



ENVIROTECH SYSTEMS LIMITED



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COMPANY PROFILE

Envirotech Systems Limited is a premier acoustic engineering organization that specializes in noise measurement & control for, industrial and commercial applications. Experience and success has allowed Envirotech Systems to grow and expand our core capabilities to include full scale design and manufacture of innovative acoustical products and components. Founded in 1997, now transforming into a growing organization that readily responds to client needs. We have the experience, tools and innovative ideas to provide cost-effective solutions to all types of acoustical problems. Employing over 150 people, It also has a large network of technical sales engineers, agents and distributors, offering advice and assistance to customers .Today We manufacture and distribute a broad range of high performing products and structures required to solve the most common to the most unusual, complex and interesting noise control applications that occur in the industrial, commercial, architectural and environmental markets we serve.



As a leading brand in full service turn-key industrial noise control, we pride ourselves on delivering a complete solution. We research potential issues, undertake a cost benefit analysis and perform the necessary engineering services. Once all of the preliminary work is complete we then provide a firm price and fixed schedule proposal to ensure you get the most cost-effective noise abatement solution possible.

MANUFACTURING FACILITY & INFRASTRUCTURE

We have manufacturing facilities for fabricating all types of steels such as carbon steel, stainless steel, alloy steel, utilizing various insulation material such as ceramic wool, rock wool etc,

Welding and painting including work areas for fabrication of large structures and equipment's.
Our sustained production can be maintained by motivated work force.

Our welders are qualified in various positions and different combination of material. We have qualified Technical personnel in various levels in NDT.



QUALITY ASSURANCE

We are committed to provide excellence services for all projects using latest technology to ensure customer satisfaction through continual improvement in quality management system.

With over 2000 successful acoustical projects in Oil & Gas, Manufacturing and processing, Power Generation, Cement & Steel Plant, Automobile Sector, Construction and in many more, ESPL continues to grow in domestic & overseas marketplaces.

In order to innovate new design and cost-effectiveness, we have a well-grown R&D facility empowered with computer-aided tools.

This department is manned by efficient personnel's, which ensures in the continual product development so as to offer complete satisfaction to our clients. Our research based activities ensure.

- Market Research
- Continual Product Development
- Improved product and production technologies

FACTORY AREA

Approximate 55000 Sq. ft. Area comprise our work space.

DESIGN AND CALCULATION

The acoustic design and calculation of enclosures are two of the most important tasks.

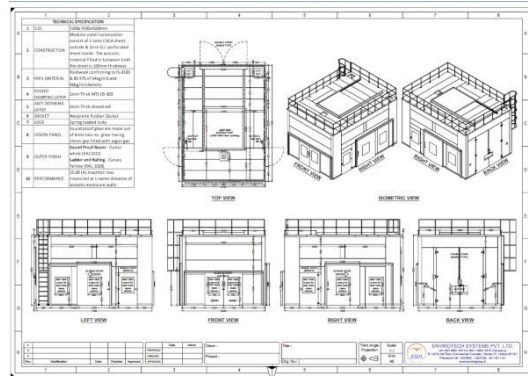
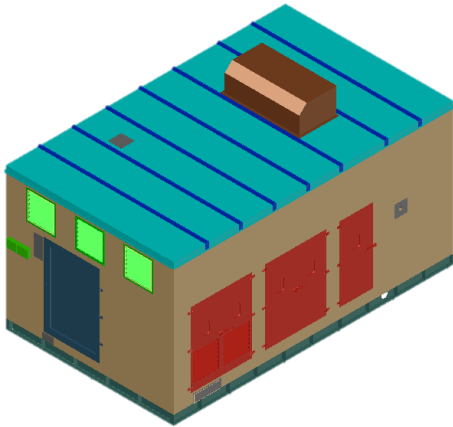
All structural calculations for steel, cladding, roofing and sub- structures are performed in-house. Guaranteeing in this way an effective, quick and direct solution for the tasks given.

LONG-LIFE DESIGN FOR EASY ASSEMBLY AND DISMANTLING

As a rule, Envirotech Systems Limited uses a modular design for its enclosure projects. The particular wall, door, and window elements are mounted on a solid framework structure; every-thing is designed for easy assembling and reassembling.

PLANNING, 3-D DESIGN, DETAILED ENGINEERING AND PROJECT MANAGEMENT

Today, nearly all projects are represented in 3-D (CAD) models. The use of this kind of software enables a close check on such critical parts as battery limits, pipes and other penetrations allowing for a »tailor-made« detailed engineering.



