



SECTION 08 71 00

DOOR HARDWARE

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## PART 1 GENERAL

### 1.1 SECTION INCLUDES

- A. Double action hinges.
- B. Hidden door hinges.
- C. Sliding door hardware.

### 1.2 RELATED SECTIONS

- A. Section - 3 "Hollow Metal Doors and Frames.
- B. Section - 9 "Stainless-Steel Doors and Frames.
- C. Section - 3 "Hollow Metal Frames.
- D. Section - 6 "Aluminum Frames.
- E. Section - 6 "Flush Wood Doors.
- F. Section - 3 "Stile and Rail Wood Doors.
- G. Section - 3 "Folding Doors.
- H. Section 10 26 16 - Bumper Guards0 "Wall and Door Protection.

### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data:
  - 1. Manufacturer's data sheets on each product to be used.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Typical installation methods.
- C. Verification Samples: Two representative units of each type, size, pattern, and color.

- D. Shop Drawings: Include details of materials, construction, and finish. Include relationship with adjacent construction.

#### 1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.
- D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
  - 1. The intent of a mock-up is to demonstrate quality of workmanship and visual appearance.
  - 2. If the mock-up is not acceptable, rebuild the mock-up until satisfactory results are achieved.
  - 3. Retain mock-up during construction as a standard for comparison with completed work.
  - 4. Do not alter or remove mock-up until work is completed or removal is authorized.

#### 1.5 PRE-INSTALLATION CONFERENCE

- A. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
- B. Protect from damage due to weather, excessive temperature, and construction operations.

#### 1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

#### 1.8 WARRANTY

- A. Manufacturer's standard limited warranty unless indicated otherwise.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Sugatsune America, Inc., which is located at: 18101 Savarona Way; Carson, CA 90746; Toll Free Tel: 800-562-5267; Tel: 310-329-6373; Fax: 310-329-0819; Email: [request info \(sales@sugatsune.com\)](mailto:request info (sales@sugatsune.com)); Web: <http://www.sugatsune.com>
- B. Substitutions: Not permitted.

- C. Requests for substitutions will be considered in accordance with the provisions of Section 01 60 00.

## 2.2 HIDDEN DOOR HINGES

- A. Model HES3D-E190DN-UL. 3-Way Adjustable Concealed Hinge With UL as manufactured by Sugatsune.
  - 1. Allows vertical, horizontal, and depth adjustment after hinge is installed.
  - 2. Lift-Off Feature: Hinge can be split into two parts; one for the frame and one for the flap. Can temporarily be hung and hold position without being affixed with screws.
  - 3. Cycles: 300,000 open/close.
  - 4. UL Rated, up to 3 Hours.
  - 5. Supplied with steel flat head screw.
  - 6. Covers to hide screw heads.
  - 7. Door Weight for 2 Hinges: 220 lbs (100 kg).
  - 8. Door Weight for 3 Hinges: 275 lbs (125 kg).
  - 9. Door Thickness: 1-1/2 inches (38 mm) minimum.
  - 10. Door Size (HxW): 94-1/2 x 36 inches (2400 x 915 mm) maximum.
  - 11. Material: Zinc Alloy.
  - 12. Width or Depth of Item Closed: 2.34 inches (59.5 mm).
  - 13. Width or Depth of item Open: 3.125 inches (79 mm).
  - 14. Dimensions (W x H): 1.34 inches (34 mm) x 7.48 inches (190 mm).
  - 15. Weight: 37.04 oz (1050 grams).
  - 16. Fasteners: Required and included.
  - 17. Fastener Type: Steel flat head screw.
  - 18. Bracket for sheet metal doors and frames.
  - 19. Metal cover plates with Polished Nickel (PN) finish HES3D-E190PN-CM.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until the substrates have been properly constructed and prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

### 3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.

### 3.4 FIELD QUALITY CONTROL

- A. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.
- B. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.

### 3.5 CLEANING AND PROTECTION

- A. Clean products in accordance with the manufacturers recommendations.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION