



ACOUSTIC

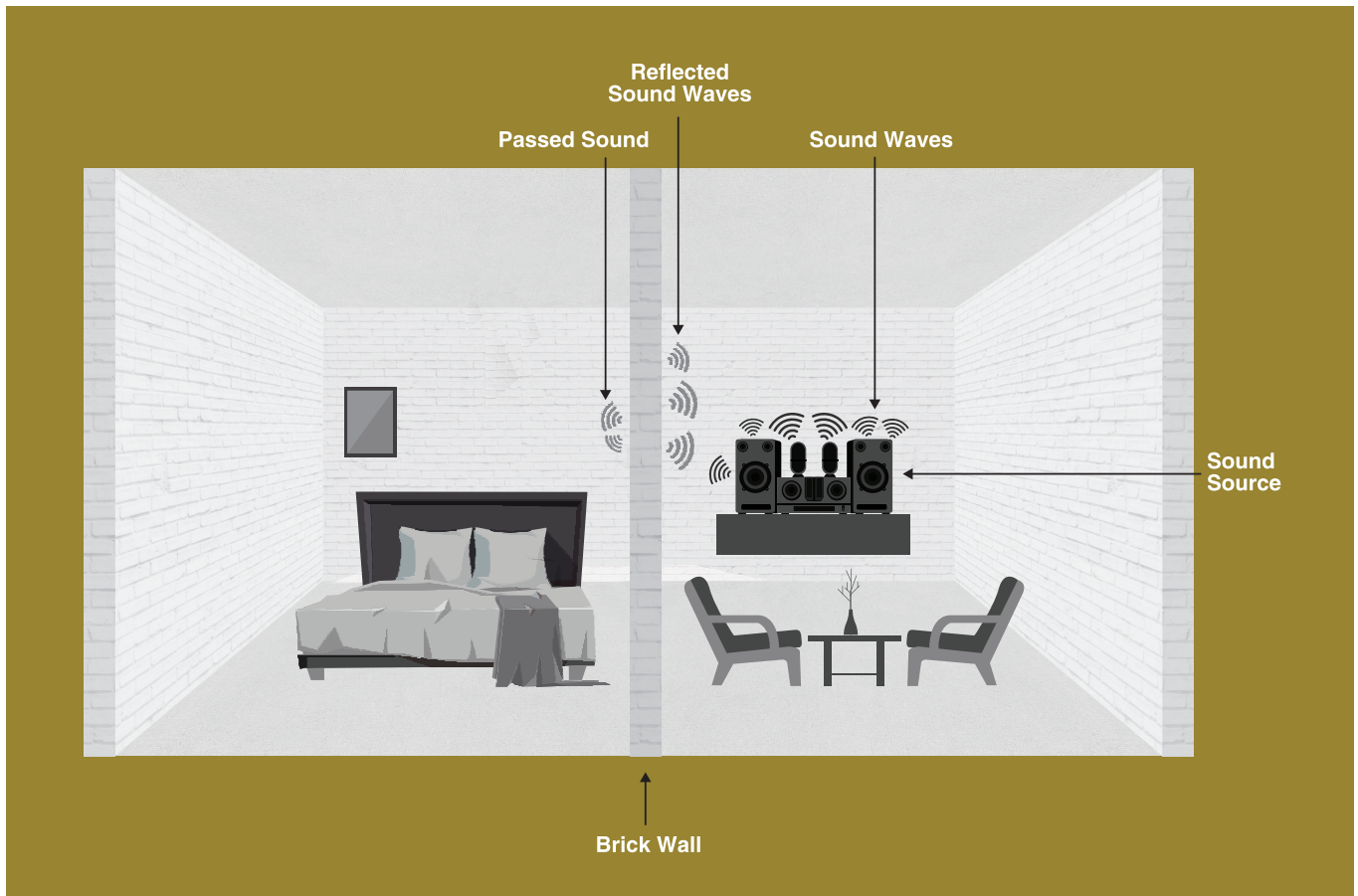
**WHERE**  
**SILENCE**  
**RULES**

**INBREAK SYSTEMS**<sup>®</sup>

PARTITION ISOLATION INSULATION

## PARTITIONS ARE OF MANY TYPES

Partition within a building or a room can be created by wooden ply, gypsum board, metal sheet, glass and even brick walls. Such partitions are usually created for acoustic or visual privacy.



