

13th Technical Forum Features 14 Presentations



From Sept. 17 to 19, DASMA held its 13th Annual Technical Forum, the industry's technical event of the year. The 2-1/2 day event attracted 34 DASMA representatives and featured four meetings and a record 14 forum sessions.

The forum speakers covered several topics including door wind-load research and certification, garage door R-value and U-factor, Florida

codes and product approval, door seismic analysis, sound transmission through doors, and North Carolina codes.

Joe Hetzel, DASMA technical director, said that every forum topic had a direct impact on action taken in technical meetings following the presentations. He noted that over 80 technical items were handled during those meetings, more than a third of which were addressed in presentations related to codes and standards proposals. ■

New Standards Mark Victory for High-Speed Doors

By Jeff Wendt, Ryttec, chair of the DASMA High Performance Door Division

Energy code requirements will soon be up to speed with high-speed doors. ASHRAE and the International Code Council (ICC) have validated the energy efficiency benefits of high-speed doors and are setting a standard for them that will soon be published.

After nearly two years of DASMA efforts and third-party lab testing, ASHRAE and ICC are recognizing high-speed doors in building envelope energy calculations. The new standards not only define a high-speed door, they provide new ways for high-speed doors to comply with the codes.

Given the potential impact on the door industry, DASMA's High Performance Door Division views this as an unprecedented endorsement of high-speed doors.

Door professionals know the importance of insulation R-value (or assembly U-factor) and air infiltration (or leakage) for conventional doors. Now, the new codes acknowledge the unique benefits of high-speed doors in controlling the air flowing through a door opening when a door isn't fully closed. ■



NFPA Changes Affect Rolling Fire Doors

By Steve Hahn, Lawrence Roll-Up Doors, chair of the DASMA Rolling Door Division

The 2013 edition of NFPA 80 Standard for Fire Doors included several revisions affecting the installation, inspection, and drop testing of rolling fire doors.



The most significant change regards the material and installation of the through-wall sleeve used when fusible links are installed on both sides of the wall. For decades, sleeves of different materials and sizes have been used, if sleeves were used at all.

NFPA 80 Section 4.7.5.1 now specifies that:

- The sleeve material is to be 1/2" diameter galvanized steel pipe or conduit.
- The ends of the sleeve must be deburred and fitted with a collar or bushing at each end to provide a smooth surface for the cable or chain to pull against.
- The sleeve assembly must allow free movement of the cable or chain through it.

Explanatory material was also added to Annex A to clarify that sleeves are an allowable penetration in a wall and must remain open and unobstructed, and that firestopping or other sealants cannot be used to fill them.

Chapter 5 has also been expanded to more completely address requirements for care and maintenance of fire doors. Some notable revisions affecting inspection and testing include:

- A witnessed drop test is now required following installation of a new fire door.
- Record keeping for inspection and testing now requires more details about the location and identification of fire doors.
- The requirement for who can perform testing was revised to state that it must be done by "a person who, by possession of a recognized degree, certificate, professional standing, or skill, and who, by knowledge, training, and experience, has demonstrated the ability to deal with the subject matter, the work, or the project."
- Doors must be tested using all activation means. For example, a fire door with fusible links and smoke detectors must be drop tested by each device.

All personnel involved in the installation, repair, inspection, and testing of fire doors should be familiar with NFPA 80. The document is available for purchase or can be viewed for free at www.nfpa.org. ■

Intertek Acquires Architectural Testing

In November, Architectural Testing announced a binding agreement to be acquired by Intertek by the end of 2013, pending regulatory approval.

The acquisition is expected to expand Intertek's global reach, breadth of services, depth of experience, and array of services for the building products industry. Architectural Testing's management is expected to remain the same. ■

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DASMA Publishes New TDS on Sound Transmission

This past fall, DASMA published TDS 189, titled "Sound Transmission." The new TDS is available at www.dasma.com.

TDS 189 describes building elements involved, the testing used, how the ratings are determined, code requirements, and changes in loudness perception. The TDS notes that the Sound Transmission Coefficient is a door element rating, while the Outdoor-Indoor Transmission Coefficient is an assembly rating.

Pat Hunter, Commercial & Residential Garage Door Technical Committee chair, says that further study may be conducted on test procedures specific to doors offered by DASMA members. "Specifications for these ratings, typically seen in the rolling door market, are beginning to include other products represented within DASMA. We may further refine the TDS as we learn more about the specific needs and applications of the market," he adds. ■



DASMA Updates Popular TDS 161

DASMA Technical Data Sheet 161, one of the most downloaded documents from the DASMA website, underwent revisions last fall. The revisions resulted from study of a wood standard affecting fastener design loads.

The standard changes resulted in slightly increased fastener spacing, reflected in the charts for lag screws (TDS 161e) and common wire nails (TDS 161f). The purpose for the change was to reflect a reduced design temperature in the calculations.

John Scates, a consultant and DASMA professional member who frequently uses the document, submitted the proposed changes to DASMA. "While it could be argued that a garage temperature may exceed 100 degrees Fahrenheit in southern Florida, a hurricane typically does not have a prevailing temperature in excess of 100 degrees," he explains. ■

ICC Approves Maximum Air Leakage for High-Speed Doors

At the 2015 International Energy Conservation Code final hearings this past fall, the International Code Council approved a maximum air leakage provision for high-speed doors. The proposal, submitted by DASMA's High Performance Door Division, establishes a maximum 1.3 cubic feet per minute per door area square foot.

The requirement is the same as in the ASHRAE 90.1 codified standard, and it complements the maximum U-factor requirement in ASHRAE 189.1. These requirements, all approved in the past year,

complete the recognition of—and needed provisions for—high-speed doors in relevant energy documents.

Jeff Wendt, High Performance Door Division chair, notes how DASMA work has paid off. “Energy performance targets for our products have been greatly clarified, all because of our association-sponsored research,” he says.

Wendt added that DASMA efforts are continuing in the form of developing Technical Data Sheets, educational articles, and industry presentations. ■

The Most-Downloaded Technical Data Sheets

Downloads*		DASMA Technical Data Sheet
157	●	TDS 155 Residential and Commercial Wind Load Guides
111	●	TDS 151 General Code Inspection Guidelines for Garage Doors
110	●	TDS 161 Connecting Garage Door Jambs to Building Framing
93	●	TDS 156 Standard Wood Header and Jamb Detail Guidelines
86	●	TDS 182 Technical Considerations for Dock Doors

*Aug. 15–Nov. 15, 2013

More than 100 Technical Data Sheets are freely available at www.dasma.com under Publications (www.dasma.com/PubTechData.asp). These documents have been prepared and are continually reviewed by the DASMA Technical Committees and technical staff. ■

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