



ACOUSTIC SOLUTIONS...



ecotone[®]
An ISO 9001:2015 Certified Company

www.ecotone.co.in

ABOUT US

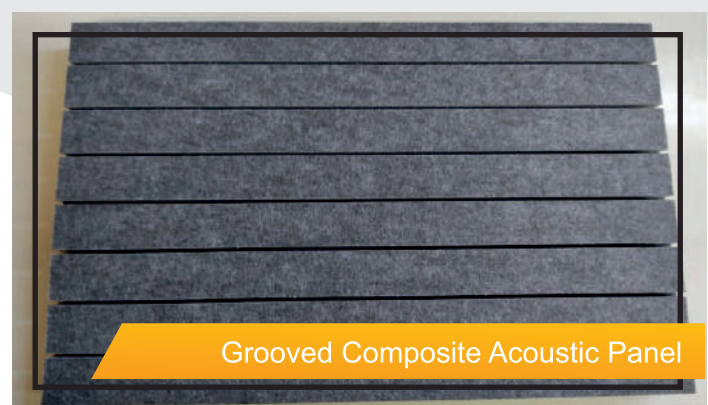
Ecotone Systems Pvt. Ltd. Is the leading provider of acoustical products, we are the designers, manufacturer and also provides with the site installation services. Our goal is to improve the comfort of each of us and the future of all. The team aims to meet today's individual requirements for comfort, performance, safety and aesthetics. We provide Acoustical Solutions for Auditorium, Stadium, Convention Centers, Banquet Halls, Offices and Class Rooms etc.

Our Range of Products

- Grooved Wooden Slats Acoustic Panels (Groovphonic™)
- Micro Perforated Acoustic Panels (Perfoaudile™)
- Perforated Acoustic Panels (Perfoaudile™)
- Grooved Composite Acoustic Panels (Groovphonic™)
- Composite Acoustic Panels (Groovphonic™)
- Fabric Wrapped Acoustic Panels (Echostop™)
- Wood Fiber Acoustic Panels (WooverFasica™)
- Acoustic Hanging Baffles & Clouds (Beetlonic™)
- Acoustic Backlit Clouds (Beetlonic™)
- Metal Acoustic Panels (Orephonic™)
- Soft Fiber Ceiling Panels (Ingovault™)
- Sleek Design Ceiling Panels (Ingovault™)
- Micro Perforated Metal Acoustic Panels (Metallic Vault™)
- Foam Acoustic Panels (Acofascia™)
- PackSound (MLV) Sound Dampening Sheets
- Wooden Acoustic/Fire Door
- Sliding Movable Acoustic Wall Partition

Sound Dampening Sheets

OUR PRODUCTS





Ecotone Systems Grooved Wooden Slats Acoustic Panels (Groovphonic™)

Material Options: Pre Laminated MDF/HDF/WPC Board

Thickness: 16mm

Groove Details: 3.2mm Groove at an interval of 13/28mm pitch

Applications: For Wall of Auditorium, Theaters, Banquet Hall, Convention Centre, Conference Room, Library, Worship Places.

NRC Value: NRC Value 1.0 with the backing of 50mm Rockwool

Installation: On GI Z Clamp and GI Channel Grid with Air Gap OR with Acoustic Insulation Material Backing

Sizes: 575mm X 2420mm



Properties

1	Class 'A' Fire Resistance ASTM E – 84 : 12	7	Durable
2	Smoke Development Index ASTM E-84 : 24	8	Thermal Insulation
3	NRC Value 1.0 , IS:8225 / ISO :354 / ASTM -423C	9	Sag Resistant, Dowel Connection
4	Termite Resistance	10	Easy Installation
5	Fungi Resistance	11	Quality Raw Material
6	Humidity Resistant	12	21 Shades available

Green- Eco Friendly Product



Ecotone Systems Perforated Acoustic Panels (Perfoaudile™)

Material Options: Pre Laminated MDF/HDF/WPC Board for Perforated Acoustic Panels

Thickness Options: 9mm & 12 mm thick for Ceiling Tiles & 16 mm thick for wall Acoustic Panels

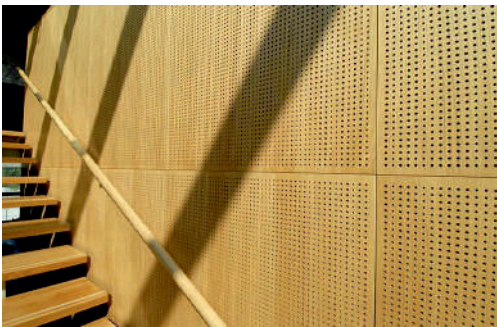
Hole Diameter: 6mm / 08 mm / 10 mm hole dia.

Applications: For Wall and Ceiling Acoustic treatment in Auditorium, Theaters, Conference Room, Banquet Hall , Library, Worship Places etc.

NRC Value: 0.85

Installation: On GI Channel Grid for wall & On Silhouette Grid / Aluminum T Grid for Ceiling

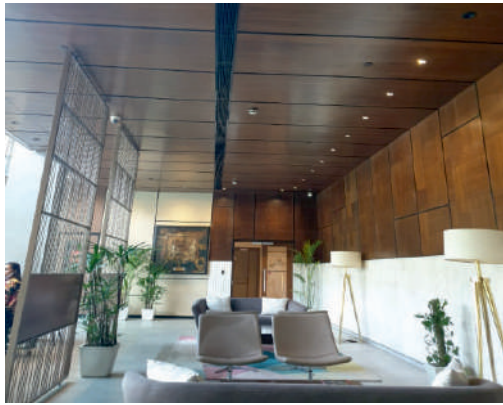
Sizes: 600mm x 2420mm for wall & 600 x600 OR 600 x 1200 OR 600 x 2420mm for Ceiling



Properties

1	Class 'A' Fire Resistance ASTM E – 84 : 12	7	Durable
2	Smoke Development Index ASTM E-84 : 24	8	Thermal Insulation
3	NRC Value 0.85 , IS:8225 / ISO :354 / ASTM -423C	9	Sag Resistant , Dowel Connection
4	Termite Resistance	10	Easy Installation
5	Fungi Resistance	11	Quality Raw Material
6	Humidity Resistant	12	21 Shades available

Green- Eco Friendly Product



Ecotone Systems Micro Perforated Acoustic Panels (Perfoaudile™)

Material Options: Mica Laminated MDF/HDF/WPC Board

Thickness Options: 9mm /12 mm/16 mm thick for Ceiling Tiles & 16 mm thick for wall Acoustic Panels

Hole Diameter: Micro Perforated Panel Front Hole Dia. 0.6mm to 0.8mm & Rear Hole Dia. 10mm, backed with Acoustic Fleece

Applications: For Wall and Ceiling Acoustic treatment in Auditorium, Theaters, Conference Room, Banquet Hall , Library, Worship Places etc.

