

DASMA HIGH PERFORMANCE DIVISION MAKES HEADLINES

New standards created for doors and grilles

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In January 2020, the DASMA High Performance Door Division published two new standards: 402 (for high performance doors and grilles) and 403 (for high speed doors and grilles). The standards were created to provide a comprehensive overview of the technical requirements for applicable products.

Since its inception in 2004, DASMA's High Performance Door Division has successfully addressed numerous code and regulatory subjects, including thermal performance, electrical performance, egress applications, seismic design, structural requirements, and a host of other topics. The publication of the 402 and 403 standards represents another high water mark for the division.

Defining the doors

When the division was formed, the first task on its agenda was to define "high performance doors" in terms of eligibility for membership in DASMA.

The group agreed that in order to join the organization, manufacturers must comply with the following stipulations:

- Manufacture rolling, folding, and/or sliding doors.
- Doors must be powered and used for non-residential installations.
- Doors must be designed for a minimum of 100 cycles per day and/or offer a minimum opening speed of 20" per second.
- Doors must be designed for at least two of the following three parameters:
 - ▶ Custom sizes
 - ▶ Low maintenance
 - ▶ "Break away" upon contact with moving equipment

Based on these eligibility requirements, the division then created the following door definitions for the DASMA standards:

High Performance Door. A power-operated rolling, folding, or sliding non-residential door, generally characterized by either 100 or more cycles per day or 20 or more inches per second opening speed, and typically made-to-order and/or designed for higher durability, and/or designed to break away due to equipment impact.

High Performance Grille. A power-operated rolling grille, generally characterized by either 100 or more cycles per day or 20 or more inches per second opening speed, and typically made-to-order and/or designed for higher durability, and/or designed to break away due to equipment impact.

High Speed Door. A type of high performance door with a minimum opening rate of 32" per second, a minimum closing rate of 24" per second, and a means to automatically reclose the door.

High Speed Grille. A type of high performance grille with a minimum opening rate of 32" per second, a minimum closing rate of 24 per second, and a means to automatically reclose the grille.

The differences between high performance doors and high speed doors are noted in the Speeds and Cycles and the Closing Device sections of the standards.

How can the standards be used?

The standards can be incorporated into architectural specifications for construction planning. They can also be promoted by the manufacturers themselves to prospective customers.

In addition, if there is a code-enforcement demand for compliance, the standards may eventually be referenced in the model codes. In all cases, the standards will raise

the bar even higher for an industry that already manufactures products with a high degree of integrity.

The power of the DASMA network

Division membership began with five companies in 2005. Over the years, a number of additional companies have joined forces and have contributed significant technical knowledge and effort toward DASMA activities.

Today, the DASMA High Performance Door Division includes multiple companies: Airlift Doors, CornellCookson, Entrematic/Dynaco, Hörmann/TNR Industrial Doors, Jamison Door, Lawrence Roll-Up Doors, Overhead Door, Performax Global, Rite-Hite Doors, and Rytec, and Wayne Dalton.

A closing thought

For decades, high performance doors have served several important functions in society: security, environmental separation, traffic control, and energy conservation.

Standards 402 and 403 should help further clarify operational parameters for high performance doors and grilles. They should also bring additional exposure to these products and provide a wide range of performance options to help better meet the application needs of facility owners. ■

WHAT IS IN THE NEW STANDARDS?

The two standards are similarly structured and cover the following topics:

- Installation/Operation: Standard details and instructions.
- Maintenance: A list of components, instructions, and frequencies.
- Durability: Number of cycles.
- General Requirements: Manual operation, power operation, egress, thermal transmittance/air infiltration, steel gauge numbers, flame spread and smoke development, speeds and cycles, closing device, and any special design features.
- Loads: Wind-load testing and windborne debris resistance testing.

Refer to the DASMA website for the complete list.
<https://www.dasma.com/dasma-pages/D-AS-standards.asp>