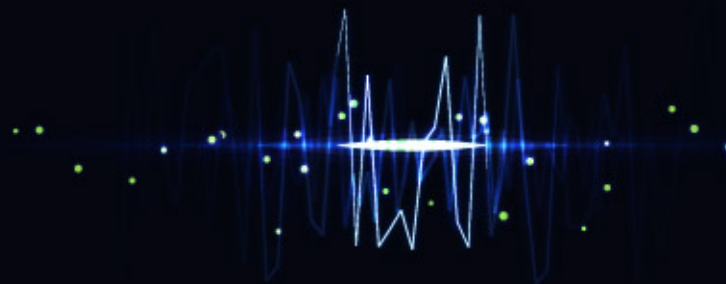




**ARCHITECTURAL ACOUSTICS**  
NOISE/VIBRATION CONTROL  
VENTILATION/EXHAUST FANS

# NOISE & VIBRATION CONTROL SPECIALIST

*"Serving you better"*



OVER

**30**

YEARS OF  
EXPERIENCE

**24**

HOUR TECHNICAL  
SUPPORT

OVER

**150**

PROJECTS  
COMPLETED



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## VIBRAN ENGINEERING ESTABLISHED

Founded in 1983, Vibran Engineering (M) Sdn Bhd specializes in:

- \* Ventilation and exhaust systems
- \* Noise and vibration control systems for Building and Construction Industries

Over the years the company has expanded its services to include the following areas:

- \* HVAC Duct Cleaning and Sanitization
- \* Designing, Fabricating and Manufacturing of Industrial Exhaust Fans & Blowers for the Palm Oil mills
- \* Air Pollution Control System
- \* Tunnel ventilation and related works
- \* Architectural Acoustics
- \* Audio and Visual Equipments and Effects
- \* Fabric Ducting System

## VIBRANTECH

In 2001, Vibran Engineering spun off its operations, and Vibrantech was established. Vibran Engineering focuses on Noise and Vibration control projects, Architectural Acoustics projects, and the design and manufacture of heavy duty Industrial Fans & Blowers for the Palm Oil



**Vibran Engineering (M) Sdn Bhd** 100038-W  
*Est. since 1983*

Specialist in Industrial / Commercial Noise & Vibration Control Projects, architectural Acoustic Projects and Industrial Fans



**Vibrantech (M) Sdn Bhd** 552178-T  
*Est. since 2001*

Supplier of Ventilation Equipment, Silencers, Vibration Isolators and Fabric Duct Systems.

## EXPERIENCED MANAGEMENT & TECHNICAL TEAM



### Mission statements:

To provide the most cost effective and reliable solutions

To ensure the highest quality through our 24 hour after sales services

Industry, Generating Plants, Power Generation Stations, etc.

Vibrantech (M) Sdn Bhd supplies Ventilation Equipment, Silencers, Vibration Isolators and Fabric Duct systems. We also undertake smaller Architectural Acoustics projects.

Our team of dedicated and highly skilled engineers is on hand to advise and offer the best solution to every problem no matter how complex it may be. Our service does not just stop after the sales transaction. We ensure our solutions meet your requirements by providing follow-up services and by guaranteeing the durability and functionality of our products.

The company is also registered with the Construction Industrial Development Board (CIDB) under category Grade G1 (M15)

## VIBRAN GROUP MILESTONES

**1983**

Vibran Engineering (M) Sdn Bhd was established

**1996**

Supply all ventilation fans and vibration isolators to the KLIA Main Terminal Building and satellite Building

**2011**

Heavy duty industrial fan solution supplied to 15 countries

**2013**

Celebrate 30 years anniversary



**1995**

Supply all ventilation fans and vibration isolators to KLCC Twin Towers

**2001**

Formation of Vibrantech (M) Sdn Bhd



**2003**

Completed first Major Acoustic Works for GSC Cinemas at Berjaya Times Square, Kuala Lumpur



**2012**

Completed first Major Audio Visual project for SP Setia, Setia Alam Convention Centre



## PROJECT REFERENCE

# PROVEN RECORDS



## NOISE & VIBRATION CONTROL

### Architectural Acoustic Works for Studios and Laboratories for Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor.

Supply and Install of Floating Floor  
Supply and Install of Acoustic Door  
Supply and Install of Party-Walls  
Supply and Install of Acoustical Finishing to all walls

### Noise and Vibration Control Treatment For Nagaworld Hotel, Phnom Penh, Cambodia

Supply and Install of Vibration Isolators and Flexible Connectors For Chillers  
Supply and Install of Car Park Exhaust Fans Silencers  
Supply and Install of Resilient Ceiling for Hotel rooms directly under Chiller Plant room



### Architectural Acoustic Treatment For Auditorium at Kolej Tunku Jaafar

Supply and Installation of Ceiling Reflectors  
Supply and Installation of Acoustical Fabric Wall Panels and Acoustic Doors for Auditorium.

