

SECTION 11175

TRASH CHUTE

This section is based on a system produced by:

Midland Chutes
9555 W. Ainslie Street
Chicago, IL 60176
Ph 847-678-4007
Fx 847-671-3083

Part 1 GENERAL

1.1 RELATED DOCUMENTS

- A. The general provisions of the contract, including General and Supplementary Conditions and Division 1, General Requirements, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK

- A. Work Included: Furnish and install where shown on plans 24" diameter trash chute as manufactured by Midland Chutes, as specified below.

1.3 SUBMITTALS

- A. Catalog Cuts: Before the trash chute is delivered to the job site, submit catalog cuts to the Architect in accordance with these specifications, showing all details of installation and assembly and all requirements for work by other trades.
- B. Product Data: Manufacturer's product specifications, standard details and recommendations for project conditions; indicate selected sizes and installation details specific to the project.
- C. Shop Drawings:
 - 1. Plans: Scale 1/4 inch to 1 foot; indicate locations, dimensions, and required associated construction activities.
 - 2. Elevations/Sections: Scale 1/4 inch to 1 foot; indicate locations, dimensions, and required associated required construction activities.
 - 3. Details: Scale 1/4 inch to 1 foot; indicate:
 - a. Shop drawings specific to project conditions
 - b. Interface with adjacent construction
 - c. Dimensions and tolerances
 - d. Products required for installation of the trash chute, but not supplied by trash chute manufacturer.
- D. Quality Assurance/Control Submittals:
 - 1: Contractor's Certification that:
 - a. Products of this section are manufactured by Midland Chutes.
 - b. Manufacturer's certification that installer of manufacturer's product is approved.
 - c. Applicable standards: National Fire Protection Association (NFPA.82.1999), standards as referenced herein.

- E. Close-out Submittals:
 - 1. Operation and Maintenance Data.
 - 2. Warranty Documents: Issued and executed by the manufacturer and installer of the system.

1.5 QUALITY ASSURANCE

- A. Qualifications:
 - 1. Manufacturer: Minimum five (5) years-documented experience producing products specified in this section.
 - 2. Installer: Approved by the Manufacture, and having a minimum of five (5) years experience.
- B. Pre-Installation Meetings:
 - 1. Convene at job site a minimum of seven (7) calendar days prior to scheduled beginning of construction activities of this section to review requirements of this section.
 - 2. Require attendance by representatives of the following:
 - a. Trash chute manufacturer or designated representative
 - b. Installer of this section
 - c. Other entities directly affecting, or affected by, construction activities of this section.
 - d. Notify Architect four (4) calendar days in advance of scheduled meeting date.

1.6 RELATED WORK BY OTHERS SPECIFIED ELSEWHERE

- A. The following work is excluded from the scope of work in this section 11175 and is included in other divisions of the specifications for inclusion in the scope of work of others.
 - 1. Flashing at the roof
 - 2. Water supply and valves to flushing and fire sprinkler heads
 - 3. Switch assembly, conduit and/or wiring to solenoid valve for the disinfecting and sanitation unit located behind a plumbing access door directly above the highest intake door.
 - 4. Installation of the plumbing access door provided under this section is to be by the forces erecting the shaft enclosure walls.

1.7 WARRANTY

- A. Manufacturer's warranty: Furnish manufacturer's standard one (1) year warranty from date of temporary certificate of occupancy or similar, locally mandated permission to use the project common areas for their intended use. Warranty shall apply to defects in product workmanship and materials.

Part 2 PRODUCTS

2.1 MANUFACTURERS

- A. Product must be manufactured in the United States of America
- B. Manufacturer: Midland Chutes, 9555 W. Ainslie Street, Chicago, IL 60176
Telephone: (847) 678-4007.
- C. Substitutions: Not permitted.
- D. Components:
 - 1. The chute shall be 24" diameter of U.S. #16 gauge aluminized steel.
 - 2. Intakes Door: Stainless steel, 15 inches wide x 18 inches high, bottom hinged, hand operated self-closing positive latching doors bearing 1½ hour, Underwriters Laboratories "B" Label designation, with stainless steel trim in a UL[®] approved, "B" Label, 1½ hour assembly.
 - 3. Discharge: Midland discharge rolling steel door with 165°F. fusible link hold open on an inclined steel track at the bottom of the chute to close automatically when the ambient temperature reaches 165°F. as required by city or state building and/or fire codes.
 - 4. Vent: Chute shall extend full diameter through roof to metal top vent cap 4'-0" above roof level with counter flashing and insect screen. A roof curb (40"x 40" x minimum of 8" high) is required for flat roof conditions and is to be provided by others.
 - 5. Accessories: ¾ inch IPS flushing spray head and 1/2 inch sprinkler head above highest intake. Additional 1/2-inch sprinkler heads at every second intake (counting from the top) or as required by local code.
 - 6. Provide Disinfecting & Sanitizing unit for installation in line to the flushing spray head. Connection to flushing spray head, back flow prevention valve and electric control switch by others.
 - 7. Provide 15 inches wide x 15 inches high right side hinged, hand operated, self closing, positive latching, and UL 1 1/2-hour. "B" labeled, stainless steel plumbing access door having stainless steel door trim for installation by forces erecting enclosing shaft wall. Door for access to disinfecting & sanitizing unit above the highest intake door of the chute.
 - 8. Offsets (bends) in the chute, if required, shall be made the same diameter as the chute of #16 US gauge aluminized steel and have an additional layer of # 13 US gauge aluminized steel reinforcing the impact area. Offsets are not to deviate more than 15° off the vertical axis of the chute.
 - 9. Provide manufacturer's recommended sound coat vibration dampening compound to the exterior of the chute only. Include Mason Industries Super W sound isolator pads at each floor support frame.
 - 10. Sprinkler System: Chute shall be protected internally by automatic sprinklers. This requires a sprinkler at or above the top intake door of the chute, and in addition, a sprinkler shall be installed within the chute at alternate floor levels in building over two stories in height with mandatory sprinkler located at the lowest service level.

2.2 FABRICATION

- A. The trash chute shall be fully factory assembled, unless otherwise specified, and all joints, except those required to separate the sections for shipment and installation shall be welded or lock-seamed tight. The floor intake doors shall be bolted in place on throats formed into the chute. All chute sections shall flash inside the sections below and there shall be no bolts, clips, or other projections inside the chute to snag the flow of material. Pre-positioned support frames shall assure proper intake levels and there shall be an expansion joint in the chute between all support joints. Discharge hoppers and offsets, where required, shall be reinforced and separately supported in the impact area.

Part 3 EXECUTIONS

3.1 EXAMINATION

- A. Verification of conditions:
 - 1. Area in which system is to be located is correct size and location, and is prepared for installation of trash chute and components.
- B. Installer's examination:
 - 1. Have installer of this section examine conditions under which construction activities of this section are to be performed, then submit written notification if conditions under which construction activities of this section are to be performed are unacceptable.
 - 2. Beginning construction activities of this section before unacceptable conditions have been corrected is prohibited.
 - 3. General Contractor shall verify and record chute alignment with installer immediately following installation.

3.2 INSTALLATION

- A. Install trash chute in accordance with shop drawings and manufacturer's printed installation instructions.

3.3 DEMONSTRATION

- A. Arrange demonstration of system operation, conducted by manufacturer's representative, to Owner's maintenance personnel.

* END OF SECTION *