



COMMERCIAL & RESIDENTIAL GARAGE DOOR DIVISION DASMA TECHNICAL DATA SHEET

Door & Access Systems
Manufacturers Association
International

#155

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Wind Load Guides for Vehicle Access Doors

DASMA has developed, and continues to develop, a number of resources to assist the building industry by clarifying wind load requirements for vehicle access doors such as garage doors and rolling doors. These resources are intended to aid architects, engineers, and contractors in specifying these doors for buildings, resulting in effective resistance to wind loads in specific applications.

One prominent approach DASMA has taken is to publish documents that contain wind load requirements for vehicle access doors based on various building codes and standards. The first such Wind Load Guides (TDS 155a–g) were created in 1999 and were based on building codes that predated the International Building Code. Since the codes on which they were based are no longer in use, these Guides have been retired. DASMA keeps abreast of continued code and standard development by updating and creating new Wind Load Guides whenever needed.

DASMA is committed to accurate and complete information that can be understood by all interested parties. The Guides account for all relevant factors in design wind load determination, e.g., Exposure Category, Mean Roof Height, wind speed, positive and negative pressure, and typical door sizes. Footnotes and explanatory text provide a complete picture for determining the design wind load.

DASMA Wind Load Guides are based on various noteworthy standards and state and model building codes as follows (click on a standard/code to view the related Wind Load Guide):

- h. [North Carolina Residential State Building Code](#)
- k. [ASCE 7-98/ASCE 7-02/ASCE 7-05](#)
- m. [2000/2003/2006/2009/2012 International Residential Codes \(IRC\)](#)
- s. [ASCE 7-10 and the 2012 & 2015 International Building Code](#)
- u. [2010 National Building Code of Canada](#)
- v. [ASCE 7-16 and the 2018 & 2021 International Building Code](#)

Note: Technical Data Sheets are information tools only and should not be used as substitutes for instructions from individual manufacturers. Always consult with individual manufacturers for specific recommendations for their products and check the applicable local regulations.

This Technical Data Sheet was prepared by the members of DASMA's Commercial & Residential Garage Door Division Technical Committee. DASMA is a trade association comprising manufacturers of rolling doors, fire doors, grilles, counter shutters, sheet doors, and related products; upward-acting residential and commercial garage doors; operating devices for garage doors and gates, sensing devices, and electronic remote controls for garage doors and gate operators; as well as companies that manufacture or supply either raw materials or significant components used in the manufacture and installation of the Active Members' products.

- x. [2020 Florida Building Code](#)
- y. [ASCE 7-22 and the 2024 International Building Code](#)
- z. [2015 and 2018 International Residential Codes \(IRC\)](#)
- aa. [2021 and 2024 International Residential Codes \(IRC\)](#)

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