### Acoustic Treatment For Anechoic Chamber at University Malaysia Pahang

Supply and Install of Acoustic Wedges  
Supply and Install Acoustic Door  
Supply and Install Floating Floor  
Supply and Install HVAC System Complete with Attenuators



### Architectural Acoustic Treatment For Golden Screen Cinemas at

Tropicana Mall, Petaling Jaya, IOI Mall Puchong, Queensbay Mall Penang, Pavillion Mall, Kuala Lumpur, One Utama Shopping Centre, Petaling Jaya, Mid-Valley Shopping Centre, Kuala Lumpur.  
Supply and Install ID Acoustic Walls and Ceilings



### Noise and Vibration Treatments For Mechanical Equipments For Intercontinental Hotel, Hanoi

Supply and Install Sound Attenuators For Fans, Fan Coil Units and Air Cooled Chillers  
Supply and Install Acoustic Doors  
Supply and Install Acoustic Louvres  
Supply and Install Enclosures for Fans and Fan Coil Units



### Noise and Vibration Treatments for Berjaya Times Square Indoor Theme Park and Bowling Alleys

Supply and Install Mason Floating Floor  
Supply and Install Mason Air Spring

### Noise and Vibration Treatment Golden Screen Cinemas, Berjaya Times Square, Kuala Lumpur

Design, and constructed the first floating floor cinema hall in Malaysia

### Noise and Vibration Treatment at Genting Hotel

Design, supply and Install Mason Air springs for Motion Master Theme Ride



## HVAC

KLCC Projects – Tower 1 & 2 –Supply Ventilation & Exhaust fans and Vibration Isolators

Putra Jaya Projects –Supply Ventilation and Exhaust Fans  
Parcel D, Parcel E Block E2, E3 & EA

Genting – Genting Complex & Wisma Genting - Supply Ventilation & Exhaust fans

(KLIA) Kuala Lumpur International Airport- Supply Ventilation & Exhaust fans

(LCCT) Low Cost Carrier Terminal - Supply Ventilation & Exhaust fans

Sarawak Shell (offshore and Refinery) – Supply Marine Explosion Proof Fans and the Design, Supply and Delivery of Attenuators

### WOLTER'S PORTFOLIO:



## FABRIC DUCTING SYSTEM

Ductsox project details as below:

Various Giant hypermarkets around Malaysia

International Exhibition Hall, Brunei

First Solar Plant, Kulim Kedah

White Coffee Production Plant

FOR MORE PORTFOLIO, PLEASE VISIT  
[WWW.VIBRANGROUP.COM](http://WWW.VIBRANGROUP.COM)

## ACOUSTIC AND AUDIO VISUAL

# RESOLVING NOISE & VIBRATION PROBLEMS MORE EFFECTIVELY THAN EVER

Since the early 1990s, Vibran Engineering has evolved as a market leader in the highly specialized and critical building construction sector of Architectural Acoustics. The company is registered with Construction Industrial Development Board (CIDB) under category Grade G06 (B07 & B04) to undertake projects up to RM10,000,000.00 .

