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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 precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate product model numbers, styles and types are used in Specifier Notes and in the specification text Article titled "Acceptable Material." Metric conversion, where used, is soft metric conversion.

This MANU-SPEC specifies knocked down, site assembled, prefinished metal, non-fire rated and fire-rated frames for doors, sidelights, borrow lights, transoms and access doors as manufactured by Timely Industries, Division of SDS Industries, Inc. 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 11 00

METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 SUMMARY

Specifier Note: Edit Paragraph below to conform to project requirements.

- A. Section Includes: This Section specifies knocked down, site assembled, prefinished metal, non-fire rated and fire-rated frames for:
1. Doors.
 2. Sidelights.
 3. Borrowed lights.
 4. Transoms.
 5. Access doors.

Specifier Note: Revise Paragraph below to suit project requirements. Add section numbers and titles per CSI MasterFormat and specifier's practice.

- B. Related Requirements:

Specifier Note: Include in this Paragraph only those sections and documents that directly affect the work of this section. If a reader of this section could reasonably expect to find a product or component specified in this section, but it is actually specified elsewhere, then the related section number(s) should be listed in the Subparagraph below. Do not include Division 00 documents or Division 01 sections since it is assumed that all technical sections are related to all project Division 00 documents and Division 01 sections to some degree. Refer to other documents with caution, as referencing them may cause them to be considered part of the Contract.

1. Section 08 71 00, Door Hardware: Hardware, [silencers] [and] [weatherstripping].

1.02 REFERENCES



Specifier Note: Paragraph below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain References Paragraph when specifying products and installation by an industry reference standard. Alphabetically list retained standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Contract Conditions Section 01 42 00 - References may establish the edition date of standards. This Paragraph does not require compliance with standard(s); it is a listing of all references used in this section. Only include here standards that are referenced in the body of the specification in PARTS 1, 2 or 3. Do not include references to building codes at any level.

A. Reference Standards:

1. American Architectural Manufacturers Association (AAMA) - AAMA 611 Voluntary Standards for Anodized Architectural Aluminum.
2. ASTM International (ASTM):
 - a. ASTM A366 Standard Specification for Commercial Steel (CS) Sheet, Carbon (0.15 Maximum Percent) Cold-Rolled.
 - b. ASTM A879 Standard Specification for Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface
 - c. ASTM B221 Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
 - d. ASTM B455 Standard Specification for Copper-Zinc-Lead Alloy (Leaded-Brass) Extruded Shapes.
3. National Fire Protection Association (NFPA):
 - a. NFPA 80 Standard for Fire Doors and Other Opening Protectives.
 - b. NFPA 252 Standard Methods of Fire Tests of Door Assemblies.
4. Underwriters Laboratories, Inc. (UL):
 - a. UL 10B Fire Test of Door Assemblies.
 - b. UL 10C Positive Pressure Fire Tests of Door Assemblies.

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays. Comply with Section [01 31 00 - Project Management and Coordination].

Specifier Note: Add text to specify unusual or detailed coordination requirements affecting the work results of this Section.

1. [_____].

- B. Sequencing: Sequence work of this section in accordance with Section [01 12 16 - Work Sequence] [and manufacturer's written recommendations for sequencing construction operations].

Specifier Note: Specify additional text as required to describe the particular sequence of events required to coordinate work that must be done in sequence with, or at the same time as, work in another section.

1. [_____].

- C. Scheduling: Schedule work of this Section in accordance with Section [01 32 13 - Scheduling of Work].

Specifier Note: Specify additional text to include requirements for coordinating work that requires unusual scheduling with work of other sections.

1. [_____].

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

1.04 ACTION SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Product Data: Submit specified products as follows:
 - 1. Manufacturer's product data, including manufacturer's SPEC-DATA product sheet.
 - 2. Manufacturer's installation instructions.
 - 3. Catalog pages illustrating products to be incorporated into project.
 - 4. Material Safety Data Sheets (MSDS).
- C. Shop Drawings: Indicate information on shop drawings as follows:
 - 1. Frame elevations.
 - 2. Details of frame anchorage.
 - 3. Details of reinforcements.
 - 4. Rough opening requirements.
 - 5. Locations of hardware embosses.
 - 6. Finishes.

