



R-Value Explained

The concept of R-Value is one of those terms that many people are familiar with, but most may not fully know what it means. The short of it is this: R-Value is all about insulating against, or resisting, temperature change. When it comes to your home or business, Magnetite believes that R-Value is a REALLY big thing. R-Value affects the soundproofing of a building, the comfort of a building, and the energy costs of a building.

When you grab a blanket to protect against the cold evening chill you don't grab a blanket full of holes; you grab a good one. The better the blanket, the warmer you are. The same is true for a building; the better a wall, ceiling, or window is at resisting temperature change, the higher its R-Value will be.

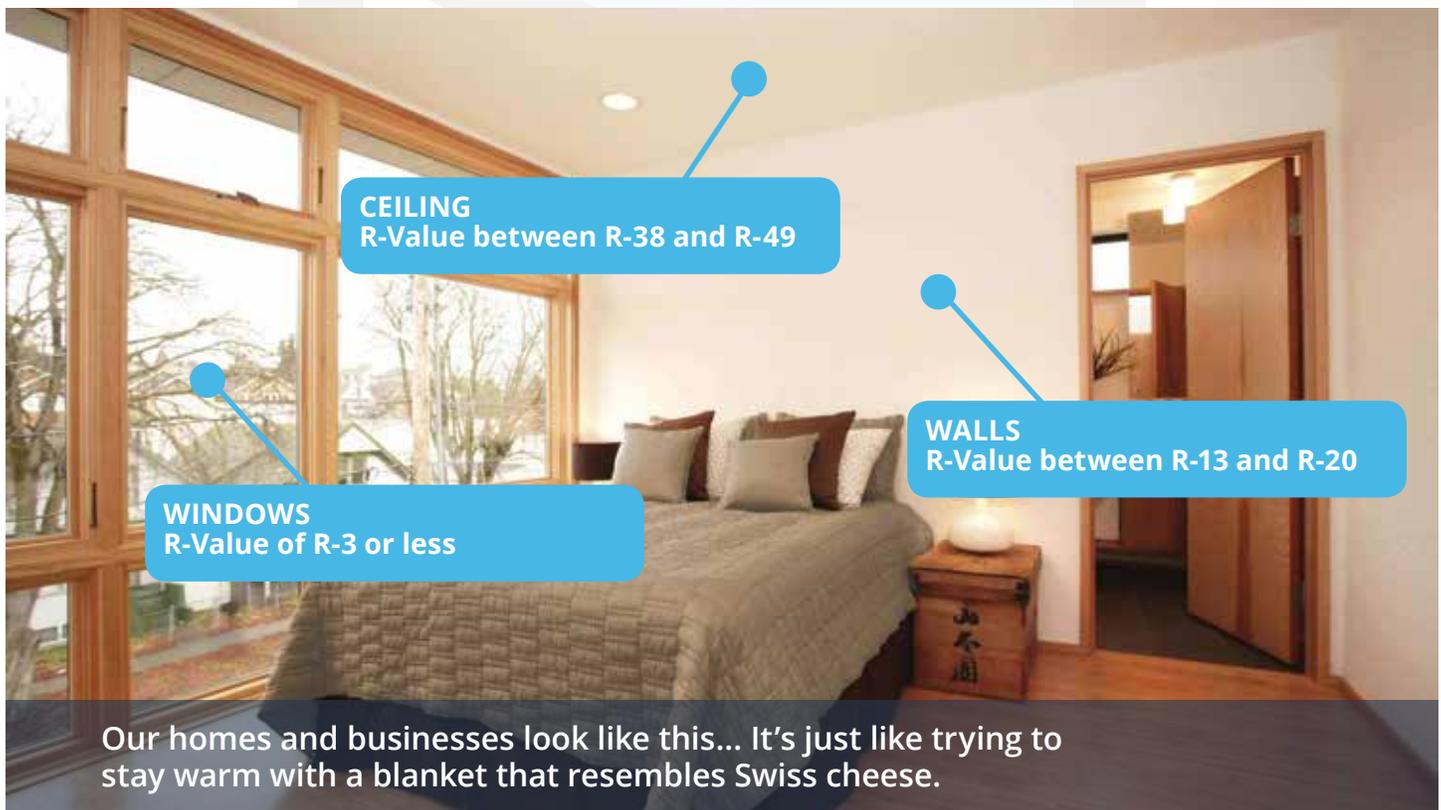


Sadly, our homes or businesses all battle having a "blanket" that is full of holes.



R-Value Explained

In the Southwest United States, the building code (aka: 2012 International Energy Conservation Code) calls for walls to have an R-Value between R-13 and R-20 and ceilings should have R-Values between R-38 and R-49. New windows on the other hand only have to have an R-Value of less than R-3 (many older windows have an R-Value of around R-1). This means that, **at their very best**, your windows are still 4X less efficient at stopping heat than the walls surrounding them and 12X less efficient than the ceiling above.



With Magnetite's acrylic insulating window panels installed as a part of your window system, you can upgrade your windows to be nearly as quiet as your walls, quite a bit more comfortable during hot summers and cold winters, and nearly as efficient as your walls (up to R-8*) resulting in a reduced energy bill. No replacement window on the market today can match what Magnetite can do for you.

*The final R-Value of your window system may vary. These figures are based on a professionally installed Magnetite panel for a single-hung window in a 2"x4" wall cavity.