ECONOMICAL SOLUTIONS

The costs of high-quality noise protection can be reduced to a minimum, even in the case of individual applications. This is possible because Envirotech Systems Limited makes acoustic enclosures as customized solutions, designed and assembled to solve a specific noise problem.

WORLDWIDE SUPPLY

Specialized teams consisting of Envirotech own staff, or as combined teams with Envirotech Systems Limited partner take care of the installation works.

LIST OF MACHINERY

☺ CNC Hydraulic Press Brake EHP 100 X 3100	01Nos
☺ CNC Hydraulic Shearing Machine GS- 3106	01Nos.
☺ Mechanical Shearing Machine 2500 X 8mm	01Nos
☺ Hydraulic Press Brake HACO Make	01Nos.
☺ Air Compressors- Ingersoll Rand	06Nos
☺ MIG Welding Machine	30Nos.
☺ Argon Welding Machine	04Nos
☺ EOT (7.5 Ton)	01Nos.
☺ Professional Line Laser	02Nos.
☺ Gas Cutting Sets	04Nos.
☺ DG Set	04Nos.
☺ Drilling Machine	40Nos.
☺ Grinding Machine	40Nos.
☺ POP Riveting Machine	35Nos.
☺ ARC Welding Machine	08Nos.
☺ Powder Coating Oven	01Nos.

☺ Weighing Machine	02 Nos.
☺ Profile Cutting Machine	01Nos.
☺ Chop Saw	06Nos.
☺ Jig Saw Machine	06Nos.

MEASURING AND TESTING FACILITY

☺ Vernier Callipers	10 sets
☺ Micro Meter	07 sets
☺ Sound Level Meter	08 Nos
☺ Fillet Gauges	06 Nos
☺ Measuring tape	30 Nos
☺ Dial Gauge	05 Nos
☺ Anemometer	04 Nos
☺ Vibration Meter	02 Nos
☺ Light (LUX) Meter	02Nos.
☺ Infrared Thermometer	02Nos.
☺ Coating Thickness Gauge	02Nos.
☺ Metal Hardness Tester	02Nos.
☺ Magnetic Stand	02Nos.
☺ Wood Moisture Meter	01Nos.

PRODUCTS

ACOUSTIC ENCLOSURE

As a leading supplier of industrial noise control Envirotech Systems Limited offers enclosures for all kind of noise sources:

- 🔊 Gas turbines
- 🔊 Steam turbines
- 🔊 Compressors
- 🔊 Diesel Generator
- 🔊 Pumps
- 🔊 Conveyor
- 🔊 Fin Press Machine
- 🔊 Air Compressor
- 🔊 Forging Machine
- 🔊 CNC Machine
- 🔊 Scarfing Machine
- 🔊 Other Noise Generating Industrial Machines

For the reduction of noise made by machines and mechanical units, we deliver acoustic enclosures, tailor- made for the particular situation, for both indoor and outdoor use. We place highest value on stable, long-life design, ease in dismantling, and high acoustic effectiveness. If desired, we deliver the enclosure including entire electrical installation, ventilation system as well as other accessories according to the client's requirements.

Envirotech Acoustic Enclosures have proven themselves in use all over the world while improving working conditions and protecting the environment.

Each enclosure is designed and manufactured to suit the individual requirements of the machine being closed in. It can have a simple panel design or be a heavy integrated housing. Additional feature include lifting beams, lighting, fire and gas detection & protection systems.

All our enclosures are designed to allow the maximum aspiration and cooling airflow required to make sure machine does not overheat. Weather louvers, acoustic louvers, splitter and baffles are provided to suppress the noise where required. Acoustic Enclosures will be as varied as the customer's requirements. The enclosure outer walls generally consists of 1.6-2 mm thickness of CRCA steel sheeting outside, and inner surface is GI perforated sheet filled with tissue paper laminated rock wool pads.



NOISE TEST BOOTH

The noise test booth is used for check the noise level. It is a quiet room and is used for a number of different purposes as well. The main functionality of a noise control booth is to eliminate the shop floor noise. The isolation of the noise test booth with acoustic material all around prevents the floor noise from penetrating the enclosure.

Area of Application-

- 🚗 Automotive sector
- 🌬️ Air conditioner manufacturing units
- ❄️ Refrigeration units
- 🌀 Fan, motor & Compressors manufacturing units
- 🔊 Speaker and sound purity testing etc.