NRC Value: 0.85

Installation: On GI Channel Grid for wall & On Silhouette Grid / Aluminum T Grid for Ceiling

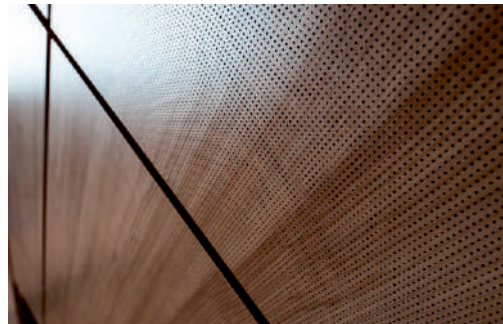
Sizes: 600mm x 2420mm for wall & 600 x600 OR 600 x 1200 OR 600 x 2420mm for Ceiling



Properties

1	Class 'A' Fire Resistance ASTM E – 84 : 12	7	Durable
2	Smoke Development Index ASTM E-84 : 24	8	Thermal Insulation
3	NRC Value 0.85 , IS:8225 / ISO :354 / ASTM -423C	9	Sag Resistant , Dowel Connection
4	Termite Resistance	10	Easy Installation
5	Fungi Resistance	11	Quality Raw Material
6	Humidity Resistant	12	21 Shades available

Green- Eco Friendly Product



Ecotone Systems Fabric Wrapped Acoustic Panels (Echostop™)

Decorative Fabric Wrapped Custom Acoustical Wall Panels

- High Performance
- Architecturally Decorative
- Custom Engineered & Manufactured
- Reduced Noise & Reverberation
- 100% Custom Colors and Sizes

Product Specs

Material: - High Density Glass Fiber, Wood Fiber, Semi-Rigid Foam Wrapped with Acoustically Transparent Fabric

Pattern: - Flat-faced with square or radiused corners, beveled, radiused or mitered edges.

Features: - Custom designed and manufactured to meet every need. Soft or hard edges

Applications: - For wall and Ceiling Acoustic , These decorative sound absorbing panels are great for offices, schools, meeting rooms, music rooms, hotels, auditoriums, recording studios, broadcasting studios. These acoustic wall panels are perfect for any space where good speech privacy or speech intelligibility is important.

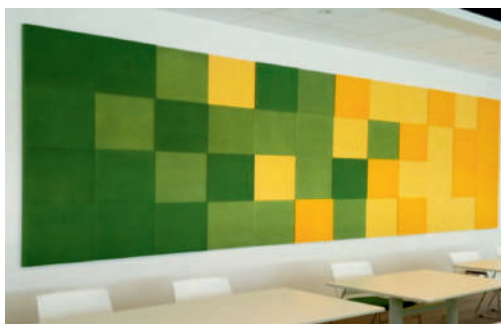
Thickness: - 25 mm for Wall & Ceiling

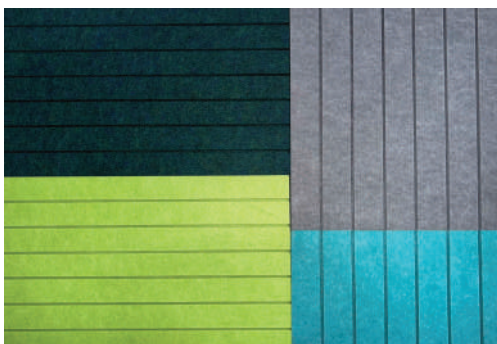
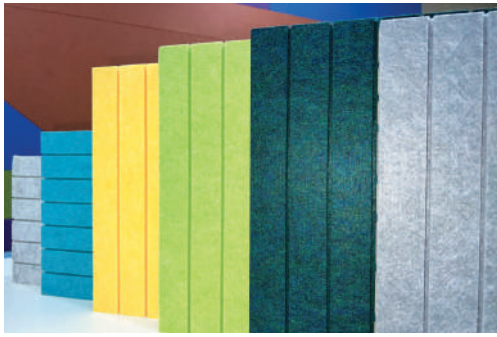
Size: - 600 x600mm or 600 x 1200mm or Custom Up to 1200X2400mm

Colors: - Acoustical cloth comes in a wide range of standard colors and custom colors are available for woven fabrics and perforated vinyls.

Flammability: - High Density 96/120 kg/m³ Class 1 Fire Rating

Installation: - Impaling Clips, Adhesive or H Profile





Ecotone Systems Grooved Composite Acoustic Panels (Groovphonic™)

Material Options: Acoustic Polyester Fiber pad pasted on perforated wooden panels by rubber based adhesive for rigid fixation.

Thickness: 25mm

Groove Details: 3.2mm Groove at an interval of 28mm pitch

Applications: For Wall of Auditorium, Theaters, Banquet Hall, Convention Centre, Conference Room, Library, Worship Places.

NRC Value: NRC Value 1.0 with the backing of 50mm Rockwool

Installation: On GI Z Clamp and GI Channel Grid with Air Gap OR with Acoustic Insulation Material Backing

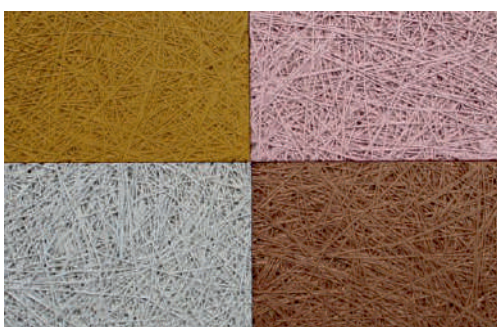
Sizes: 600mm X 2420mm

Pattern: Also available in Plain design pattern with V-Groove at all the four side

Properties

1	Class 'A' Fire Resistance ASTM E – 84	7	Durable
2	High Density	8	Thermal Insulation
3	NRC Value 1.0 , IS:8225 / ISO :354 / ASTM -423C	9	Sag Resistant, Dowel Connection
4	Termite Resistance	10	Easy Installation
5	Fungi Resistance	11	Quality Raw Material
6	Humidity Resistant	12	21 Shades available

Green- Eco Friendly Product



Ecotone Systems Wood Fiber Acoustic Panels (WooverFasica™)

Wood Fiber Acoustic Panels meets stringent government acoustical and flame spread specifications.

Use: - Interior Ceilings and Walls Acoustic Panels

Applications - Educational, Commercial, Sports, Religious, Industrial

Characteristics - Consistent Finish, Clean Corners, Square / Rectangular Panels, Low VOC, Fabric Wrapped OR Paintable, Sound Absorptive

Colors: - Natural, 50 Colour in Fabric Wrapped and 60 Colors in Painted

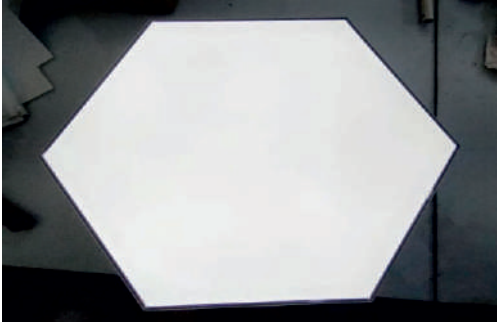
Certification: - Class A Fire Rated (Per ASTM E-84), NRC IS: 8225 / ISO: 354 / ASTM 423C

Thickness: - 25mm for Wall Panelling and 15 mm for Ceiling Acoustic Tiles

Sizes: - 600 x 1200mm & 600 x 600mm

Applications:- Restaurants and bars, Sports and entertainment venues, Convention centers, Houses of worship, Shooting ranges, Manufacturing and industrial facilities, Parking garages, Airports, Schools and civic centers, gymnasiums, classrooms, auditoriums, music practice, band rooms

Installation Options:- Direct attach to wall or GI Channel Grid , Direct attach to ceiling or Drop in ceiling T-Grid



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Ecotone Systems Acoustic Backlit Clouds (Beetlonic™)

Material Options: The material is Stretch PVC Material with 0.25mm thickness. UV Printing will be done on the sheet with 75% Translucent with Acoustic Polyester Fiber Board pasted with rigid fixation. The standard finish of Aluminum Frame is powder coated in Black or White. However we can customize it to any Standard Colors based on the design. The Suspension system is done using 12mm thread rods. Size/Shape/ Design/Height of the backlit cloud can be customized as per the project site or as per the architect/consultant approval.