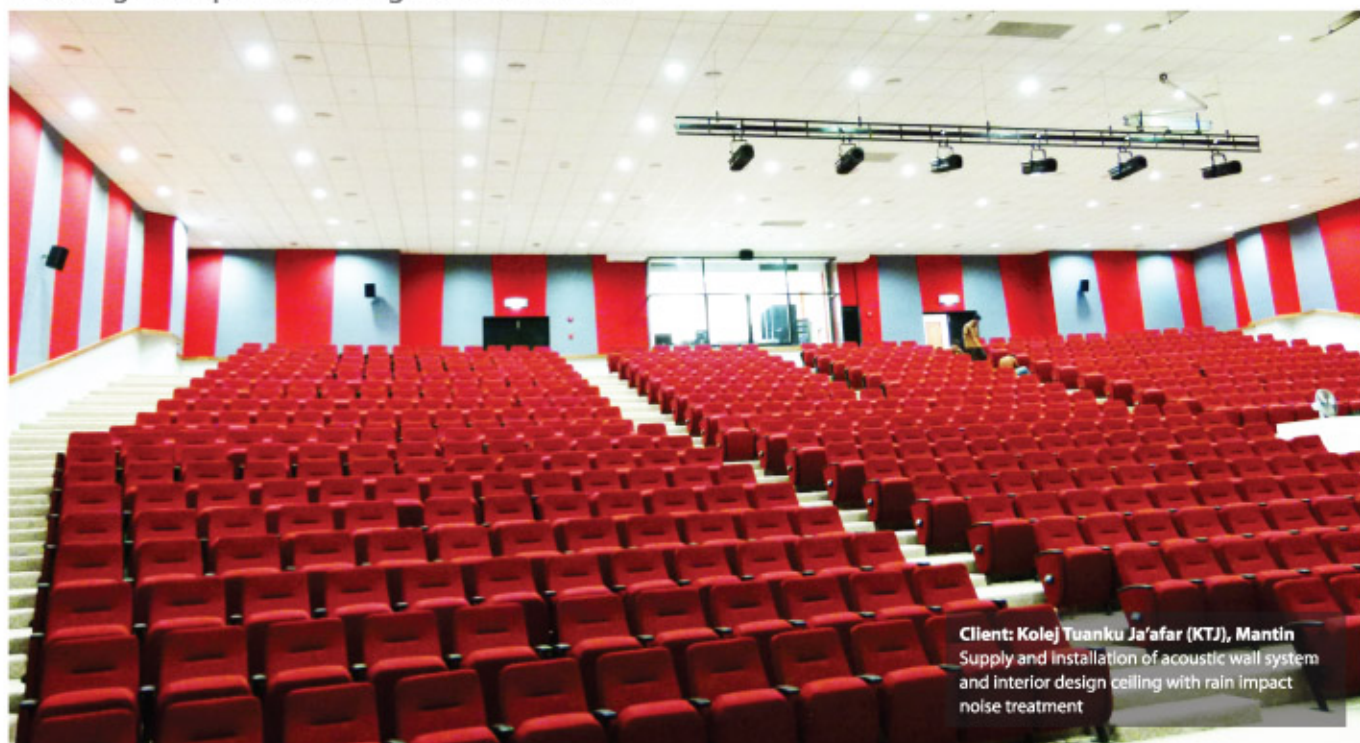
Vibran Engineering provides complete solutions to Architectural Acoustics relating to Interior Acoustics Design, treatment for reverberation control, avoidance of flutter echoes and interior finish rendering for acoustic ambience.

We design and provide a range of solutions for

acoustic absorption, sound diffusion and reflections. Typical spaces include auditoriums, convention halls, exhibition halls, banquet halls, indoor stadiums, multi-purpose halls, studios and cinemas.

In the Audio Visual domain, we provide quality service and support in budget management, system design, project implementation and services support for our clients. With the strong support from our local & overseas Principal partners, we aim to achieve an excellent reputation and be a leading service solution provider in the AV industry, locally and internationally.

Our wealth of job references, both locally and internationally, is a testament to our brand. In Malaysia, our solutions have been implemented at Genting New World Hotel, NTV7, Setia City Convention Hall as well as at various cinemas and universities.



**Client: Kolej Tuanku Ja'afar (KTJ), Mantin**  
Supply and installation of acoustic wall system and interior design ceiling with rain impact noise treatment





#### BRANDS WE CARRY



**BOSCH**

**Panasonic**

**ADB**  
Lighting Technologies

**Haivision**  
NETWORK VIDEO

**TANDBERG**

**DYNACORD**

**Extron**

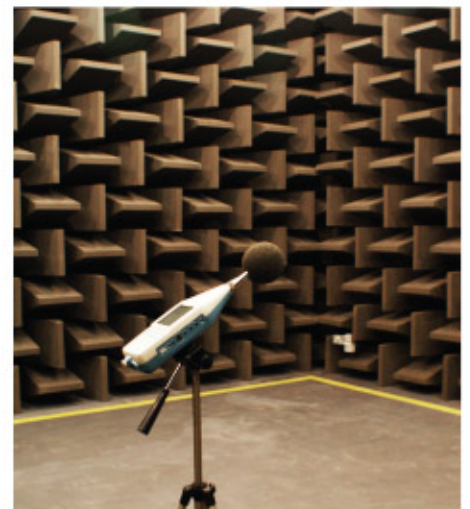
**CRESTRON**

**AXYS**

**REMACO**

**CHKISTIE**

**amira**  
TECHNOLOGIES SIA



#### DESIGN AND BUILD

Our team of experienced engineers often collaborate with our overseas Principals can undertake to do:

- \* Conceptual design and detailed design development
- \* Procurement and selection of materials to meet clients' requirements, budget and specifications
- \* Supervision and Installation
- \* Testing and Commissioning after completion of installation

#### TESTING

In any acoustic installation, the end result must match the standards set at the design stage.

