



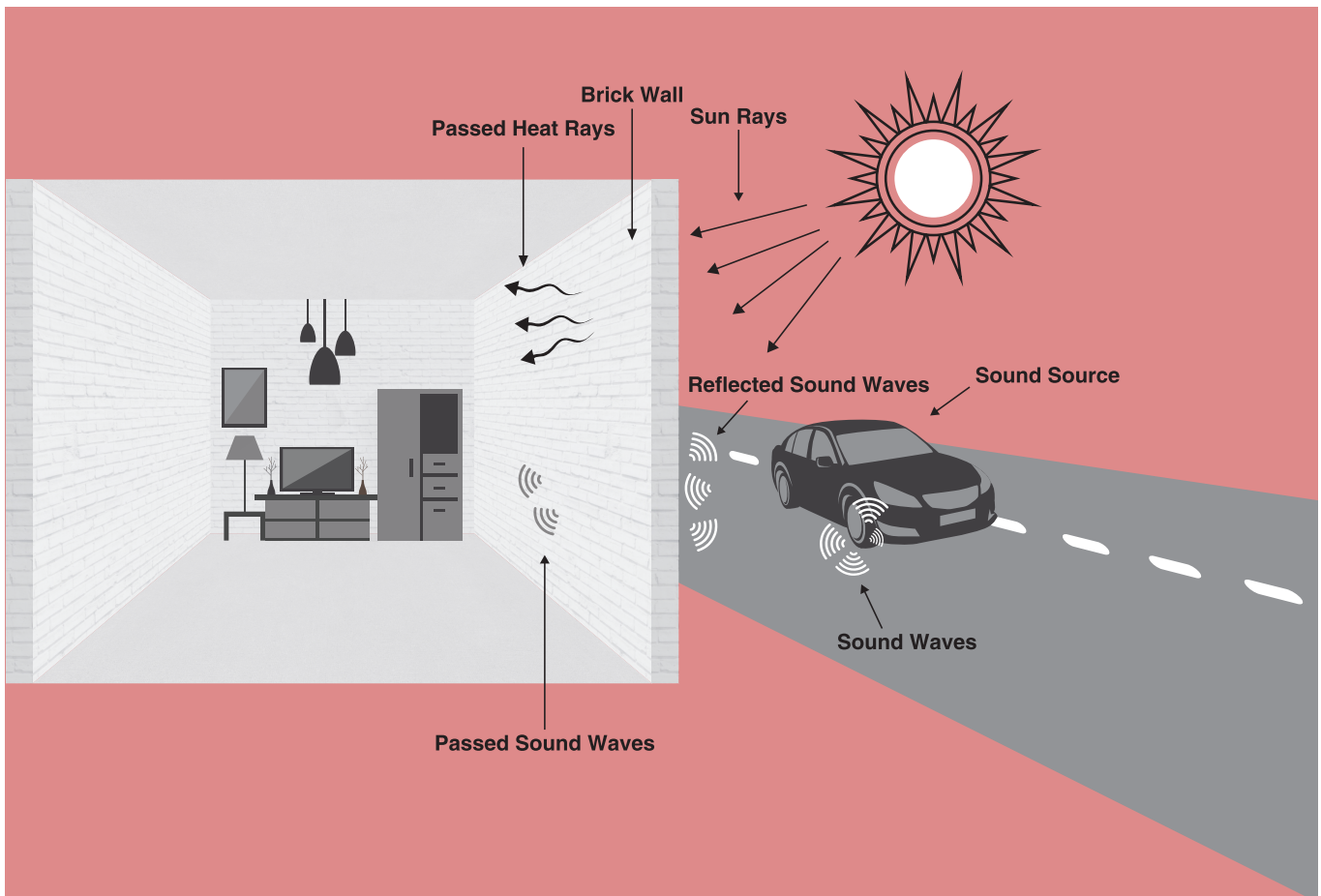
**WHERE
SILENCE
IS
COMFORT**

INBRICK SYSTEMS®
INSIDE WALL INSULATION



RCC AND BRICK TRANSFER HEAT

Walls of a building are usually made of brick or Reinforced Cement Concrete (RCC). RCC has a higher thermal conductivity compared to brick. Such walls absorb heat during the day and retain it. They release the same into the building when the outside temperature drops. Hence heat can be easily transferred from outside to inside when atmospheric temperature is high. Taking this into consideration, the energy required to maintain the internal temperature is more.



