





Ecotone Akoustics



Once noise is controlled, balance of happiness is limitless High performance sound insulation that will prevent all noise both from indoor and outdoor for limitless of happiness and privacy in extremely using your voice







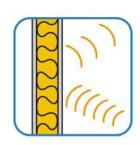
How good will it be if you could enjoy your music and movie at night from your powerful audio, to dance or to sing with your family in a significant day like family day or worry free from your neighborhood and other noise from outside to allow you enjoy your happiness in playing your favorites music after dinner.

Sound insulation

The most important thing in improving indoor sound quality are to control the original sources of sound itself to ensure noise controlled both indoor and outdoor. Thus, factor to reduce noise are as following;

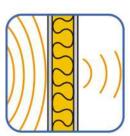
Sound absorption

This to transform the sound energy to other such as thermal energy, this will allow noise once contact with huge small cavitation and porous material like fiber insulation, it will absorb the noise and reduce the sound reflection very well.



Sound insulation

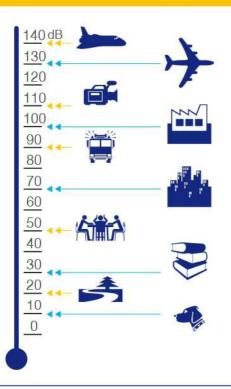
This to reduce sound energy that flow from one room to another by using acoustic material that has characters of porous with huge cavitation like fiber insulation inside the wall, it then helps absorb and loss sound energy when sound wave come into contact with an absorbent material.



Unpleasant Sound

Weather the noise from machine, horn, loud music next door or from airplane all these will causing you stress, insomnia, and your quality of life drop all over the places. Then noise controlling is essential to suit and fit with life spending and places such as bedroom, office room, cinema and others.

The picture shows a comparison of sound levels from different sources and environments.



Noise Criteria (NC)					
Room Type	Volume Level (dB)				
Sound studio	15 - 20				
Theater	25 - 30				
Bedroom	25 - 35				
Hospital	30 - 35				
Workroom	30 - 35				
Classroom and library	30 - 50				
Cinema	30 - 35				
General office	35 - 40				
Banquet Hall	35 - 45				
Gymnasium	35 - 50				
Kitchen	40 - 50				
Machinery room	40 - 50				

MicroTone is the fiber insulation that contain plenty of cavitation among the fiber itself that performs sound absorption from one side to the other, yet help reduce the reverberation which suitable for bedroom, office room, cinema room, musical room and others. With the properties of this sound absorption both inside and outside, it helps improve quality of your life and family more.



"House model that installed sound absorption MicroTone

to block the noise transmit between room"

How to use MicroTone

MicroTone for walls is using in absorb sound between room such as bedroom, kid room, tv room and kitchen.

MicroTone for ceiling is meant for ceiling installation inside to prevent such unpleasant sound like airplane, raining above from sound absorption it yet help absorb heat from rooftop.

MicroTone for floor apply on the floor to prevent such noise from toilet on the second floor down to first floor.

Sound insulation

Acoustic insulation

MicroTone Model /oizestop



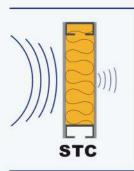
izestop model is the acoustic insulation sheet covered by high quality of moisture and vapor resistance embed from factory. The insulation itself has high density prompt with property of open cell structure permeate among the insulation, this help reduce the reverberation time and fit with all kind of walls that required noise control from one room to another.

How to use

oizestop model is the acoustic insulation that produced and designed to apply with all kinds of wall such as gypsum wall, cement fiber wall, smart board wall, brick wall, precast wall, wood wall and others which help prevent sound wave transmit from one room to another. It suits well with bedroom, office room, meeting room, music room, home theater, karaoke room, recording room, music rehearsal room.



Product's details



3







Has moisture resistance

SS Has moisture with heat resistance

*For any special encapsulation material required please direct inquire to the company

Droduct Facing	F. C.	Density	Thickness	Size	k-value		R-value	
	kg/m³	mm.	m. x m.	W/m.K	Btu.in/ft².h.F	m².K/W	ft².h.F/Btu	
Noizestop 050	SM		50	0.40 x 1.20	0.033	0.229	1.515	8.734
Noizestop 075	or	32	75	or	0.033	0.229	2.272	13.100
Noizestop 100	SS		100	0.60 x 1.20	0.032	0.222	3.030	17.467

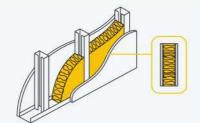
Acoustic for wall insulation

Sound Transmission Class (STC) is the indicator in decibel (dB) to indicated the ability of wall in blocking the noise transmit from one side to another. The more of STC the more of high ability in noise blocking indicated.



