



AKINCO represent Middle East's leading company in the field of noise control and soundproofing solutions covering whole MENA region.



إكسبو 2020
دبي، الإمارات العربية المتحدة
DUBAI UNITED ARAB EMIRATES



www.akinco.ae



AKINCO delivers clever solutions for every situation, from demanding recording studios to offices, restaurants, buildings, industry, offices and schools. Noise problems can usually be rectified. The AKINCO range of products does the job and adds esthetic values to any environment. We have solutions in all price ranges. AKINCO Team includes Acoustic Engineers, specialized in Building acoustics, Designers, and Senior Acousticians certified from Institute of Acoustics (IOA)-UK.

We also utilize our Research Department to develop customized products to satisfy your every need. AKINCO has the most advanced software tools available to accurately simulate the finalized acoustic result. AKINCO is committed to personal attention to your project. At AKINCO, we will go the extra step to solving your Space and Noise Control concerns.



CORE VALUES

Superior Customer Service

Our passion is to improve sound and noise issues for our customers. Our aim is to use our technical expertise to ensure that each customer is presented with the most effective solution for their situation, aesthetic preferences, and budget.

Region Servicing

Being a part of various industrial, residential and hospitality projects, AKINCO is delivering noise control solutions to U.A.E, OMAN, SAUDI ARABIA, QATAR, KENYA, TANZANIA, AZERBAIJAN ETC.

Materials Origin

Quality materials from Turkey, Germany, Belgium, USA and Portugal, AKINCO full fill need of Acoustic market in MENA.

Acoustic Lagging

Description

AKINCO acoustic lagging and Wraps are designed to block noise that transmits through the walls of the pipe or as well as to increase the sound absorption in the cavity. Designed to offer significant reduction of radiated noise, it consists of a loaded vinyl noise barrier with a scrim reinforced aluminum foil facing on one side bonded to a 1" sound absorbing decoupler. Our pipe and duct wrap offers excellent thermal and acoustical performance.

Our high-performance composite acoustic pipe lagging product consisting of a reinforced aluminum foil faced, mass loaded flexible vinyl noise barrier bonded to a decoupling layer. The product was developed to reduce noise break-out from pipes, valves, fan housings and ductwork in commercial, industrial and domestic buildings. Ideal for both pipe and duct lagging applications.

The unique construction of lagging gives the dual benefits of a noise barrier and a noise absorber. The highly dense and flexible mass layer provides excellent sound reduction properties, whilst the decoupling layer breaks the vibration path between the substrate and the mass barrier, thus allowing the vinyl external wrap to remain flexible and thereby optimize its performance. The external foil facing offers a fire resistant covering and an excellent surface to join adjacent sheets.

Technical Data

- Vinyl barrier weight (1mm/ 2mm) 5kg/m²
- Thickness 25mm
- Maximum temperature 80 degC
- Fire performance (AS1530.3) 0,0,0,0-1
- Weighted Sound reduction index RW = 27 db



Advantage

- Excellent Noise Control and Sound Proofing
- Class A Flammability Rating per ASTM E-84
- Passes UL-94 and FMVSS 302 standards
- Maximizes noise control by providing high sound absorption (reverberation control) and superior transmission loss
- Excellent flame resistance
- Long useful life
- Easy to cut, Easy to install, Highly Effective

Applications

- Hydraulic and waste pipe lagging in all locations
- Air-conditioning duct lagging and shrouds
- Compressor wraps
- Spa motor wraps

Performance

Sound Transmission Losses/ Sound Reduction Index								
Freq (Hz)	125	250	500	1000	2000	4000	STC	Rw
Decibels(dB)	16	19	29	38	48	52	32	29



Acoustic Fabric Panels

Description

AKINCO Fabric Wrapped Wall Panels answer your acoustical and aesthetic needs with their strong sound absorbing performance, durability and elegant appearance. These panels are used for sound reduction and reverberation control. Available in a wide variety of sizes, thickness and colors.

AKINCO Wall Panels allow you to create an effective sound control treatment that is distinctly appropriate for your environment. Standard color options are the Camira Cara or Guilford fabric FR701 Style 2100 series line. Designer selected fabric wrapped sound panels available upon request. The AKINCO Fabric Wrapped Wall Panel is Class A fire-rated and offers various edge details as well as installation options.

Performance

Performance and sound absorption(HZ)							
Thickness	125	250	500	1000	2000	4000	NRC
1"	0.14	0.27	0.80	1.11	1.14	1.14	0.85
2"	0.22	0.81	1.24	1.30	1.21	1.16	1.15

Advantage

- Sizes: Choose from standard sizes or custom sizes up to 4'x10' • Thickness: 1" & 2" (Standard) | 1/2" up to 4" available (custom priced)
- Fire Rating: Class A
- Density: 96-120 Kg/m³
- Fabric Finish: Camira Cara or Other Finishes as required
- Edge Detail: Options for Square, Bevel, Radius, or Miter Edge
- Edge Construction: Natural or Chemically Hardened (Hardened edges provide additional edge protection and a crisper edge appearance.)
- Mounting options for walls: Impaling clips (Default), Mechanical Z-clips
- NRC: 1" (0.85) 2" (1.15)

Features

- Elegant aesthetic
- Variety of sizes and colors
- Reduce reverberation and echo
- Improves speech intelligibility.

Area of Application

- Houses of Worship
- Teleconferencing and Video conferencing Rooms
- Broadcast and Recording Studios
- Multi-Purpose Rooms
- Home Theaters and Auditoriums.



Acoustic Ceiling Baffles



Description

AKINCO Ceiling Cloud Mount Panels are the answer to your acoustical and aesthetic needs with their strong sound-absorbing performance, durability and elegant appearance. Once installed, these suspended ceiling clouds will absorb echo and reverberation, improving the room acoustics of the interior space. Available in a wide variety of sizes and colors, AKINCO cloud panels allow you to create an effective sound control treatment that is distinctly appropriate for your environment. These hanging panels come in standard or custom sizes, up to 4' x 8' in 1" or 2" thicknesses.

The use of free-hanging units as acoustic baffles provide flexibility and a multitude of acoustic solutions to problems related to acoustic design. Where free-hanging acoustic units are used to improve poor acoustics, solitary units give the benefit of diffraction, with a larger area of the absorbing acoustic baffle being exposed to the sound field. Both effects can be used to increase sound absorbing properties.

