

SECTION 08100  
METAL DOORS AND FRAMES



JUN 19 2012

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Metal Doors and Frames
- B. Anchoring Devices
- C. Related Work Specified Elsewhere:
  - 1. Rough Carpentry: Section 06100
  - 2. Finish Carpentry: Section 06200
  - 3. Sealants and Caulking: Section 07951
  - 4. Finish Hardware: Section 08710
  - 5. Glazing: Section 08800
  - 6. Painting: Section 09900

1.02 QUALITY ASSURANCE

- A. Acoustical Qualities: where minimum sound transmission classifications are specified, the manufacturer's certification shall be based on tests in accordance with ASTM E-90.
- B. Insulation: where insulation property is specified the R value shall be derived based on ASHRAE methods based on door and core characteristics at 70 degrees F.
- C. Fire Rating: where a rating is specified, the doors and frames shall be tested in accordance with UL-10, ASTM E-152, NFPA 252 and UL-305 (when required). A label shall be affixed to all rated doors and frames as evidence of compliance.
- D. Air Leakage: all doors separating outdoor ambient conditions from interior spaces that are air conditioned shall be tested for ventilation. The infiltration may not be more than 11.0 cfm per linear foot of crack when tested at a pressure differential of 1.567 lb/sf (25 MPH wind) in accordance with ASTM E-283-73.

1.03 SUBMITTALS

- A. Shop drawings shall be submitted on all materials specified in this section in accordance with Section 1340.

1.04 STORAGE AND HANDLING

- A. All frames and doors shall be stored on the job so that they are protected against dampness, rusting and other damage.

Any rusted or damaged frames and doors will be subject to rejection.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

#### A. Openings not requiring labeled doors:

1. Doors 1-3/4" thick shall be flush on both faces with tops and bottoms closed flush with 16 gauge steel channels. Face sheets shall be prime grade No. 18 gauge roller leveled steel sheets securely laminated to a full honeycomb core. Door edges mechanically locked. Doors shall be die cut and reinforced for 4-1/2" x 4-1/2" hinges and locks as specified. Hinge and lock reinforcing shall be No. 10 gauge. Lock edge of doors shall be beveled 1/8" in 2 inches. Reinforce doors for surface bolts when bolts are scheduled.

#### B. Openings requiring labeled doors:

1. Doors shall be Steelcraft "L" Series, size per schedule, or equal. Doors must carry label certifying the rating as called for on the drawings.

#### C. Frames:

1. Frames for standard doors shall be fabricated with 16 gauge steel, with 2" faces and 1/2" integral stops. Head corners shall be neatly mitered and welded continuously. Frames shall be mortised for 4-1/2" x 4-1/2" hinges and die cut for specified lock strikes. Dust boxes shall be provided for hinge and lock reinforcement. Provide three (3) anchors at each jamb of type required for wall construction involved. Provide two (2) silencers for each frame.
2. Frames for labeled doors shall be of the depth shown of 16 gauge steel, with 2" face. Frames shall be constructed to meet requirements of the Underwriters' Laboratories and shall be so labeled. Frames shall be mortised and reinforced with lock strikes and shall have dust covers. Provide three (3) door silencers per frame. Frames shall have an Underwriters' Laboratories label attached.
3. Frames for fixed windows shall be of the depth shown on the details of 16 gauge steel with 2" faces and 1/2" integral stops. All corners shall be neatly mitered and welded continuous. Provide 3 anchors as required for each jamb.

- #### D. Louvers: Manufacturer's standard sight-proof design, painted steel, minimum 65% free area, exterior side non-removable.

- E. Glazing Beads: Steel, with a maximum projection of 1/16" from door face, neatly capped and mitered at corners, exterior side fixed, interior removable snap-type, provided with all glazed styles. Provide steel bead for labeled doors.

## 2.02 FABRICATION

- A. Interior frames shall be bonderized and prime coated with a neutral color primer of good quality. Toilet, shower room and exterior door frames shall be galvanized with a minimum of 12.5 oz. per square feet of zinc coating.