## PARTITIONS NEED A FRAMEWORK

These partitions are generally made on a framework. If it is a wooden partition, there is a wooden frame in the form of a grid on which plywood boards are mounted from both sides. Same is the case with a metallic partition while a solid brick wall is used for brick partition. All these materials are completely closed cell which means they either completely reflect sound or let it completely pass through based on their construction.

## STC FOR DECIBEL REDUCTION

The Sound Transmission Class (STC) is an integral part of how well a building partition reduces airborne sound. The STC defines the decibel reduction in noise that a partition can provide. Acoustic privacy is mandatory for a partition. For that, isolation is more vital than absorption. It is necessary to isolate the various frequencies of noise generated, and not let them transfer outside the partitioned space.

- Partitions can be made of wooden ply, gypsum board, metal sheet, glass or brick
- All partitions need their respective frameworks
- STC provides the measure of decibel reduction that a partition can provide

### INBREAK BREAKS THE SOUND

Nowadays, insulation levels are specified in building norms for separating walls in commercial & residential properties, schools and hospitals. To meet those partition norms, separating walls should be properly designed and constructed. It should minimize flanking sound transmission through the building elements that adjoin the separating wall. In such cases, insulation with high STC becomes the key requirement factor to isolate the sound from one room to another.

### InBreak Has High STC

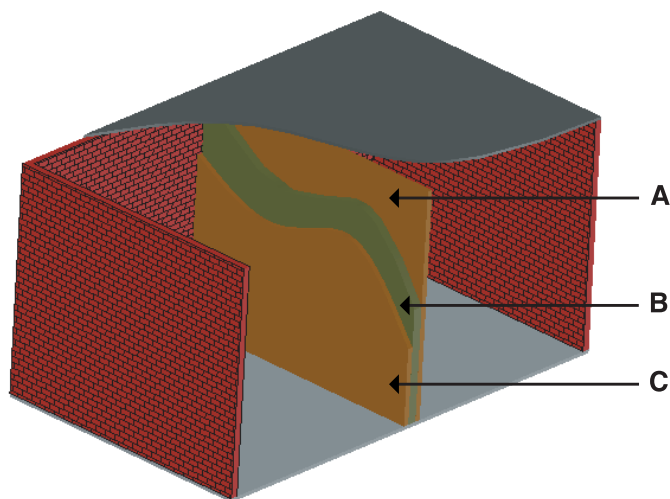
Acoustic insulation material should be used between these partition layers in such cases. They should have high STC, which helps in dampening or completely isolating the sound at source. Since the basic purpose of partition is to give privacy to the occupants, it is wise to use acoustic insulation materials which completely isolate the sound in that particular space.

### InBreak is Designed Acoustic Barrier

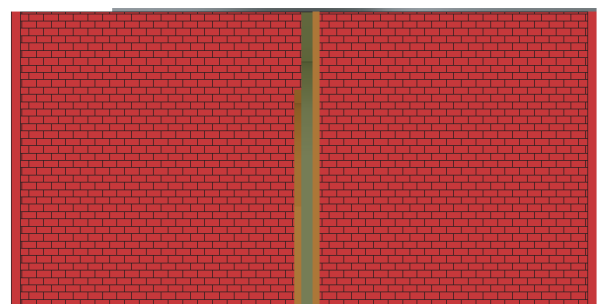
This system has been specifically designed for this purpose. Insulation material is filled in the grid work of the partition to create that acoustic barrier. The basic purpose of this material is to isolate sound and limit it to its respective space or area. If there is a need to reduce the echo and reverberation as well, a combination of materials can be used. For instance, the exterior facing material can be a sound absorbing material and the inner facing material can be lined with an acoustic barrier. The suggested thickness of this system is from 25 mm to 50 mm, depending on the materials used and the result expected.