Voizestop model apply with Gypsum wall

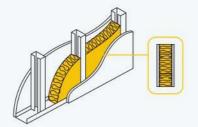
STC 42



Gypsum wall has 2 side 1 level with thickness is 12mm. apply with metal frame size C65 and empty the gap with Microtone Noizestop 050 model

bizestop model apply with Cement Fiber Wall

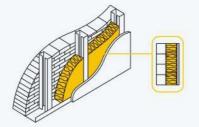
STC 51



Cement Fiber Wall has 2sides 1 level with thickness of 12mm. apply with metal frame size C65 and empty gap with Microtone Noisestop 050 model.

Moizestop model apply with Brick wall

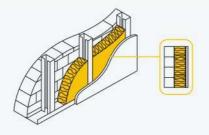
STC 65



Brick wall apply plaster 2 sides with thickness 10 cm. apply with metal frame size C65 cover with cement fiber 8 mm. thickness and empty the gap with Microtone Noisestop 050 model.

Mizestop model apply with Precast wall

STC 68



Precast wall to apply plaster with thickness at 10 cm. in 2 sides, apply with metal frame size C65. Closed with cement fiber thickness 8 mm. And empty gap with Microtone Noizestop 050 model

Sound insulation

Sound absorption

MicroTone Model Moizelezz

with special fiber fabric, strengthen, durable, high quality embedded from factory. The insulation itself has a high density, with plenty of cavitation with porous character, it help absorb and reduce the reverberation so it suitable to use with all kinds of wall that required sound absorption.



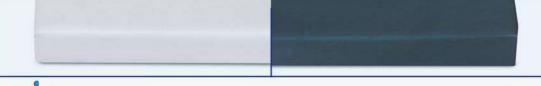
How to use

designed to apply with all kinds of wall such as Gypsum wall, Cement fiber wall, smart board wall, Brick wall, precast wall, wood wall and others to absorb the noise reflection and reduce reverberation within the room. It is good for meeting room, Home theater, music room, karaoke room, recording room, music rehearsal room, machine room, gymnasium, and cinema for instance.



Product's details





placelezz is the instant acoustic absorption sheet encapsulated with special fiber fabric which it's high quality, strength durable, available in 2 color white and black including choices of closed skin to choose depending on the designer's requirement.

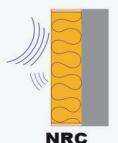
*Special encapsulation please inquire more to compan

D	0.1	Density	Thickness	Size	k-value		R-value	
Product	Color	kg/m³	mm.	m. x m.	W/m.K	Btu.in/ft².h.F	m².K/W	ft ² .h.F/Btu
Noizelezz W350GC	Black	32	50	0.40 x 1.20	0.033	0.229	1.515	8.734
Noizelezz W375GC	or	32	75	or	0.033	0.229	2.273	13.100
Noizelezz W450GC	White	48	50	0.60 x 1.20	0.032	0.222	1.563	9.009

5 For special size please inquired to company

Sound absorption wall

Noise Reduction Coefficient (NRC) is the figure indicate the insulation's ability in sound absorption. The more the NCR showed in the insulation the more ability of sound absorption and lower resonance has, comparing to the low NRC one.



Noise Reduction Coefficient

Product Type	Density (kg/m³)	Thickness (mm.)	Sound Absorption Coefficients, ASTM C423 Octave Band Center Frequencies (Hz)						
(kg.	(kg/III)	(111111.)	125	250	500	1000	2000	4000	NRC
Noizelezz W350GC	32	50	0.27	0.73	1.16	1.13	0.98	0.84	1.00
Noizelezz W375GC	32	75	0.50	0.98	1.26	1.11	0.98	0.86	1.10
Noizelezz W450GC	48	50	0.17	0.86	0.97	0.96	0.93	0.95	0.95

Installation

Installation using spindle pin with Nizelezz



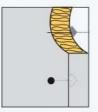
1. Mark the spindle pin with distance each point for 30-45 cm. (In the case the concrete wall has already painted, please remove the painted only the point you want to install the spindle)

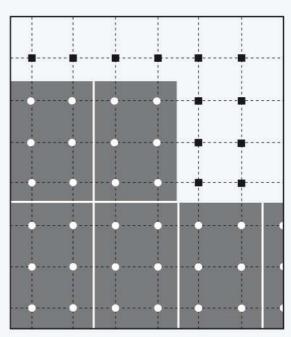
2. Install spindle with special adhesive that suite to each

surface used, laminated the adhesive on the spindle based and leave till dry and settled to enhance its support fully to the object (better to select the spindle that fit the insulation thickness)



3. Install the Nizelezz model with spindle pin by making it out to the insulation surface and covered its tip with washer (Washers are available in many types upon designer and user's need and application)





Suggestion

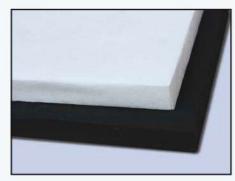
Cutting the out dimensions insulation can be done by remove the fabric first and cut only the out-dimension insulation out by simple cutter then covered back the fabric.

