



# ECCOFOAM

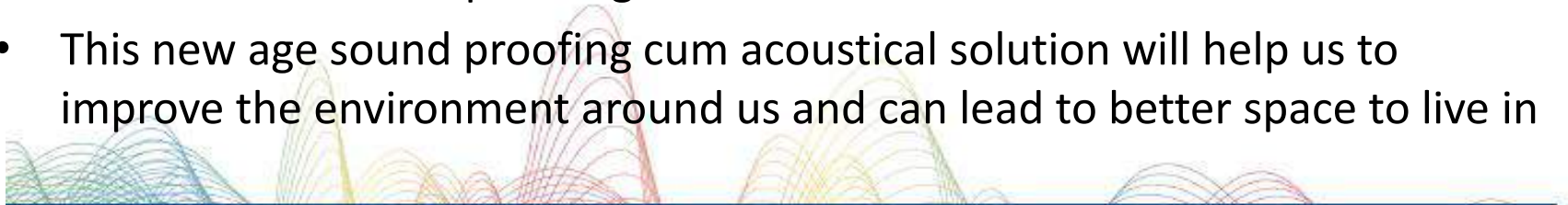
( A Sound Absorbing Polyethylene Foam )

**ECCO BOARD**  
ACOUSTIC PANELS

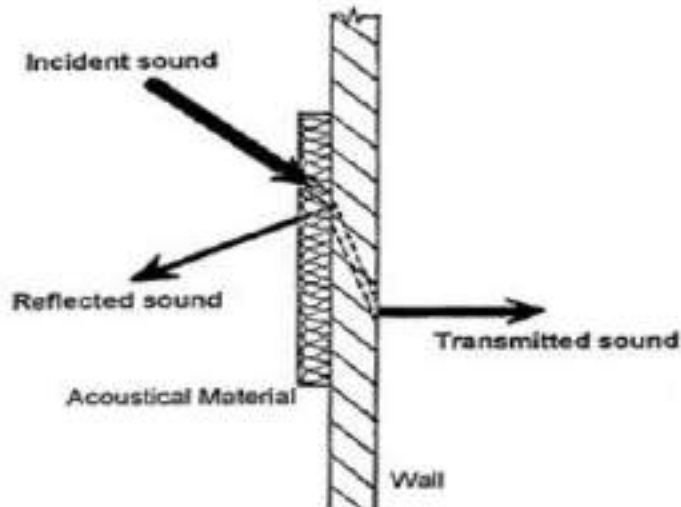
[www.eccoboardindia.com](http://www.eccoboardindia.com)

# Eccofoam

- It has been noticed that people are getting annoyance day by day by prolong exposure to the growing noise pollution . It has been estimated that around 22% of the Population (or close to 80 million people) suffers from intense noise levels which gradually causes intense health issues with prolonged exposure .
- An additional 170 million citizens are living in so-called "grey areas" where the noise levels are 55-65 dB(A), such to cause serious annoyance during the daytime.
- We are proud to introduce a new age technological solution for the se seriously prevailing noise pollution as ECCOBORD 's ECCOFOAM (Polyethylene Foam) which not only provided acoustical properties but also acts as a sound proofing barrier to an extent .
- This new age sound proofing cum acoustical solution will help us to improve the environment around us and can lead to better space to live in