### Ideal For

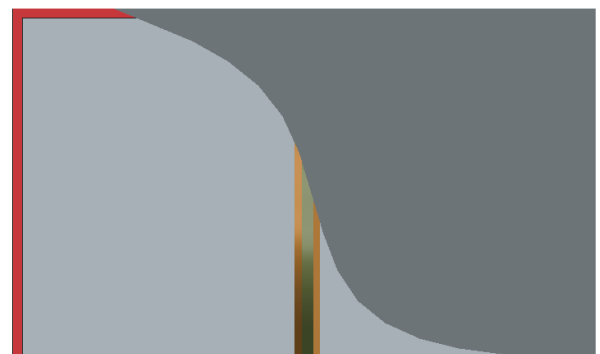
Conference Rooms, Top-Secret Research in Labs, etc.



- A) Ply board / Gypsum
- B) Insulation
- C) Ply board

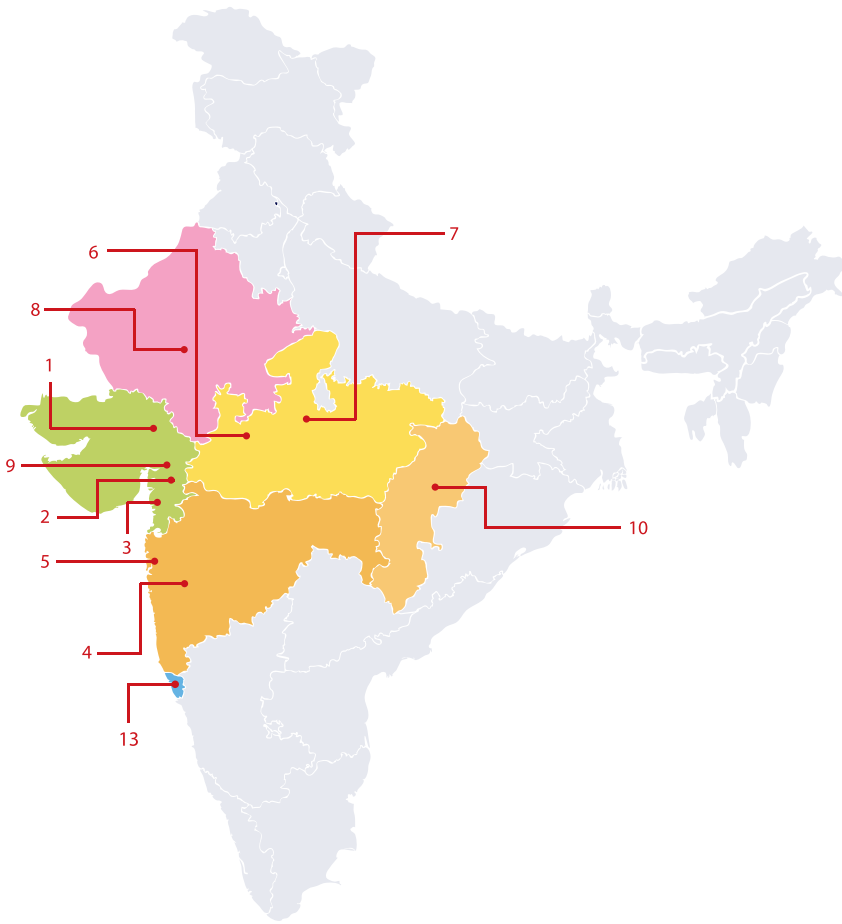


Front view



Top view

- InBreak Systems form an ideal insulation for partitions
- It can be additionally customized for echo reduction



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