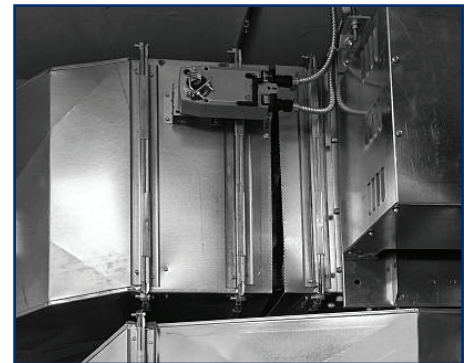
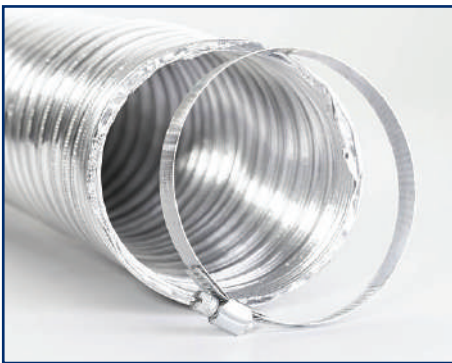
- Automobile industries
- Retail supermarkets & malls
- Protective packing of fragile products
- Courier, movers & logistics industries
- Furniture packaging
- Packaging of electronic items (antistatic)
- Packaging of pharmaceutical, dental & optical equipments

# FLEXIBLE CONNECTORS

HVAC accessories facilitate the entire structures ventilation and temperature that can affect the lives and work of hundreds of people occupying the structure. Our Aeroduct® division has been specially designed to manufacture and provide HVAC accessories according to the requirements of the customers and the industry itself. All Aeroduct® products are manufactured in the UAE and comply with relevant international testing standards. These products can be customized to ensure a smooth and peaceful environment without disruptions. Aeroduct® has a broad range of air supply connectors and accessories which have been designed for an effective and efficient solution to air conditioning equipment connection and ventilation systems to be used in residential, commercial and industrial projects. The ducting systems are highly flexible and UL-181 classified.

## APPLICABLE TO VARIOUS INDUSTRIES

-  HVAC industry
-  Pharmaceutical
-  Construction
-  Glass
-  Oil & gas
-  Generators



# ADHESIVE TAPES

Diamond® Adhesive Tapes division manufactures specialty tapes for a number of industries and product groups. Diamond® Tapes is based in Dubai, UAE and has a state-of-the-art factory which is upgraded constantly for the production of highest quality products that meet all the specifications and requirements of our customers. Hira Adhesive Tapes division has always selected a service oriented approach and is committed to deliver highest quality products.

## APPLICABLE TO VARIOUS INDUSTRIES

- Signage
- Foam gaskets & tapes
- Consumer & general purpose tapes
- Electrical
- Automotive
- Industrial & construction



Aluglass Tape



XLPE Single Sided  
Foam Tape



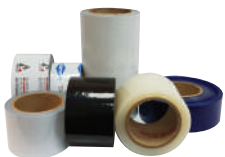
NBR Single Sided  
Foam Tape



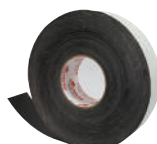
PE Single Sided  
Closing Tape



Alupet Tape



Surface  
Protection Tape



Scapa  
Single Sided  
Foam Tapes



Scapa  
Double Sided  
Foam Tapes



Reinforced  
Neoprene Foam Tape



Die-Cut  
Foam & Tape

# DIVERSE APPLICATIONS



## CASE STUDY

### TRAVEL WITH COMFORT

The modern vehicles need to be designed and developed keeping the comfort and safety of the passengers in mind to provide utmost satisfaction to the customers. Engines in the buses are a prominent source of heat and large amounts of sound causing discomfort. Aerofoam® insulation solutions prove to be an excellent thermal insulation solution that can be installed in the



engine compartments, walls and the overhead of the bus because it functions exceptionally well in high temperatures, helping in maintaining ambient temperature within the bus and the engine compartment, ensuring smooth operation of the equipment. Apart from this, AeroSound® acoustic solutions can be installed on the floor, wheel and the engine compartment coverings as well to act as a shield to prevent sound transmission throughout the bus and control the sound produced. Aerofoam® thermal insulation tubes can be used as thermal protection for AC and ventilation systems lowering the thickness compared to traditional thermal technologies.

### STEADY GENERATORS TO POWER HOUSES

Generators are an important solution to prevent power shortages. However, the speed at which the generator operates, produces vibrations and sound that might be disturbing.