For this reason, the essential acoustic measurements that we conduct include:

- \* Sound Intensity Measurement
- \* Noise Levels of plant and equipment (dBC, dBA, 1/1 octaves, 1/3 octaves, 23% and 3% narrow band)
- \* Reverberation times (RT60 in secs)
- \* Noise Criteria (NC) Levels

## ACOUSTIC TREATMENT

Vibran Engineering is the appointed representative for some of the major acoustical companies all over the world. They include:

- \* Thermocon Acoustical Spray Systems, USA
- \* Xin Jing Jie Acoustics, China
- \* Fabritrak Stretch Wall System, USA
- \* Kinetics Architectural Products, USA
- \* Dezhou Lingmei Magnesium Oxide Board, China



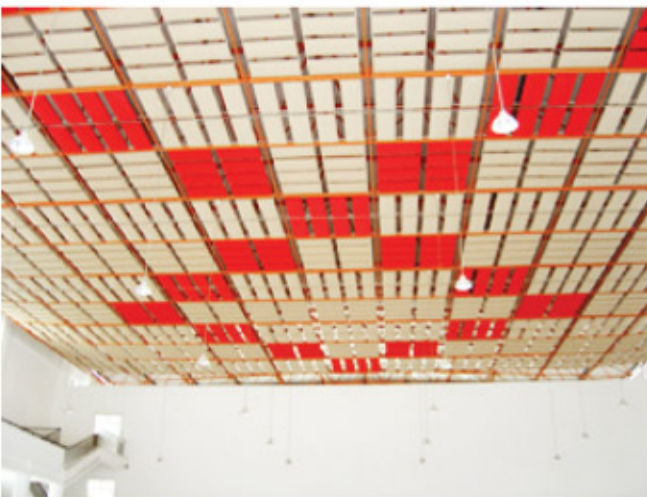
Vibran Engineering acoustical conditioning products are flexible, inexpensive and reliable. These products are selected to meet our clients' budget, requirements and material finishes.

The materials are then designed to blend with the architectural concept of the building to maintain an aesthetically pleasing design while maintaining the acoustic solutions.

***"Reduce costs, maintain quality."***







## ACOUSTIC CEILING



Our sound absorbing acoustic ceiling systems are designed to meet a whole range of acoustical control requirements in controlling reverberation, reducing noise and controlling echo in large open spaces.

Acoustical Ceiling Tiles are available in size 600 x 1000mm or 600 x 1200mm size with noise absorption coefficient NRC of 0.80. For specific noise absorption system, a composite system can be installed to achieve higher NRC requirements.

In areas where the height of the room is too low for the installation of a suspended acoustical ceiling or where a suspended ceiling is not desirable, Thermocon Acoustical cellulose fibres can be sprayed directly onto the concrete ceiling, up to 75mm in thickness to achieve a NRC of 1.00.







Panels fabricated to size and color specification

## ACOUSTIC ABSORPTION PANEL

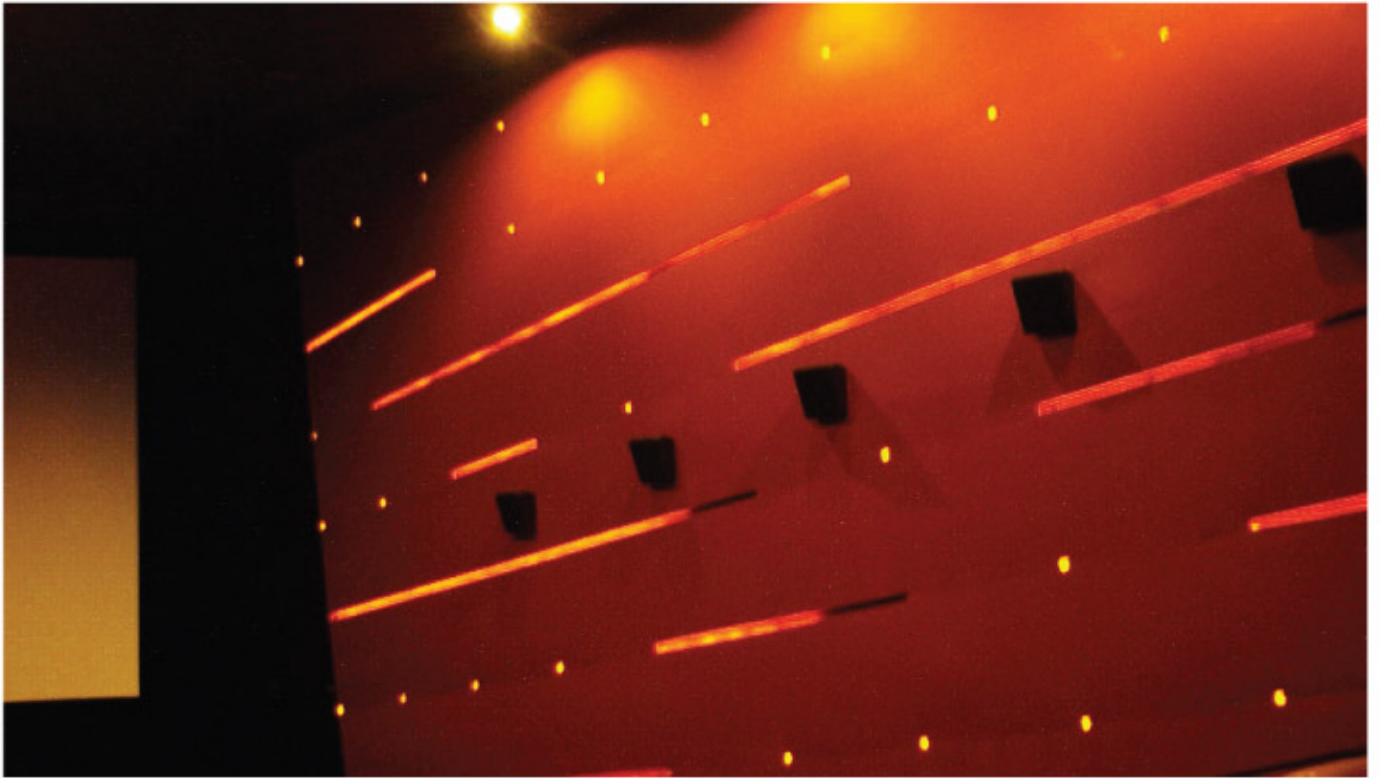
Our sound absorbing panels are designed to meet a whole range of acoustical control requirements in controlling reverberation, reducing noise and controlling echo within spaces.