We offer online & offline noise testing booth to test each & every piece of product. These booths are designed with perfection, accuracy & new technology. The primary function of this booth is to control the ambient noise and increase the accuracy of intensity measurement by reducing sound reflection.

The primary features of the noise test booth are:

Reliability: The booth is totally quiet and it has been built in a manner so as to not allow any noise to penetrate.

Performance: The noise test booth will continue to provide optimal performance

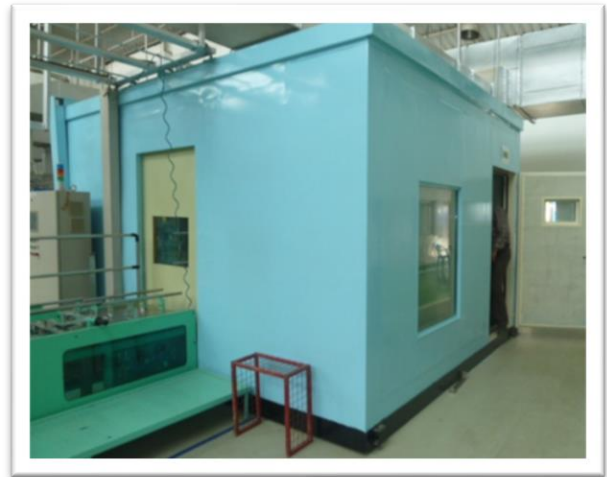
Noiseless operation: The functioning of the noise test booth is absolutely noiseless.

Low maintenance: The noise test booth is very easy to maintain and does not require any kind of service.

Internal lighting: The noise test booth is a complete unit and comes fully fitted with an internal lighting system.

Automatic door: The acoustic door of the noise test booth closes automatically to ensure that it is sealed shut and there is no chance of noise leakage.

Ventilation system: The noise test booth has been designed with air vents to ensure that there is air circulation inside the unit. The air vents are acoustically treated.



ENGINE TEST ROOM ACOUSTIC

To perform accurate and repeatable testing of the product, manufacturers use Engine test cell that provide controlled acoustical environment for product testing and development.

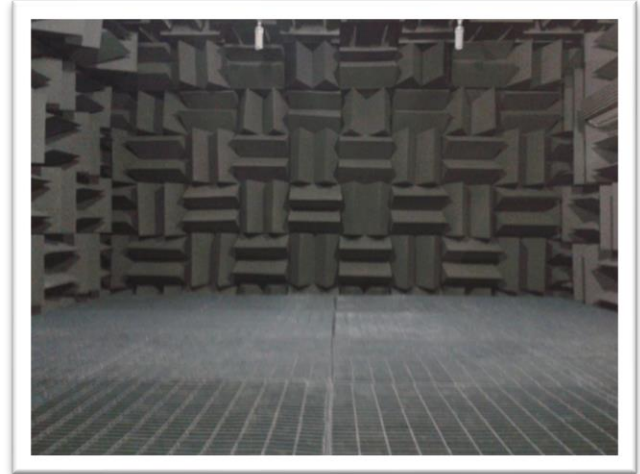
Generally Acoustic Treatment to engine test cell prevents the flow of excessive noise from engine test chamber to nearby areas in automobile industry. For accurate designing of Engine Test Cell Acoustics module our acousticians & engineers review the acoustic profile of engines. We use acoustic lining on wall filled with insulated material, acoustic doors to access the engine test cell, acoustic ducting for proper air circulation, smoke exhaust pipe and sound proof glass window to view inside the engine test cell.



ANECHOIC & SEMI ANECHOIC CHAMBER

ANECHOIC CHAMBER

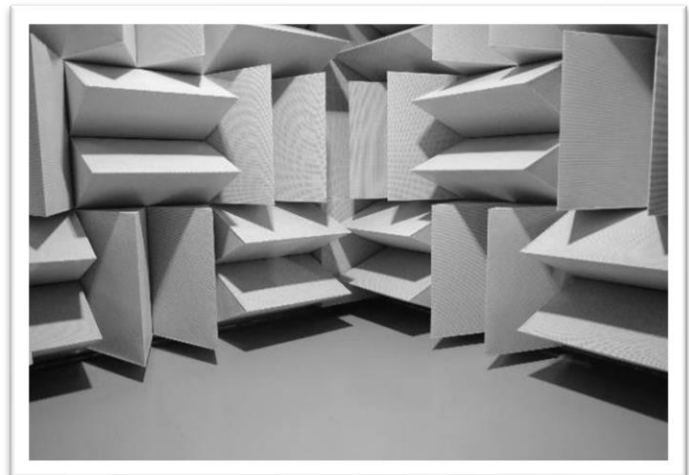
An anechoic chamber (an-echoic or non-echoing) is a room designed to stop reflections of sound waves. They are also insulated from exterior sources of noise. The combination of both aspects means they simulate a quiet open-space of infinite dimension, which is useful when exterior influences would otherwise give false results.



