

Guidelines for Publication of Thermal Performance Values for Residential and Commercial Garage Doors

Introduction

Historically, garage door manufacturers have published thermal performance of their doors using R-values; however, for building components such as doors, windows, and garage doors there is a better way to rate thermal performance: U-factor. U-factor is superior to R-value because it considers the performance of the full, assembled door, which reflects the performance the owner will actually experience. An R-value merely provides a value for a small piece of the door section.

The garage door industry is embarking on a project to move to the exclusive use of U-factors, following in the footsteps of the window and entry door industries (among others). This industry transition will take a few years, and in the meantime, it is possible that purchasers will see both R-value and U-factor. The following guidelines apply to publication of thermal performance ratings during this transitional stage:

Guidelines

1. **Tested, installed door.** For individual garage door manufacturers that advertising and marketing residential or commercial using tested U-factor for a particular product, the . tested, installed door U-factor should be in accordance with procedures referenced in the latest published version of the ANSI/DASMA 105 standard.
 - a. **Published U-Factor qualification.** Each published U-factor value associated with a residential or commercial garage door product should include a specific reference noting that “Tested, installed door U-factor is in accordance with DASMA TDS-163 or ANSI/DASMA 105”.
 - b. **DASMA U-Factor label.** U-factor information provided by DASMA-approved testing facilities can be published with the DASMA U-factor label in accordance to guidelines published by DASMA
2. **R-Value.** R-value may be published as a supplement to U-factor until the transition to the new system is complete in 2020. Each published R-value associated with a residential or commercial garage door product should include a specific reference noting “Estimated R-value in accordance to calculations in DASMA TDS-163. Actual R-value may vary”.
3. **Door section R-value.** In determining the R-value used in the calculation method, testing can be performed on the insulation component or on a representative area of a section with facings attached.

NOTE: This document is an information tool to be used in conjunction with TDS-163 and the ANSI / DASMA 105 standard, as published 2017. If manufacturers choose to advertise and market the R-values and U-factors of their residential and commercial garage doors products, this document provides guidelines for the publication of those values. Always consult with individual manufacturers regarding specific building construction applications and garage door thermal performance.