Features - Economical, Multi-Purpose, High Performance, Durable, Lightweight.

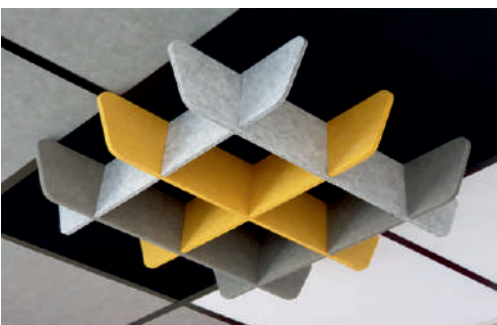
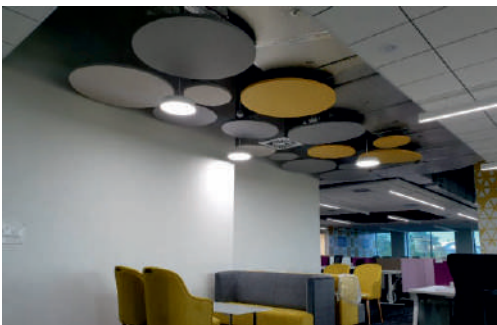
Applications - Gymnasiums, Auditoriums, Classrooms, Music Rooms, Arenas & Stadiums, Churches, Offices, Computer Rooms, Restaurants/Cafeterias,

Thickness – 70mm & 100mm (as per customization)

Shape & Size – Square, Rectangular, Hexagonal, Round, Oval or any custom shape and size

Colors- Any Colour as per Choice along with White or Nature Scenery Background having Lux Level from 800 to 1500 as per requirement

NRC Value: Up to 0.80



Ecotone Systems Acoustic Hanging Baffles & Clouds (Beetlonic™)

Acoustic Hanging Baffles & Clouds are an effective, economical acoustic treatment that suspends from the ceiling to increase speech intelligibility and sound clarity. Our acoustic baffles / clouds are an excellent choice for use in spaces that are large, have limited wall space or need materials out of reach. Since the product installs vertically or Horizontally , both sides have exposure to sound. With an increase in surface area, there is an increase in its ability to reduce reverberation.

We manufacture our baffles & clouds using Compressed Polyester Fiber, Fiberglass, Wood Fiber, Acoustic Foam, Perforated Wooden Panel, Wooden Batten and recycled Fiber Core Material as infill to achieve the best sound absorption. We can also use Fabric for design-ability. Using tie wraps, wire, factory mounted grommets or corkscrew hangers, easily hanging baffles & clouds from the ceiling/slab.

Features - Economical, Multi-Purpose, High Performance, Durable, Lightweight.

Applications - Gymnasiums, Auditoriums, Classrooms, Music Rooms, Arenas & Stadiums, Churches, Offices, Computer Rooms, Restaurants/Cafeterias, Residential, Concert Halls & Theaters, Pro Audio, Gun Ranges, Manufacturing Plants, Machine Enclosures, Water Treatment Plants.

Thickness – 25mm, 30mm, 40mm & 50mm

Shape & Size – Square, Rectangular, Hexagonal, Round, Oval or any custom shape and size

Colors- Any Colour as per Choice, White, Black, Marble Light Blue, Light Grey, Graphite, Beige, Burgundy, Pure Blue, Navy Blue, Hunter Green

Flammability :- ASTM E84, Class A.



Ecotone Systems Sleek Design Acoustic Ceiling Panels (Ingovault™)

Material Options: - Cement Fiber, Glass Fiber Tissue Paper finish Panel, square edged, density 1050kg/m³ and having 10mm dia perforation covered with Absorptive Microfiber Coating on the front side and Black Colour Acoustics Fleece on the back side

Use: - Interior Ceiling Acoustic Panels

Applications - Educational, Commercial, Sports, Religious, Industrial

Characteristics - Consistent Finish, Clean Corners, Square Edge Rectangular Panels, Low VOC, Paintable, Sound Absorptive, High Density, Water Resistant, Termite Resistant

Colors: - 50 Colour

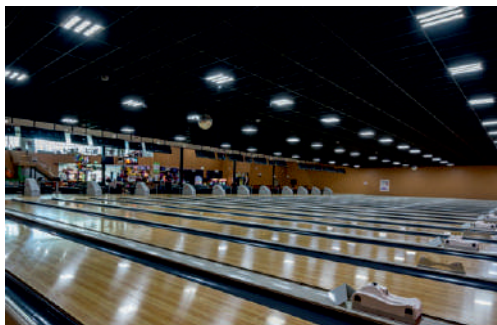
Certification: - Class A Fire Rated (Per ASTM E-84), NRC IS: 8225 / ISO: 354 / ASTM 423C up to 0.80 with insulation backing

Thickness: - 6mm

Sizes: - 595mm x 595mm & 600 x 600mm

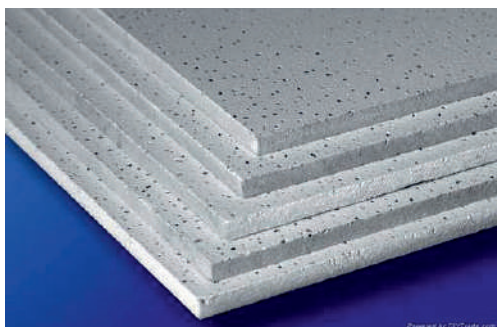
Applications:- Restaurants and bars, Sports and entertainment venues, Convention centers, Houses of worship, Shooting ranges, Manufacturing and industrial facilities, Parking garages, Airports, Schools and civic centers, gymnasiums, classrooms, auditoriums, music practice, band rooms, Offices, Computer Rooms

Installation Options:- Installation on T Grid System / T24 Grid / Silhouette Grid / H Spline



Ecotone Systems Soft Fiber Ceiling Panels (Ingovault™)

Ecotone dropped ceiling is a secondary ceiling, hung below the main (structural) ceiling. It may also be referred to as a drop ceiling, T-bar ceiling, false ceiling, suspended ceiling, grid ceiling, drop in ceiling, drop out ceiling, or ceiling tiles and is a staple of modern construction and architecture in both residential and commercial applications.



Material: High Quality Mineral Fiber / Glass Fiber

Thickness: 15mm / 20 mm / 40mm as per requirement

Applications: For Ceiling Acoustic treatment in Auditorium, Theaters, Conference Room, Banquet Hall, Library, Worship Places etc.

NRC Value: Up to 1.0

Installation: Through Quality Hanging Accessories, Hanging Bars, T - Grid or Silhouette Grid

Size: 600 mm x 600mm or 600 x 1200mm or as per specific Designs

Colours: Any Color specific to Clients Choice



Properties

1	Class 'A' UL	4	Durable
2	NRC up to 1.0	5	Sag Resistant
3	Light Reflection: 90%	6	Easy Installation

Green- Eco Friendly Product



Ecotone Systems Acoustic Metal Ceiling Panels (Metallic Vault™)

Ecotone Provide A wide range of metal ceilings in aluminium & GI steel metal are available in Square, Rectangular, linear and tile configurations.