Technical Information:

- **Sizes:** Choose from standard sizes or custom sizes up to 4'x8'
- **Thickness:** 1" & 2"
- **Finish:** Camira Cara Fabric
- **Density:** 96kg/m³ to 120kg/m³
- **Edge Detail:** Options for Square, Bevel, Radius, Miter Edge details (Natural or Chemically Hardened)
- **Fire Rating:** Class A
- **NRC:** 1" (0.85) 2" (1.15)

Features

- Allows more space on ceiling for services.
- Enables natural light to come through.
- Allows easy access to services located on ceiling.
- Greater area of absorbing material can be used, particularly for high ceilings.
- Can be easily installed on a T-section suspended ceiling grid or individually suspended.
- Can be used where concrete soffit needs to be exposed for thermal reasons.
- Can be of different colors to suit theme.
- Quickly demountable.
- Height can be easily adjusted.
- Colours can be used to create visually stunning effects.

Performance

Performance and sound absorption(HZ)							
Thickness	125	250	500	1000	2000	4000	NRC
1"	0.14	0.27	0.80	1.11	1.14	1.14	0.85
2"	0.22	0.81	1.24	1.30	1.21	1.16	1.15



Wooden Acoustic Panels

Description

AKINCO Wooden panels are powerful union between architecture and acoustical performance. These panels are typically mounted with a porous, sound absorbing core behind, such as fiberglass / polyester board with appropriate density for optimum performance and to meet the requirements of the design.

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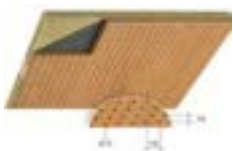
Applications

- Restaurant Acoustics, Office Acoustics, Hotel Lobby and Banquet Hall Acoustics
- Church Acoustics, Classroom Acoustics, Auditorium Acoustics, Lecture Hall Acoustics
- Home Theater Acoustics, Recording Studio Acoustics, Entertainment Facility Acoustics

Features

- Configurations available for NRC = 0.80 and 1.0
- Offers reflection and reverberation control in a beautiful millwork finish.
- Available in sizes 197mm x 2440mm, thickness 15mm, 18mm, 2400 x 600, 600 x 1200
- Choose from any commercially available wood veneers, laminates or paint colors.
- Decorative and easy to install with Metal profile and Clip system
- Can be integrated with several standard grids for ceiling mounting.
- Panel cores are high recycled content, ULEF, Class A Fire Rated and FSC certified.



Type	Perforated	Grooved	Micro perforated	Curved
Ref				
Thickness	12,15,18mm			
Model	16/8 , 32/6 , 8/2	28/4 , 13/3, 9/2	5/1 , 3/0.9	All Models
Sizes	1200x 600mm , 600 x 600mm	128x 2400,197x 2400	1200x 600mm , 600 x 600mm	All Sizes
NRC	0.5 to 0.9	0.5 to 0.9	0.5 to 0.7	0.5 to 0.9
Finish	RAL Paint , Wood Veneer , Melamine Veneer, High Pressure Laminate			
Installation	Sliding Profile, Clip Fixed	Clip / Grooved Fixed	Sliding Profile, Clip Fixed	Grooved Fixed

Sound Attenuator



Description

AKINCO offers the design and engineering assistance to integrate our line of duct silencers, sound attenuators into a system solution. As a result you may choose from a selection of standard or custom engineered duct silencers that will satisfy the requirements of each application.

Areas of applications:

- Fan Inlet and Discharge, Air Handling Units
- Cooling Towers, Chillers, Generators, Radiator
- HVAC Duct Systems for Commercial, Institutional and Industrial Buildings

Features

- Increased insertion loss even in the high-frequency range
- Up to 30 % lower differential pressure
- Attenuation effect due to absorption
- Frame edges are folded to protect the infill
- Subdivided construction with angle section frame
- Energy efficient and/or space saving due to aerodynamically profiled frame
- Multi-section construction available for large dimensions



Technical data:

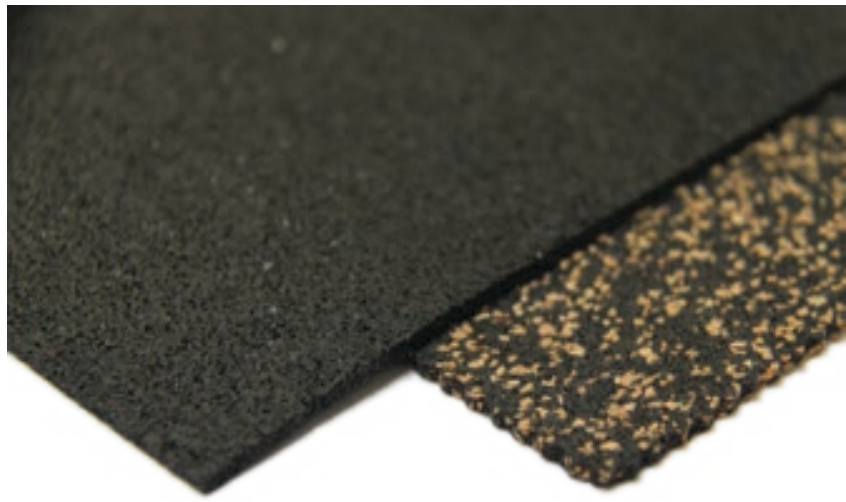
- Splitter thickness: 100, 200mm
- Nominal sizes:
- Width subdivided: up to 4800 mm
- Height subdivided: up to 3600 mm
- Length subdivided: up to 3000 mm
- Operating temperature up to 100 °C
- Casing and splitter frames made of galvanized sheet steel
- Standard flange and angle sections made of galvanized steel
- Absorption material is mineral wool/ fiberglass

Types-Rectangular and Circular

- Elbow Dissipative
- Straight Dissipative
- Cross-Talk
- Custom Designs as Required



Acoustic Underlay



Description

Our impact sound acoustic underlay's are for every floor covering are high-quality products. They provide high impact sound insulation values, are very durable and low in emissions. Acoustic Underlay is a permanently elastic material and can be supplied in rolls, sheets or molded parts. Acoustic Underlay is suitable for all applications which require attenuation of impact sound and vibration, durability and resistance to mechanical loads. Acoustic Underlay can be used for a wide variety of sports surfaces, floor covering, impact protection, sheets and tiles for building protection and for impact sound protection, materials for vibration technology and anti-slip mats for securing loads. Our sound underlay products have an excellent ratio between impact sound improvement and structural height with negligible creep behavior, even under high static or dynamic continuous loads.

