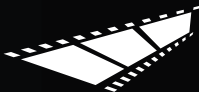


# Baffle Install

**“The difference between a professional install and the rest”**



Picture of a common conventional home theater setup showing the left, centre & right speakers with a different centre speaker model placed lower and is in a different orientation.

  
**AUDISEE**  
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A common reaction from Movie Enthusiasts while watching a movie in their home theater is, “Why don’t I get the same perception of sound like in the movie theater despite having an expensive setup?”

The answer is no matter how good your equipment is, the setup pattern in most home theaters out there is conventional. When we say conventional we are referring to the regular old style pattern of installing left and right floor standing speakers along with a horizontally oriented speaker in the Centre (called the center channel speaker). Though the speaker manufacturers claim that the center speaker is made of the exact same material as the left and right speakers, the fact remains that it is horizontally oriented and is placed much below the level of the left and right speakers in most installation.

## Studios the birth place of Movie Tracks

To understand why speaker installation makes a world of a difference to your home theater, we need to go back and see how movies are created. In any professional studio where the Sound Engineers create and mix sound they use three of the same speakers at the same level and orientation to listen to and judge their content. However, when we watch movies in a conventional home theater our speaker installation is compromised, due to practical difficulties in placing the centre speaker appropriately and lack of technical expertise which results in poor sound reproduction even with high-end equipment.

To recreate what the Directors & Sound Engineers intended for you to enjoy, your home theater should replicate the studios where the content was created.

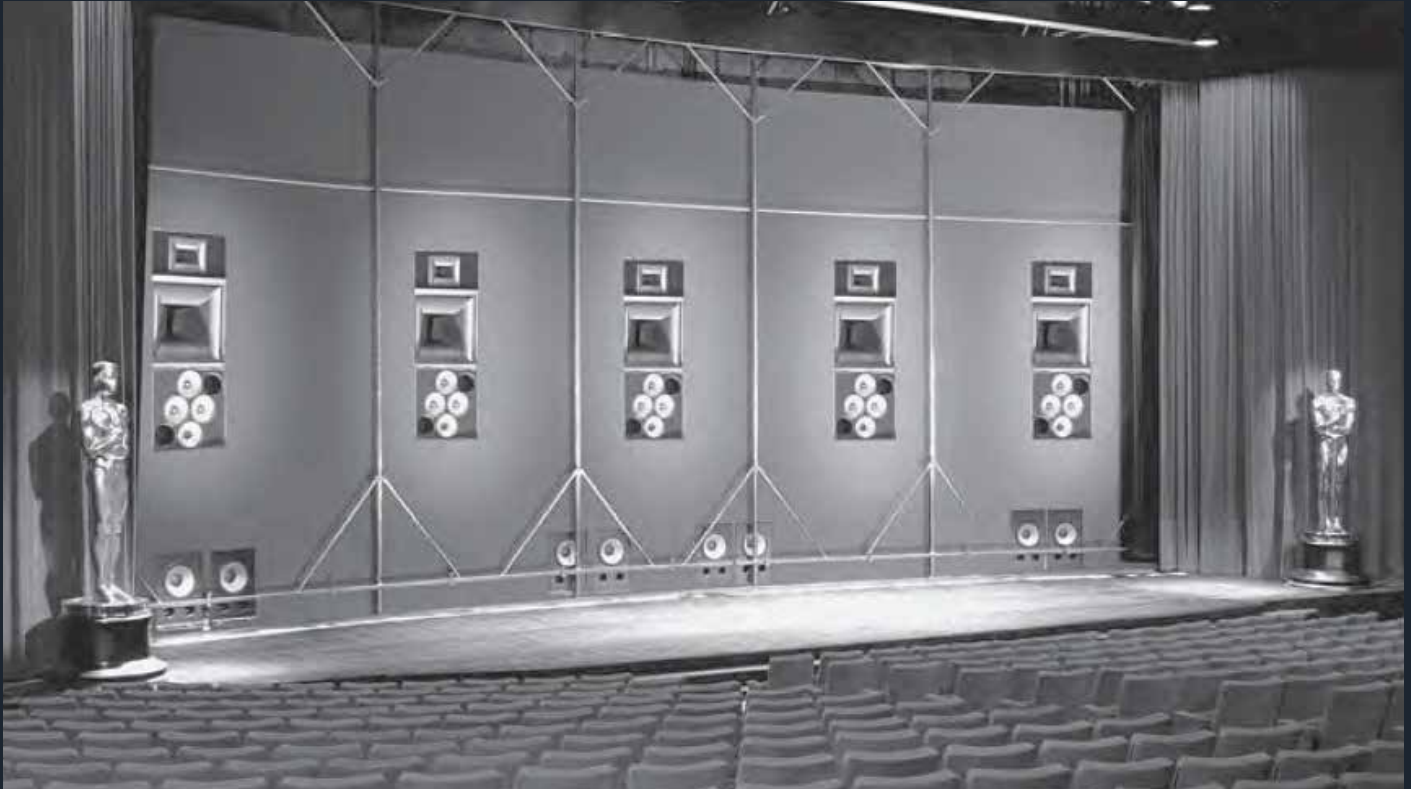


Pictures of professional recording studios showing that the left, centre & right speakers are of the same make and model, also note that they are in the same orientation and level.



