



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-E190BL-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 held without being affixed with screws.
 - 3. Cycles: 300,000 open/close.
 - 4. UL Rated, up to 3 Hours.
 - 5. Covers to hide screw heads.
 - 6. Door Weight for 2 Hinges: 220 lbs (100 kg).
 - 7. Door Weight for 3 Hinges: 275 lbs (125 kg).
 - 8. Door Thickness: 1-1/2 inches (38 mm) minimum.
 - 9. Door Size (HxW): 94-1/2 x 36 inches (2400 x 915 mm) maximum.
 - 10. Material: Zinc Alloy.
 - 11. Width or Depth of Item Closed: 2.34 inches (59.5 mm).
 - 12. Width or Depth of item Open: 3.125 inches (79 mm).
 - 13. Dimensions (W x H): 1.34 inches (34 mm) x 7.48 inches (190 mm).
 - 14. Weight: 37.04 oz (1050 grams).
 - 15. Fasteners: Required and included.
 - 16. Fastener Type: Steel flat head screw.
 - 17. Bracket for sheet metal doors and frames.
 - 18. 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