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## SECTION 08220

### PLASTIC DOORS AND FRAMES

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Plastic Door Panels
- B. Plastic Door Frames
- C. Door Glazing
- D. Door Hardware

##### 1.2 RELATED SECTIONS

- A. Section 07900 - Joint Sealers: Perimeter sealant and backup materials.
- B. Section 08710 - Door Hardware; Hinges, door closers, and handles.
- C. Section 08800 - Glazing: Vision panels within doors.

##### 1.3 SUBMITTALS

- A. Submit under provisions of Section 01300
- B. Product Date: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Submit plan, section and elevations drawings as necessary to depict the actual construction on each unit specified and to depict proper attachment and installation techniques. Coordinate with those found on the contract drawings.
- D. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacture's available colors.
- E. Verification Samples: For each finish product specified, two samples representing actual product color, and patterns.

##### 1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: All primary specified in this section will be supplied by a single manufacturer with a minimum of ten (10) years experience.
- B. Installer Qualifications: All products listed in this section are to be installed by a single installer with a minimum of five (5) years demonstrated experience in installing products of the same type and scope as specified.
- C. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.

1. Finish areas designated by Architect.
2. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
3. Refinish mock-up area as required to produce acceptable work.

#### 1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of hazardous materials and materials contaminated by hazardous material, in accordance with requirements of local authorities having jurisdiction.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install product under environmental conditions outside manufacturer's absolute limits.

#### 1.7 WARRANTY

- A. At project closeout, provide to Owner or Owners Representative an executed copy of the manufacturer's standard limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.
  1. Duration: One (1) year

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer; Extrutech Plastics, Inc., which is located at: 5902 W. Custer St.; Manitowoc, WI 54220; Toll Free Tel: 888-818-0118; Tel 920-684-9650; Fax: 920-684-4344; Email: [info@epiplastics.com](mailto:info@epiplastics.com) Web; [www.epiplastics.com](http://www.epiplastics.com)
- B. Substitutions: Not Permitted
- C. Requests for substitutions will be considered in accordance with provisions of Sections 01600.

#### 2.2 DOOR PANEL

- A. Material: Rigid Polyvinyl Chloride (PVC).
- B. Panel Surface: Flat
  1. Panel Thickness: 1 3/4 inches ( 44.5 mm).
  2. Panel Width 24"- 36" (609.6mm - 914.4mm)
  3. Wall Thickness:
    - a. Internal Walls: 0.030 inches (0.8mm)
    - b. External Walls: 0.070 inches (1.8mm)
  4. Internal Chambers: Open, can be insulated, one inch (25mm) wide running height of panel. Reinforced sides, with 16 gauge galvanized steel.
  5. Nonporous
  6. Waterproof
  7. Corrosion proof
  8. Termite resistant.
  9. Color, Both sides: [Bright White], [Beige]
  10. Finish, both sides: Smooth, high gloss, reflective.
- C. Sweeps:
  1. Upper sweep: Double track 1/4" (6.4mm) Felt.

2. Lower sweep: 1 3/4 inch (44.5mm) adjustable double track with 1 inch (25mm) rubber sweep on each panel.
- D. Astragal:
1. Locking Astragal model 3498 locking spring bolt top/bottom with 3/8 inch (10mm) diameter and 1 inch (25mm) throw as manufactured.
- E. Window
1. Glazing: 1/2 inch (13mm) insulated tempered glass
  2. Glazing: 1/4" inch (6.4mm) acrylic sheeting
  3. Size: 16 x 16 inches (406mm x 406mm) with aluminum frame.
  4. Size: 20 x 24 inches (508mm x 610mm) with aluminum frame.
  5. Size: 7 x 30 inches (178mm x 762mm) with aluminum frame