Acoustic Performance: - The Ecotone range of interior metal ceilings include a variety of different performance levels.

perforated panels offers enhanced acoustics which can be substantially improved with the addition of special acoustic pads. Acoustic performance is especially important in large areas so please consult a member of our team about the acoustic environment you require.

Colours :- Our Metal ceilings are available in a range of standard colours and can be coated in any RAL color.

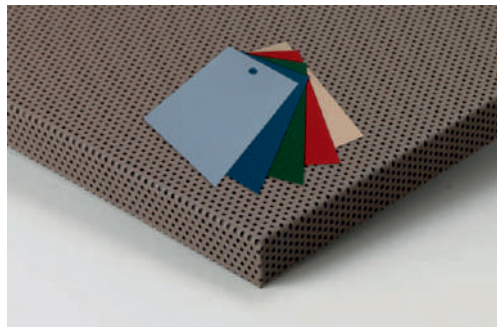
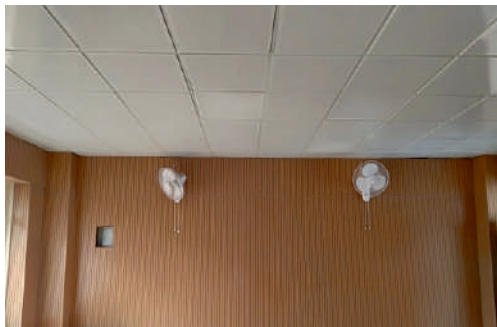
Hole Diameter: Micro Perforated Panel Front Hole Dia. 0.6mm to 0.8mm

Applications: For Wall and Ceiling Acoustic treatment in Auditorium, Theaters, Conference Room, Banquet Hall , Library, Worship Places etc.

NRC Value: Up to 0.85

Installation: Clip-in System

Sizes: 600 X 600mm



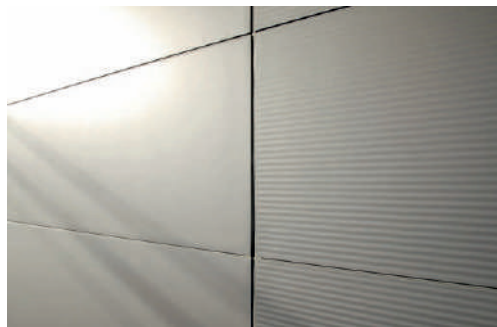
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Acoustic Metal Panels (Orephonic™ Panels)

Ecotone Metal Acoustic Panel is a modular wall unit consisting of a metal or aluminum frame surrounding a perforated metal skin, with encapsulated acoustical sound absorber. The perforated metal allows sound waves to enter the absorbing material where a portion is transformed from sound energy to heat. Ecotone Metal Wall Panels are used primarily as a sound absorber in potentially noisy environments such as gymnasiums, swimming pools, pump rooms, and industrial fabrication work areas.

FEATURES:

- Elegant aesthetic
- Reduce reverberation and echo
- Improves speech intelligibility
- Variety of sizes and colours
- Impact Resistance



TECHNICAL INFORMATION ECOTONE METAL ACOUSTIC PANEL:

Sizes:

- Width: 300 mm , 600mm & 750mm (Custom widths up to 750 max)
- Height: 300mm up to 2400 mm

Thickness: 25mm, 50mm & 75mm (nominal)

Construction: 0.5mm to 0.8mm aluminium or GI steel with acoustic fiberglass fill encapsulated in black heat sealed polywrap

Pattern: Flat or V-Groove

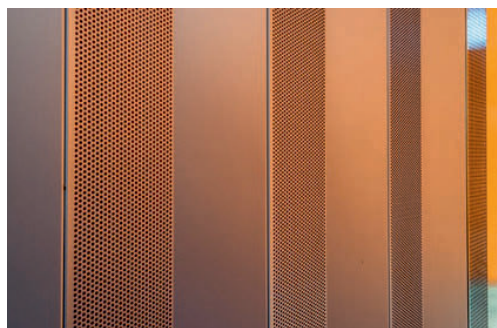
Finish: Selection of RAL powder coated colors

Intended Use: Sound absorption for interior spaces

Fire Rating: Class A per ASTM E84

Mounting Options: Flush or Stand-off. Various configurations available.

NRC: up to 1.00





Acoustic Foams Panels (Acofascia™)

Mel Acofascia Panels – Made out of Melamine Foam

Pu Acofascia Panels – Made out of Acoustic PU Foam

High Quality, High Density, Fire Retardant, Flexible Open Cell Foam

Availability: Available in any required size, thickness, color, shape, coatings as per specific project requirements.

Shapes: Wedges, Pyramid, Sonex, Cylindrical, Waves, Sheets in any required size.

Finish: Raw Foam or wide range Fabric Fabricated, Water replicate coatings, Self Adhesive Backing

Size: Sheets - 600x600 , 600 x 1200 , 1000 x 2000mm, Cylinders - 100mm, 150mm, 200mm dia up to 1100mm long , Wedge up to 1000mm deep

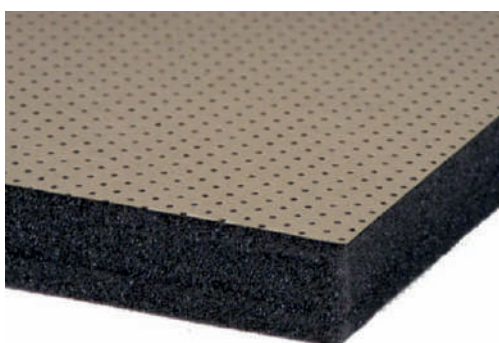
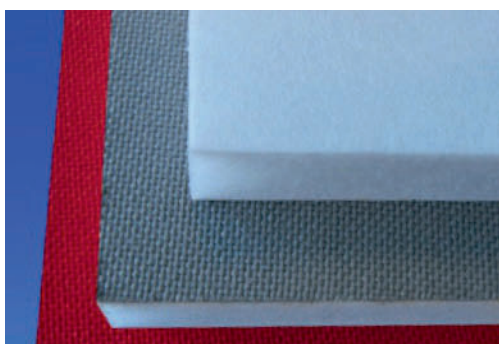
Applications: For Wall and Ceiling Acoustic treatment in Auditorium, Theaters, Conference Room, Banquet Hall , Library, Worship Places, Recording Rooms etc.

NRC Value: Up to 1 NRC

Installation: Can be easily installed through pasting to desire surface.

Properties

1	Class 'A' Fire Resistance	7	Durable
2	NRC up to 0.95	8	Light Weight
3	Humidity Resistant	9	Sag Resistant
4	Termite Resistance	10	Easy Installation
5	Fungi Resistance	11	Quality Raw Material
6	Various Density Options	12	Various Shades available



Ecotone Systems Acoustic & Fire Rated Doors

Material: Wood / Steel

STC: 45 STC Value confirming as IS:9901 (Part III) -1981, DIN: 52210 Part VI-1989 ISO: 16283(Part I) - 2014 from CSIR - National Physical Laboratory

Fire Rating: Up to 120 minutes & 180 minutes confirming to BS: 476 part 22/IS-3614 Part 2

Finish: Painted , Mica laminate , Veneer

Accessories: SS Ball Bearing Hinges, Handle, Door Closer, Panic Bar, Lock, Drop Down Seal, SS Tower Bolt and modified as per specific client requirement.

