



THERMO
ACOUSTICS



INNERTM
ENGINEERING
DESIGN • COMFORT • INSULATION

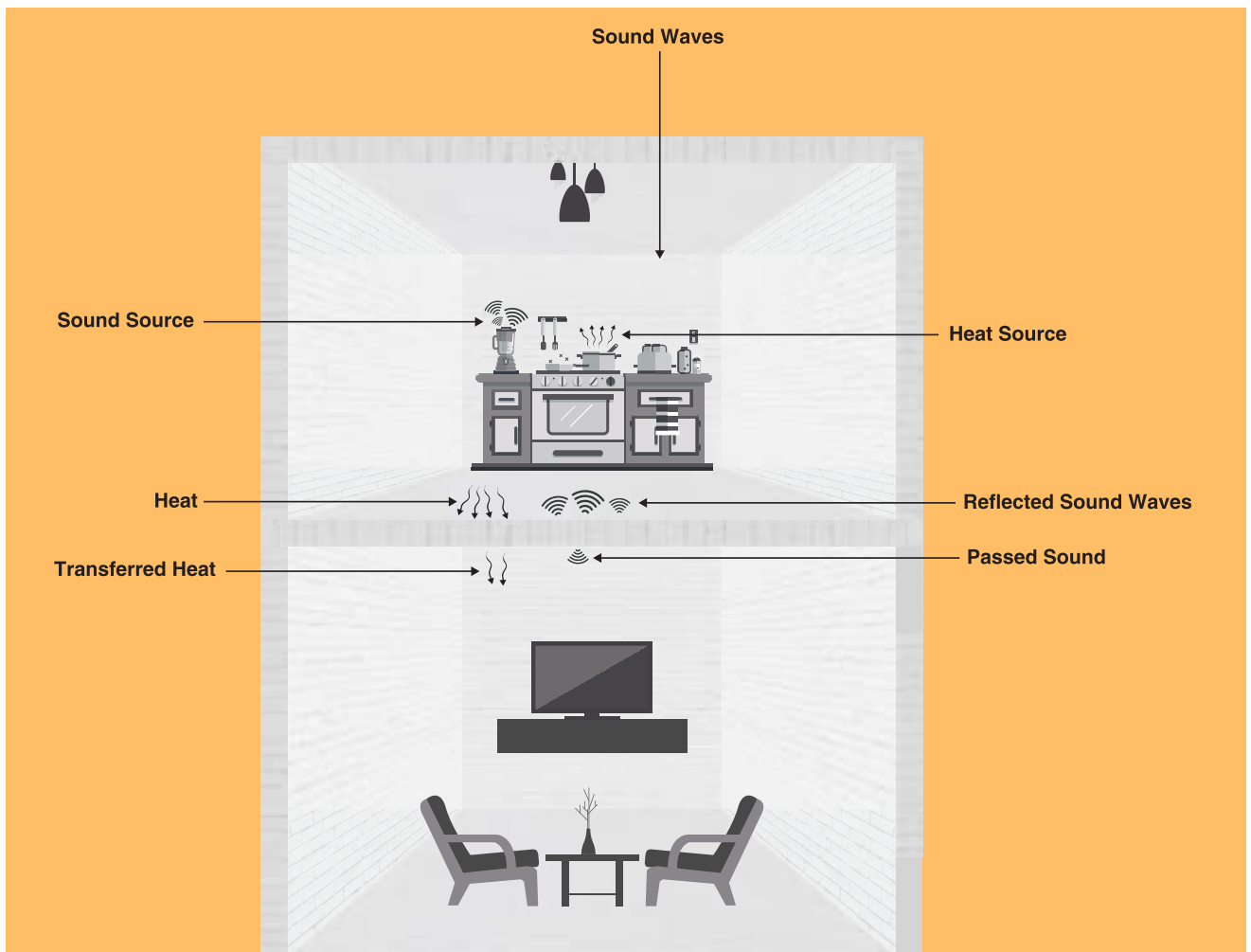
**KEEP YOUR
FLOOR
QUIET
AND
COOL**

INFLOOR SYSTEMSTM

FLOOR INSULATION

FLOOR TRANSFERS HEAT & SOUND ACROSS FLOORS

A floor is an important structural part of any building as it connects two storeys. Floors can either be floating or directly on the ground. Floors are usually made of RCC and lined with tiles, marbles, wood, etc. RCC is a good conductor of heat so temperature transfers easily between two storeys. It also lets the noise and acoustic vibrations created by walking, dancing or running pass through.



