Acoustics

Balancing the science of Sound
Company Profile

Forest House Trading LLC can supply and install high quality acoustic equipment and sound insulation products suitable for schools, recording studios, music rehearsal and performance venues, conference centres and hotels.

Whether you need high performance acoustic doors, to improve the acoustics of a room with acoustic panels, or an economical option for music teaching space such as modular rooms, Forest House will source an effective solution that is fully tested and industry compliant, with installations tailor-made to your specific needs.

Our acoustic products include soundproofing for walls, flooring and ceilings, designed to deflect, reflect and absorb sound, or reduce impact or airborne sound.
Acoustic Panel

Characteristics
Environment friendly and harmless to human body removing harmful environment elements as substitute materials for plaster board, glass fiber panel, there are no weathering and no dust happening like scattering. Soundproof, Thermal Insulation, Softness and Light Weight Having tensile strength and softness simultaneously consisting of three-dimensional network through the self-fusion of cellulose (polyester), having soundproof, thermal insulation and light weight with having pores connected inside.

Sound Absorption:
Excellent Airborne and Impact soundproofing as certified. Free for Any Finishing: With surface works, fabric, metal cladding, painting, wall paper, wall coverings, digitally printed skins and various fabrics finishing touches are performed.

Burning and humidity safety The low melting point ingredients of polyester melting in a low temperature in a fire Prevents the progress of flames with covering flames and the poisonous gas doesn’t happen in combustion. It is a flame retardant material.

SOUND ABSORPTION CHARACTER IN INSTALLATIONS
The measurement results of sound absorption character of Sound Absorption (Reverberation room method sound absorption efficiency, %) - When powerful sound absorption character is needed, Polyester is the BEST

ACOUSTIC PERFORMANCE:
GOLDLINE® Sound Absorption Panels has been tested to a ABSORPTION COEFFICIENT of 0.97 AND NOISE REDUCTION COEFFICIENT (NRC) of 0.70 and typically reduces reverberated noise by approximately 90%. Acoustically tested in accordance with AS 1045-1988 and ASTM C423-90A

SOUND ABSORPTION SYSTEM
GOLDLINE® SOUND Absorption System for AIRBORNE and IMPACT Sound Control is Polyester Fiber Board made from 100% Polyester Fibers with sound-absorbing power and thermal insulation character. It is a very fine quality Next Generation GREEN Technology Product Designed to assist the Designers achieve excellent Noise Control Levels / Acoustic Comforts and Thermal Insulation.
STANDARD COLOR

SOUND REVERBERATION CONTROL AND REDUCTION OF AMBIENT NOISE LEVELS INSTALLING GOLDLINE SOUND ABSORPTION WALL PANEL SYSTEM WILL INCREASE SOUND ABSORPTION and REDUCE THE AMBIENT NOISE LEVELS INSIDE THE MEETING ROOM

Because of the hard and sound reflecting materials used in the construction of the MEETING ROOM which makes the space reverberant and builds up higher levels of noises.

To help control this sound reverberation, high density sound absorptive material of 25mm thick with acoustic performance rating of Sound Absorption Coefficient 0.97 and NOISE ABSORPTION COEFFICIENT (NRC) of 0.70 "GOLDLINE SOUND ABSORPTION WALL PANEL SYSTEM with Porous and Decorative Interior Finish for FINE INTERIOR DECOR “ are proposed to control the ambient noise levels.

ACOUSTIC PERFORMANCE: GOLDLINE® Sound Absorption Systems have been tested to a NOISE ABSORPTION COEFFICIENT (NRC) of 0.70 and typically reduces reverberated noise by approximately 70%. Acoustically tested in accordance with ASTM C423-90A
Wood Acoustik Pro is one of the most advanced and efficient absorbing products available today for reducing reverberant noise levels in many environments. Panels are normally fixed onto 50mm battens.

Wood is one of the oldest materials in the world. With its incomparable and unique variety this mature natural material offers inexhaustible possibilities to be creative. Thanks to the application of advanced technology and acoustic theory, the WOOD ACOUSTIK PRO range of timber acoustic panels has been developed. These panels are visually attractive due to the beauty of wood veneers as well as being easy to install. The panels decorate as well as provide a solution to reverberant noise levels inside buildings.
Applications
Since wood is a product of nature, the WOOD ACOUSTIK PRO range of acoustic panels creates a naturally aesthetic solution to noise control. The unique features of the wood panels give a warm organic appearance offering a finish to compliment every area. Surface choices include real wood veneers, wood print laminates, melamine coated and paint finished in RAL / NCS colors timber acoustic panels. WOOD ACOUSTIK PRO panels are suitable for almost every application including use in schools, studios, reception areas, lecture theatres, offices and commercial buildings. WOOD ACOUSTIK PRO panels are exceptionally durable.