The panels can be designed for high impact use in areas like the gymnasium and indoor sports courts. They can be fabricated with eye pleasing fabric covers for use in auditoriums, studios and conference rooms.

The panels are also designed such that they can meet the most stringent noise absorption coefficient as required by the Acoustic Consultants. NRC up to 1.00 can be met.







## ABSORPTION AND REFLECTIVE WOODEN PANELS

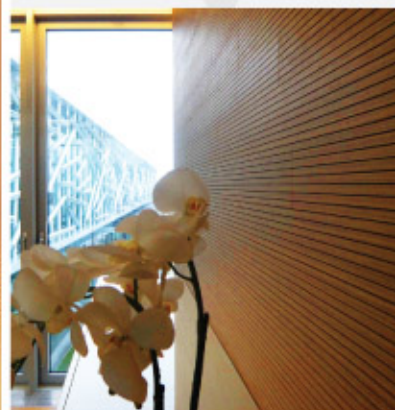


Wooden Acoustic Panels combine the natural appearance of wood with unique features for high quality acoustics. Architects and interior designers are free to create new concepts of combining contemporary wood finishing design with the need for good acoustics.

With an endless choice of size, pattern, colors and acoustic properties, wooden panels can easily blend in with other decorative features to suit various requirements. They grace boardrooms, convention and exhibition centers, meeting areas, recital halls, auditoriums and other important spaces that require a good balance between elegance and good acoustic ambience.

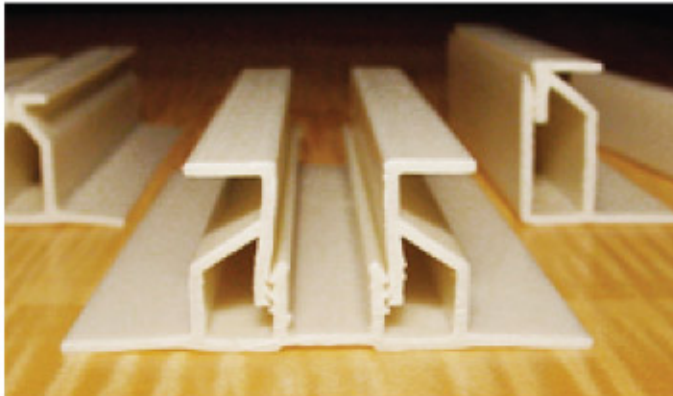


***“Meeting your  
acoustical and  
aesthetical  
requirements”***





## FABRIC TRACKING SYSTEM



A flexible and versatile system for tightly stretching fabric over acoustical, tackable, or aesthetic substrates to produce high customized acoustical panels for walls (Stretch Wall Systems) or ceilings.

