

# Soundproofing

Only three things stop sound waves.

## 1 – Space

**The more space there is the more noise reduction there is.** The farther away a sound happens, the farther a sound wave must travel and the less likely it is to be heard.

## 2- Mass

**The more mass there is the more noise reduction there is.** If it is heavy it will work well to stop the sound wave. Remember, if it does not weigh much it will not stop much.

## 3- Dampening

**The more vibration is stopped the more noise reduction there is.** You have dampened the noise if you have stopped the sound wave. Softness dampens sound waves. Making a sound wave move through different layers of material with different amounts of softness also helps dampen.