## PART 3 - EXECUTION

### 3.01 INSTALLATION

- A. Work shall be performed in conformance with good trade practice, recommendations of manufacturer and these specifications, unless specifically indicated otherwise on the drawings:
  1. Protect materials against dampness and other damage during and after installation.
  2. Fit doors plumb with 1/8" clearance at head and jambs and 1/8" clearance a threshold, also doors shall clear floor slab by 3/4". Adjust hardware so doors work properly. Use screwdriver to drive screws. Leave doors clean, smooth and ready for finishing.
  3. Install all metal grilles supplied under Division 15 in all required doors including trim.

END OF SECTION



SECTION 08211  
PRE-HUNG WOOD DOORS

JUN 19 2012

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Wood Doors
- B. Preparation of wood doors and installation of metal grilles supplied under Division 15.
- C. Anchoring Devices
- D. Related Work Specified Elsewhere:
  - 1. Rough Carpentry: Section 06100
  - 2. Finish Carpentry: Section 06200
  - 3. Sealants & Caulking: Section 07951
  - 4. Finish Hardware: Section 08710
  - 5. Glazing: Section 08801
  - 6. Painting: Section 09900
  - 7. General Requirements for Mechanical: Section 15010

1.02 QUALITY ASSURANCE

- A. All doors shall meet or exceed quality certification of the National Woodwork Manufacturing Association and meet warp and twist requirements of CS 171.

1.03 SUBMITTALS

- A. Shop drawings shall be submitted on all materials specified in this section in accordance with Division Zero.

1.04 STORAGE AND HANDLING

- A. All doors shall be stored on the job so that they are protected against dampness, warping and other damage. Any warped or damaged will be subject to rejection.

1.05 GUARANTEE

- A. All doors shall carry a one year guarantee by NWMA.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Doors not requiring a label shall conform to the following:
  - 1. Hinged interior wood doors shall be Paint grade, 6 panel doors, prehung, 1- 3/4" thick, and shall be

guaranteed in accordance with NWMA standards for the life of the original installation.

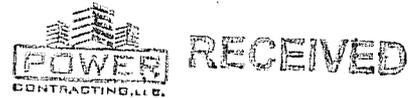
### PART 3 - EXECUTION

#### 3.01 INSTALLATION

- A. Work shall be performed in conformance with good trade practice, recommendations of manufacturer and these specifications, unless specifically indicated otherwise on the drawings:
1. Protect materials against dampness and other damage during and after installation.
  2. Fit doors plumb with 1/8" clearance at head and jambs and 1/8" clearance at threshold, also doors shall clear floor slab by 3/4". Adjust hardware so doors work properly. Use screwdriver to drive screws. Leave doors clean, smooth and ready for finishing.
  3. Install all metal grilles supplied under Division 15 in all required doors including trim.

END OF SECTION

SECTION 08331  
COILING DOORS



PART 1 – GENERAL

1.01 DESCRIPTION

- A. Chain Operated Overhead Coiling doors, tracks and hardware.
- B. Anchoring devices.
- C. Related Work Specified Elsewhere:
  - 1. Cast in Place Concrete: Section 03300
  - 2. Unit Masonry: Section 04200
  - 3. Rough Carpentry: Section 06100
  - 4. Finish Carpentry: Section 06200
  - 5. Sealants and Caulking: Section 07951

1.02 SUBMITTALS

- A. Shop Drawings shall be submitted on all materials specified in this section in accordance with Section 1340.

1.03 STORAGE AND HANDLING

- A. All doors shall be stored on the job so that they are protected against dampness, rusting and other damage. Any rusted or damaged door will be subject to rejection.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Coiling steel doors: shall be of insulated steel slat type, face of wall mounting, chain operated, size and location as shown on the drawings, Series 625 as manufactured by Overhead Door Corporation.
  - 1. Curtain: shall be interlocking, roll-formed, fully foamed in place, insulated, flat profile, type F-2651. The front and back slats fabricated from min. 24 gauge Galv. Steel. Endlocks attached to each end to prevent lateral movement.
  - 2. Counterbalance: helical torsion springs designed for 20,000 cycles, adjustment by adjusting tension wheel, deflection not to exceed .03 inch per foot of opening width.

3. Coil Brackets: to be of high-grade iron or precision formed steel plate designed to house ends of the coils.
4. Hoods: the coil to be housed with a galv. Sheet metal hood, minimum 24 gauge.
5. Guides: built of structural steel angles to form a slot of sufficient depth to retain curtain in guides, against heavy wind pressure; vinyl weather stripped; wind lock bars.
6. Gears: to be of high-grade gray iron, cast teeth machine-molded from machine-cut patterns.
7. Provide slide bars with padlock.