SEMI ANECHOIC CHAMBER

A room which create free field conditions but above a reflective plane. Above a certain frequency all sound waves that hit the walls or ceiling of the chamber will be absorbed.

This type of chamber normally used in vehicle testing with a rolling road so that the vehicle may be driven.



The semi-anechoic chamber then forms a controlled environment with the surrounding acoustic conditions behaving as a sterile version of the real world. In this way accurate measurements of the sound inside and outside the vehicle can be made under operating conditions.

NOISE BARRIERS

We offer a full design, delivery and installation service, which can also include all necessary structural steelwork. Barriers can be erected by our own, trained personnel. Alternatively, they can be installed by other contractors, end users etc. preferably under the supervision of an ESPL engineer.

Types of Noise Barrier Envirotech Provide-

1. POLYCARBONATE NOISE BARRIER
2. METALLIC NOISE BARRIER
3. ECHO BARRIER

Suitable for an extensive range of applications including:

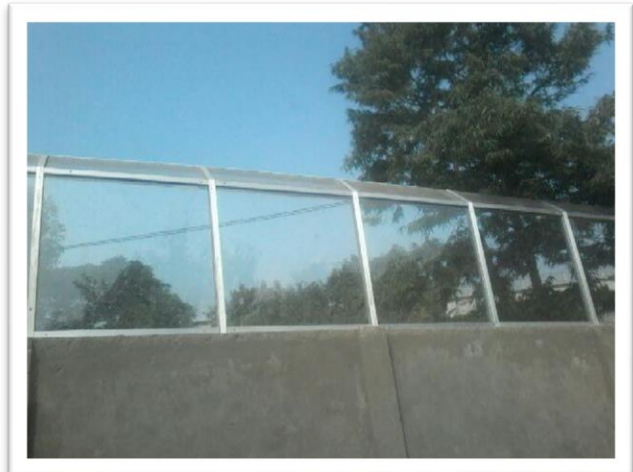
- 🚧 Mechanical Plants.
- 🚗 Roads, Metro & Railways.
- ✈️ Airport Boundaries.
- 🏭 Generators, Compressors and Chillers.
- 🏗️ Construction.
- 🛢️ Oil & Gas.
- 🛠️ Refurbishments.
- 🔧 Maintenance Activities.
- 🎪 Outdoor & Indoor Events.
- 🏠 Temporary Noise Barrier for Equipment's operating in open environment.
- 🏥 Other Areas like hospital, schools, airports, etc.



POLYCARBONATE NOISE BARRIER

The construction consisted of MS/Galvanized steel beam as horizontal and vertical posts specially designed aluminium pressure pad with rubber gas kit use to grip polycarbonate sheet tightly.

The standard Polycarbonate Noise Barriers designed to achieve 22 STC to 36 STC rating and the same has been confirmed during laboratory test. All Polycarbonate sheets are UV coated and having warranty upto 10 years.



METALLIC NOISE BARRIER

Metallic noise barrier which comprise the great majority of noise barriers are generally located at the edge of the road to reflect traffic noise. Some noise is transmitted through the barrier, but is slightly less intense than the noise level on the other side of the barrier. The height of these barriers is usually greater than other types. Often traffic noise levels increase for vehicle occupant.

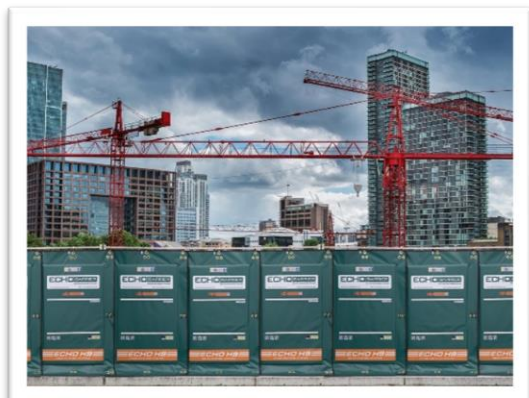
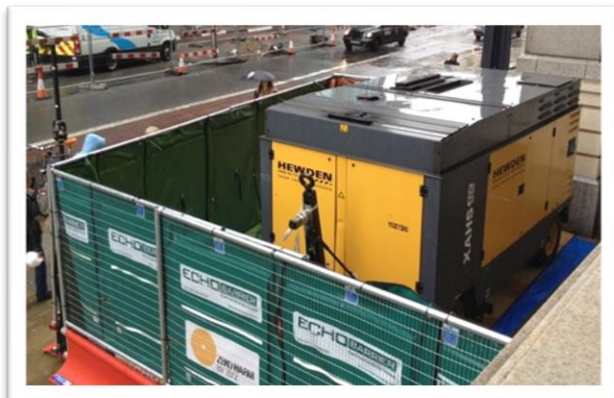


