

R-Value Reality Check		
Insulation R-Value	Amount of heat flow reduction	Improvement in Energy Efficiency vs. R-8 Insulation
R-8	90%	-
R-12	93%	3%
R-16	95%	5%
R-20	96%	6%
R-32	97%	7%

Based on heating and cooling costs of 4,000 sq. ft of insulation

The higher the R-value number, the better the insulating properties of the material. However, an R-16 value is not twice as good as an R-8 Value. R-16 does not offer twice as much thermal resistance or twice the energy savings of an R-8 value. A value of R-16 offers a 5% reduction in heat flow and a 5% improvement in energy efficiency from a value of R-8.

A garage door's insulating capabilities can be greatly affected by the door's construction mostly. Delden's door section construction and insulation options help keep your garage as comfortable as possible.

Construction options for DELDEN® low maintenance steel doors include:

- Series **1000** Single-Layer: **Steel** (R-Value: N/A)
- Series **2000** Double-Layer: **Steel + Insulation** (R-Value: 6.84)
- Series **3000** Triple-Layer: **Steel + Insulation + Steel** (R-Value: 6.48 -19.40)

Here are some questions to help you determine what construction is the best fit for your application:

Determine the daily usage of your garage door such as:

- Is it used for your vehicle and opened several times a day?
- Is it a workshop, living space or storage area and rarely opened?
- Is it a mixed use space?
- Is the garage insulated?
- Is it a temperature controlled environment with a heating/cooling vents?

Where is your garage door located?

- Is it below part of your living space?
- Is it attached to your house?



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