## 2.3 DOOR JAMBS

- A. 4 9/16 inch Jambs:
1. Materials: Solid Cellular Polyvinyl Chloride (PVC), Color: White
  2. Dimensions: 4 9/16 inch depth by 1 3/16 width (116mm x30mm)
  3. Jamb: EX1001 - Standard 4 9/16" Jamb
  4. Jamb: EX1000 - Standard 4 9/16" Jamb with Male Dado
  5. Trim Board: B0350 - 31/2" x 5/8" (89mm x 16mm) Trim Board
  6. Brickmould: WM180 - Standard Brickmould
  7. Brickmould: WM180 - Kerfed Brickmould with Female Dado
  8. Brickmould: WM180 - Double Kerfed Brickmould with Female Dado
  9. Nailing Fin: EX7244 - EPI- N.F. Nailing Fin
  10. Weather-stripping: Q-Lon Seal Foam as manufactured by Schlegal
- B. 6 9/16 Inch Jambs:
1. Materials: Solid Cellular Polyvinyl Chloride (PVC), Color: White
  2. Dimensions: 6 9/16 inch depth by 1 3/16 width (116mm x30mm)
  3. Jamb: EX1000 - Standard Jamb with Male Dado
  4. Jamb Extension: EX1010 - Jamb Extension with Dado on Both Ends (Male / Female)
  5. Trim Board: B0350 - 31/2" x 5/8" (89mm x 16mm) Trim Board
  6. Brickmould: WM180 - Standard Brickmould
  7. Brickmould: WM180 - Kerfed Brickmould with Female Dado
  8. Brickmould: WM180 - Double Kerfed Brickmould with Female Dado
  9. Nailing Fin: EX7244 - EPI- N.F. Nailing Fin
  10. Weather-stripping: Q-Lon Seal Foam as manufactured by Schlegal

## 2.4 HARDWARE

- A. Hinges: 4 inch (102mm) .094 Thick , full mortise, 5 knuckle, 1/4" stainless steel pin and barrel hinges; Three per door panel.
- B. Handles: Prepared for Schlage AL Series or commercial grade 2, EZSET stainless steel knobs.
- C. Utility Latch: (Barn Latch) Prepared for 7/16" stainless steel formed rod and rod catch plate, Non-Locking.
- D. Door Closer: Prepared for Universal Reversible Door Closer, non-hold open 24"-36" interior/exterior, max door opening 180 deg, Aluminum finish, plastic cover, adjustable spring force, and latch speed.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.

- B. Install door plumb, level and square without warp, bow or rack.
- C. Install shims at each fastening location.
- D. Do not paint or otherwise finish door.

#### 3.4 CLEANING AND MAINTENANCE

- A. Clean with a mild detergent or soap scum remover.
- B. Where detergents do not work, low pressure washers with mild soap and a soft cloth may be used.
- C. Multi-purpose cleaners may be used, provided they are PVC compatible. Spot test material in an inconspicuous location prior to cleaning.
- D. Do not use abrasive cleaners.
- E. Repair minor damages to finish in accordance with manufacturer's instructions and as approved by Architect.
- F. Where damage cannot be repaired, removed and replaced damaged item in accordance with manufacturer's instructions.

#### 3.5 PROTECTION

- A. Protect installed products until completion of projects.
- B. Touch-up, repair or replace damaged products before substantial completion.

#### 3.6 DOOR SCHEDULE

- A. Door. \_\_\_\_\_.
- 1. Door Width 2/6 - 30 inches (762mm)
- 2. Door Width 2/8 - 32 inches (813mm)
- 3. Door Width 3/0 - 36 inches (914mm)
- 4. Door Width Double 2/8 - 64 inches (1626mm)
- 5. Door Width Double 3/0 - 72 inches (1829mm)
- 6. Door Height 6/8 - 80 inches (2032mm)
- 7. Door Height 7/0 - 84 inches (2134mm)
- 8. Handing: Left Hand
- 9. Handing: Right Hand
- 10. Handing: Left Hand Active / Right Hand Passive
- 11. Handing: Right Hand Active / Left Hand Passive
- 12. Jamb: 4 9/16" inch (116mm)
- 13. Jamb: 6 9/16" inch (167mm)
- 14. Glazing 1/4" inch Acrylic 16 inches by 16 inches (406mm x 406mm)
- 15. Glazing 1/4" inch Acrylic 20 inches by 24 inches (508mm x 610mm)
- 16. Glazing 1/4" inch Acrylic 7 inches by 30 inches (178mm x 762mm)
- 16. Glazing 1/2" inch Insulated Glass 16 inches by 16 inches (406mm x 406mm)
- 17. Glazing 1/2" inch Insulated Glass 20 inches by 24 inches (508mm x 610mm)
- 18. Glazing 1/2" inch Insulated Glass 7 inches by 30 inches (178mm x 762mm)

END OF SECTION