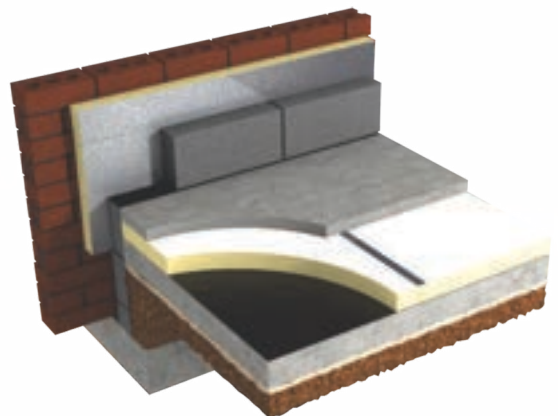
These layers are installed before the floor covering is added, whether it's carpet, tiles, floorboards or a floating floor. The underlay is rolled out and glued to the subfloor (usually either a wooden frame or concrete slab) all the way to the edge.

Areas of applications:

- Floor covering, impact sound insulating layers in flooring constructions
- Floor covering for outdoor applications, impact protection flooring and elastic components
- Vibration insulation, impact sound insulation, shock absorption

Product Data

- **Material:** fine granulate of recycled rubber with cork and a PU elastomer bonding agent
- **Surface:** fine granulate texturing
- **Density:** 700kg/m³, **Width:** 1000mm +/- 1.5%
- **Thickness:** 2/3/4/5/6mm +/- 0.3mm
- **Colour:** black (granulate), beige (cork)
- **Tensile strength:** 0.6N/mm²
- **Elongation at break:** 20%
- **Service temperature range:** -30°C to 80°C
- **Impact Isolation Class IIC:** 55 to 70



Metal Acoustic Wall Panels/Noise Barriers



Description

AKINKO Acoustical Metal Panels combine maximum noise absorption and durability in an attractive, modular unit. Our functional perforated panels can be located anywhere on walls and ceilings to instantly reduce noise levels and control reverberation.

Units are rugged enough for industrial environments, yet attractive enough for placement in commercial and institutional spaces like offices, auditoriums and gymnasiums making it one of the most versatile sound absorbers available. And with their high noise reduction characteristics, most problems can be solved with as little as 25-30% coverage of the reflective surface making these panels a very cost-effective solution to your problem.

Areas of applications:

Manufacturing Facilities and Distribution Centers

Municipal Water Treatment Plants

Offices, Meeting Rooms, Multi-Purpose Rooms

- Auditoriums, Band and Music Rooms
- Gymnasiums & Pools, Correctional Facilities
- Police and Fire Facilities, Shooting Ranges
- Subway Stations and Transit Facilities
- Houses of Worship
- Broadcast, Theaters, and Classroom Environments
- Outdoor Equipment Screens

Performance:

Freq	63	125	250	500	1000	2000	4000	8000	NRC
Absorption coefficient 100mm thick	0.18	0.75	1.02	1.07	0.98	0.89	0.80	0.86	1.05
Absorption coefficient 50mm thick	0.10	0.27	0.60	1.14	1.06	1.03	1.03	1.06	0.95

Features

- All panels feature sturdy attractive fully formed perforated metal panel shell.
- Panels available in 2" and 4" thickness.
- Standard panel width is 30".
- Individual panels available up to 12' long.
- Components constructed from corrosion resistant electro-galvanized steel, G90 galvanized steel, and cold rolled steel, aluminum and stainless steel.
- Available in 22 gauges through 14 gauge thickness.
- Variety of mounting methods.
- High-Performance noise absorption characteristics to NRC 1.05
- Industrial duty air-dry enamel paint systems
- Exterior and marine duty catalyzed epoxy and chemical cure paint systems

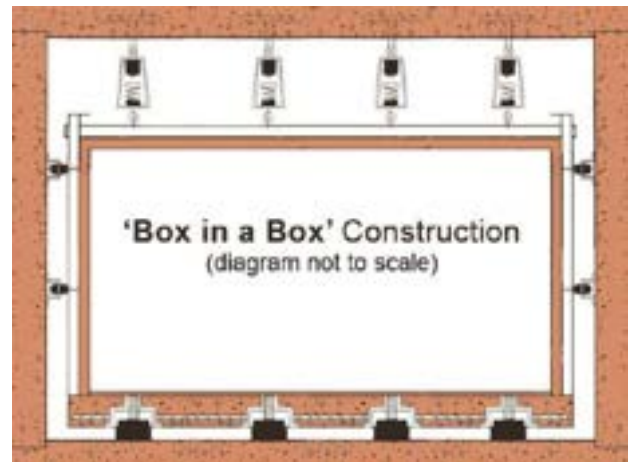


BOX in BOX Constructions

Description

Hearing neighbor noise through your walls. Issues of night club noise transferring to the adjacent areas (guest rooms, meeting rooms etc.) Municipality's regulation to achieve criteria's (Example 65dB @ 3 meters) can only be achieved with additional acoustic treatments to existing concrete walls, floor and ceiling.

The most dramatic improvement from this technique comes from the introduction of competent decoupling via the use of Sound Isolation Clips and Drywall/ ceiling Furring Channel. This solution incorporates all 4 Elements of Soundproofing. You have Decoupling, Absorption, Mass and Damping. Certainly the most labor intensive, it is also far and away the most thorough solution.



For achieving sound transmission class of more than STC 60, different configurations can be installed in ceiling and walls. This configuration with additions of staggered gypsum layers, insulations of various densities can be achieved with a skilled acoustic installation.

Mass Law – More density = more sound Reduction

Areas of applications:

- Night Club, Dance Bars, Sports Bars etc.
- Cinema Rooms, Auditorium, Home Cinema
- Recording Studios, TV/FM Stations etc.

Acoustic Doors

Description

AKINCO manufactures and install high performance acoustic doors. With an acoustics range from Rw40dB to Rw 55dB our single and double-leaf acoustic door sets are the most efficient, user friendly on the market.

The acoustic range of steel door sets has been developed using mineral wool cores to meet specific acoustic performance requirements. The range has been tested independently third party tested to ensure the performance characteristics of the door set. The doors consist of door leaves that contain an acoustic infill in the form of mineral rock wool, selected to provide high damping and minimum acoustic coupling to ensure high transmission loss. The doors come in complete sets that include frames, latch, locking system, hinges and door closer where applicable. High quality powder coating finish is used to ensure best performance and aesthetic appearance.



Applications:

- Airport Services, Broadcasting, Building Services
- Education, Entertainment and Leisure, Healthcare
- Industry, Law Enforcement, Manufacturing
- Power Generation
- Typical Acoustic Door Applications

The perimeter frame seals are self-adhesive seals mounted in the frame rebate, so are hidden when the door is closed.

The bottom seal (Type T) is an aluminium threshold (natural anodised) with integral seal.

