

Understanding U-Values Within Garage Door Insulation

As a homeowner, you know that there are many components to keeping your home's energy costs low. One of those components is understanding the U-value of your garage door insulation. Having an understanding of what U-values are and how they can impact your monthly energy bills will help you make more informed decisions when it comes to choosing the right type of insulation for your garage door.

In this latest blog article, we will explain exactly what a U-value is and provide insight into how it affects the temperature in your garage - as well as offer up some tips on selecting materials with optimal insulating properties. No matter if you're installing a new door or retrofitting an old one, read on to gain valuable insights into effectively managing thermal performance at home!

What are U-Values?

A u-value is simply a measurement that indicates the effectiveness of a building material as an insulator.

Insulation is an imperative component of building and design and is something that all homeowners should be aware of. When a home is properly insulated with materials that have a low u-value, the greater that building will be at maintaining a comfortable temperature/climate. Which also means that less energy is required to heat the building, therefore having a positive impact on not only the cost of heating the building but also the environment.

U-Values will typically be written like this - $2.8W/(m^2K)$, always being measured in watts per square metre per kelvin. As mentioned above the lower the u-value the better.

Why are U-Values so important?

Since building designers, architects and governing bodies have become far more concerned about the sustainability and durability of a home, u-values have become an incredibly valuable measurement. Building regulations now require new-build homes and residential buildings to have lower u-values than ever before. This has resulted in a change within the building industry, with a greater focus on the materials used within construction and more attention to the insulating elements of a building such as the double glazing and cavity walls.

How U-Values apply to garage doors

Now you may be wondering what this has got to do with garage doors and the insulation of garage doors.

When choosing a new garage door it is incredibly useful to pay attention to the energy efficiency of this. After all a garage door will either be in place to protect your car, other items like gym equipment, and may also be leading into the home. Not only will a well-insulated garage door help keep your home warm and draught free but it will also ensure your energy costs are not impacted. Which, during this current cost of living crisis, has become a great concern for homeowners and landlords alike.

When shopping around for a new garage door, whether this is to install onto a new build or to replace an existing door, you will notice manufacturers will advertise their door's insulation using a U-Value. This U-Value provides a simple way for you to compare the energy efficiency of the garage doors you are choosing between. And may help you make your final purchase decision.

Hörmann Energy saving garage doors

Our Hörmann LPU 42mm insulated and LPU 67 Thermo sectional garage doors offer some of the very best U Values on the market for garage doors.

The LPU 42mm insulated sectional garage door is double-skinned featuring 42 mm thick sections that ensure excellent thermal insulation. While the LPU 67 Thermo energy-saving door offers excellent thermal insulation thanks to the even thicker, 67-mm-thick sections with thermal break. Plus with both doors featuring weather seals around their fixing frames, they help to prevent further damage and draughts from harsh weather conditions. To find out more about our energy-saving garage doors, take a look at our range of [domestic sectional garage doors](#), available via [Hörmann dealers](#) across the country.