SECTION 14560

REFUSE/LINEN CHUTE

This section is based on a system installed by:

Metropolitan Compactor Service Corp.
21 Quine Street
Cranford, NJ 07016
www.metropolitancompactor.com

(T) 908-654-6901

Part 1 – GENERAL

1. GENERAL REQUIREMENTS
   A. Work of this section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.
2. DESCRIPTION OF WORK
   A. Work of this Section includes labor and material necessary to install refuse chute(s), as shown on plans and as specified below.
3. RELATED SECTIONS
   A. Division 11 – "Waste Compactor"
   B. Division 15 – Plumbing connections
4. SUBMITTALS
   A. Provide product specification or data sheets prior to fabrication or delivery of materials.
   B. Provide shop drawings consisting of section/elevation drawings, supporting floor frame dimensions, intake door dimensions, and sprinkler locations.
5. QUALITY ASSURANCE
   A. Qualifications:
      1. Minimum five (5) years experience producing and installing products specified.
   B. Pre-installation coordination:
      1. Meet at job-site prior to fabrication of materials in order to verify field conditions and installation details. Notify job-site coordinator of necessary related work to be performed by others.
   C. Provide chute materials compliant with NFPA 82.
6. RELATED WORK BY OTHERS
   A. The following related work is excluded from the scope of work for this section 14560:
      1. Connections to the sprinkler piping as required.
      2. Connections to the domestic water supply for the sanitizing wash-down.
      3. Waterproofing of roof flashing /storm collar or vent louver.

4. Any cutting or chipping of floors, walls and/or roof necessary to provide a clear shaft for a properly coordinated installation.

7. WARRANTY
   A. Provide manufacturer's standard one (1) year warranty from date of initial occupancy or initial use of refuse chute. Warranty shall apply only to defects in materials and workmanship provided for products in this section.

Part 2 – PRODUCTS

1. SUPPLIER
   A. Metropolitan Compactor Service Corp.
   www.metropolitancompactor.com
2. MATERIALS
   A. Typical chute is 24" diameter fabricated of rolled and welded U.S. #16 gauge aluminized steel. Chute is supplied with support brackets at each floor level. Joints are overlapped and fastened with bolted mating clips with one expansion joint per level.
   B. Trash Intakes Doors: Stainless steel, 15" wide x 18" high, bottom hinged, hand operated with locking handle, self-closing and positive latching doors with a 1½ hour, Underwriters Laboratories "B" Label rating. Embossed "RUBBISH".
   C. Linen Intake Doors: Stainless steel, 18" wide x 18" high, side hinged, hand operated with locking handle, self-closing and positive latching doors with a 1½ hour, Underwriters Laboratories "B" Label rating. Embossed "LINEN".
   D. Access Door for sanitary wash-down above top intake door: 15" wide x 15" high side hinged, hand operated with locking handle, positive latching door with a 1½ hour, Underwriters Laboratories "B" Label rating.
   E. Keys: Intake and Access Doors are to be keyed alike, with keys provided. Linen doors are intended to be locked or inaccessible to the general public.
   F. Discharge:
      1. Direct discharge gate: U.S. #16 gauge aluminized steel, horizontal discharge gate with 165°F fusible link hold open – where required by city or state building and/or fire codes.
      2. Discharge hopper: 90° hopper with top hinged stainless steel door, held open with U.L. approved 165 degree fusible link. Hopper with drain assembly and adjustable support pedestal. (Used for Linen Chutes discharging through wall)
   G. Vent: Chute shall extend full diameter through and a minimum of 3' above Roof (per NFPA 82) with vent cap and bird screen. Flashing and storm collar provided, for installation by others.
   H. Accessories:
      1. Sanitizing flushing spray head with siphon valve for cleansing agent. Shut-off valve and plumbing by others.
      2. ½" IPS Sprinkler head located at the highest intake level with additional sprinkler heads located at every other floor level and at the lowest level– or as required by local code. Sprinkler piping and connection by others.

I. OFFSETS in the chute, if required, shall be made the same or larger diameter as the chute of #16 US gauge aluminized steel and have an additional layer of reinforcing material at the impact area.
    1. Offsets within the flow of trash are not to deviate more than 15° off the vertical axis of the chute, per NFPA 82.
J. OPTIONAL: Provide standard sound coat mastic vibration dampening compound to the exterior of the chute only. Include sound isolator pads at each floor support frame.

3. FABRICATION
    A. The trash chute shall be factory rolled and welded into manageable sections for shipment and installation. All chute sections will lap inside the sections below and there shall be no protruding bolts, screws or clips inside the chute to obstruct the flow of material. Floor frame support brackets will be located at each floor level with one expansion joint at each level. Discharge hoppers and offsets, where required, shall be reinforced as necessary.

Part 3 – EXECUTION

A. Verification of field conditions:
    1. Verify and coordinate shaft, floor and room conditions for correct size and location, and preparation for installation of trash chute and components.
    2. Installer will immediately notify job-site coordinator if unacceptable conditions exist.
    3. Beginning construction activities before unacceptable conditions have been corrected is prohibited.
B. INSTALLATION
    1. Install trash chute in accordance with shop drawings and coordinated with field conditions.
    2. General Contractor to inspect and verify installation details immediately following chute installation.
C. DEMONSTRATION
    1. Arrange demonstration of system operation, conducted by manufacturer’s representative, to Owner’s maintenance personnel.