Aluminum Tubular Ceilings

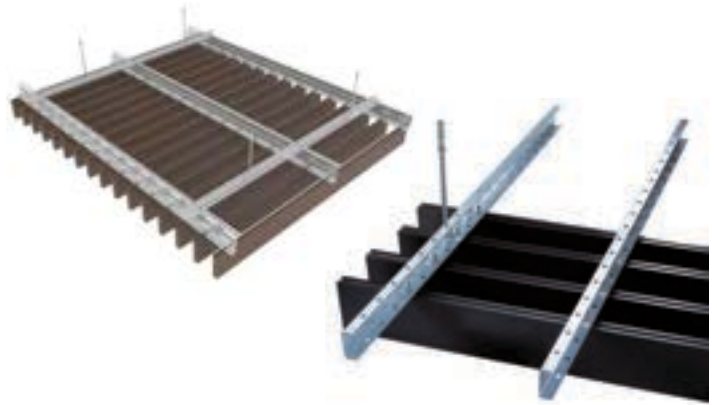
Description

The aluminum system is suitable for interiors requiring a premium aesthetic alternative to suspended tile or open cell ceilings. This comprises Aluminium rolled c-profiles which hook over the carrier. Costs can be controlled through wider profile spacing if required. It is a visually striking linear ceiling system.

Constructed from extruded tubular sections clipped to a simple suspension system. The design allows air to pass through the ceiling plane. This can be to allow the transfer of air from a Chilled Beam or for smoke extraction. Tubes will be clipped into carriers that are suspended from the soffit at 1500mm maximum centers.

Standard Features

- Aluminium extruded profiles.
- Profile thickness 0.4mm to 2mm.
- Huge scope for variety of profile shapes
- Seamless 3000mm profile lengths (as standard)
- Longer continuous runs can be achieved through splices
- 30mm x 165mm and 40mm x 100mm profiles (currently as standard)
- Full services and lighting integration
- Void access can be achieved through simply demounting profiles and tiles.
- Waveform ceilings an option through bespoke carrier (non-standard)
- Suitable for internal and external applications
- Extruded aluminum profiles with exacting fit and finish
- Integrated lighting options



Sound Testing

Description

AKINCO can assist with all facets of acoustical testing, helping you meet third-party acoustical requirements defined by specifies, buyers, and regulatory authorities.

At On-Site Acoustic Testing we specialize in coming out to your workplace and performing non-invasive work place testing of the equipment and processes in your factory, retail establishment, bar, night club, or office suite. We measure all kinds of noises ranging from heavy industrial equipment to heavy metal bands. We offer noise surveys, dosimetric testing, noise maps, spectral analysis, and general noise testing of all kinds of workplaces. Turnaround times for many of our tests are less than one week from Testing to issuing of test report.

Examples of products we test include:

- **Mechanical Equipment :** Outdoor unitary air conditioning equipment, ducted and non-ducted indoor air conditioning equipment, , fans, blowers and other air moving devices, machines, mechanical and electrical equipment and sub-assemblies.
- **Building Materials and Assemblies:** Partitions (i.e., office panels), walls, doors, windows and floor/ceiling assemblies, wall coverings, acoustical panels.



Acoustic Enclosures



Description

AKINCO soundproof enclosures are designed to isolate noisy equipment from employees or adjacent neighbors. Our enclosure systems offer typical noise reductions of 20-55 dBA. Special custom systems incorporating heavier (thicker gage) panel shell, thicker panels or an enclosure within an enclosure are available to achieve higher levels of noise reduction. For enclosures the acoustic panels are designed for applications where a higher transmission loss is required. The acoustic grade fill is 2.5 to 6 pcf long strand fiberglass or mineral wool depending on the application and are inert, mildew resistant, vermin proof and incombustible. Panels are available in 4" or 6" thickness.

Typical Acoustic Enclosure Applications

Acoustic enclosures are suitable for a variety of industrial applications and uses that include:

- Compressor Enclosures provide a simple and cost effective solution for noise reduction of air compressors.
- Diesel and Gas Generator Enclosures are an effective shield from noise-making generators and machinery.
- Personnel Noise Shelters provide outstanding noise reduction and create a quiet comfortable workspace for staff at the heart of any manufacturing or industrial operation.
- Soundproof Observation/Control Rooms and Offices provide staff with a quiet working environment and protect them from the risk of hearing damage due to noisy plant and machinery.

Features

- Accessibility For Production & Maintenance
- Access Doors For Controls, Personnel or Equipment
- Proper Ventilation to Prevent Heat Build-Up
- Viewing or Observation Windows
- Power Supply to Equipment/Receptacles
- Lighting Requirements – Standard/Explosion-Proof
- Enclosure With Floor and/or Vibration Isolators
- Penetrations, Intake Duct/In Feed
- Discharge Duct/Out-Feed, Conduit/Piping
- Ventilation/Silencers, Durable Steel Construction
- Effective Verifiable Noise Control
- STC Values Up To 55, NRC Values .90 to 1.10
- Complete Systems – With Doors, Windows, Louvers, Air Conditioning



Inertia Bases

Description

Inertia Base should be used where the machine to be vibration isolated produces large unbalanced forces which would result in excessive motion if supported directly on spring or rubber based isolators. They should also be used where the machine is subject to external forces or is inherently unstable.

AKINCO Inertia come in several standard sizes. For frame lengths greater than 2400 mm we would normally recommend 6 isolators or more for exceptionally large bases. The base is to be filled with concrete having a mass of between 2300 and 2700Kg / M³.

Features

- Increases the ability of barriers to attenuate noise.
- Tough, abuse-resistant steel construction.
- Designed to withstand substantial loads.
- Structural steel work included on request.
- Weather-resistant and guaranteed rust-proof finish.
- Fully welded steel construction with integral concrete reinforcement fixed at 35 mm above bottom of frame. Range of standard size frames available in three thicknesses 150, 200, 300 & 350 mm. Frame thicknesses not less than L/12 where "L" is the longest side of the frame.
- Finished with a single coat of red oxide primer on external surface only.



Areas of applications:

Typically used with vibration isolators for support and isolation of:

- Chillers, Pumps, Compressors, Centrifugal Fans
- Air Handling Units, Evaporative Condensers
- Cooling Towers



Sand Trap & Architectural Louvers



Description

Architectural Louvers

Architectural or External weather louvers as a protection of air conditioning systems against the direct ingress of rain, leaves and birds into fresh air and exhaust air openings. Under certain unfavourable conditions, such as heavy rain, and depending on the airflow velocity it might happen that slight quantities of water enter together with the air.

Sand Trap Louver

The sand trap louver is used at the fresh air inlet duct of the air handling unit. It can lower the dust loading of conventional filtration as it is designed to separate large size sand particles at low to medium speeds. It is also fitted with a bird screen mesh protect against the unwanted objects. The sand trap louver is a self emptying system. It has a set of holes at the bottom face of the casing to discharge separated sand particles.

