

ECHOMUTE®

Standard Sizes and Densities

Size of the Panel 1200mm x 600mm

Thickness(mm)	Density(kg/cu.mt)	Weight(kg)
15	400	4.5
20	400	5.7
25	400	7.5
40	320	9.5
40	400	12.0
50	320	12.0
50	400	15.0
75	320	17.9
75	400	22.4

Above panels are also available in sizes 600mm x 600 mm in thickness 15mm, 20mm, 25 mm, 40 mm, 50mm, 75mm, and size 2000 mm x 500 mm in thickness 40 mm, 50 mm, 75 mm.



SHAHSAHIB WOODWOOL ENTERPRISES
Member Acoustical Society of India

Delhi - 110042

Phone : 9818522603, 9810136644, 9313504560

E-mail: sswoodwool@yahoo.com

Website : www.shahsahibwoodwool.com



ECHOMUTE®

Woodwool Acoustic Panels



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ECHOMUTE®
Woodwool Acoustic Panels
Complete Solution for world Class Acoustics

ORGANISATION: SHAHSAHIB WOODWOOL ENTERPRISES was started way back in 1974 as a humble beginning to cater packaging/evaporative cooler industry. Over a period of time the group has grown as multi product, multi business with versatile interest in areas of construction, projects, high productivity modular office furniture. Woodwool being core competency and major raw material in **ACUTEX™** Woodwool Acoustic Panel was developed primarily from inherent knowledge of recipe and chemical composition by developer in 1974 and upgraded further by existing management so as to be in a position to offer the best products and open for continual improvement. We are also member of Acoustic Society of India.

STRENGTH of Existing management comprises of Mechanical Engineering Graduate from Delhi College of Engineering, Commerce Graduate from Delhi University supported by qualified professionals in field of operations, Marketing and Customer care.

PRODUCT CHARACTERISTICS:

1. **ECHOMUTE** Woodwool Acoustic Panel is made of soft and tender wood wool chemically treated and bonded by pressing together with inorganic magnesium cementing binder and adequately measured & matured as per IS 3308-1981.
2. **ECHOMUTE** Panels are of uniform thickness with $\pm 2\text{mm}$ tolerance with rectangular parallel faces and offered in tolerance band of width $\pm 3\text{ mm}$ and length in $\pm 4\text{mm}$ as per IS 3308-1981. These Panels are available in sizes 1200 mm x 600 mm & 600mm x 600 mm in thickness 15mm, 20mm, 25 mm, 40 mm, 50mm, 75mm, and size 2000 mm x 500 mm



- (7) **Fire Resistant**
ECHOMUTE Wood Wool Acoustic Panels are non inflammable & resistant to fire to a very high extent because of use of refractory magnesia & other chemicals.

Customers & Installations :

- L&T
- Mahatma Mandir Gandhi Nagar Gujarat
- Escorts Ltd.
- Ahluwalia Contract Ltd.
- All India Radio , Kashmir
- Satyawati College, Delhi University
- Silver City Multiplex
- PVS Multiplex
- Convergent LLC, Dubai
- Aadhar Shila Vidyapeeth, Delhi
- DLF Magnolias, Gurgaon
- Vidya Mandir Classes, Delhi
- ALS Institute, Pitampura, Delhi
- Jay Pee Group
- Dr. Baksons, Noida
- ARCOP Ltd.



(3) Moisture Resistant

ECHOMUTE absorbs no moisture from air and retains its original strength. Dampness due to plastering dries out after a while. Hence ACUTEX™ can be used in high humidity areas near coastal lines and hills.

(4) Termite Resistant

ECHOMUTE is highly resistant to termites, rot, white ants & fungus.

(5) Light Weight but high structural strength.

ECHOMUTE is lightweight because of large number of natural air spaces created due to fibrous structure due to use of fine quality wood wool and has great structural strength.

DENSITY: **400 kg/cu.m.**

(6) Thermal Insulation

ECHOMUTE has a very low thermal conductivity and provides high insulation against weather conditions & reduces the heat loss leading to powersaving. Thermal conductivity = **0.08 W/mK.**



in thickness 40 mm, 50 mm, 75 mm.

3. **ECHOMUTE** Panels can be used where sound absorption is required to control echoes or reverberation inside the theatre/multiplex. **ECHOMUTE** is an excellent product for sound absorption and can help to eliminate background noise/echoes from all sources to less than NC 30 in all octave bands. These panels help to optimise reverberation time at 500 Hz. with smooth decay of reverberant sound at all frequencies.