Specifier Note: Samples are full-size actual products intended to illustrate the products to be incorporated into the project. Sample submittals are commonly necessary for such characteristics as colors, textures and other appearance issues.

- D. Samples: Submit as follows:
 - 1. Frame samples illustrating each finish specified.

1.05 INFORMATION SUBMITTALS

Specifier Note: Specify submittal of test reports or evaluation service reports intended to document required tests without repeating the test requirements specified in Division 01.

- A. General: Submit listed submittals in accordance with Contract Conditions and Section [01 33 00 - Submittal Procedures].
- B. Test and Evaluation Reports:
 - 1. Certified test reports showing compliance with specified performance characteristics and physical properties.

1.06 QUALITY ASSURANCE

Specifier Note: Retain the following Paragraph when certification related to sustainability submittals is a project requirement.

- A. Sustainability Standards Certification: Provide certification for [_____] materials certified by [certification organization's name] in accordance with [certification organization's standard].

1.07 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
 - 1. Deliver material in accordance with Section [01 61 00 - Common Product Requirements] and in accordance with manufacturer's written instructions.
 - 2. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.
- B. Storage and Handling Requirements:
 - 1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.
- C. Packaging Waste Management:

Specifier Note: The disposal of packaging waste into landfill sites demonstrates an inefficient use of natural resources and consumes valuable landfill space. Specifying appropriate packaging and construction waste management and disposal procedures may contribute

to points required for USGBC's LEED® construction project certification.

Specifier Note: Include the following Subparagraphs to specify information that will provide direction to the Contractor for the disposal of construction waste materials using environmentally responsible methodology other than landfill resources.

1. Separate waste materials for [reuse] [and] [recycling] in accordance with [Section 01 74 19 - Construction Waste Management and Disposal].

Specifier Note: USGBC's LEED certification includes credits for the diversion of construction waste from landfill. Diversion can be tracked by either weight or volume but must be consistent for all materials. Manufacturer may reclaim packaging and delivery materials for recycling.

2. Remove packaging materials from site and dispose of at appropriate recycling facilities.
3. Collect and separate for disposal [paper] [plastic] [polystyrene] [corrugated cardboard] packaging material [in appropriate onsite bins] for recycling.
4. Fold metal and plastic banding, flatten and place in designated area for recycling.

Specifier Note: Add additional Subparagraphs to include pallets, crates, padding and other packing materials that are typically associated with the specified products.

5. Remove:
 - a. Pallets from site [and return to supplier or manufacturer].
 - b. [_____].

1.08 WARRANTY

- A. Warranty: Refer to Contract Conditions and Section [01 78 36 - Warranties] for project warranty provisions.
- B. Manufacturer's Warranty: Submit for Owner's acceptance manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and does not limit, other rights Owner may have under other Contract Documents.
 1. Warranty Term: [_____] commencing on date of substantial completion.

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 MANUFACTURER:

- A. Timely Industries, 10241 Norris Avenue, Pacoima, CA 91331-2218; Telephone: 800-247-6242; Fax: 818-492-3530; E-mail: sales@timelyframes.com; Website: www.timelyframes.com.

Specifier Note: Substitution procedures must either be in the Contract Conditions or in Section 01 25 00 - Substitution Procedures. Do not include substitution procedures here.

1. Single Source Responsibility: Provide all frames from single manufacturer.
2. Substitution Limitations:
 - a. Substitutions: [In accordance with [Contract Conditions] [Section 01 25 00 - Substitution Procedures] [No substitutions permitted].

Specifier Note: Include an overall description of the system, assembly, product or material. Include required properties or characteristics that do not obviously belong under other titles. Examples: Configuration, size and color.

2.02 FRAMES:



A. Frame Material:

Specifier Note: Select frame material to conform to project requirements.

1. Cold rolled steel to ASTM A366.
2. Electro-galvanized, cold-rolled steel to ASTM A879.

B. Frame Throat Opening: As indicated on drawings.

C. Size: As indicated on drawings.

Specifier Note: Timely frames are offered in six profiles: "S" Series, "C" Series, "CK" Series, "A" Series, "E" Series and "P" Series. Where shown, fire-rated frames to have kerf formed into frame profile for installation of smoke gasket or weatherstrip material. Select profile to conform to project requirements.