Acoustic door having Rockwool 48kg/ M³ density Confirming to IS 8183, Sandwiched between 1 layer of 3mm thick Sound Dampening Sheet and Commercial ply both side with EPDM Gaskets around the frame are used to enhance acoustic properties. The Door Finish can be as per the approval by architect. Hard Wood Door frame size is 125x90mm with double rebate.



Noises and Vibration Control

A. Pack Sound Dampening Sheets (MLV)

At Ecotone, we offer sound dampening sheets for applications where noise and sound transmission needs to be effectively controlled, Mass Loaded Vinyl is the soundproof vinyl solution to build noise barriers and soundproof walls.

Material: - Mass Loaded Vinyl Sound Barrier

Pattern: - Smooth Finish

Applications: - Block/Stop/Reduces noise transmission through ceilings, walls, floors, machinery enclosures, ductwork

Availability:

Thickness: - 2mm, 4mm & 5mm mass loaded vinyl

Color: - Yellow

Installation: - MLV can be nailed, screwed, stapled or can be hung like a curtain.

Offered STC Range: 25 to 46

1	Reduce Sound Transmission	6	High Quality
2	Improve Communication	7	Easy Installation
3	Durable	8	Various Finish Options Available
4	Improves Health & Safety	9	Reduces Sound Emission
5	Flexible	10	Offering High Sound Isolation Effect



B. Ecotone Pipe Acoustics (Pipestics™)

Material: High Density, Highly Viscoelastic Synthetic Soundproofing Membrane.

Thickness Options: 02mm & 03 mm/37mm.

Applications: Soundproofing of Ducts, reduction of vibration and transmission levels.

1	Flexible	5	Durable
2	Excellent Ageing Resistance	6	Easy Extendable
3	Easy to Handle and Cut	7	Easy Installation
4	Rot-proof	8	Fire Resistance



C. Ecotone DATSpray™ (Acoustic Applied Finishes)

Ecotone DAT Spray

Ecotone Dat Spray offer maximum sound transmission control and absorption, Thermal Insulation and Moisture Control. Suitable for all surfaces, both ceiling and walls.

Thickness Options: 5mm to 25mm

Colors: Grey & Off White

Point of Application: Ecotone Dat Spray can be used practically anywhere, for example in new and old buildings and horizontal and vertical surfaces consisting of profiled roof panels, concrete and plasterboard. Our acoustic solutions provide limited freedom of design combined with good speech intelligibility, high concentration levels, privacy and thus a high level of comfort.

1	Fast Processing	5	Durable
2	Wide Color Range	6	Reduce Reverberation
3	Suitable for all non-working flat surfaces	7	Save Energy
4	Offer High Level of Comfort	8	Fire Resistance





Sliding Partition / Movable Wall

A. Wooden Acoustic Sliding Partition

Ecotone Movable wall partition is a top hung individual panel system with retractable seals top and bottom allowing panels to glide effortlessly into position. Ecotone Movable Wall is the highest specification range, with acoustic insulation capable of achieving up to 50dB.

Features:-

- STC Value 48, confirming as IS:9901 (Part III)-1981, DIN-52210 Part VI-1989, ISO: 140 (Part III)-1995
- No Floor Track, Only Top hang
- STACKING – Center , Side , Two Side
- Finishes – Raw MDF, Painted, Mica Laminate, Fabric Finish



Uses of Ecotone Movable Walls Partitions

- Intelligent and Flexible space utility.
- Effective and more usage per floor area
- Creating extra revenue in Hotels, Conference Halls, Convention Centers by holding several smaller functions as well as large ones.
- Creating Multiple Classrooms, Meeting rooms, office areas instead of one bigroom.
- The most favouring advantage is it provides excellent high privacy, energy savings and at the same time aesthetically appealing flexibility (Layouts of the room can be changed as per the venue requirements) in the form of sound proffing.



B. Glass Sliding Partition

Ecotone Glass Sliding Partition offered glass partition is best for any application where transparency, light is needed. This glass partition is designed using quality-tested toughened glass and Anodized Aluminium Accessories.

Features:

- Durable
- Flawless finish
- Distinguished designs



Office Acoustic Partition

Ecotone Office Acoustic Partition Wall

Ecotone Office Acoustic Partition Wall has Sound Absorption properties and same time stop sound from the transmission. The product is designed to offer the best noise solution through unique preparation and composition of Sound Dampening Sheet, Gypsum Board & Compressed Polyester Fiber Pad of high density.

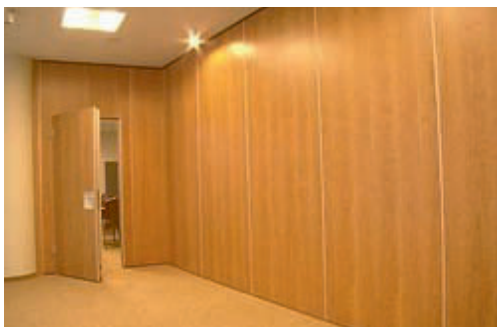
Thickness Options: 25 mm, 50 mm, 75 mm

Colors: Wide Range of Options

NRC Value: 0.9

STC Value: 30, 40, 50 STC

Point of Application: At Walls of Conference Rooms, Private Cabins, Schools, Office Space to avoid Sound escape occurring through walls.



Properties



1	Easy to Install	5	Durable
2	Wide Color Range	6	Reduce Reverberation
3	Suitable for all flat surfaces	7	Save Energy
4	Offer High Level of Comfort	8	Fast Processing

टेस्ट रिपोर्ट संख्या/Test Report No.-03 /2017-18

Testing Place: **एकोटोन सिस्टम प्रोप्रायटीज प्राइवेट लिमिटेड**
Acoustic Lab, Research Department, AIR & Doordarshan, New Delhi.

Client: **एकोटोन सिस्टम प्राइवेट लिमिटेड / M/s Ecotone System Pvt. Ltd New Delhi**

Name of Sample: **एकोटोन वुडन अकॉस्टिक स्लेट ecotone wooden acoustic slate**

Test combination: **ecotone wooden acoustic slate + 50 Rockwool of 64 Kg/ cubic meter**

MEASURED DATA:

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
T1 (Sec)	6.87	6.88	6.38	4.72	4.67	4.42	4.40	4.44	4.30	4.23	4.13	4.04	3.81	3.84	3.70	3.48	3.07	2.82
T2 (Sec)	4.98	3.61	3.11	2.42	1.88	1.28	1.23	1.21	1.30	1.47	1.87	1.78	1.79	1.87	1.82	1.72	1.53	1.38

Absorption Characteristics

Evaluation of Absorption Coefficient: **1.00** **NRC: 1.00**

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
ABA Coef	0.12	0.25	0.32	0.45	0.63	1.05	1.42	1.27	1.21	1.38	0.96	0.81	0.71	0.67	0.57	0.50	0.48	0.36