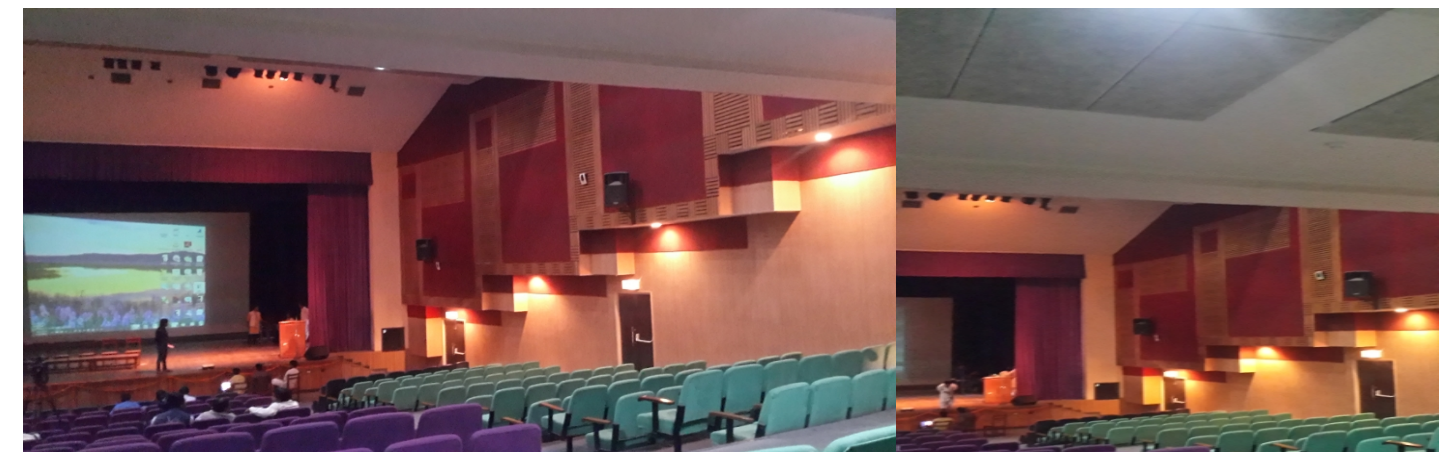
4. **ECHOMUTE** being a GREEN PRODUCT can help a building achieve LEED/Carbon credits.

5. **ECHOMUTE** can be cut to any size by manual operation or by carpentars power saw and is easy to machine, screw, nail and staple. The same can be suspended in aluminium or light weight metal ceiling frame work. For dry walls rawl plugs can be used. The panels can be covered with acoustic fabric to further increase



acoustic properties and aesthetics. For high productivity in wall cladding, **ECHOMUTE** Woodwool Acoustic Panel can be installed in H-splines or can be screwed on G.I. framework.

6. **ECHOMUTE** can be spray painted/primered/fabric wrapped to suit the aesthetics of hall without affecting its acoustical properties.
7. **ECHOMUTE** can also be offered as sandwich/ composite board with a insitu layer of





polystyrene, polyurethane and micron.

APPLICATIONS:

ACOUSTIC

ECHOMUTE Woodwool Acoustic Panel can be used in

- Auditoriums
- Class room, Library and Institute
- Recording Studios
- Gym and Swimming Pool
- Broadcasting studios
- Sound Barrier Wall
- Multiplexes and Theatres

New Launch

ECHOMUTE[®] MICRO CEILING TILES

Echomute Micro Ceiling Tiles are made using specifically processed and calibrated micro wood fibers with Inorganic mineral binders so as to make Acoustic Tiles, which can be used for aesthetic purpose alongwith its inherent properties of sound absorption and isolation. These tiles are available in two variants :

- a) Black Mat micro fiber tiles.
- b) White Mat micro fiber tiles.

Density : 600 kg/cumt.

Dimension : 600x600x15mm

The Black Micro Ceiling tiles are widely used in Cinema halls & Multiplexes due to its light absorption property. The white Micro Ceiling tiles are used in Libraries, Offices, IT, BPO's so as to enhance the hearing experience of users simultaneously



increasing the aesthetics.

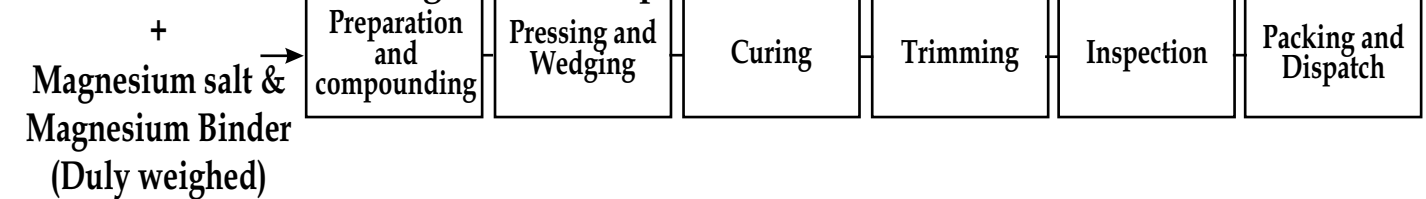
- Board room, Conference room, Call centers
- Restaurants
- Airport, Metro Station, Railway Station and Bus terminals

NON-ACOUSTIC

- Building Boards for permanent shuttering for concrete insulation.
- Partition Board for Thermal insulation.
- Building Board for Prefab Walls for use in low cost and affordable houses.

PLANT SPECIFICATIONS

- In house woodwool manufacturing on German machinery for consistent quality and 24x7 supply.
- Automatic mixture machine, dipping tanks for proper treatment of woodwool in magnesium salt mixture.
- 6 way hydraulic press for uniform compression.
- Woodwool saw trimming machine for parallel faces.



PRODUCT SPECIFICATION:

- (1) Dimension and Tolerance - In accordance with IS 3308-1981
- (2) Acoustic Insulation

ECHOMUTE Woodwool Acoustic Panel is highly resistant to sound transmission & hence helps in unwanted noise reductions. Its fibrous structure helps to absorb noises and echoes. It enhances personal comfort.

SOUND ABSORPTION COEFFICIENT (NRC): **0.69 NRC at 500 Hz.**

: 0.98 as Composite system

