Answer on Question#55081 - Physics - Acoustics

Is it defying physics to hear a conversation through a glass front building, while outside? If there aren't any other outside noises interfering, and the building is a small cabin-like structure, where four people crowds it? If it is possible, how far would the sound wave travel?

Answer:

It doesn’t defy physics, since the acoustic waves vibrate the glass, which produce the waves outside the building. The exact distance can’t be defined without other information. Its intensity drops as it travels away from the source of sound. We can say that the wave “disappears” when its intensity is of the same order of the surrounding noise.