HIGH ENERGY BILLS & DISTURBANCE

This transfer of temperature can lead to hefty energy bills for the occupants. The acoustic vibrations can cause disturbance for the occupants of the storey below. Additionally, if the floor is directly connected to the ground, the temperature loss can be tremendous. Also, if a banquet or a discotheque is on a higher storey than other parts of the building, the acoustic vibrations can spread throughout the building.

- Floors are made of RCC which is a good conductor of heat and sound
- So heat and noise transfer easily across floors
- This causes disturbance and higher energy bills for the occupants

INFLOOR SYSTEM TO YOUR RESCUE

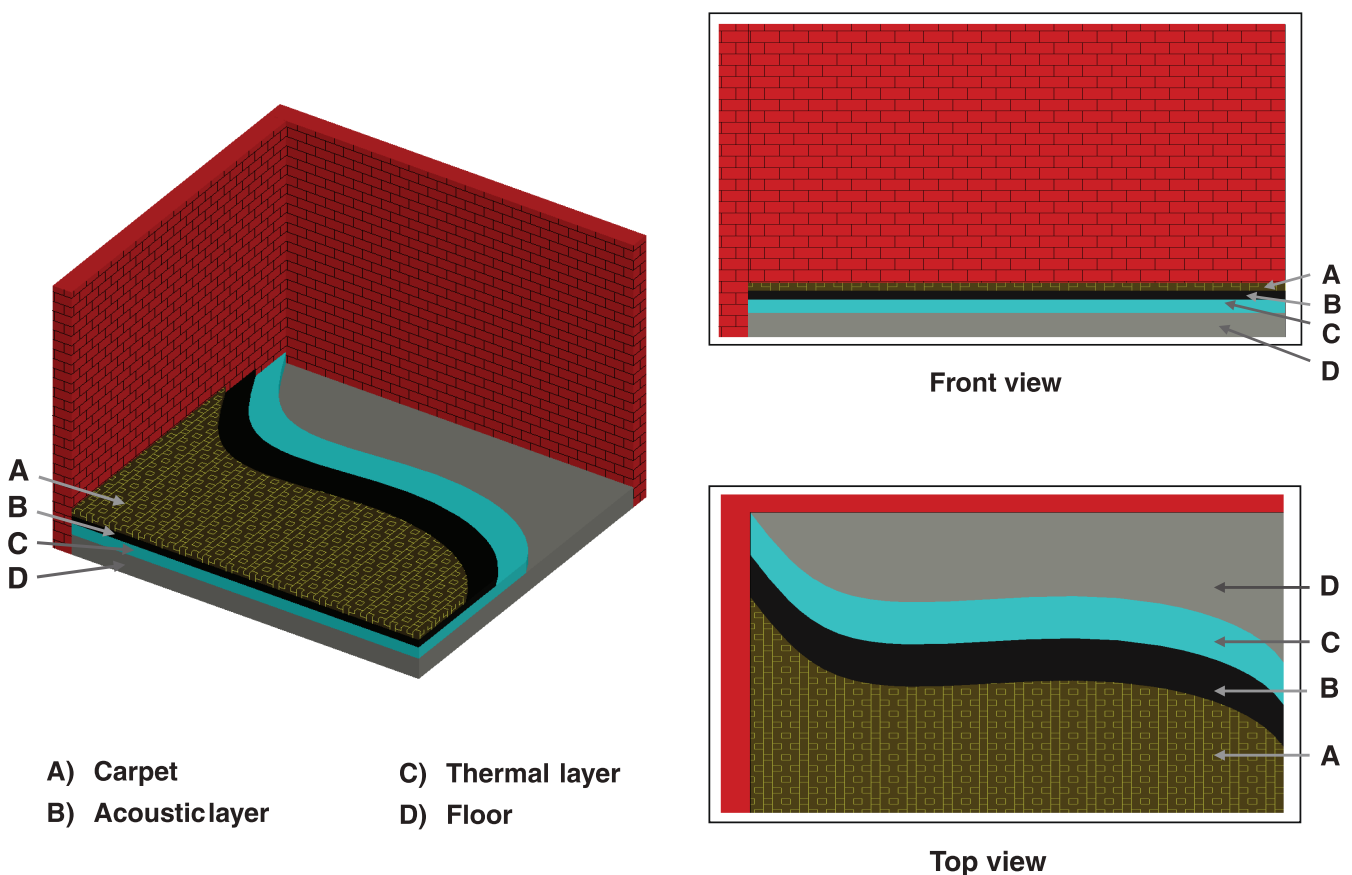
The aforementioned problems can be avoided by insulating the floor for thermal as well as acoustic insulation, which benefit the occupants in multiple ways.