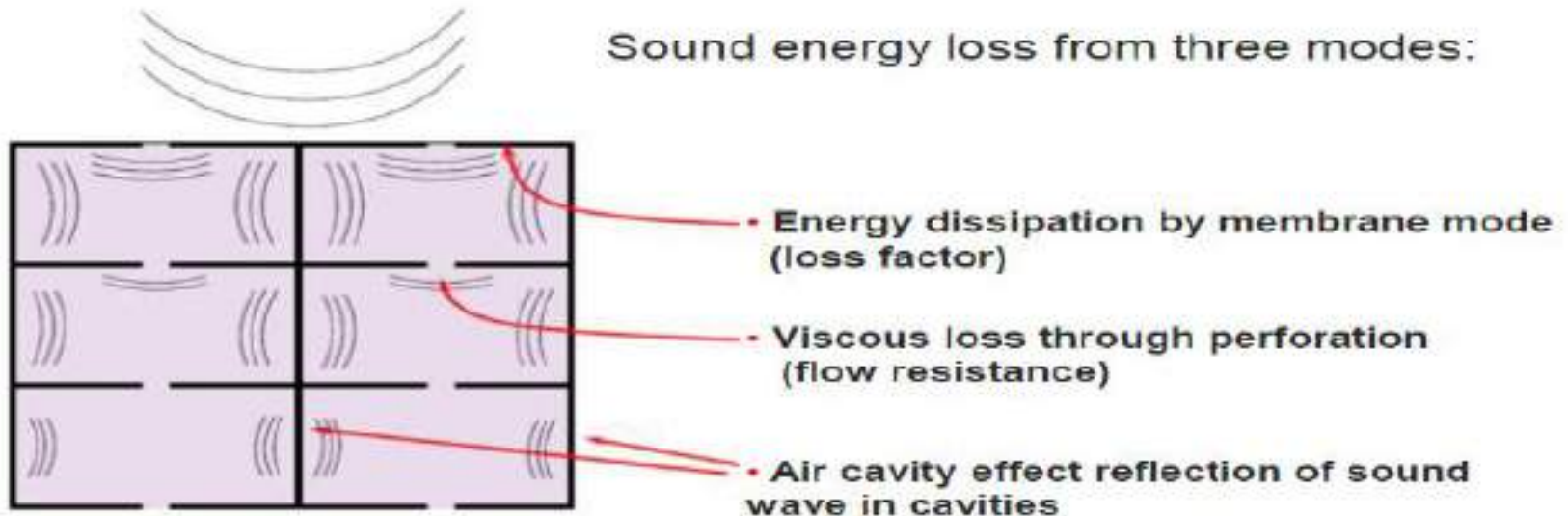


# Phenomena Of Sound Transmission



- Basically the natural phenomena of sound travel is that the sound waves travel in all the directions the 6 directions incident to the sources .
- For the same reason , we have providing and acoustical cum sound proofing solution to an extent which will make our surroundings a better place to live in .

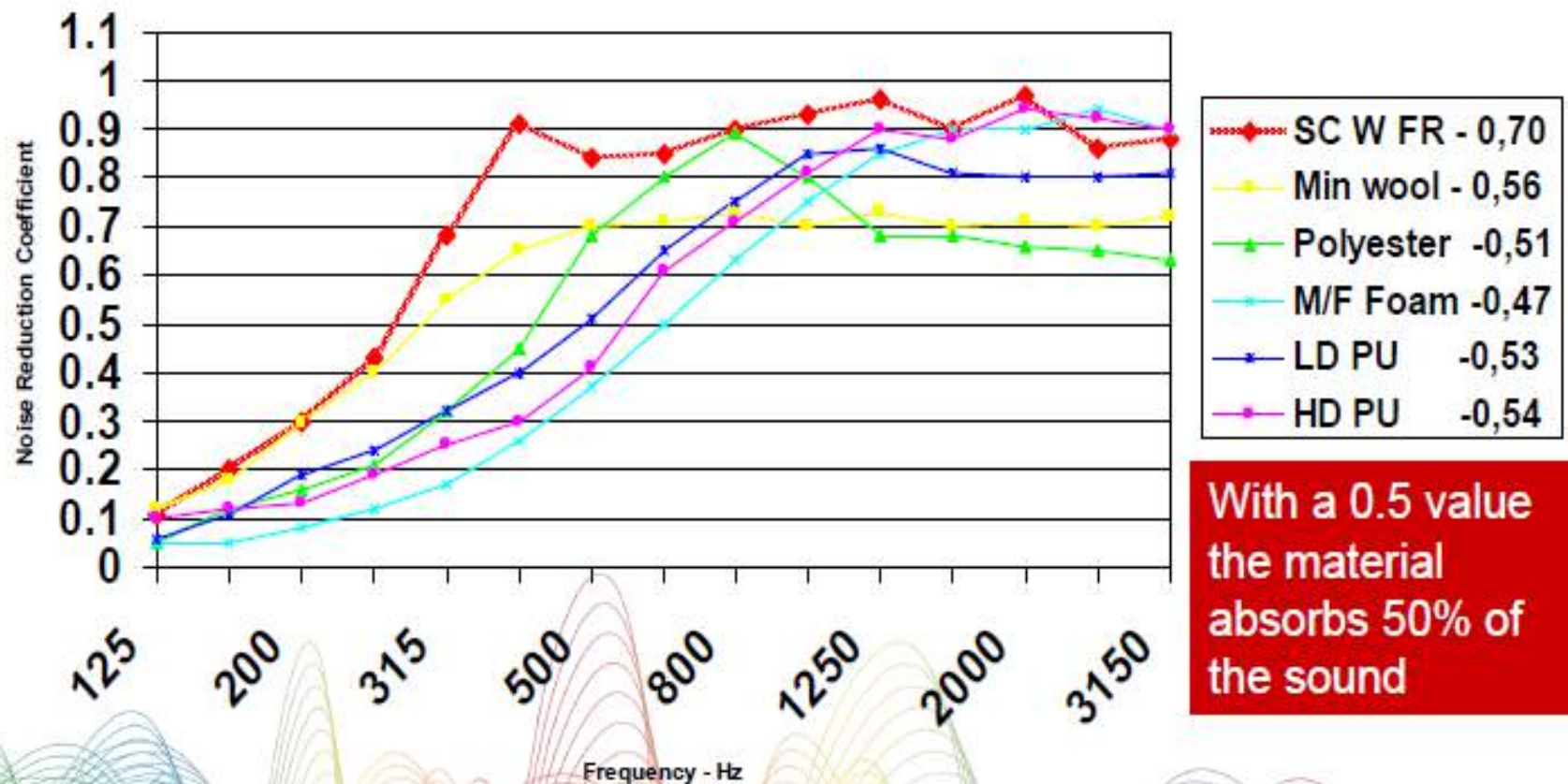
Sound energy loss from three modes:



# Sound Absorption Coefficient from Impedance Tube tests

## Tube tests

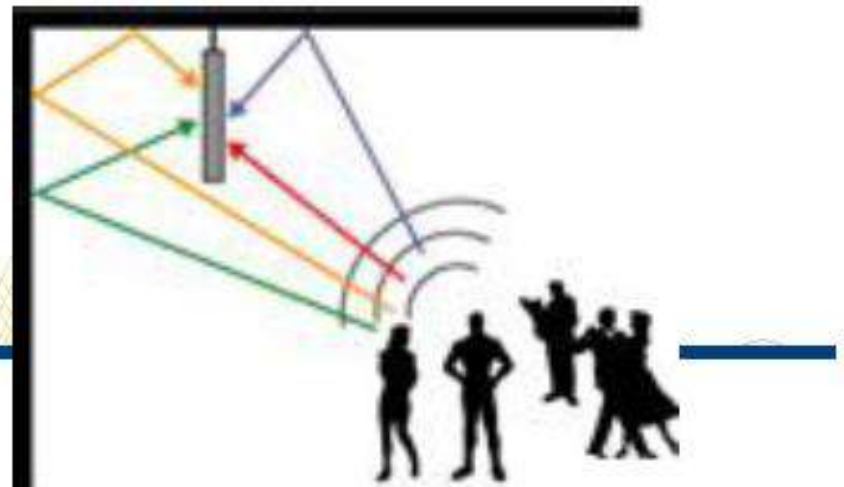
Sound Absorption Coefficient from Impedance Tube tests for 40mm Materials. Plus the average absorption value for frequencies from 125-3150 Hz according to ISO 0354-2.



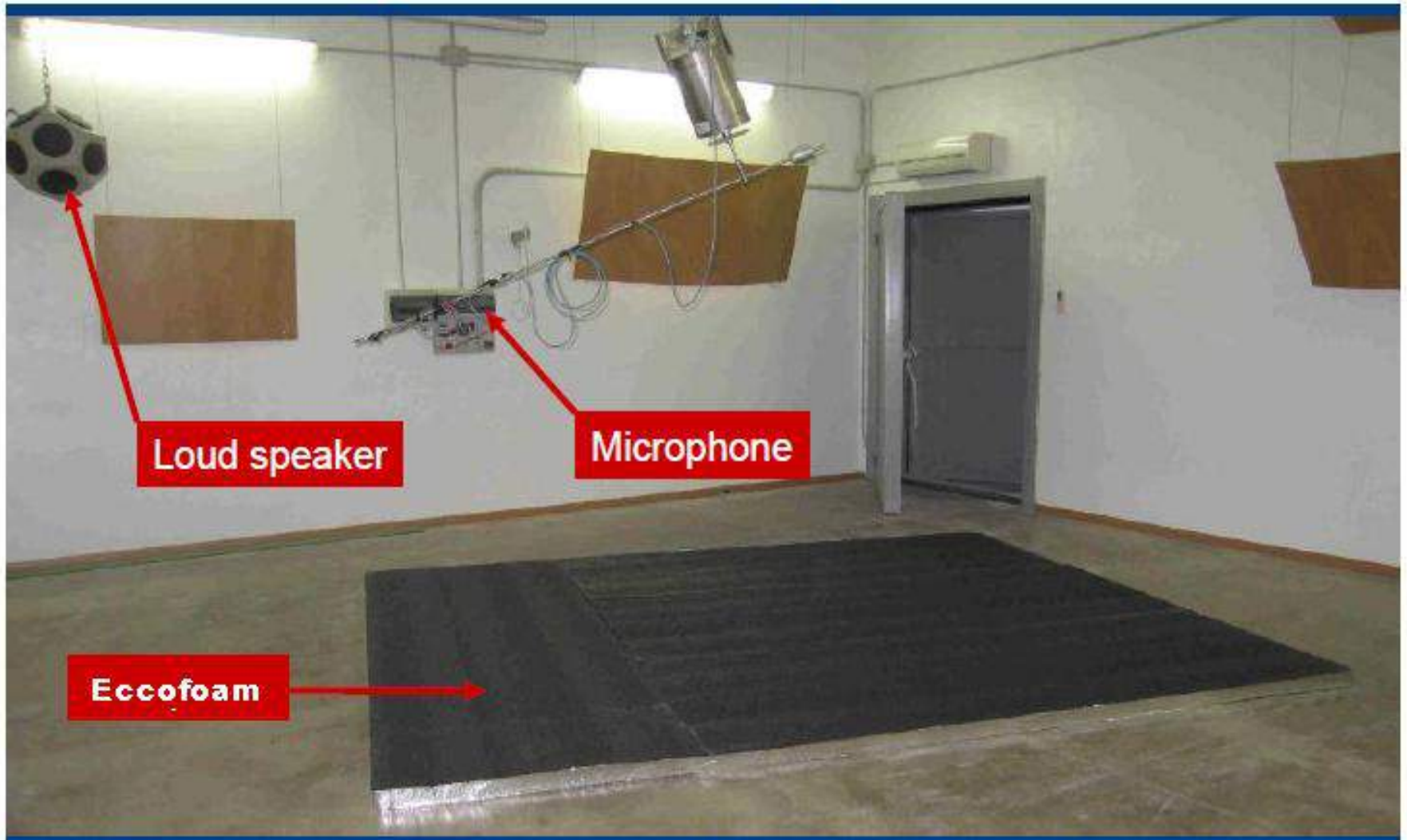
# Reverberation – what is it ?

