1. Section 081332   
   PREFINISHED STEEL DOOR FRAMES
   1. Part 1 - GENERAL
      1. Work Included
         1. 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 prefinished steel door frames
            2. Knocked down, site assembled sidelight, borrowed light, transom, and fullbound access door frames
            3. Knocked down, site assembled Double Egress frames
      2. References
         1. ASTM A653 – Standard for hot dipped galvanized steel material
         2. UBC 7-2-97, UBC 7-4-97 Positive Pressure Fire Test Certification.
         3. UL 10B Fire test of Door Assemblies and UL10C Standard for Positive Pressure Fire Tests of Door Assemblies
         4. NFPA 80 - Fire Doors and Windows (Latest Edition)
         5. NFPA-101 - Life Safety Codes (Latest Edition)
         6. ASTM D2197 - Standard Test Method for Adhesion of Organic Coatings by Scrape Adhesion.
         7. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
         8. ASTM D2794 - Standard Test Method for Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact).
         9. ASTM D3361 - Standard Practice for Unfiltered Open-Flame Carbon-Arc exposures of Paint and Related Coatings.
         10. ASTM B117 – Standard test for salt spray testing
      3. Submittals
         1. Product Data:  Indicate frame material, guage, configuration and finishes.
         2. 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.
         3. Samples:  Color chart illustrating factory finished frame colors.
         4. Manufacturer's Certificate of Warranty:  (See Section 01 78 36) Provide manufacturer’s standard warranty certificate stating material is warranted for a period of one year from date of building occupancy
      4. Quality Assurance
         1. 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
         2. Fire Rated Frame Construction
            1. Conform to ASTM E152, NFPA 252, UL 10B and 10C.
         3. Installed Frame Assembly:  Conform to NFPA 80
            1. Use only installers familiar with installation of prefinished opening systems and applied casing frame installation
      5. Delivery, Storage and Handling
         * 1. Transport, handle, store, and protect products in a dry area off the ground.
         1. Accept frames on site in manufacturer's box packaging with identification labels intact.  Inspect for damage.
         2. Do not open individual boxes until installation is to begin.
   2. Part 2 - PRODUCTS
      1. Acceptable Manufacturers
         1. 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.
         2. Frames:  Provide interior frames for project areas as shown on plans and door schedule.
      2. Frames
         1. Frame Material:  Hot dipped galvanized steel, for interior frames in normal atmospheric exposures.
         2. Frame Material:  Hot dipped galvanized steel for all frames used in the following locations:
            1. Public and Private Restrooms
            2. Areas subject to corrosive chemicals or high humidity
         3. Frame Throat Opening:  As shown on plan details to suit finished wall thickness.
         4. Where shown, fire rated frames to have kerf formed into frame profile for installation of smoke gasket or weatherstrip material
         5. Frame Profile - Unequal Rabbet profile, standard with manufacturer
            1. “C” Series, 1.2 mm (18 guage) thick
         6. Side Light Frames:  1.2 mm (18 guage) Verify glass dimensions for fire rated sidelights and borrowed lights
         7. Casings
            1. Provide TA-8 steel casings

Frame Reinforcement and Accessories

* + - 1. Provide reinforcements shipped loose to project site for hardware application
         1. TA-10  - Regular arm closers, casing mounted door guards and coordinators
         2. TA-12 - Parallel arm closers, Rim Exit device strikes, other stop mounted surface hardware
         3. TA-25 - Double acting spring hinges, continuous hinges, other surface mounted hardware on door rabbet or cased opening frame
         4. Provide hinge reinforcement (TA-11) of 14 guage steel pierced to create depth of thread for hinge screws equal to or exceeding 10 gauge steel.
         5. Provide cut-outs and reinforcement for mortised hardware – see section 08 71 00
      2. 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.  Select color:  Browntone, Black, Western White, Off White, Grey, Beige (cusstom colors not  available)
      3. Silencers:  TA-5 vinyl, clear stick-on type. Silencers not required on kerfed frames or frames scheduled to receive stop mounted gasket or weatherstrip
      4. Glass Stops: TA-14 removable rolled steel, shape, butted ends.  Pre-punch and countersink for flat head tek screws.
      5. Adjustable strikes:  Emboss frames for TA-1 strike for cylindrical lock.  Provide TA-1 strike in finish compatible with hardware finish.  (ANSI 2 ¾” T strike supplied with cylindrical lock cannot be used with standard frame because of unique strike location and screw piercing method)
      6. Prepare frames for ASA 4-7/8” strikes where required.  Provide minimum ¼” depth of threads in factory tapped screw holes

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
    1. Fabrication
       1. 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
       2. Provide hinge reinforcement (TA-11) of 14 guage steel pierced to create depth of thread for hinge screfws equal to or exceeding 7 guage steel.  Hinge plate to be mechanically attached to hinge emboss on frame
       3. 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
       4. Provide notches, tabs and/or stops for positive alignment of frame parts at all corners
       5. Mullions to be notched as required 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 pre-cut to exact length.  Fire rated glazed openings to have hole for installation screw within 2” of each end of stop piece
       8. Attach approved mylar label to each fire-rated frame indicating fire rating details
    2. Finishing
       1. Frame Units:  Prefinished with factory applied impact resistant, polyester baked enamel finish or optional electrostatic applied water based paint system
       2. Frames for high humidity areas to be electro galvanized. See 2.02.B for specific locations
       3. Casing Finishes
          1. Aluminum:  Prefinished with factory applied impact resistant, polyurethane baked enamel finish or Clear anodized for Alumatone (SC108) paint finished frames
          2. Primer:  Provide mill finish for field painting as shown

Colors:  1. Standard Colors:  Browntone (SC101)

* 1. Part 3 – EXECUTION
     1. Examination
        1. Verify acceptability of existing conditions before starting work.
        2. Verify that opening sizes and wall thicknesses are within specified tolerances. Verify that all finished walls are in plane to ensure proper door alignment.
     2. Installation
        1. Install frames in accordance with manufacturer’s requirements.
        2. 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.
        3. Install prefinished frames near end of the project after wall painting and wall coverings.
        4. Install frames using qualified installers familiar with installation of prefinished drywall frames.
        5. Coordinate installation of glass and glazing in glazed units.
        6. Coordinate installation of frames with installation of hardware specified in Section 08.71.00 and doors in Section 08.21.00.
        7. Touch-up blemishes on finished frames with factory prepared touch up paint.

1. END OF SECTION

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