

SECTION 149100

WASTE CHUTES

PART 1- GENERAL

1.1 SUMMARY

- A. This Section includes metal, vertical, gravity-type chutes including:
 - 1. Waste chutes.
- B. Related Sections include the following:
 - 1. Division 11 Section "Waste Compactor".
 - 2. Division 15 Sections for water service connections.
 - 3. Division 16 Sections for electrical service connections.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Detail chute assemblies and indicate installation details, dimensions, required clearances, method of field assembly, components, and location and size of each field connection.

1.3 QUALITY ASSURANCE

- A. NFPA Compliance: Provide chutes complying with NFPA Standard No.82.
- B. ADA Compliant doors and Hardware

PART 2- PRODUCTS

2.1 MANUFACTURERS

- A. Basis of Design: Century Chute **Easy-Wave® system** www.centurychute.com. Subject to compliance with requirements, provide products by one of the following:
 - 1. American Chute LLC
 - 2. Century Chute LLC

2.2 MATERIALS

- A. Chute Metal: Aluminum-coated, cold-rolled, commercial steel sheet, ASTM A463, Type 1 with no less than T1-40 coating.
 - 1. Specified (Nominal) Thickness: 0.060 inch. (16 gauge).
 - 2. 24" diameter or as indicated on drawings.
- B. Reinforcing: Steel Plates, Shapes, and Bars: ASTM A36.

2.3 DOORS

- A. Intake Door Assemblies: ASTM A240/A240M, Type 304 stainless steel, self-closing units with positive latch and latch handle; Class B labeled; 1-1/2 hour fire rated with 30-minute temperature rise of 250 deg F; and with frame suitable for enclosing chase construction.
1. Door Type: Hopper style, bottom hinged.
 2. **Easy-Wave® operating system.** Pneumatic, hands free, ADA compliant, fully automatic accessible operating system.
 3. No push button operator allowed.
 4. Size: 15"x18" bottom hinged, or for chute type and diameter indicated.
 5. Finish: Manufacturer's standard satin or No.4 directional polish finish.
 6. LED indicator to show chute door status
 7. No mechanical switches
 8. Low volt system, simple plug and play
 9. No configuration required at each door
 10. Master Controller identifies what level is in use
 11. Door frame is powder coated
- B. Discharge Door Assemblies: Powder Coated Steel Door of 1 hour fire rated construction that is suitable for Class B openings; equipped with a 165 degree fusible link that causes door to close in the event of a fire.
1. Rolling Discharge Assembly: Provide inclined, horizontally rolling discharge.
- C. Access Door Assemblies: Manufacturer's standard ASTM A 240, Type 304, 15"x 15" side hinged stainless steel doors; Class B labeled; 1-1/2 hour fire rated with 30-minute temperature rise of 250 deg F; with frame suitable for enclosing chase construction; and in satin or No. 4 directional polish finish.
1. Lock cylinder: cylinder standard manufacturer
 2. Keying: key access-door cylinders alike
 3. Keys: two for each cylinder

2.4 ACCESSORIES

- A. Fire Sprinklers: Standard 1/2" NPT, 165 deg., 175 PSI sprinkler head supplied, installation by others trades.
- B. Flushing Spray Unit: 1/2" NPT spray head unit located in chute above highest intake door, ready for hot-water piping connection by others.
- C. Sanitizing Unit: 1/2" NPS disinfecting and sanitizing spray head unit located in chute above highest intake door, including 1-gallon tank and adjustable proportioning valve with bypass for manual control of sanitizing and flushing operation, ready for hot-water piping connection by others.
- D. Sound Dampening: Provide one coat of manufacturer's standard sound dampening coating on perimeter of chute.
- E. Provide isolator pads under floor frames at each floor.
- F. Individual Key Locks: Provide individual key locking devices at each intake door for building maintenance.
- G. Intake-Door Baffles: Rubber Baffles, 1/8 inch thick
- H. Heat and smoke detector

FABRICATION

- A. General: Factory-assemble chute to greatest extent practical with continuously welded or lock-seamed joints without bolts, rivets, or clips projecting on chute interior. Include intake-door assemblies and chute-support frames at each floor, and chute expansion joints between each support point.
- B. Roof Vent: Fabricate full diameter vent unit to extend 36" above roof with flashing collar, and screened metal rain cap.
- C. Fire Sprinklers: Locate fire sprinklers at or above the top service opening of chutes, within the chute at alternate floor levels and at lowest service level.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. General: Comply with NFPA 82 requirements and with chute manufacture's written instructions. Assemble components with tight, non-leaking joints.
- B. Install chutes plumb, without offsets or obstructions that might prevent materials from free falling within chutes.
- C. Intake and Discharge Doors: Interface door units with throat sections of chutes for safe, snag-resistant, sanitary depositing of materials in chutes by users.
- D. 5 years experience by qualified installer.

3.2 TESTING

- A. Test chute components after installation. Operate doors, locks, to demonstrate that hardware is adjusted and operating correctly. Complete test operations before installing chase enclosures.
- B. Operate sanitizing unit through one complete cycle of chute use and cleanup, and replenish cleaning fluids in unit containers.

3.3 CLEANING

- A. After completing chase enclosure, clean exposed surfaces of chute system's components. Do not remove labels of independent testing and inspecting agencies.

3.4 DEMONSTRATION

- A. Demonstrate use of chute and equipment to Owner's personnel.
- B. Demonstrate replenishment of sanitizing-unit cleaning fluids.

END OF SECTION