Method of Measurement and Evaluation: **IS:8226/ ISO: 354/ ASTM 423C**

Report prepared by: **Kirti Soni** (Asstt. Engineer (Acoustic Lab))
Reviewed by: **Mahavir Singh** (Dy. Director (E))
Approved by: **Mahavir Singh** (D.D.G (E))

Test Report No.25 /2020-21

Company: **M/s Ecotone System Pvt. Ltd.**

Sample name: **Ecotone Composite Acoustic panels 16mm Perforated MDF+9mm Acoustic Board+50mm Rockwool pad+64KG density**

Reverberation Time Data:

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
T1 (Sec)	6.10	6.23	5.27	4.86	4.80	4.58	4.57	4.61	4.73	4.44	4.15	4.16	3.85	3.74	3.58	3.37	2.86	2.60
T2 (Sec)	4.79	3.62	3.17	1.67	1.65	1.27	1.28	1.23	1.13	1.09	1.21	1.28	1.27	1.27	1.27	1.28	1.27	1.17

Absorption Characteristics

Evaluation of Absorption Coefficient: **1.243** **NRC: 1.25**

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
ABA Coef	0.10	0.78	0.88	0.91	1.00	1.35	1.28	1.40	1.37	1.47	1.46	1.38	1.21	1.16	1.14	1.08	1.08	0.98

Method of Measurement and Evaluation: **IS:8226/ ISO: 354/ ASTM 423C**

Report prepared by: **Kirti Soni** (Asstt. Engineer (Acoustic Lab))
Reviewed by: **Mahavir Singh** (Dy. Director (E))
Approved by: **Mahavir Singh** (D.D.G (E))

Test Report No. 01/2020-21

M/s : **Ecotone System Pvt. Ltd.**

Sample name : **Micro Perforated wooden acoustic panel-Perfoauldie**

Reverberation Time Data:

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
T1 (Sec)	6.03	6.23	5.27	4.86	4.80	4.58	4.57	4.61	4.73	4.44	4.15	4.16	3.85	3.74	3.58	3.37	2.86	2.60
T2 (Sec)	4.82	3.75	3.68	1.71	1.44	1.32	1.35	1.45	1.46	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66	1.66

Absorption Characteristics

Evaluation of Absorption Coefficient: **0.844** **NRC: 0.85**

Freq (Hz)	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k
ABA Coef	0.10	0.47	0.43	0.28	0.14	0.25	0.25	0.12	0.08	0.09	0.09	0.40	0.30	0.24	0.19	0.14	0.08	0.08

Method of Measurement and Evaluation: **IS:8226/ ISO: 354/ ASTM 423C**

Report prepared by: **Kirti Soni** (Asstt. Engineer)
Reviewed by: **Mahavir Singh** (Dy. Director (E))
Approved by: **Mahavir Singh** (D.D.G (E))

सी एस आई आर - राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY
(Council of Scientific and Industrial Research)

परीक्षण रिपोर्ट
TEST REPORT

Sound Transmission Loss

Report No: **16059123/D5.07/A/T-008**

Date: **24-05-2016**

Using filtered noise in 1/3-octave band, the airborne sound insulation index was evaluated by measuring the average sound pressure levels generated in the source room and the receiver room and by measuring the equivalent absorption in the receiver room. The results are given below:

1/3-Octave Band Center Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
Airborne Sound Insulation Index (dB)	34	33	33	32	34	37	41	46	47	51	51	53	55	58	56	58	58

Using the standard reference curve, the sound transmission class (STC) was found to be 48.

The evaluated uncertainty in measurement is ± 1.0 dB which is at a coverage factor k = 2 and which corresponds to a coverage probability of approximately 95% for normal distribution.

Date of Testing: **18-05-2016**

Remarks: **Nil**

सी एस आई आर - राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY
(Council of Scientific and Industrial Research)

परीक्षण रिपोर्ट
TEST REPORT

Sound Transmission Loss

Report No: **16059123/D5.07/A/T-007**

Date: **24-05-2016**

Using filtered noise in 1/3-octave band, the airborne sound insulation index was evaluated by measuring the average sound pressure levels generated in the source room and the receiver room and by measuring the equivalent absorption in the receiver room. The results are given below:

1/3-Octave Band Center Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
Airborne Sound Insulation Index (dB)	25	22	28	28	29	34	38	41	47	45	44	49	50	52	52	54	55

Using the standard reference curve, the sound transmission class (STC) was found to be 43.

The evaluated uncertainty in measurement is ± 1.0 dB which is at a coverage factor k = 2 and which corresponds to a coverage probability of approximately 95% for normal distribution.

Date of Testing: **18-05-2016**

Remarks: **Nil**

सी एस आई आर - राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY
(Council of Scientific and Industrial Research)

परीक्षण रिपोर्ट
TEST REPORT

Sound Transmission Loss

Report No: **17050179/D5.07/A/T-012/Amend**

Date: **06-06-2017**

Using filtered noise in 1/3-octave band, the airborne sound insulation index was evaluated by measuring the average sound pressure levels generated in the source room and the receiver room and by measuring the equivalent absorption in the receiver room. The results are given below:

1/3-Octave Band Center Frequency (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000
Airborne Sound Insulation Index (dB)	20	24	26	26	26	32	39	43	44	46	47	48	50	51	51	52	52

Using the standard reference curve, the sound transmission class (STC) was found to be 45.

The evaluated uncertainty in measurement is ± 1.0 dB which is at a coverage factor k = 2 and which corresponds to a coverage probability of approximately 95% for normal distribution.

Date of Testing: **01-06-2017**

Remarks: **This test certificate is issued on date 27/07/2017 in lieu of earlier Certificate No. 17050179/D5.07/A/T-012 dated 06/06/2017**

परीक्षण किया गया: **Kirti Soni**
जांच किया गया: **Mahavir Singh**
जांच किया गया: **Mahavir Singh**

परीक्षण किया गया: **Kirti Soni**
जांच किया गया: **Mahavir Singh**
जांच किया गया: **Mahavir Singh**

परीक्षण किया गया: **Kirti Soni**
जांच किया गया: **Mahavir Singh**
जांच किया गया: **Mahavir Singh**

Certificate of Registration

This is to Certify that
Quality Management System of

ECOTONE SYSTEMS PRIVATE LIMITED
PLOT NO 8, ECOTECH XII, GREATER NOIDA, GAUTAM BUDH NAGAR, GUATAM BUDHA NAGAR, UTTAR PRADESH, 201306, INDIA

has been assessed and found to conform to the requirements of
ISO 9001:2015
for the following scope :

MAUNUFACTURING OF ACOUSTIC PRODUCTS.

Certificate No	: 22EOGN17	Issuance Date	: 27/04/2022
Initial Registration Date	: 27/04/2022	Date of Expiry	: 26/04/2025
1st Surve. Due	: 27/03/2023	2nd Surve. Due	: 27/03/2024



Magnitude Management Services Pvt. Ltd.
B-55, Lower Ground Floor, Sector 02, Noida-201301, U.P, India
e-mail: info@mmscertification.com, website: www.mmscertification.com
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Certificate is the property of Magnitude Management Services Pvt. Ltd. and shall be returned immediately when demanded.

Certificate of Registration

This is to Certify that
Environmental Management System of

ECOTONE SYSTEMS PRIVATE LIMITED
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has been assessed and found to conform to the requirements of
ISO 14001:2015
for the following scope :

MAUNUFACTURING OF ACOUSTIC PRODUCTS.