RCC AND BRICK REFLECT SOUND

Brick and RCC walls are also good reflectors of sound. Reflection of sound creates echo or reverberation. When the distance between source of sound and reflected surface is short, then time delay between original sound and repeated sound is very small, like millisecond or microsecond. Here repeated sound is added to the original sound because original sound is still in memory. Because of this, repeated sound is heard as echo, since time delay between original sound and repeated sound is more.

Sound absorption by the walls is less as they partially reflect sound. But even these partial reflections cause reverberation. A closed room reduces original sound level by 60 db. But it is very important to maintain the desired reverberation according to the application. If the reverberation time is more for the room then repeated sound remains

- **Conventional walls transfer heat and reflect sound**
- **It heats up the room and also causes echo**

INBRICK KEEPS YOU COMFORTABLE**INSIDE WALL INSULATION**

To create and maintain thermal and acoustic comfort, interior walls insulation is recommended. In this case, we can choose a material which can provide thermal comfort by preventing heat loss and acoustic comfort through sound absorption. This kind of dual insulation application in a building can also be termed as Thermo–Acoustic Insulation.

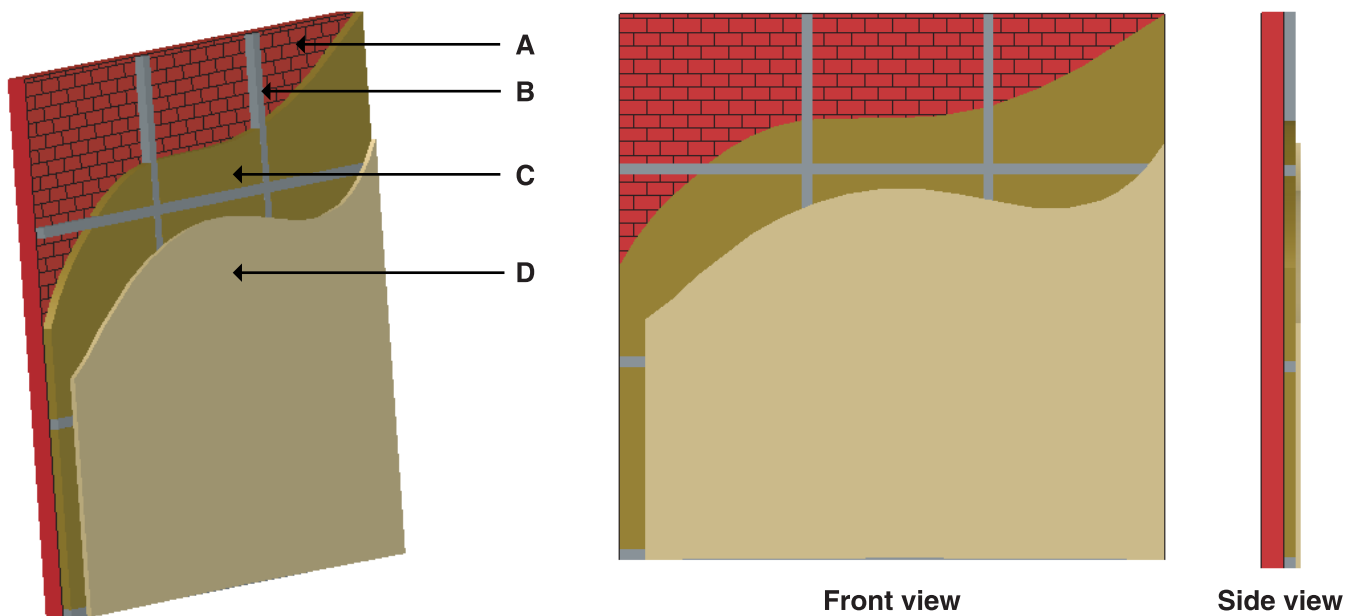
INBRICK system is the application of insulation on the inner side of the wall. This can be directly applied in the grid work. The finishing material can be applied on the grid for good aesthetics. Perforated or flat finishing material such as plywood or gypsum can be used for optimal acoustic performance. This system is designed according to the priorities for insulation from the inside.