As the fabric is not adhesively affixed to substrate as in pre-manufactured panels, a Stretch Wall installation can be cleaned using traditional upholstery cleaning methods. Other advantages include:

- \* No limit to size or shape of panel
- \* Easy and economical removal of fabric without damage to surface tracks or fabric
- \* Flexibility in design and value engineering
- \* Impact resistance
- \* Conformation to concave and convex surfaces
- \* A cost effective sound control and sound absorption tool for creating and enhancing interior

***“Cost effective,  
limitless designs, a  
total solution for  
aesthetic and  
acoustic  
considerations”***

The varieties of our Fabric track applications are virtually endless - here are a few:



## INDUSTRIAL VIBRATION & NOISE CONTROL

# FOR NOISE SENSITIVE SPACE

### VIBRATION ISOLATORS

Over the years, Vibran Engineering has carried out Industrial Noise and Vibration control projects throughout the Asean Region.

We have the expertise in the design of Noise and Vibration Isolation Systems for rotating machines, large leisure rides, gen-sets, machinery installation and floating floors for audiometric rooms, mechanical plantrooms, anechoic chambers and other noise sensitive spaces.

Our services include but are not limited to designing, installing and supplying vibration and noise control products for:

- \* mechanical & electrical systems in buildings including air-handling units (AHUs), fan coil units (FCUs), fans, pumps, motors, chillers, cooling towers and duct-borne noise
- \* floating floors
- \* suspended ceilings
- \* building and wall isolation
- \* highly sensitive equipment where vibration from outside sources has to be kept to a minimum (e.g. Electron micro scope)
- \* rain impact noise



HVAC Isolation Products



Spring mount and hangers

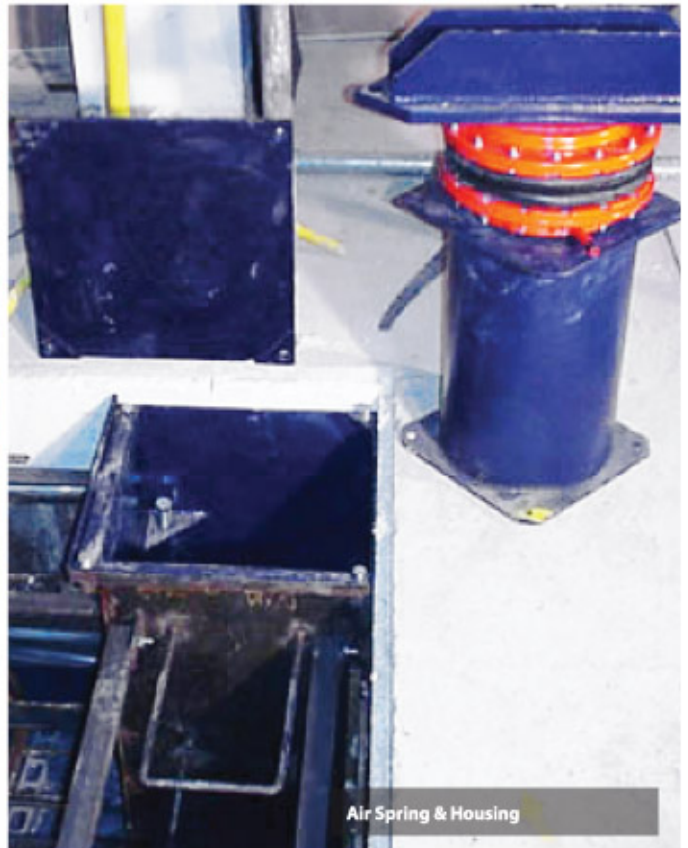


Stainless Steel Hose



Air Springs







## VIBRAN BUILT THE FIRST FLOATING FLOOR CINEMA HALLS IN MALAYSIA

### FLOATING FLOORS

Noise and vibration are major complaints of occupants in modern buildings. There are basically two methods of reducing air-borne sound transmission. The first is to increase the mass of the walls, floors or ceiling, and the second is to introduce an air-gap between relating air-tight constructions.

Increasing the thickness of walls, floors and ceiling reduce noise according to the "Mass Law" which states that doubling of building weight will only reduce the transmission of sound by 6 decibels (dB).

The solution is to introduce composite construction to achieve extremely high sound transmission loss. This includes Floating Floors, Isolated Ceilings, Isolated Partitions, and Composite Barrier Material, all of which far exceed the limitation of the "Mass Law".

Floating floor systems are used for many purposes. The main purposes for which they are specified are vibration, sound and impact isolation.

There are basically two methods of installation of the floating floor – formwork and the jack-up system. In both cases, the aim is to introduce an air-gap between the structural floor and the floating slab. On completion of the floating floor with a 2 inch gap from the structural floor, the following improvements can be achieved:

STC +61    INR +17    IIC -24



Typical floating floor layout



Block Walls Built off Floating Floor



## ACOUSTIC DOORS, ENCLOSURES & LOUVRES



Our sound attenuation products are designed to provide the following main objectives:

- \* Reduction or elimination of noise levels in surrounding areas
- \* Decrease in noise emission levels at the source
- \* Reduction of environmental noise problems in mixed commercial/residential areas.