## PART 3 – EXECUTION

### 3.01 INSTALLATION

- A. Install doors plumb and true and anchor securely.

END OF SECTION

SECTION 08400  
ENTRANCES AND STOREFRONTS



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PART 1 - GENERAL

1.01 DESCRIPTION

- A. Customized aluminum entrance doors and storefront frames.
- B. Anchoring devices.
- C. Related Work Specifications Elsewhere:
  - 1. Rough Carpentry: Section 06100
  - 2. Sealants and Caulking: Section 07951
  - 3. Finish Hardware: Section 08710
  - 4. Glazing: Section 08800

1.02 QUALITY ASSURANCE

- A. All aluminum sections shall be extruded from 6063-T5 aluminum alloy (A.S.T.M. B221-54T alloy GA 10A-T5).
- B. Store Front Systems shall be designed to meet or exceed the requirements of the following:
  - 1. Florida Building Code- Current Edition
    - a. Section on- "Wind Loads"
    - b. Section on- "Winds Loads- Vertical Glass"
    - c. Section on- "Impact Resistance"
  - 2. ASCE 7-98
    - a. Section on \_"Wind Loads"
  - 3. Florida Energy Efficiency Code- 2002
    - a. Section 401.1.D (zone 4)- Air Infiltration
    - b. Section 406.1 (table 4-2) "Air Leakage for Fenestration + Doors".

1.03 SUBMITTALS

- A. Shop drawings shall be submitted in accordance with Section 01300.
- B. Samples of Extrusions and Glass

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturer: PPG or approved equal

- B. Framing members shall be extruded aluminum sections not less than .125 inch in thickness. Shape, size and design as shown on drawings.
- C. Bolts, screws, and miscellaneous fasteners shall be stainless steel, Class 304 and 305.
- D. Kynar Finish- satin aluminum

PART 3 - EXECUTION

3.01 INSTALLATION

- A. All items of work shall be set plumb, square, level and their proper elevation and place and located in proper alignment with all other work. Units shall be securely anchored and ready for operation in every respect. Joints between metal and masonry shall be fully sealed as specified in section for caulking, sealing and dampproofing.
- B. Where aluminum contacts other materials protect from galvanic action.

3.02 CLEANING

- A. All aluminum members shall be cleaned following the procedure recommended by the manufacturer, including washing with mineral spirits, followed by washing with mild soap and water. No abrasive or caustic cleaning agents shall be used.

END OF SECTION



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SECTION 08520  
ALUMINUM WINDOWS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Aluminum single hung windows.
- B. Mullions
- C. Related Work Specified Elsewhere:
  - 1. Masonry: Section 04200
  - 2. Rough Carpentry: Section 06100
  - 3. Sealants & Caulking: Section 07951
  - 4. Glazing: Section 08800

1.02 QUALITY ASSURANCE

- A. Aluminum windows shall meet or exceed the requirements of the following:
  - 1. Florida Building Code- 2007 Edition
    - a. Section 1606-"Wind Loads"
    - b. Section 2405.3- "wind Loads-Vertical Glass"
  - 2. ASCE-7-99
    - a. Section 6- "Wind Loads"
      - 1. the wind loading for this project is 130 MPH, exposure "B"
  - 3. Florida Energy Efficiency Code-1997.
    - a. Section 401.1.D (Zone 4) "Air Infiltration"
    - b. Section 406.1 (Table 4-2) "Air Leakage for Fenestration + Doors."

1.03 SUBMITTALS

- A. Submit shop and setting drawings for approval in accordance with Section 1340. The following list represents the minimum requirements:
  - 1. Manufacturer's Installation Instructions
  - 2. Engineer verified calculations for wind and impact loads.
  - 3. Performance data for wind + water infiltration.
  - 4. Proposed fasteners and spacing
  - 5. Proposed caulking and sealant materials
  - 6. Shop drawings
  - 7. Glass samples
  - 8. Color/finish samples
  - 9. Hardware samples
  - 10. Laboratory certification reports