Manufacture
WOOD ACOUSTIK PRO acoustic panels consist of a laminate finished surface, base core board and black acoustic fleece backing. The base core board is an 18mm thick MDF sheet with a finish laminated to its front face and black acoustic fleece adhered to its rear face. WOOD ACOUSTIK PRO acoustic panels are manufactured with a tongue and groove joint. Thanks to the precision of the tongue and groove a perfect finish is achieved when WOOD ACOUSTIK PRO is installed.

WOOD ACOUSTIK PRO panels cannot be supplied as curved panels however they can be indexed or stepped around a gentle radius giving the appearance of a slow staggered curve. The radius should be greater than 5m to achieve this.

Surface Finishes
Real Wood Veneers:
These acoustic panels are faced with natural wood veneers. Due to the natural characteristics of wood, wood veneer colors and grains cannot be guaranteed for consistency or match.
Printed Wood Veneers or Melamine:- These acoustic panels are faced with a printed laminate paper (melamine), which imitates natural wood, but is not composed of real wood. Variations may occur between different production batches.
Painted Finish: These acoustic panels are painted / lacquered in RAL / NCS colors. There may exist some color differences between the panels on the same batch production due to the supply of paint.

There are two standard face patterns for WOOD ACOUSTIK PRO. One pattern is made up of a series of slats and the other pattern is made up of a series of round holes. Other face patterns are available upon request. Each panel has a machined tongue down one long edge and a machined groove down the other long edge. Each end is square edged.

Version : A
These have longitudinal grooves, 3mm wide, machined along the length of the panel. Version A has slots machined at every 32mm resulting in each slat being 29mm wide.

Version : B
Has slots machined at every 16mm resulting in each slat being 13mm wide.

Version : C
These have circular holes machined over the face of the panel. Version C has 6mm diameter holes.

Version : D
Version D has 3mm diameter holes. The centre-to-centre distance between the holes is 16mm.
Atom Acoustic Panels is an environment-friendly, recyclable material made from wood wool, cement and water. The natural components together provide many functional characteristics. BAUX Acoustic Panels is available in 5 patterns: Quilted, Check, Stripes, Lines and Diagonal, all designed to be combined into infinity.
We pride ourselves on offering great rubber flooring from stock, at the right price. Our rubber flooring is environmentally friendly in both its manufacture and recyclability. Our rubber flooring is available as tiles or sheet and as you might expect, it’s very flexible indeed, and can be used in an infinite number of ways where no other floor finish can.
The principal purpose of an acoustic curtain is to provide sound absorption within the space where it is deployed. This makes them an ideal solution for a wide variety of applications within the performing arts. Unlike fixed sound absorbers, curtains can provide variable acoustics that will satisfy the requirements of differing music or performance genres sharing a common multi-purpose venue.

The vast majority of suitable applications will be those where the curtains are hung across the face of a reflective surface, such as a hard painted plaster wall, mirrors – such as would be found in a dance studio, or a large glazed area. Some applications may require curtains to be used as space dividers, although care needs to be taken with such arrangements, due to the limitations of the fabrics with regard to sound transmission loss.

The amount of sound that a curtain will absorb will not only depend on it’s area, compared to the space within which it is deployed, but also the weight and type of fabric.
Forest House Trading provides a range of specialist acoustic suspended ceilings, that are designed to acoustically enhance the overall separating floor construction. With high levels of sound insulation, correct acoustic ceiling system and with appropriate acoustic floor system.

We offers attractive and hardwearing tufted carpet tiles in various pile constructions and textures, designed to deliver specific aesthetic and performance benefits.
The sound baffles are all designed for ceiling suspension in loud venues that require a reduction in echo to produce more favorable room acoustics. The baffle options vary based on core material, skins used to wrap them with, and performance value. Prices are listed on each sound baffle’s home page, with volume discounts applying.
Diffusion is one of the methods used in room acoustics to control sound. Sound absorbers absorb sound by reducing reflective energy by friction. Sound diffusers are designed to scatter or disperse sound, by using irregular hard surfaces to break up and scatter the sound waves.

Diffusers (or Diffusors) are used in recording studios, control rooms, music production and live music rooms. Sound diffusers give the room a "live" ambient sound, while at the same time reducing standing waves and slap echo.
Acoustic doors are engineered to prevent a specific amount of sound from passing through a door. They have been common in loud environments such as manufacturing facilities and music studios for decades. But they are growing increasingly popular in office buildings too. A few benefits of a quieter workplace include higher productivity, less sick time, and higher employee retention.
Sound masking systems are a common part of today’s interiors, from their original use in commercial offices and call centers, to relatively newer applications such as hospital patient rooms.

Without this technology, the ambient – or background – sound levels in these facilities are usually too low, leaving occupants trying to work in a pin-drop environment. In fact, the background level in most offices is so low, you can easily hear conversations and noise from up to 50 feet (15 meters) away. These distractions make it difficult to concentrate. It takes more effort to focus, which tires you out, affecting your mood and, ultimately, your productivity.
Our Projects