D. Frame Profile:

1. "S" Series: Standard 0.9 mm (20 gauge) thick.
2. "C" Series: 1.2 mm (18 gauge) thick.
 - a. Rabbet profile: [Unequal] [Equal] [Single].
3. "CK" Series: 1.2 mm (18 gauge) thick, with kerf for door seal/gasket.
4. "A" Series: 1.2 mm (18 gauge) thick; adjustable.
5. "E" Series: 0.9 mm (20 gauge) thick.
 - a. Material: [Type 304 brushed stainless steel] [Type 430 bight stainless steel, polished] [Polished brass, steel base metal] [Non-rated polished brass, brass base metal].
6. "P" Series: 1.2 mm (18 gauge) thick; for pocket door trim only.

E. Side Light Frame: 1.2 mm (18 gauge).

Specifier Note: Select casing to conform to project requirements. Casing may require reference to other sections for more detail. Profile of casing may be required.

F. Frame Casings:

1. TA-08: Standard Steel with 1/4 inch (6 mm) reveal, corner alignment clips.
 - a. Material: [Cold-rolled steel to ASTM A366] [Electro-galvanized steel to ASTM A879].

Specifier Note: Specify corner rosettes if shown for TA-08 Standard Steel casing.

- b. Rosettes: [TA-21 floral design] [TA-22 Saturn design].
2. TA-30 Colonial Style Steel with 1/4 inch (6 mm) reveal, corner alignment clips.
 - a. Material: [Cold-rolled steel to ASTM A366] [Electro-galvanized steel to ASTM A879].

Specifier Note: Specify corner rosettes if shown for TA-30 Colonial Steel casing.

- b. Rosettes: [TA-33 floral design] [TA-34 Saturn design].
3. TA-23 Aluminum conforming to ASTM B221, with 1/4 inch (6 mm) reveal, corner alignment clips.
 - a. Finish: [Prefinished] [Clear anodized].
4. TA-28 Aluminum conforming to ASTM B221, with 1 3/4 inch (44 mm) full face profile, corner alignment clips.
 - a. Finish: [Prefinished] [Clear anodized].
5. TA-35 PVC (Cellular polyvinyl chloride) with 1/8 inch (6 mm) reveal.
6. [_____].

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Contract Conditions and Section 01 41 00 - Regulatory Requirements. Repetitive statements should be avoided.

G. Regulatory Requirements:

- a. In accordance with Section [01 41 00 - Regulatory Requirements].
- b. Fire-rated Frame Construction: Conform to ASTM E152, NFPA 252 and UL 10B and 10C.
- c. Installed Frame Assembly: Conform to NFPA 80.

H. Sustainability Characteristics:

- a. [_____].

I. Compatibility:

- a. Ensure components and materials are compatible with specified accessories and adjacent materials.

J. Fabrication:

Specifier Note: Edit the following Paragraphs to conform to project requirements.

1. Cut, notch and fabricate frames at manufacturer's facility. For fire-rated and exterior openings, provide kerf at stop for installation of smoke gasket or weatherstrip.
2. Provide minimum 14 gauge hinge reinforcement plate tapped for machine screws supplied with hinges. Mechanically attach hinge plate to hinge emboss on frame.
3. Casing Clips: Fabricate frames with factory applied, heat treated clips to prevent deflection in the clip upon application or removal of casing. Attachment clips may not be of same material as frame.
4. Provide notches and tabs or stops (or both) for positive alignment of frame parts at all corners.
5. Notch mullions to provide tight joints.
6. Provide manufacturer's standard mullion brackets for positive connection of frame and mullion parts.
7. Provide manufacturer's standard steel glass stop, factory cut to exact length. Provide a hole for installation screw within 2 inches of each end of stop piece at fire-rated glazed openings.
8. Provide insert channel full width of light for sidelight and borrowed light frames installed on finish floor. Provide full width head channel for ceiling height units.
9. Provide fixed type transom bars with same profiles as jamb and head.
10. Prepare frames for ASA 4 7/8 inch (124 mm) strikes, where required. Provide minimum 1/4 inch (6.35 mm) depth of threads in factory tapped screw holes.
11. Provide TA-46 smoke gasket on all prefinished, CK series frames. Install with factory mitered corners to provide a seal.
12. Provide corner alignment clips.