Features

- Maximum width of 2400 mm, maximum height of 2310 mm, maximum area of 4 m² (aluminum variant also for continuous horizontal runs)
- Low differential pressure due to aerofoil blades
- Low air-regenerated noise
- Available in standard sizes and many intermediate sizes
- Simple and quick installation due to perimeter border
- Variants made of galvanized sheet steel, aluminum or stainless steel
- Flexible arrangement of sections for covering large areas (should then be fixed on a support structure which is to be provided by others)
- Free area of approx. 60 % (with insect screen approx. 45 %)
- Width subdivided: up to 4900 mm, Height subdivided: up to 4720 mm
- Total differential pressure – exhaust air: 30 Pa at 2.5 m/s



Vibration Isolation



Description

Spring vibration isolators are used to reduce the transmission of noise, shock, and vibration produced by mechanical, industrial or process equipment into or within a building structure.

Typical Isolated Equipment includes:

Pumps, Fans, Cooling Towers, Rooftop Units, Chillers, Boilers, Compressors.

Springs shall be selected to provide operating static deflections shown on the Vibration Isolation Schedule or as otherwise indicated on the project documents. Springs shall be color coded or otherwise identified to indicate load capacity.

Housed Vibration isolators shall consist of a steel spring and load cap housed in a cast semi-steel or aluminum

assembly, with adjustable side plate and sponge neoprene snubbers designed to stabilize the isolators and prevent metal-to-metal connection of top and bottom housing sections. The top housing section shall be drilled and tapped and shall include a steel load transfer plate and leveling bolt, and locknut. The bottom housing section shall be bonded to a 1/4" (6 mm) thick ribbed neoprene noise isolation pad and shall be drilled to allow bolting to the supporting structure.

Spring elements shall have a lateral stiffness greater than 1.0 times the rated vertical stiffness and shall be designed to provide a minimum of 50% overload capacity.



Anti-Shock Padding on Walls



Description

High-quality gym wall pads to provide heavy-duty protection.

Our pads bond a 2" (50mm) thick, 3.5 lb. (1.5kg) density, and polyurethane foam to a 7/16" (11mm) thick wafer board and then fully wraps the unit. We use a vinyl-coated polyester covering, enhanced by leather-like emboss pattern.

Ideal for basketball courts, gymnastics areas, wrestling rooms, rehabilitation centers, any surface area where padding is needed.

Pads available with a 1" (25mm) lip at top and bottom for easy installation over finished or unfinished walls.

Other mounting options including concealed z-clips or aluminum channel

We will custom make pads to fit corners, columns, beams, doors and stage fronts

Minimize the risk of injury in gymnasiums, athletic centers, and all-purpose rooms. It's easy to pad almost any obstruction, corner, I-Beam, post, or column with our custom-designed padding.

Areas of applications:

- Reverberant, noisy spaces where panels must resist damage from impacts, abrasion, or moisture
- Gymnasiums, Recreational Facilities.
- Multi-Purpose Rooms, Convention Centers
- Natatoriums (specify aluminum)
- Generator Room & Plant Rooms Walls
- Noise Barriers for HVAC equipment Noise Travel

Quality Foam

- Superior abrasion and puncture resistance.
- It is manufactured with anti-fungal and anti-bacterial agents to keep the mat looking new after years of dependable service.
- The mat is easily cleaned with a mild soap disinfectant.
- Custom padding is available. Choose either 14-oz vinyl fabric or our extra heavy duty, 18-oz. per square yard, double coated polyester fabric.
- 18-oz vinyl fabric is available in different colors.



Base Traps & Subwoofer Isolators



Description

Designed to provide effective low frequency absorption between 60–125 Hz, it delivers maximum effectiveness between 75–100 Hz.

The wooden front panel, covered by fabric in this new version, has two functions, providing sufficient mid-high frequency absorption to control corner reflections without deadening the sound, while simultaneously acting as a diffuser. This new Premium version is covered by fabric, available in eight different colors and allowing a neutral aspect that can be used in a greater variety of spaces by designers, looking for interior design compatibility.

Base Trap is highly recommended for smaller rooms with low frequency issues. The panel can be used in different corner positions and its modular structure allows further units to be added as required.

Installation

Place: Corner,

Fixing Type: Glued, fixed

Information:

Dimensions: 595 x 595 x 155 mm or customized

Absorption Frequency: Low Frequencies

Raw Materials

Material: Wood, Fabric, Foam

Fabric Color: Black // Grey // Bordeaux // Beige // Natural White // Brown // Blue // Orange

Areas of applications

- Listening Rooms, Home Theaters,
- Recording and Broadcast Studios,
- Post Production Studios,
- Office, Rehearsal Rooms,
- Conference and Teleconference Rooms,
- Public Spaces, Auditoriums, etc.



Acoustic Stretch Fabric Wall System

Description

Our Stretch Wall System is a virtually seamless acoustic panel system, configured and installed on site at your facility. Any number of available fabrics are stretched over acoustical substrate and tucked into the high-impact, extruded PVC track. This track allows us to cover large spans of space, create curves or shapes and easily installs around existing obstacles in the room.

A stretch wall system is the obvious choice for a clean looking, flexible system that will surely meet the design and acoustic goals for any project.

AKINCO high tension fabric mounting system that revolutionizes the way fabric can be applied to walls as both a decorative and acoustical wall finish.

Areas of applications:

- Houses of Worship,
- Corporate offices,
- Healthcare, Restaurants, Schools and Universities,
- Teleconferencing and Videoconferencing Rooms,
- Broadcast and Recording Studios,
- Multi-Purpose Rooms, Home Theaters and Auditoriums.



Areas of applications:

- Covers Any Size Wall, No Wall Preparation
- No Lath, No Staples, No Welting/Gimp
- Excellent Acoustical Control Finish
- Flexible Choice of Fabrics
- Choice of Installer or Do It Yourself
- Removable & Replaceable Fabric
- System is Reusable, Completely customizable
- Seamless appearance, Maximum Flexibility
- Unlimited Design Possibilities
- Ability to Cover long spans of wall space
- Absorb, Block or Diffuse Sound
- Variable Acoustical Substrates
- Fabric is Interchangeable
- Reduce reverberation and echo
- Improves speech intelligibility
- Whisper Walls authorized dealer
- All Whisper Walls Wall and Ceiling systems are installed free of adhesives and sealants.