Vibran Engineering manufactures, supplies and installs the following sound attenuation products:

- \* Acoustic Louvres
- \* Acoustic Enclosures
- \* Acoustic Doors
- \* STC Walls
- \* Steam Silencers

Key Features of our products include:

- \* High level acoustic performance
- \* Total design flexibility – shape, overall dimensions, doors, windows, service access
- \* Robustness and enhanced durability
- \* Optimum performance = economical costs

Our products can be manufactured to specific needs and requirements.



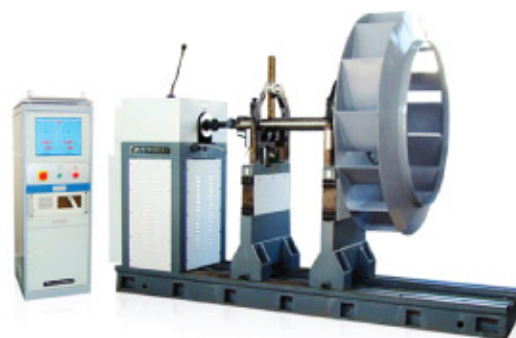
Double leaf acoustic door



Acoustic Louvers utilised at TESCO

## HEAVY DUTY INDUSTRIAL AND MATERIAL HANDLING FANS

# THE WORLDWIDE HEAVY DUTY FAN SUPPLIER



Vibran Engineering has been manufacturing all types of centrifugal fans since 1984. The Vibran range of heavy duty centrifugal fans is used in drying kilns, factory & warehouse ventilation in industrial zones, pneumatic conveying & dust collector exhaust fans, and fans for hot air circulation in ovens.

In agriculture, it is widely used in steam boiler plants and palm oil mills for supplying air, forced draft air, over fire and induced draft.

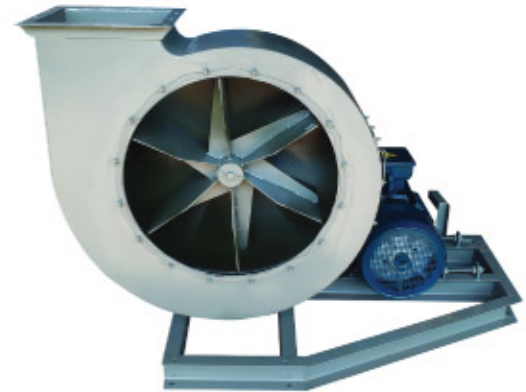
Our palm oil mill boiler fans are widely utilized and instantly recognized worldwide owing to their features of higher efficiency and robustness. To date, we have supplied fans to boiler plants all over the world. We have a large client base which includes not only those from Malaysia, but also from Indonesia, Papua New Guinea, the Solomon Islands Thailand, Ivory Coast, Nigeria, Cameroon, Guatemala, Venezuela, Honduras and Costa Rica.

Our long history of fabricating, manufacturing and supplying heavy duty industrial fans both locally and worldwide, coupled with in-depth industry and technical knowledge, has earned us a reputable image as designer, manufacturer and supplier.



***“ Highest Quality  
range of industrial  
fans to meet the  
ever increasing de-  
mands of our do-  
mestic and interna-  
tional clients ”***





Each fan is thoroughly inspected prior to delivery to ensure our stringent quality is always adhered to.

The fan casings are welded from plate steel for heavy duty. Side plates are stiffened to prevent drumming whilst scrolls are designed to optimize fan pressure developed by the impeller.

The impellers of the fans are ruggedly built, mild steel construction welded, and dynamically balanced to International Standards ISO 1940 to ensure smooth running without vibration. In addition, our balancing machine allows us to balance fans of up to 10 tons.

The top and sides of the bearings pedestal are fabricated from heavy gauge mild steel plate.

Vibran's range of heavy duty centrifugal fans come assembled with backward inclined non-overloading characteristics, flat laminar blades, backwards curved aerofoil blades, open radial blades, shroud radial impeller and radial-tipped blade impeller.

Fan accessories like drain plugs, inspection door, silencers, filters, guards, dampers, anti-vibration mountings can be supplied if desired.

## VENTILATION AND EXHAUST FANS

### FAN SOLUTIONS

Vibrantech provides total ventilation and exhaust control solutions mainly to the heating, ventilation, and air conditioning (HVAC) industries. Our products are well proven in virtually all general ventilation and air conditioning applications. Modern drive and control technology enhances efficiency and therefore sustainability, reducing operating expenses of buildings. Our fans are used in buildings such as the world's tallest twin towers (Petronas Twin Towers) and the KL International Airport terminal building.

