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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM) including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies a trimless, slit-type door frame system. This product is manufactured by Studco Building Systems US, LLC. Revise MANU-SPEC section number and title below to suit project requirements, specification practices and section content. Refer to CSI *MasterFormat*™ for other section numbers and titles.

SECTION 08 12 13
HOLLOW METAL FRAMES

PART 1 GENERAL

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Section 01 42 19 - Reference Standards may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.01 SUMMARY

- A. Related Sections:
 - 1. Installation of Doors: Division 08 Doors Sections.
 - 2. Finish Hardware: Division 08 Finish Hardware Sections.

1.02 REFERENCES

- A. ASTM International (ASTM):
 - 1. ASTM A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- B. National Fire Protection Association (NFPA):
 - 1. NFPA 80 Fire Doors and Windows.
 - 2. NFPA 252 Fire Tests of Door Assemblies.
- C. Underwriters Laboratories, Inc. (UL):
 - 1. UL 10C Positive Pressure Fire Tests of Door Assemblies.
- D. Underwriters' Laboratories of Canada (ULC):
 - 1. ULC CAN4-S104-M80 Standard Method for Fire Tests of Door Assemblies.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor either before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section [01 33 00 -

Submittals Procedures].

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 - Submittal Procedures] [_____].
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA sheet, for specified products.
- C. Shop Drawings: Submit drawings showing details of each opening, including elevations, frame profiles, finishes, accessories, hardware and anchorage.

Specifier Note: Retain below if powder coating is specified.

- D. Samples:
 - 1. Frames: Submit samples of manufacturer's full range of standard colors for specified finish(es).
 - a. For each color selected, submit 12 inch (305 mm) long samples.

Specifier Note: Delete below if hinges are specified elsewhere.

- 2. Hinges: For each finish selected, submit 6 inch (152 mm) square samples.
- E. Quality Control Submittals:
 - 1. Manufacturer's Instructions: Manufacturer's installation instructions.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria which establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 01 Quality Assurance Section.

1.04 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. In accordance with Section [01 41 00 - Regulatory Requirements] [_____].
 - 2. Fire-rated steel frames shall be of types tested and approved by Intertek Testing Services, Warnock Hersey and shall bear labels of same. Three-sided frames shall receive a permanent Mylar 90 minute label. Sidelite and borrowed lite frames shall receive a Mylar Warnock Hersey label when specified.

Specifier Note: Frames have been tested up to 90 minutes.

- B. Fire Resistance Rating: As indicated on drawings, tested and listed by:
 - 1. [UL 10C].
 - 2. [NFPA 80].
 - 3. [NFPA 252].
 - 4. [ULC CAN 4 S104].

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements. General statements to comply with a particular code are typically addressed in Conditions of the Contract and repetitive statements should be avoided.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Section [01 61 00 - Common Product Requirements] [_____].
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.
 - 1. Store material in a protected area, under cover, on wooden skids. Keep material vented to avoid condensation until ready for installation.

PART 2 PRODUCTS



Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards and descriptions as applicable. Use of such phrases as "or equal," "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 HOLLOW METAL FRAMES

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC®. Retain or delete paragraph below per project requirements and specifier's practice.

A. Manufacturer: Studco Building Systems US, LLC.

1. Contact: 545 Basket Road, Webster, NY 14580; Telephone: (800) 675-8023, (585) 265-9450; Fax: (585) 265-6678; E-mail: mail@studcosystems.com; website: www.ezyjamb.com.

Specifier Note: Retain products below to conform to project requirements. Select features for each product retained. If more than one product is retained, create designators and coordinate with drawings.

B. EZY-Jamb:

1. Door Types and Sizes: As indicated on drawings.

2.02 MATERIALS

- ### A. Steel Sheet: ASTM A653, zinc-iron alloy coated (G60 galvanized).

2.03 ACCESSORIES

Specifier Note: Select accessories below. If hinges are retained, select finish.

A. Reveal: EZY Reveal.

B. Cap: EZY Cap.

C. Hinges: [Butt type] [Invisible type].

1. Finish: [Stainless steel] [Satin chrome] [Satin brass] [Oil-rubbed bronze] [Polished chrome] [Polished brass].

2.04 FABRICATION

A. Door Frames:

1. Frame members shall be of a double rabbet profile with integral stops. Construct jam member to interlock and align with header members to form a strong joint.

Specifier Note: Retain or delete article below to suit project requirements.

B. Sidelite and Borrowed Lite Frames:

1. Construct as specified for door frames. Where required, provide concealed field-applied mullion clips for securing mullions to head/jamb members.
2. Form fixed glazing stops integral with frame members.
3. Provide removable metal stops with prepunched screw holes complete with installation screws.

C. Factory Finishing:

1. Finish door frames, sidelite and borrowed lites as follows:
 - a. Prime finished, suitable for field applied finish paint in the standard gray prime color.
 - b. Prefinished with factory-applied baked enamel.

Specifier Note: If baked enamel coating is not retained, delete color paragraph below.

- c. Color: [As selected from the manufacturer's standard colors] [Custom color to match Architect's sample].

2.05 PRODUCT SUBSTITUTIONS

- A. Substitutions: Substitutions in accordance with Section [01 25 13 - Product Substitution Procedures] [No substitutions permitted] [_____].

PART 3 EXECUTION

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain or delete paragraph below per project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins, product catalog installation instructions and product carton instructions for installation.

3.02 EXAMINATION

- A. Site Verification of Conditions: Verify that substrate conditions, for substrates previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.

3.03 PREPARATION

- A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.
B. Surface Preparation: Contact manufacturer.

3.04 INSTALLATION

- A. Install frames plumb and square, in accordance with shop drawings and manufacturer's instructions. Verify opening and dimension with shop drawings. Use door as a template to ensure proper alignment and clearances.

Specifier Note: Retain article below only if hinges are specified in Part 2.

- B. Attach hinges and hang door in frame. Adjust frame to door for equal and uniform clearance between top and sides of door and frame.
C. Secure frame to wall with the appropriate type fasteners and install casing on frame.

3.05 ADJUSTING

- A. Repair or replace damaged or defective frames.
B. Touch up damaged areas of factory-applied finishes with aerosol spray cans of same paint as used in factory.

3.06 CLEANING

- A. Proceed in accordance with Section [01 74 23 - Final Cleaning] [_____].
B. Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

3.07 PROTECTION

- A. Protection: Protect installed product and finish surfaces from damage during construction.

END OF SECTION