The suggested thickness varies from 50 mm to 75 mm depending on the end requirement and consists of two layers both of which facilitate thermo–acoustic insulation. Isolation layer in the design further enhances the performance. The final layer of insulation in the system can be designed as per user requirement. If the priority is acoustic comfort, the acoustic insulation layer is placed next to the finishing; for example, a home theatre. Similarly, if thermal comfort is the priority, the thermal insulation layer is placed next to the finishing; for example, an office cabin.

The design aspect consists of complete evaluation of the surroundings before suggesting the combination and nature of materials that will consist the system.

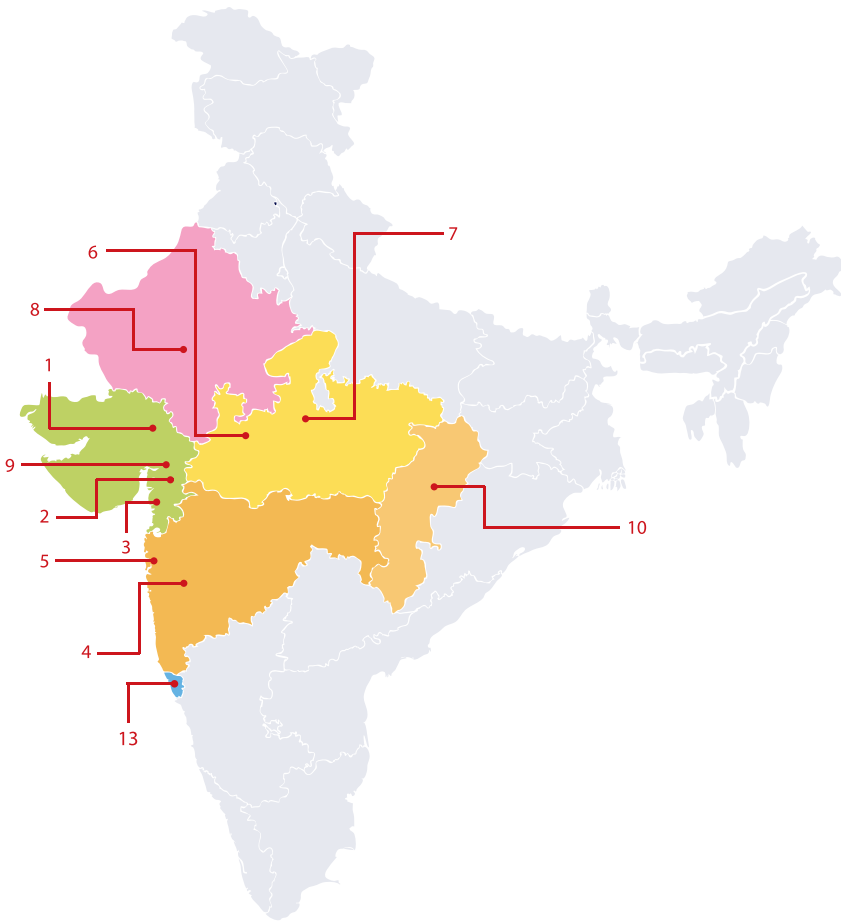
Ideal For

Libraries, Home Theatres, Radio Stations (recording rooms / console rooms), Banquets, etc.



A) Brick wall B) Wooden / Aluminium grid C) Insulation material D) Ply / Gypsum board

- InBrick systems significantly reduce heat transfer and sound reflection.
 - This helps keep room naturally cosy and prevents echo
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