Our standard product range for building services is comprehensive, and can be supplied from stock within a very short lead time. They include, but are not limited to Cabinet, Propeller, Axial, In-line, Mixed Flow, Roof and Cooling Fans.



In line fans



Axial Flow Fans



Induction Fans



Mixed flow in-line fans



Jet Fans



Single Inlet Centrifugal Fans



Client: KL International Airport



Client: Petronas Twin Towers



Client: Genting



Our Principal, WOLTER, a leading producer and distributor of quality fans and related products, provides world-class customer services for development in every industry sector. We work hand in hand to provide special designs and specific solutions for the different needs of our clients. Our engineers are capable of customizing and designing a fan that fits your unique dimensional and performance requirements. Together, we share the same vision; committed to constant technological improvement and innovation as well as a high standard of quality with outstanding customer service. Having our testing and quality control facilities located in Asia further affirms our commitment to offer the best value to all our customers in Asia and worldwide.



WOLTER Asia is well equipped with all essential measuring and test equipment. The aerodynamic performance fan curves of all fan types can be determined by Chamber tests in accordance to AMCA 210. For Research and Development, quality assurance and factory acceptance tests, modern in-house testing facilities and measuring equipment is at our disposal. WOLTER's Testing facilities are equipped with the latest state-of-the-art equipment and shall be accredited by AMCA (Air Movement & Control Association).



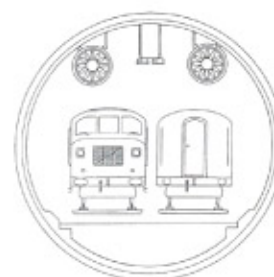
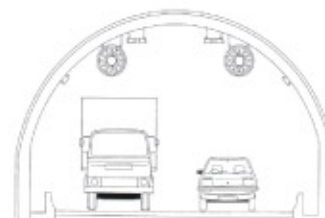
## FAN SOLUTIONS

### TUNNEL JET FAN

Vibrantech is also involved in tunnel ventilations (roads, railways, mining). These jet tunnel fans are specially constructed to provide the required thrust to ventilate the tunnels and can be supplied with Class H motors for use as smoke-spill applications. The motors last for periods of up to 3 hours at temperatures of 250°C or 1 hour at 300°C, or as specified in the tunnel design.

The fans can also be supplied with Truly (100%) Reversible mode, and can be of diameters up to 2400 mm. Silencers coupled at the inlet and outlet ends of the jet fan are supplied as standard equipment.

Currently, our tunnel jet fans are installed at Karak and Changkat - Jering Tunnel.



### CAR PARK JET FAN

The continuously rising volume of inter city traffic has led to the provision of adequately sized car parks as a part of every major real-estate development project.

In the recent years, jet fan technology has established itself as the new standard in car park ventilation in many countries.

In a ductless jet ventilation system, the architecture of the car park itself serves as the air duct. Air velocities are much lower, and there is no resistance caused by a duct system. The total amount of energy consumed by a jet ventilation system is therefore significantly lower.

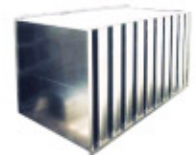
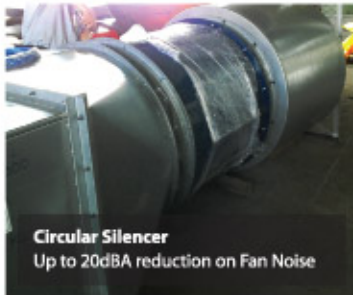
***“Lower energy consumption reduces operating costs ”***





## SILENCERS

We provide simple solutions to duct-borne noise using a computerized program for a selection of attenuators (silencers) to meet the desired Noise Criteria (NC) or dBA level. Our qualified engineers will advise clients on the full range of attenuator combinations.



## FABRIC DUCTING SYSTEM

### MALAYSIA'S LEADING FABRIC DUCTING SYSTEM SOLUTION PROVIDER

Vibrantech is the local representative for Ductsox, a leading manufacturer of textile air dispersion products for open and finished ceiling architecture, critical environments and under-floor applications.

Our fabric systems are a cost effective, aesthetically attractive alternative to metal ductwork.

Fabric Advantages and beneficial characteristics:

- \* Simplified Design/ Uniform Air Dispersion
- \* Cost Savings/Minimal Labor Hours
- \* Lightweight/Easy to ship
- \* Quiet
- \* Air Porous
- \* Easy to maintain/clean
- \* Portable flexible
- \* Colorful/personalization

**DUCTSOX®**  
Textile Air Dispersion Products



**[www.vibrangroup.com](http://www.vibrangroup.com)**



**Vibran Engineering (M) Sdn Bhd | Vibrantech (M) Sdn Bhd**

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