

**World Plaza
Relocalización de Compactadora de Basura**

DIVISION - 8 DOORS AND WINDOWS

SECTION - 08 10 00 METAL DOORS AND FRAMES

PART 1- GENERAL

1.1 DESCRIPTION

- a. The work under this section shall be performed in accordance with the General Conditions of the Contract, which are made a part hereof by reference.

1.2 SCOPE OF THE WORK

- a. Includes all hollow metal doors and frames as shown on drawings and specified herein, including, but not necessarily limited to, the following:
 1. Hollow metal doors.
 2. Combination bucks and frames.
 3. Providing reinforcement, cutouts, sinkages, as required for all finish hardware to be attached to the work included thereto.
 4. Sealant around steel frames (See Section 07 95 10).
 5. All necessary items required for the work included herein, such as reinforcing and supporting members, anchors, etc.
 6. Installation of finish hardware as furnished by Section 08 70 00 "Hardware and Specialties".

1.3 SHOP DRAWINGS

- a. Shop drawings showing thickness of metal, details of construction, profile of moldings, connections to other work, fastenings, anchors, and reinforcing for hardware, door handing shall be submitted to the Architect for approval.

1.4 DELIVERY AND STORAGE

- a. Doors and frames shall be properly protected against damage during shipment and handling at job. Deliver all frames when and as directed to designated locations at job site. Store in upright position on wood sills in manner which will prevent rust and injury.

PART 2- PRODUCTS

2.1 GENERAL

- a. All shapes shall be formed, rolled and formed, or cold drawn with contours with arises as true and sharp as can be reduced in the thickness of metal required. All

construction shall be welded, strong, rigid, neat in appearance and free from defects. Manufacturer shall drill, fit and tap for all hardware as necessary.

- b. Tops and bottoms of doors shall be closed with not less than 16 gauge channels. Tops of doors shall be completely closed.
- c. Doors shall be furnished with formed glazing strips of the snap-in type, to permit selection of secure side in the field. (For glazing see Section 08 80 00).
- d. For bucks and frames all edges of flanges shall be turned to form plaster keys, where plasters occurs, and to form retainers for adjustable anchors.
- e. Anchors frames shall be provided with a minimum of three wall anchors per jamb as required for the adjoining wall construction, ceiling strut anchors as required by the drawings, and anchors for attachments of frame to the floor. Anchors shall be of not less than 18 gage steel.

2.2 FINISH

- a. All metal surfaces (inside and out) shall be cleaned, electrogalvanized and coated with an oven-dried shop coat of zinc chromate primer. Surfaces inaccessible after fabrication shall be painted prior to fabrication. Evidence on door which indicates that protective paint film has been broken during fabrication, either by bending, welding, or other causes, shall be cause for rejection. After installation, all scratches or imperfections shall be filled and reprimand.
- b. Doors and frames shall be finished in accordance with Section 09900 of these specifications. Color and gloss of paint shall be selected by the Architect.

PART 3- EXECUTION

3.1 APPLICATION

- a. Steel shall be stretcher leveled pickled, soft annealed, cold-rolled, open hearth steel, free from scale, buckling, pits or other defects.
- b. Contractor shall furnish and install steel doors and frames as manufactured by Trujillo Alto Metal Corp., Trujillo Alto, PR or approved equal in all openings except as otherwise shown on drawings and/or specifications.
- c. All doors shall be fabricated from two (2) sheets of 18 gauge (interior doors) or 16 gauge (exterior doors) electrogalvanized steel series TA-102. Doors shall be factory primed with zinc-chromate primer.
- d. All door frames except as otherwise shown on drawings shall be manufactured of 16 gauge (interior doors) or 14 gauge (exterior doors) electrogalvanized steel. Frames shall be factory primed with zinc-chromate primer. Knockdown frames are not acceptable where doors are to be mounted in masonry opening.

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3.3 INTALLATION

- a. Frames shall be anchored to concrete floors with powder actuated bolts.
- b. Install frames plumb rigid and in true alignment. Fasten frames to floor and brace as necessary to maintain in position.
- c. Install hardware specified in Section 08700 for hollow metal doors. Adjust hardware to operate freely and latch or lock securely.

3.4 CAULKING

- a. All frames shall be caulked as specified under Section 07 95 10 of these specifications.

END OF SECTION