Benefits of Thermo Acoustic Insulation

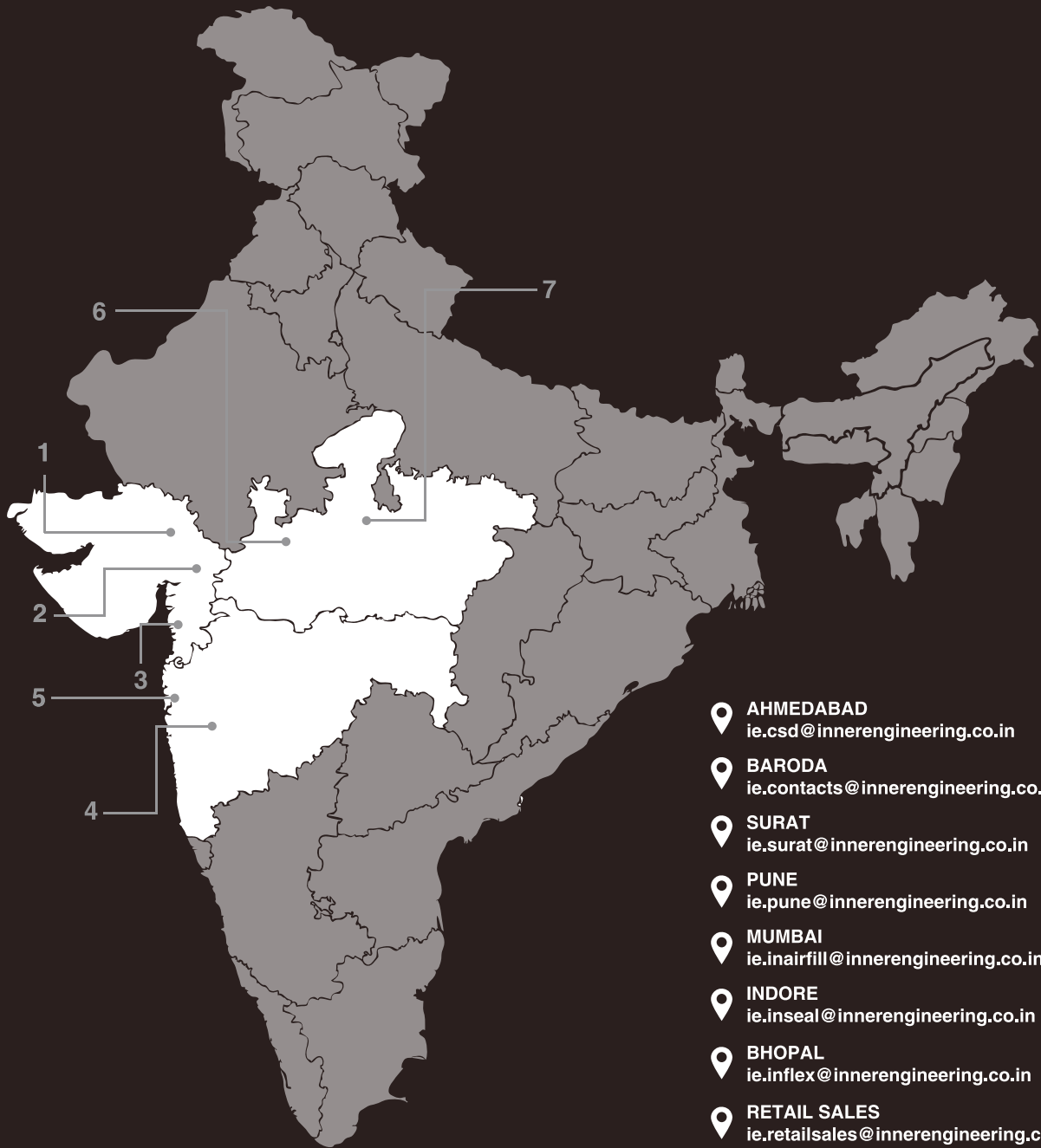
InFloor helps in avoiding thermal breach through the floor. Hence the thermal transference to the ground or the storey below can be limited. This helps in maintaining a comfortable ambient temperature in the room or space. It also helps reduce energy bills. Acoustically, it can seal or limit acoustic pockets created by the floor. It also limits the vibrations created by the tapping of heels and the thumping of feet, and hence gives a peaceful experience to the occupants below.

Designing The Insulation

This system works in protecting the building from thermal and acoustic ingress as well as battles against moisture and condensation. The material selection in this system is done for thermo-acoustic insulation. The suggested layer thickness can vary from 40 mm to 100 mm. An isolation layer is suggested in this system for optimal results.



- InFloor Systems can prevent thermal and acoustic transfer across floors
 - It also helps reduce the energy bills
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