Performance

Performance and sound absorption(HZ)							
Thickness	125	250	500	1000	2000	4000	NRC
1/2"	0.08	0.17	0.41	0.70	0.91	1.01	0.55
1"	0.11	0.32	0.79	1.03	1.08	1.08	0.80
2"	0.22	0.81	1.24	1.30	1.21	1.16	1.15



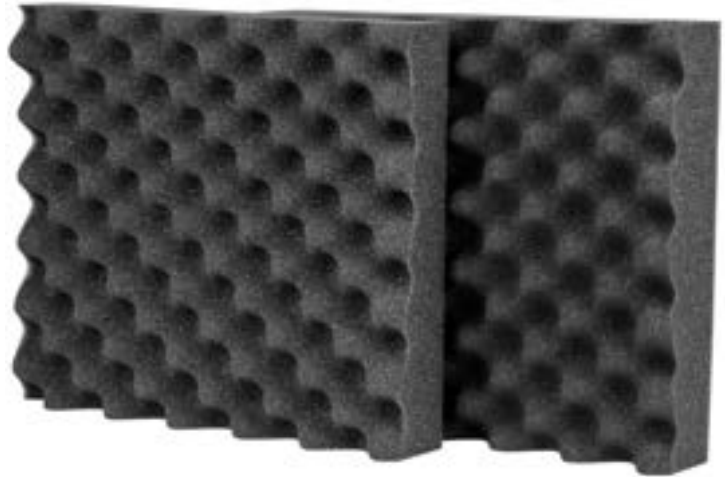
Acoustic Foam Panels

Description

The most cost effective method for controlling unwanted sound wave reflections in a room is to apply thick sound foam panels around the room's perimeter. As the sound waves enter the foam, the pores accept the energy and begin to vibrate. This conducts low grade heat, which means the sound energy is converting to kinetic energy, removing the reflection echoes from the room. Foams come in many shapes and sizes, in both class B and class A rated fire codes. Sound Foam Panels for public venues, such as hospitals, schools and churches, should be cut from melamine foam, which is class A fire approved. Industrial, recording, studio and residential treatments will typically target class B rated foams, made from open cell polyurethane foam.

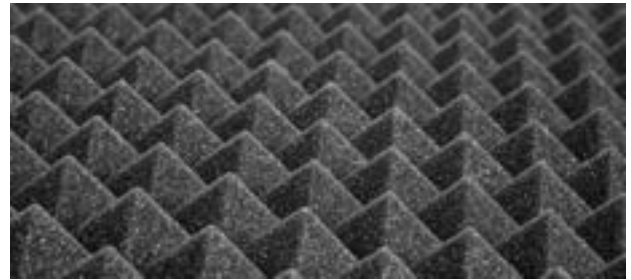
Acoustic foam, commonly referred to as sound-absorbing foam or soundproof foam, is available in many different colors, surface patterns, thickness and NRC (noise reduction coefficient) ratings. They can be in the form of wall panels, ceiling panels and ceiling clouds, ceiling tiles for glue on applications, or fitting in a T-grid.

Note that the thicker panels will perform better with low base frequencies like drums, machinery, barking dogs, etc...while thinner panels work just fine for human voice.



Pyramid

These Panels Absorb Up to 80% Of Your Echo These are 2'x2' square foam panels made of class A fire rated melamine foam. The panels are available in 2", 3" or 4" thickness.



Egg crate:

Eggcrate 2'x4' acoustic foam sound panels made from class A fire rated melamine foam. Available in light gray or pure white, these foam panels are ideal for controlling excessive noise levels in public buildings including schools, churches, hospitals, office and more.



Features

- Recycled Materials
- Class A – Non-Flammable (Per ASTM E-84)
- Lightweight, Easy to Install (adhesively applied)
- Impact Resistant, Durable
- Low Cost, Fiberglass Free
- No Formaldehyde – No VOC'S
- Hi-Performance Acoustical Absorption



Acoustic Louvers



Description

AKINCO Acoustic Louvers are used to reduce mechanical equipment noise transmitted through building openings or from openings in acoustic enclosures or barrier walls. Our Acoustic Louvers are available in galvanized steel, stainless steel or aluminum construction with various surface finishes in order to meet project architectural requirements. We test them according to ASTM E90 for transmission loss and AMCA Standard 500-L for pressure drop, and we can supply them with bird screen and media protection of woven fiberglass cloth or film liner. As with all noise control products, acoustic and aerodynamic performance varies with the design, and the sizing of the louvers is important to minimize concerns of pressure drop and water ingress.

Our acoustic louvers are available in two models, single (type 1) and double (type 2). The aerodynamically designed splitters are fitted with the sound absorber material.

Typical applications are silencing for: Outside air intake or exhaust air openings,

- Generator rooms
- Ventilation openings in acoustical enclosures and acoustical barriers around cooling towers,
- Air-cooled chillers and other outdoor equipment.
- In substitution of architectural louvers where aesthetics is not of primary concern (e.g. some Water Treatment and Power Plants)

Features

- available in any cross-sectional dimensions to "fit-the-opening"
- modular unit sizes to fit openings without using transitions or large blank-off sections
- standard depth 12"; also other depths available
- 1"x1" heavy wire mesh bird screen (usually on inconspicuous side)
- can be selected to suit the acoustic, space, or energy-cost requirements
- construction quality and aerodynamic design optimized to give reliable performance, best acoustics, lowest pressure drop and lowest overall cost.



Type –A

- 30-40% open area
- 12", 16", or 24" thickness
- No line of sight (security)
- Maximum attenuation



Type –B

- 30-40% open area
- 12", 16", or 24" thickness
- Small vane spacing
- Low frequency noise control

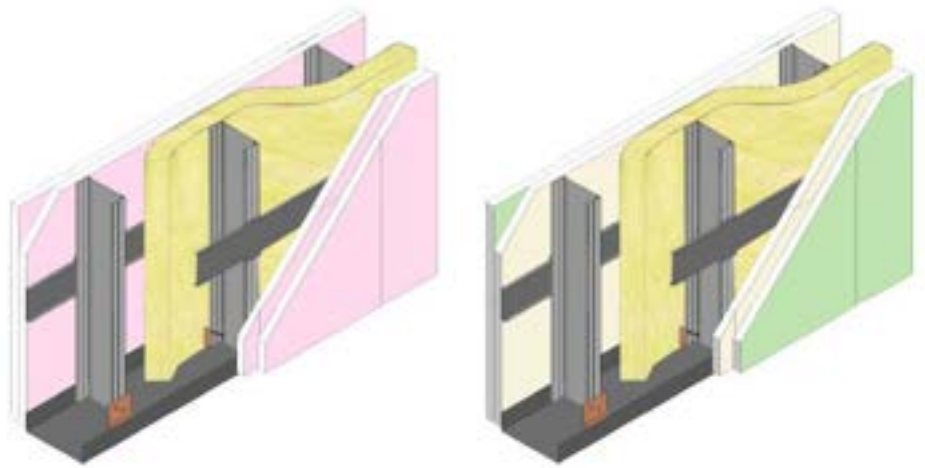


Type –C

- 40-50% open area
- 6" or 12" thickness
- Low pressure drop
- Light Weight



Acoustic Partitions



Description

AKINCO Partition Wall System is formed by fixing Gypsum board of single-layer or multi-layer on single-layer stud frame, which can provide the most concise and economic space dividing solution.