PART 2 - PRODUCTS

## 2.01 MANUFACTURE

- A. Aluminum windows shall be furnished with all necessary hardware, glazing beads and weather-seals.
- B. Construction: aluminum shall be extruded alloy 6063-T5, with nominal wall thickness of .062 or greater. Units shall be balanced in accordance with appropriate American National Standards Institutes Specification. Sash and vents shall be equipped with operators and locking device to lock sash in closed position.
- C. Weatherstripping: sash and vents shall weatherseal at the perimeter with fin barrier pile and vinyl dual durometer compression weatherstrip in frame extrusion.
- D. Screens: screen cloth shall be 18/16 mesh, and rewirable with removable vinyl spine. Screen frame shall be rolled aluminum section.
- E. Finish: ESP finish aluminum, color to be selected.
- F. Glazing: windows shall be factory glazed with pressure sensitive glazing tape and rigid glazing beads. All units shall be inside glazed.

## PART 3 - EXECUTION

### 3.01 ERECTION

- A. Units shall be erected plumb level, true to plane and secured in accordance with detailed shop drawings.

### 3.02 ADJUSTMENT AND CLEANING

- A. After windows are installed they shall be adjusted so that each sash will operate smoothly without binding. Balances shall be adjusted so that sash will operate properly.
- B. All windows including glass shall be properly cleaned with mild soap and water. No caustic cleaning agent will be allowed.

END OF SECTION

SECTION 08800  
GLAZING



JUN 19 2012

PART 1 - GENERAL

1.01 DESCRIPTION

- A. Glass and Glazing
- B. Glazing Sealants and Accessories
- C. Related Work Specified Elsewhere:
  - 1. Entrances and Storefronts: Section 08400
  - 2. Aluminum Windows: Section 08520

1.02 QUALITY ASSURANCE

- A. All material shall meet referenced Federal Specifications and ASTM Standards.
- B. Tempered glass shall be permanently identified with manufacturer's name and the words "fully tempered".
- C. Glass shall meet the requirements for Wind Loading and Impact Resistance described in the Florida Building Code.

1.03 SUBMITTALS

- A. Furnish to Architect affidavits, executed in triplicate, certifying all materials comply with the requirements of these specifications.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Tinted glass shall be color Grey, float GLS. tempered where indicated on the drawing. Clear used where called for on schedule.
- B. Minimum Glass thermal properties:
  - 1. Reflectance= .35
  - 2. Shading Coefficient= .50.
- C. Glazing sealant shall be G. E. Silglaze meeting Federal Specifications TT-S-001543.
- D. Glazing tape shall be a Polyvinyl Chloride Foam Tape.
- E. Glazing accessories such as points, setting blocks, shims, stop beads, angles, wire spring clips shall be standard

commercial products of the type recommended by the glass manufacturer and approved by the Architect.

- F. Wired glass shall be clear, cross weld polished wired.
- G. Fire rated glass shall be clear, and installed in frames carrying the appropriate fire rating. Size of openings shall be as shown on drawings and permitted in local code.

### PART 3 - EXECUTION

#### 3.01 INSPECTION

- A. Inspect all frames to be glazed before starting work. If any corrections are required, notify Architect in writing, and start work only after the frames are in proper condition. Wood and plain steel openings and stop beads shall be primed and dry before glazing.

#### 3.02 PREPARATION

- A. All glazing shall be done by experienced workmen in a first-class workmanship like manner. Except where special settings are shown or specified, all glazing shall be done to conform to recommendations in "Glazing Manual" issued by Flat Glass Jobbers Assoc., and the following:
  1. Glazing work shall be done only when the temperature is above 49 degrees.
  2. Surfaces to be glazed and glass shall be thoroughly clean and dry at the time glazing is done.

#### 3.03 INSTALLATION

- A. Set all glass in glazing tape and bed of sealant where required. See details on drawings.
- B. Install buttons or setting blocks under lower edge of large lights of glass, 4' x 4' size and larger.
- C. All glass shall be cut and edges finished according to manufacturer's specifications for type of glass and area of installation.
- D. All glass edges and joint surfaces must be free of dirt, cutting oil, grease, and other contaminants prior to silicone application.
- E. Tempered glass shall be installed with tong marks at the bottom of the opening to be glazed.

#### 3.04 CLEANING

- A. Upon completion of the installation, the glass shall be cleaned in accordance with the glass manufacturer's instructions.

END OF SECTION