

08 12 17
Prefinished Steel Door Frames

Part 1 - GENERAL

1.01 Work Included

The work under this section shall include the furnishing of all items shown on the drawings and as specified, including but not limited to, the following:

1. Knocked down, site assembled pre-finished steel door frames
2. Knocked down, site assembled sidelight, borrowed light, and transom frames

1.02 Related Sections

- A. Section 01 30 00 - Coordination, Site meetings
- Section 08 11 13 - Hollow Metal Doors and Frames
- Section 08 14 00 - Interior Wood Doors
- Section 08 71 00 - Hardware
- Section 08 80 00 - Glazing

1.03 References

- A. ASTM A1008M - Standard for cold rolled steel material
- B. UBC 7-2-97, UBC 7-4-97 Positive Pressure Fire Test Certification.
- C. UL 10B Fire test of Door Assemblies and UL10C Standard for Positive Pressure Fire Tests of Door Assemblies
- D. NFPA 80 - Fire Doors and Windows (Latest Edition)
- E. NFPA-101 - Life Safety Codes (Latest Edition)
- F. ASTM D2197 - Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion.
- G. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
- H. ASTM D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
- I. ASTM D3361 - Standard Practice for Unfiltered Open-Flame Carbon-Arc exposures of Paint and Related Coatings.
- J. ASTM B117 - Standard test for salt spray testing

1.04 Submittals

- A. Section 01 33 23: Shop drawings, Product data, and samples
- B. Product Data: Indicate frame material, gauge, configuration and finishes.
- C. Shop Drawings: Indicate frame elevations, details of frame anchorage, reinforcements required, rough opening requirements, location of hardware embosses, and finishes. Detail each floor of the building separately.
- D. Samples: Submit [_5_] standard frame samples, illustrating factory finished frame colors.
- E. Manufacturer's Installation Instructions: Provide installation instructions for all products under this section.
- F. Manufacturer's Certificate of Warranty: Provide manufacturer's standard warranty certificate stating material is warranted for a period of one year from date of building occupancy

1.05 Quality Assurance

- A. Quality Standards
 - 1. Material free from defects in material and according to project specifications for pre-engineered opening systems
 - 2. Proven durability of factory finishes allowing for bending and shaping of material after finish is applied

- B. Fire Rated Frame Construction

- 1. Conform to ASTM E152, NFPA 252, UL 10B and 10C.

- C. Installed Frame Assembly: Conform to NFPA 80

- 1. Use only installers familiar with installation of pre-finished opening systems and applied casing frame installation

1.06 Delivery, Storage and Handling

- A. Transport, handle, store, and protect products in a dry area off the ground.
- B. Accept frames on site in manufacturer's box packaging with identification labels intact. Inspect for damage.
- C. Do not open individual boxes until installation is to begin.

Part 2 - PRODUCTS

2.01 Acceptable Manufacturers

A. Timely Industries, A Division of SDS Industries, Inc., 10241 Norris Avenue, Pacoima, CA, 91331-2292; Phone toll free: 800-247-6242; Fax: 818-492-3530. Web site: www.timelyframes.com.

B. Frames: Provide interior frames shown on drawings and door schedule.

C. Substitutions: Submit complete product data, cut sheets, shop drawings, and samples as appropriate for substitutions to conform to the intent of the design documents and these specifications.

2.02 Frames

A. Frame Material: Cold rolled steel, for interior frames in normal atmospheric exposures.

B. Frame Material: Electro galvanized steel for all frames used in the following locations:

1. Exterior Locations
2. Public and Private Restrooms
3. Areas subject to corrosive chemicals or high humidity

C. Frame Throat Opening: As shown on plan details to suit finished wall thickness.

D. Where shown, fire rated frames to have kerf formed into frame profile for installation of smoke gasket or weatherstrip material

E. Frame Profile - Unequal Rabbet profile, standard with manufacturer

1. "S" Series, 0.9 mm (20 gage) thick - office and patient room interior openings

2. "CK" Series, 1.2 mm (18 gage) thick, with kerf for door seal/gasket - fire rated

F. Side Light Frames: 1.2 mm (18 gage) Verify glass dimensions for fire rated sidelights and borrowed lights. Provide floor channel for bottom of full height sidelights

G. Casings

1. Provide steel formed to be applied to heat treated clips on frame face after frame is anchored to wall

2. Standard Steel - TA-8 with 6 mm (1/4 inch) reveal, on steel, stainless steel, and/or brass frames. Fit factory

assembled units with MiterGard corner alignment clips. Provide TA-21(Floral design) or TA-22 (Saturn design) corner rosettes (if requested).