K. Finishes:

Specifier Note: Select finishes to conform to project requirements. Custom colors are available. Finish costs vary.

1. Steel, Colonial Steel and Galvanized Steel: [Polyurethane-based, 3-coat paint system] [Electrostatically-applied water-based paint system].
 - a. Standard Color(s): [Alumatone (SC108)] [Autumn Brown (SC102)] [Black (SC103)] [Browntone (SC101)] [Primer Electro Galvanized] [Stone Grey (SC106)] [Western White (SC107)].
 - b. Custom Color(s): Match frames to custom color as selected.
2. Stainless Steel: [#430 Bright (ES204)] [#4 Brushed 304 (ES206)].
3. Aluminum: [Polyester baked enamel, Alumatone (SC108)] [Clear anodized, AAMA 611 AA-M12C22A41, Class I

coating].

4. Brass: [Bright Solid Brass (ES201)] [Bright Plated Brass (ES202)].

2.03 ACCESSORIES

Specifier Note: Retain accessories required by project requirements.

- A. Frame Reinforcements for Site Installation: Manufacturer's standard reinforcements for hardware as indicated in Section 08 71 00, Door Hardware.
- B. Glass Stops: TA-14 removable rolled steel, shape, butted ends. Pre-punch and countersink for flathead tek screws. Provide stop with fastener location not more than 2 inches from end for all fire-rated glazed openings.

Specifier Note: Strike supplied with cylindrical lock cannot be used with standard frame because of unique strike location and screw piercing method.

- C. Adjustable strikes: Emboss frames for TA-1 strike for cylindrical lock. Provide TA-1 strike in finish compatible with hardware finish.

Specifier Note: Retain below if not specified in Door Hardware Section.

- D. Weatherstrip/Smoke Gasket: TA-46 (QDS500) 90 minute rated gasket for kerfed frames. Provide prefinished frames with factory installed TA-46. All pieces factory mitered to assure perfect corner alignment. Color to match frame.
- E. Silencers: TA-5 vinyl, clear stick-on type.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to door frame installation.
 1. Inform [Owner] [Architect] [Consultant] of unacceptable conditions immediately upon discovery.
 2. Proceed with installation only after unacceptable conditions have been remedied [and after receipt of written approval from [Owner] [Architect] [Consultant]].
 3. [_____].

Specifier Note: Specify actions required to prepare the surface, area or site for incorporation of the section's primary products. Describe requirements for exposure or removal of existing assemblies, components, products or materials.

3.02 INSTALLATION

- A. Coordinate installation of door frame in accordance with [01 73 19 - Installation].
- B. Coordinate frame work with work of other trades for proper time and sequence to avoid construction delays.
- C. Install frame in accordance with manufacturer's instructions.
- D. Install frame plumb and level.
- E. Accurately fit, align, securely fasten and install free from distortion or defects.

3.03 CLEANING

- A. Perform cleanup in accordance with Section [01 74 00 - Cleaning and Waste Management] and Section [01 74 13 - Progress Cleaning].
- B. Upon completion, remove surplus materials, rubbish, tools and equipment in accordance with Section [01 74 23 - Final Cleaning].

Specifier Note: Specify special measures needed to minimize waste, collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.

C. Waste Management:

1. Coordinate recycling of waste materials with Section [01 74 19 - Construction Waste Management and Disposal].
2. Collect recyclable waste and dispose of or recycle field-generated construction waste created during demolition, construction or final cleaning.
3. Remove recycling containers and bins from site.
4. [_____].

Specifier Note: Coordinate the following Article with Section 01 76 00 - Protecting Installed Construction.

3.04 PROTECTION

- A. Protect installed product from damage during construction in accordance with Section [01 76 00 - Protecting Installed Construction].
- B. Repair damage to adjacent materials caused by door frame installation.
- C. [_____].

Specifier Note: Specify attachments such as schedules, tables, illustrations or forms in this location if they are not incorporated directly within the specification text.

3.05 ATTACHMENTS

Specifier Note: Schedules are sometimes placed in the specifications rather than on the drawings. Include schedules that indicate item/element/product/equipment, location and other coordinating data.

- A. Schedules:
 1. [_____].

END OF SECTION