HOPPER DOOR

For each floor there is an intake throat for the hopper door...

Hopper doors are provided in the service room on each floor and are designed to eject loose or bagged refuse (discharge garbage) directly into a refuse chute or a container. Hopper doors have an effective self-sealing system.

General
SFSP refuse hoppers are supplied with SFSP refuse chutes or supplied for separate fitting as independent or replacement hoppers. Designed and can be eject loose or bagged refuse directly into a refuse chute or a container.

Materials and manufacture
Factory fabricated with a robust welded steel construction. The double skinned satin stainless steel facings have a special fire resistant core giving a 1 1/2 hour fire rating.

Finish
Base and side cheeks from epoxy powder coated mild steel sheet. Door facings in stainless steel.

Operation
Hopper door pivots on an anti vandal hinge and is counter balanced to be self closing and self sealing against a fire resistant seal. SFSP hoppers are specially designed to prevent blockages inside refuse chutes.

Application
For use with refuse chutes of 500, 550, 600, 700, 800, and 900mm internal diameter or as independent replacement hoppers.

Hoppers comply with BS 476 and BS 5588
Smoke resistant : meets BS 476 section 31.1
Fire resistant : meets BS 476 part 22, section 6
Flush fitting : in accordance with BS 1703 6.3.3.5
Self closing : hopper door quietly and safely self closes after every operation in accordance with BS 1703 6.3.3.4
Hopper doors are made out of stainless steel or primed enameled steel.
Chute hopper doors are available in different sizes but commonly used sizes are:

<table>
<thead>
<tr>
<th>Chute Diameter</th>
<th>Lengths</th>
<th>Width</th>
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</thead>
<tbody>
<tr>
<td>500 mm</td>
<td>450x450 mm (18”x18”)</td>
<td>450x450 mm (18”x18”)</td>
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<tr>
<td>550 mm</td>
<td>450x450 mm (18”x18”)</td>
<td>450x450 mm (18”x18”)</td>
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<tr>
<td>600 mm</td>
<td>500x550 mm (20”x22”)</td>
<td>450x450 mm (18”x18”)</td>
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<tr>
<td>700 mm</td>
<td>600x900 mm (24”x36”)</td>
<td>600x900 mm (24”x24”)</td>
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<tr>
<td>800 mm</td>
<td>600x900 mm (24”x36”)</td>
<td>600x900 mm (24”x24”)</td>
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<tr>
<td>900 mm</td>
<td>700x950 mm (28”x36”)</td>
<td>700x950 mm (24”x24”)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Hopper Doors</th>
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<tbody>
<tr>
<td>LOCATION</td>
<td>Through the Chute Height</td>
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</table>
ELECTROMAGNETIC DOOR LOCK (ELECTRIC INTERLOCK)

Introduction
Electromagnetic door locking systems are used to enhance the safety of garbage and linen disposal chute systems; although not required by law, they considerably improve and ensure proper operation of intake doors.

Application
Electric latches can be incorporated in tipping hopper and side-hinged door fixtures; they can be coupled to warning light indicators, signal light indicators, smoke and fire alarms so that the doors remain closed in an emergency situation. Coupled with timers they can be used to control and dictate operating hours of the chute system. Door control is made at the central switchboard so that when one door is open, all others remain closed. This arrangement prevents injury to operating personnel by a falling bag should the chute be used simultaneously at two different levels in disposal, for instance.

Design
Electromagnetic door locking systems are fitted under the filler frame on tipping hopper and bag intake doors. In the door leaf a falling latch is incorporated which can be opened in an emergency by a simple allen key. The lock is operated via a green illuminated push button; a red indicator lamp signaling that the chute has no access. All components of a door locking system and the operating controls are connected during installation and the final connection to the power unit is done by the main contractor.

Operating instructions
1- All doors shall be locked when the chute cleaning systems are in operation.
2- Doors can only be opened individually, a feedback contact preventing opening of other doors; an indicator lamp on the switchboard indicates that a door is open.
3- When all doors are locked it may be that the smoke detectors or fire alarms have been triggered.
4- When work is going on in the collection room, personnel safety should be ensured by closing all doors to the system via the switchboard.

Supply requirements & specification
- Electro magnetic solenoid bolts.
- 220/240 volts. 50/60 Hz. 10 Amps max. or 120/240 volts. 50/60Hz 5 Amps max.
- Low power factor
- Pre-set timer. Electric supply as above
- Delay on/off. Range 5/200 seconds.