

SECTION 10551

MAIL CHUTES

PART GENERAL

SECTION INCLUDES

Mail chutes.

RELATED SECTIONS

Section 03300 - Cast-In-Place Concrete.

Section 07840 - Firestopping.

Section 09260 - Gypsum Board Systems.

Section 09900 - Paints and Coatings.

Section 15300 - Fire Protection.

Section 15810 - Ducts.

REFERENCES

ASTM A 36/A 36M - Standard Specification for Carbon Structural Steel.

ASTM A 463/A 463M - Standard Specification for Steel Sheet, Aluminum-Coated, By the Hot-dip Process.

ASTM A 653/A 653M - Standard Specification for Steel Sheets, Zinc-coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.

ASTM A 666 - Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.

UL - Underwriters Laboratory, Inc.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Manufacturer's descriptive literature for products specified in this section.

Shop Drawings: Indicate locations, vertical construction and anchorage details, dimensions, rough openings required, size and tolerances of floor openings.

Quality Assurance Submittals: Manufacturer's printed installation instructions for products specified in this section.

Closeout Submittals:

Operation and maintenance data for maintenance of system, including sight-exposed finishes and operating hardware.

Warranty documents: Issued and executed by manufacturer of mail chutes, bearing Owner's name.

QUALITY ASSURANCE

Manufacturer Qualifications: Minimum five (5) years documented experience producing products specified in this section.

Installer Qualifications: Minimum three (3) years documented experience installing air-handling sheet metal ducts.

Pre-installation Meetings:

Convene at job site seven (7) calendar days prior to scheduled beginning of construction activities of this section to review requirements of this section.

Require attendance by representatives of the following:

Installer of this section.

Other entities directly affecting, or affected by, construction activities of this section.

Notify Architect four (4) calendar days in advance of scheduled meeting date.

SEQUENCING

Ensure that openings in horizontal slabs are correctly located, aligned and sized for mail chutes.

Ensure that fire protection piping is correctly located and sized for connection to sprinkler heads mounted in mail chutes.

Sequence construction activities of this section to prevent cutting of adjacent materials, including drywall system.

Sequence construction activities of related sections to ensure that closure walls around chute are erected only after construction activities of this section are completed.

WARRANTY

Manufacturer's Warranty: Supply mail chute manufacturer's standard warranty against defects in product workmanship and materials.

PART PRODUCTS

MANUFACTURERS

Acceptable Manufacturer: Valiant Products, Inc.; 939 West Quincy Street, P.O. Box 405, Lakeland FL 33802; Telephone (800) 659-1797, FAX (941) 683-9749.

Substitutions: Not permitted.

MANUFACTURED UNITS

Mail and Package Chute:

Acceptable Product: Valiant Products, Inc., Model P-38.

Components:

Chute: Fabricated of aluminum-coated steel sheet conforming to ASTM A 463; minimum 14 gage sheet thickness; 18 inches by 18 inches cross-section by height required for indicated number of floors and floor-to-floor dimensions, with number and locations of openings for indicated number of floors and floor-to-floor dimensions.

Intake Units: Doors and frames fabricated of stainless steel sheet conforming to ASTM A 666, minimum 22 gage sheet thickness; door opening 12 inches wide by 15 inches high, UL B Label fire rating, bottom-hinged, manual-opening, self-closing.

Horizontal Discharge Door: Fabricated of galvanized steel sheet conforming to ASTM A 653/A 653M, minimum G90/Z275 coating, minimum 12 gage sheet thickness, with 1-1/2 inches by 1-1/2 inches galvanized steel angle reinforcement; spring-loaded hinge; UL-approved 165 degrees F fusible link hold-open device.

Package Slow-Down: Neoprene, 1 inch thick; attached to mail-container side of horizontal discharge door.

Sprinkler Head: Brass I.P.S. sprinkler head with 1/2 inch diameter pipe connection, automatically activated at 165 degrees F; located above top intake unit and at intake units at alternating floors below.

Chute Supports: Fabricated of 1-1/2 inches by 1-1/2 inches steel angle conforming to ASTM A 36/A 36M, with one coat factory-applied primer.

Concrete Anchors: Type recommended by chute manufacturer.

FABRICATION

Mail and Package Chute:

Factory-assemble to maximum extent possible, after considering shipping and installation limitations.

Weld or lock-seam joints not required to be open for shipping or assembling chute sections in field.

Fabricate chute sections to flash into section below to form smooth intersections; projecting bolts, clips, or other items not permitted.

Form throat in chute wall for each indicated opening intake door.

Fabricate and position support frames for correct intake levels, in accordance with approved shop drawings; provide expansion joint between successive support frames.

Intake doors: Bolt in place on throats formed in chute.

PART EXECUTION

EXAMINATION

Verification of Conditions:

Openings in horizontal slabs are correctly located, aligned and sized for mail chutes.

Fire protection piping is correctly located and sized for connection to sprinkler heads mounted in mail chutes.

Installer's Examination:

Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if such conditions are unacceptable.

Transmit two copies of installer's report to Architect within 24 hours of receipt.

Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.

Beginning construction activities of this section indicates installer's acceptance of conditions.

INSTALLATION

Forming of slab openings is specified in Section 03300.

Installation of firestopping materials is specified in Section 07840.

Installation of mail and package chute enclosure is specified in Section

09260.

Field finishing of sight-exposed aluminum-coated metal surfaces is specified in Section 09900.

Connection of sprinkler heads to fire protection piping is specified in Section 15300.

Install mail and package chute components in accordance with shop drawings and manufacturer's printed installation instructions; align to specified plumb and level tolerances, and anchor in accordance with requirements.

ADJUSTING

Adjust intake unit and discharge doors to operate correctly.

PROTECTION OF INSTALLED PRODUCTS

Protect stainless steel finishes from damage by subsequent construction activities.

END OF SECTION