Certificate No	: 22EEGP23	Issuance Date	: 27/04/2022
Initial Registration Date	: 27/04/2022	Date of Expiry	: 26/04/2025
1st Surve. Due	: 27/03/2023	2nd Surve. Due	: 27/03/2024



Magnitude Management Services Pvt. Ltd.
B-55, Lower Ground Floor, Sector 02, Noida-201301, U.P, India
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Certificate of Registration


This is to Certify that
Information Security Management System of

ECOTONE SYSTEMS PRIVATE LIMITED
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has been assessed and found to conform to the requirements of
ISO/IEC 27001:2013
for the following scope :

MAUNUFACTURING OF ACOUSTIC PRODUCTS.
STATEMENT OF APPLICABILITY VERSION 1.0, DATED 24 JAN 2021

Certificate No	: 22EEGB31	Issuance Date	: 27/04/2022
Initial Registration Date	: 27/04/2022	Date of Expiry	: 26/04/2025
1st Surve. Due	: 27/03/2023	2nd Surve. Due	: 27/03/2024



Magnitude Management Services Pvt. Ltd.
B-55, Lower Ground Floor, Sector 02, Noida-201301, U.P, India
e-mail: info@mmscertification.com, website: www.mmscertification.com
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Certificate is the property of Magnitude Management Services Pvt. Ltd. and shall be returned immediately when demanded.

Certificate of Registration

This is to Certify that
Occupational Health & Safety Management System of

ECOTONE SYSTEMS PRIVATE LIMITED
PLOT NO 8, ECOTECH XII, GREATER NOIDA, GAUTAM BUDH NAGAR, GUATAM BUDHA NAGAR, UTTAR PRADESH, 201306, INDIA

has been assessed and found to conform to the requirements of
ISO 45001:2018
for the following scope :

MAUNUFACTURING OF ACOUSTIC PRODUCTS.

Certificate No	: 22EOGC22	Issuance Date	: 27/04/2022
Initial Registration Date	: 27/04/2022	Date of Expiry	: 26/04/2025
1st Surve. Due	: 27/03/2023	2nd Surve. Due	: 27/03/2024



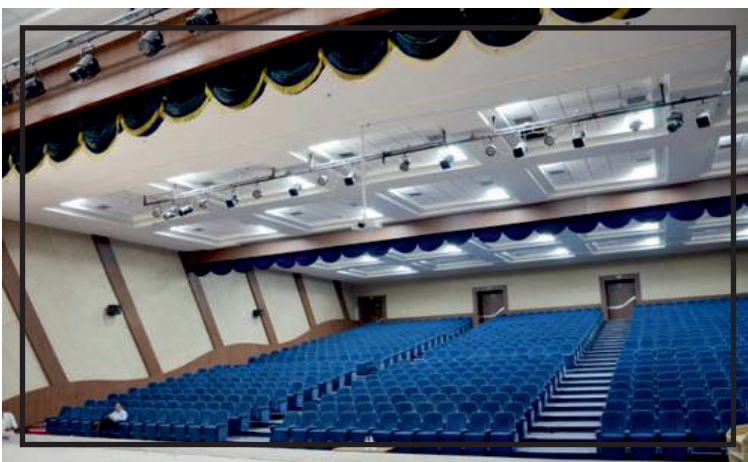
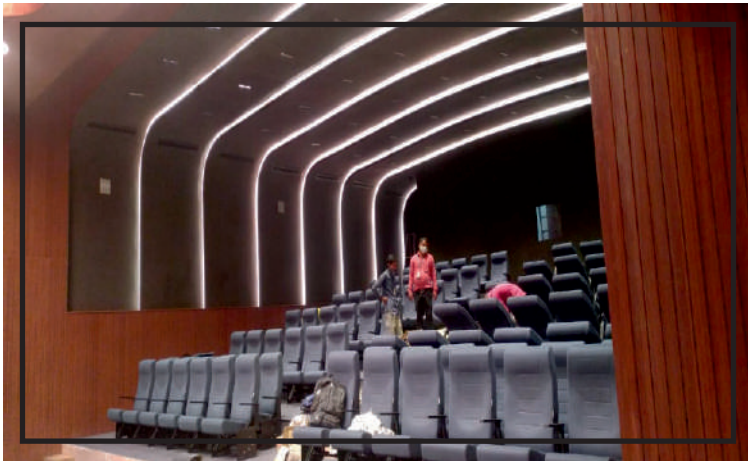
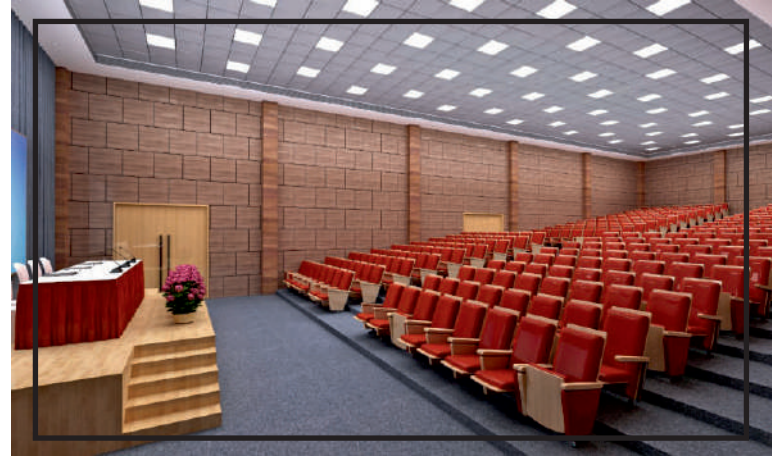
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Certificate is the property of Magnitude Management Services Pvt. Ltd. and shall be returned immediately when demanded.

Recent Projects-Auditorium

<i>Auditorium Name</i>	<i>Location</i>	<i>Seating Capacity</i>
Sardar Vallabh Bhai Patel Indoor Stadium	Mumbai	8000
PHD Chamber of Commerce Auditorium	New Delhi	300
Jijabai ITI (PWD) Auditorium	New delhi	400
Delhi Police Headquarters Auditorium	New delhi	500
Jaipur National University Auditorium	Jaipur	300
Aligarh Muslim University, Kennedy Auditorium	Aligarh	500
AIIMS Bathinda Auditorium	Punjab	250
NHSRC Auditorium	New Delhi	200
Torrent Pharma Auditorium	Ahmedabad	200
Bapudham, Bunkar Mart Auditorium	Ghaziabad	1200
Gandhi Convention Center, Bettiah Auditorium	Bihar	2000
Gandhi Convention Center, Motihari Auditorium	Bihar	2000
Chaturbhuj Narsi Public School Auditorium	Mumbai	350
Delhi Government Schools	New Delhi	350
United College Auditorium	Noida	1000
Anjuman-I-Islam's Allana English High School Ahmed Zakriya Auditorium	Mumbai	250
Mahakavi Kalidas Kala Mandir Auditorium	Nasik	1250
Pandit Paluskar Auditorium	Nasik	1250
Bhairavnath Shikshan Sansthan Auditorium	Manchar	500
Wood Stock School	Mussoori	350
Kalyani International School Auditorium	Pune	800
Gokul Global University Auditorium	Gujarat	800
Shree Gurumandal Ashram	Haridwar	650
Nalanda University Auditorium	Bihar	300
G D Goenka Public School Auditorium	Jammu	280
World Skill Center Hall	Odisha	1450
Tarangi Resort Hall	Ramnagar	450
Haayyat Resort Hall	Goa	250
NRTI Auditorium	Vadodara	400
Cricket Stadium in Rajgir	Bihar	40000
NICMAR Auditorium	Pune	250
RPG College Auditorium	Amethi	1500
Invincibale Theater	Kurukshetra	100
Arogya Dham Auditorium	Chitrakut	250
G3S Cinema	New Delhi	200
L&T Traning Institute	Mumbai	400
Braj Kala Kendr Auditorium	Mathura	450