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- Reverberation: The prolongation of the sound in the room caused by continued multiple reflections.
- Reverberation time: time taken to reduce the original sound source 60 dB
- Highly reflective walls will reflect and reverberate sound
- Absorptive panels can help to reduce reverberation and echo within a room
- The absorption coefficient curve is always higher in a reverberation room test vs the impedance tube test.



# Reverberation room acoustic testings according to ISO 354



# Eccofoam – Water Resistant

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- Water resistant – provides unaltered and sustained performance in wet or humid conditions (but do not immerse fully in water)
- Tested according to EN 12088 – Water Pick up by diffusion. Tested at RH > 95% for 28 days. (result < 4% in volume)
- **No need for a water protection film**



# Eccofoam – Main features & benefits

**ALL the below features are important to use to find the real value are as below:**

- Material source reduction. Can use lower thickness with Whisper
- No need for a “water shield”
- Easier fabrication
- Easier fastening ( double sided tape etc)
- Low weight means light weight on structure and foundation
- Fibre free
- Excellent acoustic properties
- Fire Reaction. Meets all required Fire Norms
- Self Standing/Structurally Independent
- Low emissions. Highest Class A+ according to EN-ISO 16000-9
- Recyclable



# Other Products in the market

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Melamine resin foam



**NOT WATER RESISTANT!!!**



Polyurethane  
foams

**NOT WATER  
RESISTANT!!!**

# Other Products in the market

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Mineral Wools

**NOT WATER RESISTANT!!!**

Rockwool, ceramic, glass fibre

**NOT WATER RESISTANT!!!**



# Eccofoam – Product Specifications

- **ECCOFOAM is an ITALIAN Form with acoustical properties made of closed cell laminated Polyethylene polymer foam 50 mm thick providing a perfect NRC value of 1 which is light weighted , fiber free and strongly Bonded structured material, Size 2440 Mm X 1220 Mm Can Be Cut In To Any Sizes For . Material provides excellent wash ability and is UV Resistant at the same time .The Material is Class A fire rated which does not supports mold growth and is highly Hydrofobic / Moisture resistant in Nature . It has an extreme structural strength with strongly bonded polymer which can withstand any impact and regain its normal shape that can with stand for a long time .**



# **ECCOFOAM** - Applications

## **Leisure Industry**



**Shooting Range**  
**Advantage: Sound Absorption**



**Swimming Pool**  
**Advantage: Resistance to water/moisture**



**Sports Hall – Advantage:**  
**Resistance to ball impact**



# Baffles

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**Production plants,  
tunnels , leisure halls**

**Curved baffles**



# Car Cleaning Tunnels

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# Leisure Industry

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Canteens, Restaurants, Theatres



# Animal Shelters

**High noise level**

**Eccofoam can be used as a divider of each kennel or in ceiling or walls**





# Eccofoam – As Noise barriers



**Due to low weight Eccofoam can be easily installed using minimum labour. In fact the only cost effective solution available in the market today.**

# Retrofit existing noise barrier



**Pre mounted Eccofoam on aluminum frames makes it easy to install.**

# **Eccofoam** - As Movable / fixed walls for Generator / Fan / Heavy machinery Rooms



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