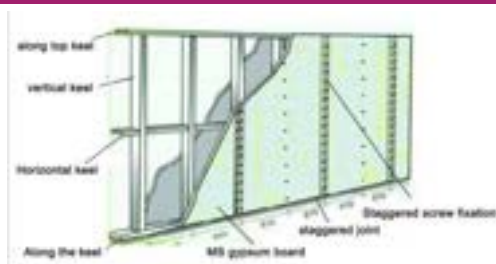
Features:

- To meet different performance requirements through selecting different layers and Gypsum boards of various types.
- Dry construction, easy and convenient installation and requires low labor intensity, which effectively shortens the construction period.

The range of drywall partitions is the result of decades of experience in developing, testing and supporting warranted systems that meet the needs of the modern building.

Quickly and simply constructed from high quality, components, our partitions are guaranteed to perform. With construction technology moving towards fast pace and light weight construction, drywall partition has been widely adopted across residential, commercial, industrial and warehouse buildings. Besides the lightweight construction, drywall partition is versatile in creating interior spaces while enabling high building performances in thermal, acoustic and fire properties.

Safe & durable : AKINCO partition is fire rated and achieves the highest European fire classification, A1, according to EN13501-1. Therefore it is able to meet building code requiring drywall insulation to be non-combustible; providing a fire safe environment for buildings and its occupants.



This higher density material provides superior sag resistance and fit. It can be easily cut and trimmed for the best possible fit into the partition wall cavity, assuring there will be no gaps that may compromise the performance of the system.

They cover all applications, from simple space division, through to high performance walls designed to meet the most demanding fire resistance, sound insulation, and impact and height requirements.

Partitions systems, double stud

Double layer Two metal studs

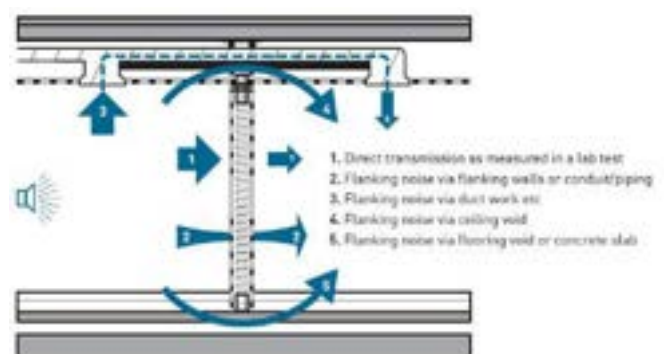
- Decoupled by insulation strip
- Sound protection RW,R = ~59dB
- Fire rating up to 120 minutes
- Static wall heights

Performance

- Sound insulation airborne: 49 – 63 (Rw dB)
- Fire resistance: 30 – 90 (mins)

Areas of applications

- Private and social housing
- Apartments.
- Healthcare.
- Educational Facilities.
- Recreational.
- Industrial Properties.



Acoustic Study



Description

AKINCO acoustics team offers a broad range of services and a wealth of experience in acoustics and in noise and vibration control measures. Our acoustics team's expertise can be employed in a variety of ways, from providing guidance on architectural acoustics to carrying out full environmental noise impact assessments for major industrial facilities and infrastructure projects.

Acoustics is an extremely diverse field, which directly influences quality of life. AKINCO works in multiple areas of acoustics, which encompass work across many business sectors, such as:

- Architectural Acoustical Design – Building Services Noise and Vibration Control
- Industrial Facility Noise and Vibration Assessments and Noise Control Design
- Structural Dynamics Investigations and Mitigation
- Oil Refinery & Gas Plant Noise Assessments and Mitigation (Upstream, Midstream, Downstream)
- Construction Noise and Vibration Impact Assessments
- Power Plant, Electrical Distribution and Wind Farm Computer Noise Modeling

Our team offers advice on mitigating measures to balance potential environmental issues with the need for development. AKINCO also undertakes design and implementation of noise monitoring schemes to verify site compliance

We investigate and mitigate noise control problems wherever they impinge on standards or expectations — in and around buildings, communities or industrial zones.

We use the science of acoustics to assess and then optimize the sound characteristics of enclosed spaces where we gather to live, work, learn, play or pray.

We act to identify, analyze and isolate vibration problems that impact on the comfort, safety or performance of people, structures and equipment.

Architectural Acoustics: Using past experience and results from testing and calculations, the consultant can provide solutions that address sound propagation,

speech intelligibility and the enhancement of music, and provide options to mitigate noise within the built environment. The consultant can review plans for new facilities in order to make recommendations on space planning, room shaping, finish selections, construction methods, etc. The consultant can perform tests within an existing facility to assess the acoustic environment and make recommendations as to how to mitigate concerns. Common issues addressed in architectural acoustics: *Room Acoustics, Reflections, Reverberation, Absorption, Noise Control, Sound Transmission, Background Noise Level.*

Industrial Noise Control: Consultants specializing in industrial noise control typically deal with noise and vibration generated by industrial equipment and machines, and how to control this noise in order to protect industrial workers. The consultant can determine the level of noise exposure and the impact it could have on hearing conservation through testing methods and calculations. Consultants can advise in the selection and/or installation of new equipment or can offer suggestions as to how to mitigate existing noise or reduce noise exposure. Common industrial noise control options include: *Equipment Specifications, Enclosures, Isolation methods.*

Mechanical Noise and Vibration Control: Mechanical equipment is a common source of noise and vibration.



Floating Floors



Description

Floor isolation systems are incorporated into building design to minimize floor impact noise and airborne sound transmissions. Additional designed floor slab is supported by resilient mounts installed on the structural main slab. The design of an effective isolation system is dependent on several factors including:

- Required noise criteria to achieve.
- Mass & Stiffness of the structural slab.
- Isolation mounts natural frequency and damping characteristics.
- Space or Air gap.
- Design of the floated slab.
- Control of sound flanking paths.

Creating air gap between the main and floated floors while decoupling the two floors with the appropriate resilient mount effectively reduce noise transmission. Airborne and impact noise transmissions are greatly reduced between the room incorporating the floating floor system and other floors of the building. AKINCO floating floor systems offers the largest variety of isolation mounts to fit specific applications.