We believe that creativity and innovation can assist in finding solutions to even the most complex scenarios. After observing a client's discomfort and frustration with the vibration and noise, we

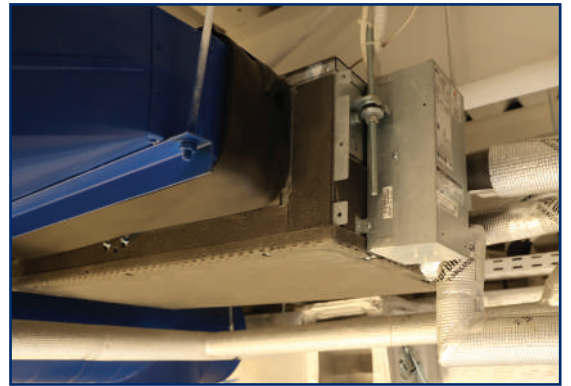
provided two solutions: anti-vibration system known as the Cup Spring Mount and AeroSound® foams. As a result, we reduced the vibrations and noise level generated by the machinery which significantly increased the comfort of working and living within the building.



## CASE STUDY

### SOLUTIONS FOR AC UNIT MANUFACTURERS

A well ventilated and cooled room can be quite relaxing and peaceful, but the regular use of air-conditioners produces heat in the pipes of the air-conditioning system that reduces its efficiency and ability to cool a room effectively. With regular use, the system starts consuming increased levels of energy and requires more time to cool the air in the room. The frequent maintenance of the air-conditioners can prove to be expensive while the replacements may prove to be harder and inconvenient for the customers.



Observing these difficulties, Aerofoam® provided its exceptional insulation solutions in order to improve the performance of the air-conditioners in the long run at a much lower cost than conventional insulations like fiberglass or mineral wool due to low maintenance requirements. Aerofoam® XLPE and NBR used in the AC units are both flexible and durable providing long term support. The thermal insulation solutions are lightweight and provide a clean and hygienic solution for the AC systems.

### THERMAL AND ACOUSTIC SOLUTION FOR ARMORED VEHICLES

Military vehicles require high grade quality insulation solutions as there are multiple sources of unwanted heat, noise and vibrations that can affect the competency of the personnel and the vehicle itself. Due to combination of thermal and mechanical properties, Aerofoam® has been used on the internal partitions of the armored vehicles to prevent energy transferred and mechanical impacts which can lead to injury of the passengers. The insulation



can be installed in the engine compartments of the military vehicle along with the doors, floors, side panels and hatch covers. Aerofoam® insulation solutions' has a diverse range of foam insulations such as foam with aluminum facing, polyethylene foams, etc as a result of which passengers are protected from the outer heat and in cooler temperatures from the heat loss. Aerofoam® XLPE foam is soft and resistant ensuring no hazards to passengers from injury when using the armored vehicles off-road.

# CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

## Hira Industries LLC

Main Site: Plot No 118 to 123, 307, 309 & 311, Al Ghail Industrial Park –  
RAKEZ, P.O. Box 9013, Ras Al Khaimah, United Arab Emirates

has been registered by Intertek as conforming to the requirements of:

## ISO 9001:2015

The management system is applicable to:

Manufacture of Molded & Extruded Rubber Products, Aerofoam Closed  
Cell Polyolefin & Elastomeric Insulation Materials and Accessories, Self-  
Adhesive Tapes.

**Certificate Number:**

**Initial Certification Date:**  
07 May 2018

**Date of Certification Decision:**  
19 April 2021

**Issuing Date:**  
19 April 2021

**Valid Until:**  
06 May 2024



**Intertek**

014

A handwritten signature in black ink, appearing to read 'Calin Moldovean'.

**Calin Moldovean**

President, Business Assurance

Intertek Certification Limited, 10A Victory  
Park, Victory Road, Derby DE24 8ZF, United  
Kingdom

Intertek Certification Limited is a  
UKAS accredited body under  
schedule of accreditation no. 014.



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## ISO 14001:2015

The management system is applicable to:

Manufacture of Molded & Extruded Rubber Products, Aerofoam Closed  
Cell Polyolefin & Elastomeric Insulation Materials and Accessories, Self-  
Adhesive Tapes.

**Certificate Number:**

0112983

**Initial Certification Date:**

07 May 2018

**Date of Certification Decision:**

19 April 2021

**Issuing Date:**

19 April 2021

**Valid Until:**

06 May 2024



**Intertek**

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**Calin Moldovean**

President, Business Assurance

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RAKEZ, P.O. Box 9013, Ras Al Khaimah, United Arab Emirates

has been registered by Intertek as conforming to the requirements of:

## ISO 45001:2018

The management system is applicable to:

Manufacture of Molded & Extruded Rubber Products, Aerofoam Closed  
Cell Polyolefin & Elastomeric Insulation Materials and Accessories, Self-  
Adhesive Tapes, Air conditioner Flexible Ducts and Accessories.

**Certificate Number:**  
0101447

**Initial Certification Date:**  
07 May 2018

**Date of Certification Decision:**  
19 April 2021

**Issuing Date:**  
19 April 2021

**Valid Until:**  
06 May 2024



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