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Guide Specification for High Performance Doors

PART 1 – GENERAL

1.1 System Description

- A. Scope: These specifications include various general aspects of high performance doors that may be considered for a particular application. Specific high performance door aspects should be obtained from the manufacturer's product information for the door specified.
- B. High Performance Doors shall include the following characteristics: Rolling, folding or sliding.
 - 1) Non-residential, powered operation.
 - 2) Opening speed of minimum 20 inches per second and/or cycles of minimum 100 per day.
 - 3) Meeting two out of the following three:
 - a. Made-to-order for exact size and custom features.
 - b. Designed to be able to withstand equipment impact (breakaway during hits)
 - c. Designed to sustain heavy usage with minimal maintenance.
- C. High speed doors shall be defined as high performance doors with a minimum averaged opening speed of 32 inches per second.
- D. *Manufacturer Qualifications:* Engage a company experienced in manufacturing high performance doors similar to those indicated for this project and with a record of successful in-service performance.

1.2 Performance Requirements

- A. Door Opening Speed: If required, as specified.
- B. Breakaway/Re-feed Capabilities: If required, as specified.

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This Technical Data Sheet was prepared by the members of DASMA's High Performance Door Division. DASMA is a trade association comprising manufacturers of high performance 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.

- C. Wind Load: If required, as specified. Wind load may be determined in accordance with ASTM E330, TAS 202 or ANSI/DASMA 108. For testing either ASTM E330 or ANSI/DASMA 108, acceptance criteria shall be as per ANSI/DASMA 108.
- D. Windborne Debris Resistance: If required, as specified. Windborne debris resistance may be determined in accordance with either ANSI/DASMA 115 or TAS 201/203.
- E. Cycle Life: If required, as specified. Product cycle life may be determined in accordance with ANSI/DASMA 109.
- F. R-value of Door Section: If required, as specified. R-value of door section may be calculated in accordance with procedures outlined in DASMA TDS-163.
- G. U-factor of Door Assembly: If required, as specified. U-factor of a door assembly may be determined in accordance with either ANSI/DASMA 105 (testing) or NFRC 100/NFRC 102 (simulation and validation testing).
- H. Air Infiltration: If required, as specified. Air infiltration may be determined in accordance with either ASTM E 283 or ANSI/DASMA 105.
- I. Solar Heat Gain Coefficient: If required, as specified. For doors containing glazing, the solar heat gain coefficient of the entire door assembly may be determined in accordance with either NFRC 200 (calculation/simulation) or NFRC 201 (testing).

1.3 Submittals

- A. Product Data: For each type and size of high performance door and accessory, include details of construction relative to materials, components, profiles, and finishes. Provide basic dimensions, operating instructions, and maintenance information. Provide basic control/motor information.
- B. Shop Drawings: Show actual dimensions, anchoring information, forces/loads (if required) and installation details.
 - 1) Wiring Diagrams: Detail wiring for power, signal, and control systems. Differentiate between manufacturer-installed and field-installed wiring and between components provided by door manufacturer and those provided by others.

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- C. Samples for Verification: As specified.
- D. Owners Manual: Number of copies as requested.

1.4 Operation, Maintenance and Repair

- A. General: The high performance door manufacturer's written instruction shall be followed regarding proper operation, routine maintenance, troubleshooting procedures and means of handling repairs.
- B. Personnel Qualifications: Engage experienced personnel who are authorized representatives of the high performance door manufacturer for operation, maintenance and repair of units required for the project.

1.5 Delivery and Storage

- A. Source Limitations: As specified.
- B. Delivery: Door shall be delivered in such a manner so as to keep all packaged materials intact and protected for any unnecessary impact with other objects.
- C. Storage: Where doors are required to be stored at the job site prior to installation, packaging shall be kept intact. Doors shall be stored away from excessive heat or cold, excessive humidity, contact with water, and contact with any environmental hazards.

PART 2 – PRODUCTS

2.1 Materials of Construction

- A. Tracks: As specified.
- B. Weatherseals: As specified.
- C. Vision Panels: As specified.
- D. Hardware: As specified.
- E. Guides: As specified.
- F. Counterbalance: As specified.

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- G. Door Operator/Motor: As specified.
- H. Controls: NEMA rating and UL listing as specified.
- I. Sensors/Activation: As specified.
- J. Curtain/Panel: As specified.

2.2 Door Operation

- A. Automatic Operation: Installation involving either timer to close or user-initiated activation is as specified.
- B. Manual Release: As specified.

2.3 Safety Related Features

- A. As specified.

2.4 Energy Related Features

- A. As specified.

PART 3 – EXECUTION

3.1 Examination

- A. Examine wall and overhead areas, including opening framing and blocking, with Installer present, for compliance with requirements for installation tolerances, clearances, and other conditions affect performance of Work of the Section.
 - 1. Proceed with installation only after unsatisfactory conditions have been corrected.

Installation

- A. General: Install door assembly according to the Shop Drawings manufacturer's written instructions, and as specified.

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- B. Fastening to Building Medium: Fasten door assembly to building medium in accordance with the manufacturer's written instructions, using the proper fastening method for the application.
- C. Personnel Qualifications: Engage experienced personnel who are authorized representatives of the high performance door manufacturer for installation of units required for this project.

3.2 Adjusting/Startup

- A. The door shall be automatically fully closed and opened a minimum of 5 times to ensure smooth and safe operation. Test and adjust as specified.
- B. Train the end user as required.

3.3 Warranty

As specified.

END OF SECTION

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