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Recent Projects-Auditorium



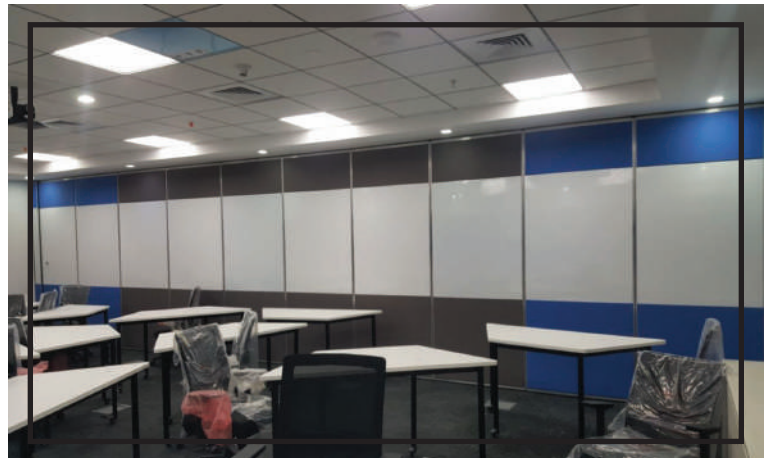
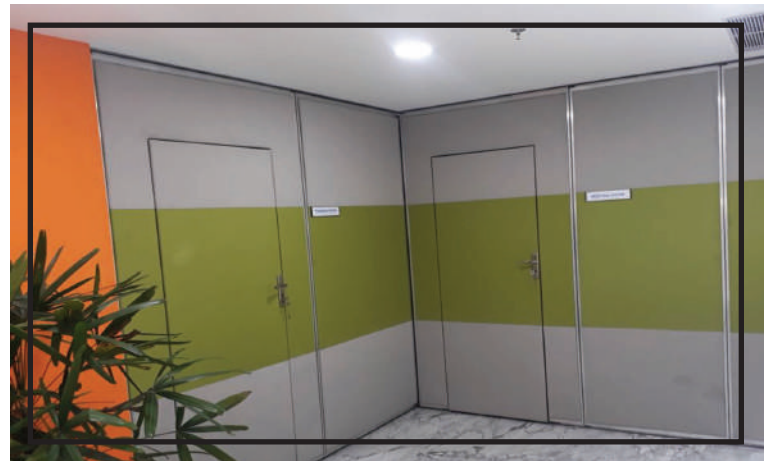


Recent Projects-Sliding Moveable Partition

Auditorium Name	Location
Hotel Park Hayat Banquet	Goa
Hyatt Regency, Bhikaji Cama	Place New Delhi
City Convention Centre	Saharanpur (UP)
AHM Vatika Business Park	Gurgaon
Max Life Insurance	Faridabad
MTDC Convention Centre	Nasik
Baring School, Jandiala Guru	Amritsar (PB)
Rajiv Gandhi Cancer Hospital	New Delhi
Koeing Solutions	Bangalore
ZETA My Home Twitza	Hyderabad
L&T Construction	Gujarat
Hotel Land Mark Banquet	Kanpur
Park Hotel Banquet	New Delhi
Golden Knot Banquet	Ghaziabad
4 By Oyo Banquet,	Chandigarh
Prowess Soft Solutions	Hyderabad
Wunderman Thompson	Noida
Shasun Jain College for Women	Chennai
Trend Micro	New Delhi
Vacmet India Ltd	Madhya Pradesh
Brooke Fields Mall Banquet	Coimbatore
Hotel Mango Banquet	Agra
Hotel 99 Square	Ludhiana
Hotel Siddhartha Banquet	Varanashi
Hotel Jamindar Palace	Puri
Divine Dreams Banquet	Noida
Tarangi Resorts Banquet	Muradabad
Emerald Court Banquet	New Delhi
D S Hotel Banquet	Alwar
Galaxy Banquet	Mumbai
Torrent Pharma	Ahmedabad
Master's Union DLF	Gurgaon
O2 Power, DLF	Gurgaon
Anglow Eastern Maritime Training Centre	New Delhi
EMBASSY OF JAPAN	New Delhi
Megawide DMCC, MOPA International Airport	Goa
Price Water House Coopers	Ahmedabad
RSC Indoor Stadium	Kochi
Iscon Temple	New Delhi
Space Matrix	Hyderabad
DBS Bank	Hyderabad
Sri Anandpur Aasharam	Bangalore/MP



Recent Projects-Sliding Moveable Partition



PACKSOUND™

ABOUT & SPECIFICATIONS



PACKSOUND™ is a high-density, highly flexible synthetic soundproofing membrane that provides excellent sound attenuation in conventional constructions without compromising thickness. It is highly flexible and easily stretchable, which means it can be molded to fit any shape or surface and easily handle intricate joints and corners. Available in different weights, in specific sizes for plasterboard or in combination with absorbent felt, PACKSOUND™ offers solutions for any type of building system and also for industrial applications.

01 DENSITY & SHEET SIZE

Density of PackSound™ **2,100 Kg/m³**
L: 4.83 Meters
B: 1.17 Meters
H: 5mm/4mm/3mm/2mm

02 PACKSOUND™ SS 2mm

Area: 5.65 Sqm (60 Sqft)
Weight: 4.2 Kg/Sqm
Total Weight: 23.73 Kg

03 PACKSOUND™ Pro 3mm

Area: 5.65 Sqm (60 Sqft)
Weight: 6.3 Kg/Sqm
Total Weight: 35.6 Kg

04 PACKSOUND™ Super 4mm

Area: 5.65 Sqm (60 Sqft)
Weight: 8.4 Kg/Sqm
Total Weight: 47.46 Kg

05 PACKSOUND™ Ultra 5mm

Area: 5.65 Sqm (60 Sqft)
Weight: 10.5 Kg/Sqm
Total Weight: 59.33 Kg

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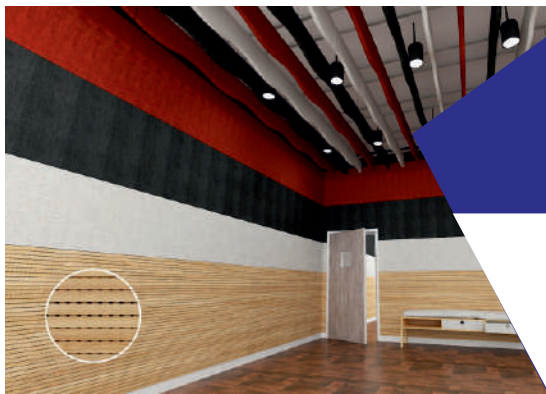


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