ECHO BARRIER

ENVIROTECH Introducing Quality product from ECHO BARRIER. The Echo Barrier H9™ is a portable acoustic barrier that offers excellent noise reduction and absorption. Effective in the harshest environments. The Echo barrier H9 is durable, lightweight, water, fire, UV and temperature resistant.

Key Benefits:

- Echo Barrier's patented Acoustic technology, offers noise reduction between 10 to 32 dB in field conditions.
- H9 Barrier panels are readily fitted onto standard fencing, perimeter fencing, plywood fencing, metal panels, scaffolding or any existing structure that can bear the increased load.
- Light in weight (5.5 kg).
- Safe to handle, no hazardous material can be fitted with reflector strips for dark areas.
- Do not absorb water when exposed to heavy rain or while jet-washed.
- Rugged PVC exterior and heavy duty eyelets/grommets, designed for durability under tough conditions.



ACOUSTIC LOUVERS

ESPL Acoustic Louver has a sound baffle designed to allow airflow through ventilation openings while reducing the radiation of noise. Typical application for our acoustic louvers used in conjunction with machine and enclosures, sound barrier walls and sound control rooms to allow silenced airflow. They use acoustic grade glass fibre as the principle sound-absorbing mechanism.

They are aerodynamically shaped to minimize pressure drop. Lips are designed in to the splitters to protect against weather elements. A machine sound enclosure such as compressor, genet, backup generator and well pump are all candidates for silenced ventilation using ESPL Acoustic Louver.

Our Acoustic screens and enclosures solve a wide range of environmental noise pollution problems emanating from mechanical plant and systems including:

- Chillers
- Motors
- Compressors
- Pumps
- Roof top plant rooms
-

We offer acoustic louvers with following features:

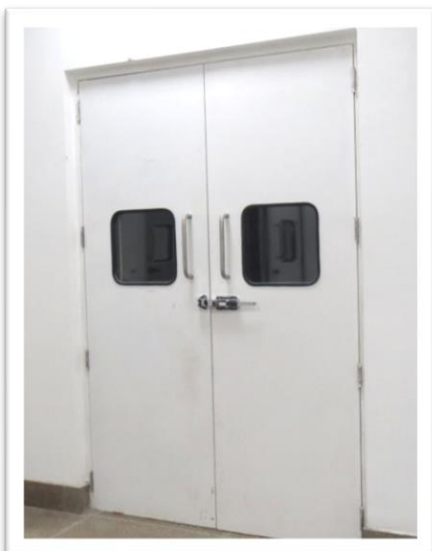
- Flat Blades
- For building intake/exhaust openings
- For mechanical services plant
- As free-standing barriers, screens and enclosures
- Wide-choice of finishes/colours



ACOUSTIC DOORS

We Offer A Range Of Fire Retardant / Proof / Check Metal Doors Frames Customized And Accurate To Customer Specifications. We Employ The Most Modern Techniques, Measuring And Cutting Equipment. Our Metal Doors Frames Are Available In The Most Elegant Designs.

Hinged Type Single Leaf Doors Of 1 & 2 Hrs (60 &120 Minutes) Fire Rating Fully Insulated Steel Composite Light Weight Single Swing Asbestos Fire Doors As Per Bs:476 Part 22/ Is:3614 Part 2 And Meeting The 1& 2Hrs.Rating For Stability, And Integrity Criteria. The Steel Composite Fire Doors Comprises of Welded Box Section Insulated Frame and fully Insulated Shutters Faced with Galvanized Corrugated Sheet of 1.2 Mm Thickness on Both Sides. All Steel Parts Are Painted With Anti- Corrosive Primer.



SOME OF OUR PRESTIGIOUS CLIENTS



INFRASTRUCTURE LEASING & FINANCIAL SERVICES LIMITED



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(An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Company)

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