Features:

- Greater load capacity at a lower cost
- Can be designed for any load range
- Easy to create 1", 2", 3", and 4" airspaces
- Fast, simple, inexpensive installation
- Factory installation and supervision available
- Natural Frequency constant over a wide load range

Areas of applications:

- Performing arts facilities.
- Concert halls, Bowling alleys.
- Nightclub dance floors.
- Broadcasting and recording studios.
- Conference rooms, Gymnasiums.
- Gymnasiums, Home theatres.
- Hospital operating theatres
- Plant rooms, Roof top mechanical equipment

Performance:

Freq (Hz)	63	125	250	500	1000	2000	4000	8000	STC
8" Concrete Slab Reduction	36	37	41	45	49	53	57	61	49
Decibels(dB) By floating space	11	12	13	14	15	16	16	16	14



Wood Wool Acoustic Panels



Description

AKINCO Acoustic Wood Wool is an environment-friendly, recyclable material made from wood wool, cement and water. The natural components together provide many functional characteristics. Acoustic Wood Wool stores heat from the ambient air and emits it when the air temperature falls. This contributes to lower energy costs, reduced environmental impact and a stable and comfortable climate indoors.

The open material structure reduces reflection of sound and makes AKINCO Acoustic Wood Wool a good sound absorber. The material dampens noise and contributes to restful acoustics in residential buildings, industrial premises and public spaces. AKINCO Wood Wool is fire resistant and is type-approved as protective cladding with a class 1 coating. The strong surface can cope with vacuum cleaning, and use of the product in restaurants and other sensitive environments show that the boards do not emit dust or particles.

Our woodwool acoustic panel, used in most types of buildings. In terms of reaction to fire, AKINCO acoustic panels have been tested in accordance with BS 476 and are "Class O" as designated in the British Building Regulations and have a Class 1 Spread of Flame classification.

The surface structure of acoustic panels is determined by the width of the wood shavings (wood wool). Our woodwool panels are available in three different structures; ultrafine (1 mm), fine (1.5 mm) and coarse (3 mm).

Panels are available as untreated and completely natural panels, and as painted panels. The acoustic panels consist of wood wool mixed with either white or grey cement, from these mixtures we produce the two basis variants: natural wood and natural grey. Painted panels are available in any RAL/NCS colour code.

AKINCO acoustic panels can be installed directly onto wooden battens or in a suspended profile system. However, they are most often installed with underlying mineral wool in order to ensure the best sound absorption (up to $\alpha_w = 1.0$).

Features:

- Eco-friendly natural product
- Outstanding acoustical properties
- Excellent thermal properties
- Durable and impact resistant
- Termite and vermin resistant
- Non-combustible and does not release fumes
- Non hazardous, Formaldehyde free
- Light weight and strong
- Easy mounting and demounting
- External and internal application.

Areas of applications:

- Offices, Hotels, Shopping Malls, Airports
- Retails, Sports Hall, Auditoriums



Polyester Acoustic Panels



Description

AKINCO Polyester Acoustic Panels are sound absorbing panels developed with environmental friendliness in mind. The panels are made from 100% polyester (60% PET-recycled fiber and 40% PET-virgin fiber) and are 100% recyclable. These Panels offer many environmental advantages over the traditional fiberglass sound absorption panel.

Features:

- Formaldehyde free, No binding agents
- No odor and dust free, Class A Fire Rated
- No risk of skin irritation or respiratory problems
- 60% PET-recycled content, 100% recyclable

Along with the many environmental advantages, the polyester Panels also offer several other advantages that standard fiberglass panels cannot match, such as:

- higher tackability and abuse resistant
- higher degree of resiliency for the board itself
- Panels can be put up without a fabric covering



Technical Information

- Sizes: 4' x 8' and Custom Sizes
- Thickness: 1/2", 1", 1-1/2"
- Fire Rating: Class A per ASTM E84
- Density: 4 PCF, 7.5 PCF, 6.0 PCF
- Color: White, Edge Detail: Square
- Mounting options: Impaling Pins and construction adhesive or mechanical fasteners as appropriate (by others)
- NRC: 1/2" (0.45) 1" (0.75) 2" (0.85)

Cleaning & Maintenance

Use a tacky lint roller to remove all loose dirt and dust or vacuum lightly with clean brush attachment. If still dirty, use a mild detergent with warm water and scrub lightly. Be sure to test in a small unnoticeable area first to make sure there are no adverse reactions to your solution. Blot dry with a clean absorbent cloth.

Performance

Sound Absorption (Hz) (per ASTM C 423-09A)							
Thickness	125	250	500	1000	2000	4000	NRC
1/2"	0.00	0.07	0.25	0.59	0.79	0.96	0.45
1"	0.06	0.34	0.68	0.93	0.98	0.97	0.75
1-1/2"	0.14	0.61	0.82	1.04	1.00	0.93	0.85



Mineral Ceiling Tiles Metal Tiles

Description

Metal Ceiling Tiles

In AKINCO we have a wide range of tiles in galvanized sheet steel and aluminum with a powder coated paint finish.

The tiles can be installed in several different ways: lay in, clip in, hook-on and bandrastrer hook-on. The necessary suspension sections and components are all available for example hangers, main runner sections, cross sections, wall trims and wall springs etc.

Perforation Patterns: The geometry of are available with various different surface perforation patterns – from large holes to the very finest micro-perforations. These facilitate the optimization of reverberation times to suit the acoustics and design requirements of areas.

The optimum acoustic feature of these steel tiles is the 40,000 tiny holes per m² that provide the reduction of sound energy and a balanced relationship of sound absorption and sound reflection.

Material: Galvanized Sheet Steel or Aluminium



Technical data:

- Building material class: A1 to EN 13501-1
- Thickness: 0.5 mm
- Color: similar RAL 9010 of other RAL
- Light reflection: approx. 86 (ISO 7724-2, ISO 7724-3)
- Sound reduction: from 15 dB to 44 dB
- Sound absorption: NRC = 0.50 to 0.80
- Fire protection: * up to F90 (DIN 4102)

Mineral Acoustic Ceiling Tiles:

Mineral fibre ceilings are made up from a mixture of materials, from naturally occurring resources to recycled and processed materials. Our ceiling tiles are 15mm and 19mm thick, very fine textured mineral fiber ceiling tile designed for a broad range of suspended ceiling applications.

AKINCO ceiling tiles are manufactured from sound absorbing base board finished with an acoustically transparent and durable surface facing resistant to mould, mildew and bacteria.

These tiles provides very good all round acoustic performance with NRC .65 – .75.

Dimension: Available in 1200×610 & 600x600mm
Tegular & Square edge







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