# Commercial Cinema Theaters where movies comes to life

The cinema hall is where the movies come to life. All the effort that goes into making the movie is paid off when the audience gets really excited and appreciates it; the cinemas are designed to convey to the audience what the Director intended for them to experience. The most important aspect of a movie is the dialogue and most of the dialogue comes from the center speaker. All movie theaters to replicate what the Director and Sound Engineers intended for the audience to enjoy have a speaker pattern similar to that of the recording studio with the same speakers installed at the same level and orientation in the front.



The Samuel Goldwyn Theater in the Academy of Motion Picture Arts and Sciences, Hollywood, California, with the screen down and showing the five front channels and subwoofers.

## Bring home the cinemas

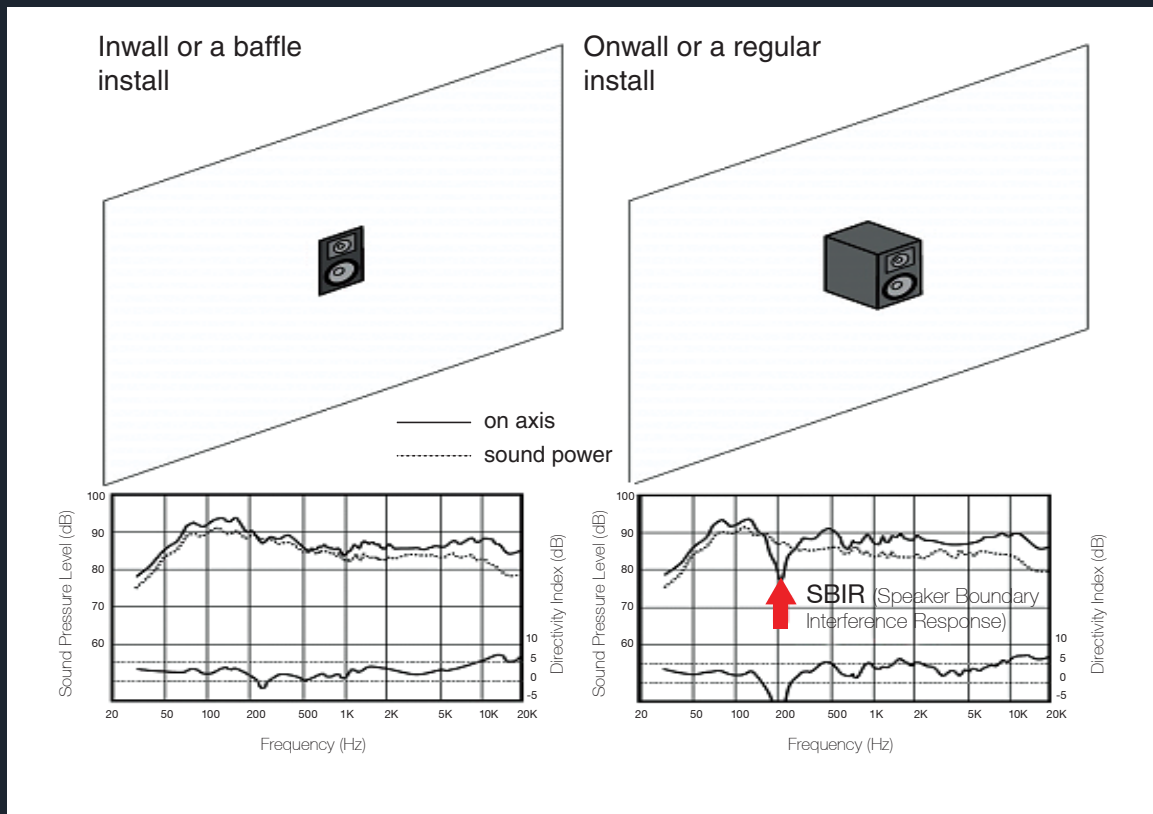
At Audisee we have the expertise and the skill required to reproduce the cinema experience at home. We specialize in an advanced installation technique called the Baffle Mount Install. A Baffle Mount allows the installer to use three of the same speakers in the front of a home theater, which replicates the studio and movie theater speaker pattern and unlike an in-wall installation it will have good mid bass response as the Baffle will house high quality bookshelf speakers. The design of the Baffle itself takes care of sonic artifacts that occur in other installations and it brings life to the viewing experience with clean and crisp dialogues right from the middle of the screen creating a realistic effect.

### Advantages in a Baffle Mount Installation

- Movie theater like feel
- There is no shift in sound quality (Timbre) when sounds pan between the front three speakers
- Cleaner bass response and more bass headroom for free
- Eradicates SBIR (Speaker Boundary Interference Response)
- Dialogues have a ventriloquist effect (Directly from the mouth)

# SBIR (Speaker Boundary Interference Response)

Speaker Boundary Interference Response (SBIR): is one of the main reasons for bad uneven bass response from the speakers. It is the comb filtering caused by interactions between initial reflections of the low frequency sound waves and the direct sound from the speakers. To put it in simpler words SBIR is caused by path difference between direct sound and 1st reflection from each of the room surfaces, mainly from the front walls. Any conventional installation is prone to have SBIR and thus will lack in smooth mid bass.



Picture and graph showing the frequency response of a baffle install Vs a regular install. Notice the large dip(200hz) in the low frequency caused by SBIR (Speaker Boundary Interference Response) in the regular install and the smooth frequency response of the baffle install.

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