Sound insulation

Acoustic absorption for ceilings

Ecotone

Ecotone is the instant acoustic absorption sheet that closed the surface with special material that enhance its absorption property with ability to reduce the reverberation within the room, building



and residence. While at the back of insulation covered by high moisture resistance embedded from factory, this could apply with T frame on ceiling or difference form of hanging T bar as it light, easily to install and not bending from moist but will forming in insulation shape longer. It suitable for meeting room, home theatre, music room, karaoke room, recording room, music rehearsal room, and cinema for instance.

Properties

Noise reduction coefficient is at 75% (NCR highest at 0.75) capable in reducing reverberation in the room, light weight, not bending from moist and forming longer in insulation shape, yet effectively in heat resistance from high temperature and help reduce air conditioning operating cost.



Product's details

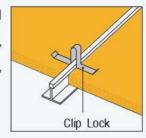
Product	Thickness	Size	Color	Closed skin Material
Ecotone	20 มม.	595 x 595 mm. 600 x 600 mm. 595 x 1195 mm. 600 x 1200 mm.	Black or White	Closed the surface with special skin material while closed the back with moisture resistance material

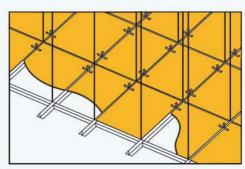
*For special product please inquire to company

Installation

Ecotone is the instant ceiling acoustic absorption sheet, produced and designed to apply with T - flame or T- Bar hanging for ceiling

lock with clip lock to ceiling sheet to avoid the wind blow, easy to install, lightweight, able to cut in shape and size with simple knife, it helps save time and installation cost.





Acoustic absorption to reduce reverberation

Akoustics

Akoustics is the instant acoustic absorption sheet with high hardness and density, has a special characteristic in sound absorption and reduce reverberation inside the room or building and residence. Suitable for meeting room, home theatre, karaoke room, recording room, music rehearsal room, and cinema for instance.



Properties

High value of noise reduction

Able to apply in many interiors designed and decoration format

Easily to install by stick with glue and screw to any wall



Product's details

Product	Thickness	Width	Length
Akoustics	25 mm.	0.60 m.	1.20 m.

*For special size please inquire to company

Noise Barrier

Noise Barrier is the special hardness acoustic absorption sheet paneling inside the wall, high density with size of *0.6 x 1.2M, encapsulated all sides with special water and moisture resistance, non-flammable and sunlight resistant. It's characteristic of insulation is opened called foam, with porous and high dense causing the insulation to absorb noise and reduce reverberation. Produced and designed for all wall appliances outside the building according to the international standard and Japanese standard such as troll wall, engine room wall, sound absorption for cooling tower and others for noise reduction, effectively noise absorption and reduce reverberation very well. (Please inquire to company once required Product size and special closed skin)























19. ASOKE COMPLEX











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PROJECT REFERENCE

1.	ENERGY COMPLEX	20. TEMPO	
2.	РП	21. INDIA EMPORIUM	
3.	JOHNSON & JOHNSON	22. THE GOVERNMENT COMPLEX	
4.	PANYAPIWAT INSTITUTE OF MANAGEMENT	23. TISCO	
5.	IBIS HOTEL PATTAYA	24. HONDA	
6.	IBIS HOTEL NANA	25. AIRPORT LINK	
7.	ASIA CENTER	26. TOYOTA	
8.	SUKHOTHAI THAMMATHIRAT OPEN UNIVERSITY	27. KASEM BUNDIT UNIVERSITY	
9.	VOICE STATION	28. SHANGRI-LA BANGKOK	
10.	ARCHIVES OF THE OFFICE OF HIS MAJESTY'S PRINCIPAL PRIVATE SECRETARY	29. TRISARA	
11.	STUDIO CH. 7	30. RATCHADA TOWER	
12.	THAI UNION FOOD	31. KING POWER	
13.	RANGSIT UNIVERSITY	32. FENIX TOWER	
14.	RAJAMANGALA UNIVERSITY OF TECHNOLOGY ISAN	33. VICHAIYUT MEDICAL CENTER	
15.	MEDIA OF MEDIA	34. SIAM ESTATES	
16.	SALA @ SATHORN	35. SF CINEMA CITY	
17.	SOFITEL	36. MAJOR CINEPLEX	
18.	ASSUMPTION UNIVERSITY	37. EGV	











MicroTone Model /



Apply to all kinds of walls Increase its performance to last longer on flame retardant









Non-flammable Non water absorption



Ecotone

Akoustics

Noise Barrier



Easy to install Hea









Non-flammable Non water absorption



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