2.03 Frame Reinforcement and Accessories

A. Provide reinforcements shipped loose to project site for hardware application

1. TA-10 - Regular arm closers, casing mounted coordinators
2. TA-10A - Same as TA-10 but used with TA-35 PVC Casing
3. TA-12 - Parallel arm closers, Rim Exit device strikes, other stop mounted surface hardware
4. TA-47 - For CK frame, Parallel arm closers, Rim Exit device strikes, other stop mounted surface hardware
5. TA-25 - Double acting spring hinges, continuous hinges, other surface mounted hardware on door rabbet or cased opening frame
6. Provide hinge reinforcement (TA-11) of 14 gage steel pierced to create depth of thread for hinge screws equal to or exceeding 7 gage steel.

B. Weatherstrip/Smoke Gasket: TA-46 90 minute rated gasket for kerfed frames. Provide for all CK Series frames with factory installed gasket. Provide manufacturer's standard colors to closely match frame color. (Custom colors not available on TA-46) Provide TA-46I gasket with intumescent material when using category B doors.

C. Silencers: TA-5 vinyl, clear stick-on type. Silencers not required on Kerfed frames or frames scheduled to receive stop mounted gasket or weatherstrip

D. Glass Stops: TA-14 removable rolled steel, shape, butted ends. Pre-punch and countersink for flat head tek screws. Provide stop with fastener location not more than 2" from end for all fire rated glazed openings.

E. Adjustable strikes: Emboss frames for TA-1 strike for cylindrical lock. Provide TA-1 strike in finish compatible with hardware finish. (ANSI 2-3/4" T strike supplied with cylindrical lock cannot be used with standard frame because of unique strike location and screw piercing method)

F. Prepare frames for ASA 4-7/8" strikes where required. Provide minimum ¼" depth of threads in factory tapped screw holes

H. Installation fasteners (Provided by others)

1. Interior Frames: #6 Drywall type length sufficient to penetrate studs or structure at least ½".

2. Exterior Frames: Drywall type, corrosion resistant coating, same as G.1 above

2.04 Fabrication

A. Openings for single swing, pair, borrowed light and sidelight frames to be pre-cut, notched and fabricated at the manufacturer's facility. For fire rated and exterior openings, provide kerf at stop for installation of smoke gasket or weatherstrip

B. Provide minimum 14 gage hinge reinforcement plate. Hinge reinforcement plate to be mechanically attached to hinge emboss on frame

C. Casing Clips: Fabricate frames with factory applied, heat treated clips to ensure no deflection in the clip upon application or removal of casing. Attachment clips may not be of same material as frame

D. Provide notches, tabs and/or stops for positive alignment of frame parts at all corners

E. Mullions to be notched as required to provide tight joints

F. Provide manufacturer's standard mullion brackets for positive connection of frame and mullion parts

G. Provide manufacturer's standard steel glass stop pre-cut to exact length.

H. Provide insert channel full width of borrowed lights installed on finish floor. Provide full width head channel for ceiling height units if required.

I. Provide adequate structural support (by others) for ceiling insert channel for ceiling height frames

J. Transoms bars fixed type with same profiles as jamb and head

K. Attach approved mylar label to each fire-rated frame indicating fire rating details

L. Primed frames to have 90 minute fire label embossed into frame in lieu of mylar label

M. Factory install TA-46 smoke gasket on all pre-finished, CK series frames. Install with factory mitered corners to ensure adequate seal and pleasing appearance

N. Provide Casing for hollow metal lead lined frames. Furnish with TA-18 casing attachment clips. Apply casing after frames are finished to match color of frames of this section

2.05 Finishing

A. Frame Units: Pre-finished with factory applied impact resistant, polyester baked enamel finish or optional electrostatic applied water based paint system

B. Frames for high humidity areas to be electro galvanized prior to pre-finishing. See 2.02.B for specific locations

C. Casing Finishes

1. Steel: Prefinished with factory applied impact resistant, polyester baked enamel finish.

2. Primer: Electro Galvanized steel with 1 coat of off white prime paint

D. Colors:

1. Premium Colors (Possible color matches. Submit samples for Architect's approval): Alumatone (SC108), or Stone Gray (SC106).

2. Designer Colors: Select from manufacturer's standard pre-matched custom colors. Submit color card and samples for Architect's approval.

3. Custom Colors: Color custom matched for project requirements. Submit samples for Architect's approval.

Part 3 - EXECUTION

3.01 Examination

A. Verify acceptability of existing conditions before starting work.

B. Verify that opening sizes and wall thicknesses are within specified tolerances. Verify that all finished walls are in plane to ensure proper door alignment.

3.02 Installation

- A. Install frames in accordance with manufacturer's requirements.
- B. Anchor frames with screws located at every casing clip or every 11" as shown on manufacturer's instructions. Field verify quantity and location of fasteners prior to installing casing.
- C. Install Pre-finished frames near end of the project after wall painting and wall coverings.
- D. Install frames using qualified installers familiar with installation of pre-finished drywall frames.
- E. Coordinate installation of glass and glazing in glazed units.
- F. Coordinate installation of frames with installation of hardware specified in Section 08 71 00 and doors in Sections 08 14 00 and 08 14 23.
- G. Touch-up blemishes on finished frames with factory prepared touch up paint.

END OF SECTION

