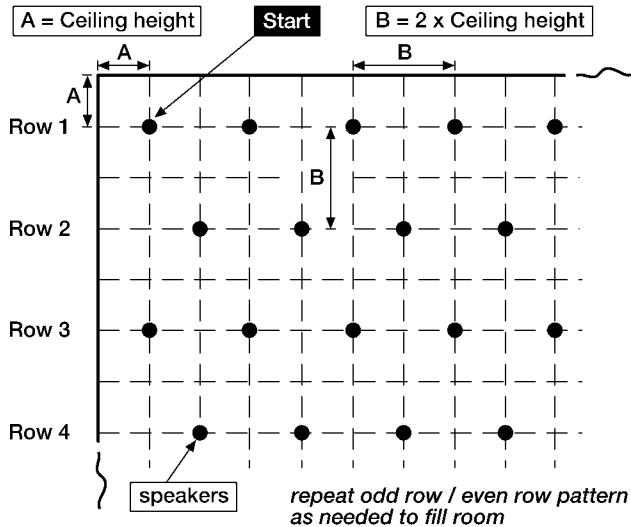


## Speaker Layout

### CEILING VIEW



The layout of the speakers should be planned before installation begins. Layout starts in one corner of the room. The first speaker should be positioned from each wall a distance approximately equal to the ceiling height of the room.

The next speaker in row 1 should be spaced a distance approximately equal to twice the height of the ceiling. Each additional speaker in the row should use this same spacing.

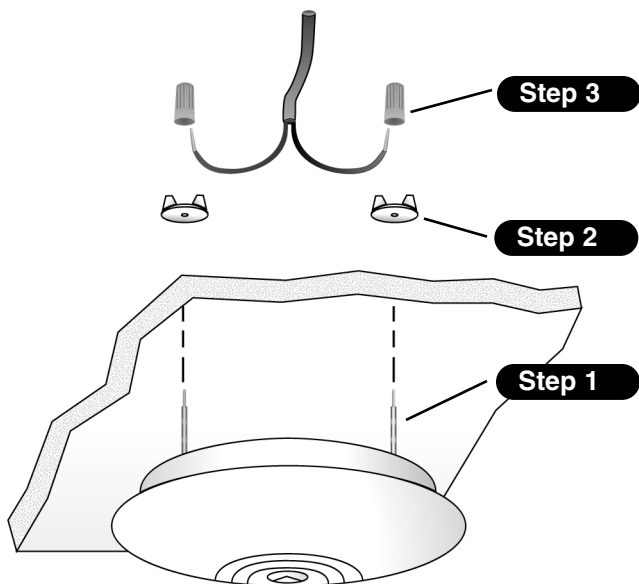
Row 2 starts at twice the ceiling height distance from row 1 and twice the ceiling height from the wall. The other speakers in this row are also spaced at twice the ceiling height.

Row 3 is again spaced at twice the ceiling height from the previous row. The first speaker starting this row is positioned at one ceiling height distance from the wall (similar to row 1).

Continue this pattern of alternating rows until the room is covered.

Because of the wide sound dispersion characteristic of the SMIEZ and SM4T, exact placement is not critical. The spacing of the speakers can be adjusted so that the speakers are evenly spaced in a row.

## Speaker Installation



**STEP 1** - Position the speaker on the ceiling tile and slowly push the speaker, forcing the studs through the ceiling tile.

*NOTE:* When using the SM4T model, set the rotary switch to the correct wattage tap for the application before mounting the speaker. Check the back of the SM4T box for the tap settings chart.

**STEP 2** - Clean any loose debris from around the studs. Spin the wide-based wing nuts (supplied) down the stud. Tighten the wing nuts until they are very snug (finger tighten only - no tools required). Check that the speaker is drawn tight to the ceiling tile. Fiberglass sleeves (supplied) should be placed over the studs at this point to insulate the exposed portion of the stud as a safety precaution.

**STEP 3** - The electrical connections are made to the studs with the wire nuts (supplied). The studs are color-coded to allow proper phasing.

Suggested amplifier connections are:

**COPPER stud - 70V HOT**  
**NICKEL stud - 70V COMMON**

Nylon wire ties (supplied) can be used to secure the speaker wires to the studs if desired. (Nylon wire ties should wrap around the fiberglass sleeve.)

The speaker will also work perfectly well with these connections reversed. However, it is important to be consistent in the wiring of the speakers in the system. If adjacent speakers have reversed wiring connections, they will tend to cancel each other's bass response, diminishing the sound quality.

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