



STC Ratings for CMU Wall Structures

CoreFoam Masonry Foam Insulation is an excellent product for improving thermal and acoustic properties of walls constructed with concrete masonry units (CMU). Installing insulation within a wall or floor/ceiling cavity will improve the STC rating by about 4-6 dB, which is clearly noticeable¹.

Foam insulation is preferred because it:

- ◆ Is much easier to install than products like sand and vermiculite.
- ◆ Won't settle over time like loose-fill insulations and sand.
- ◆ Seals around pipe and electrical penetrations which are often the main point for sound transmission. Products like sand and vermiculite flow out of these openings, leaving uninsulated voids in the wall.
- ◆ Flows throughout the wall, filling all the head joints, holes and openings which is important to ensure effective results.

For 8" CMU Walls:^{2,3}

STC

Hollow
49-50

With Insulation
53-56

For 12" CMU Walls:^{2,3}

STC

Hollow
52-53

With Insulation
56-59

¹Acoustics.com

²Ontario Concrete Block Association, "Sound Transmission Ratings"

³NCMA Tek 13-1A, "STC Ratings for Concrete Masonry Walls"