

SWIFTLOG

Waste Disposal & Management System

WASTE DISPOSAL & MANAGEMENT SYSTEM



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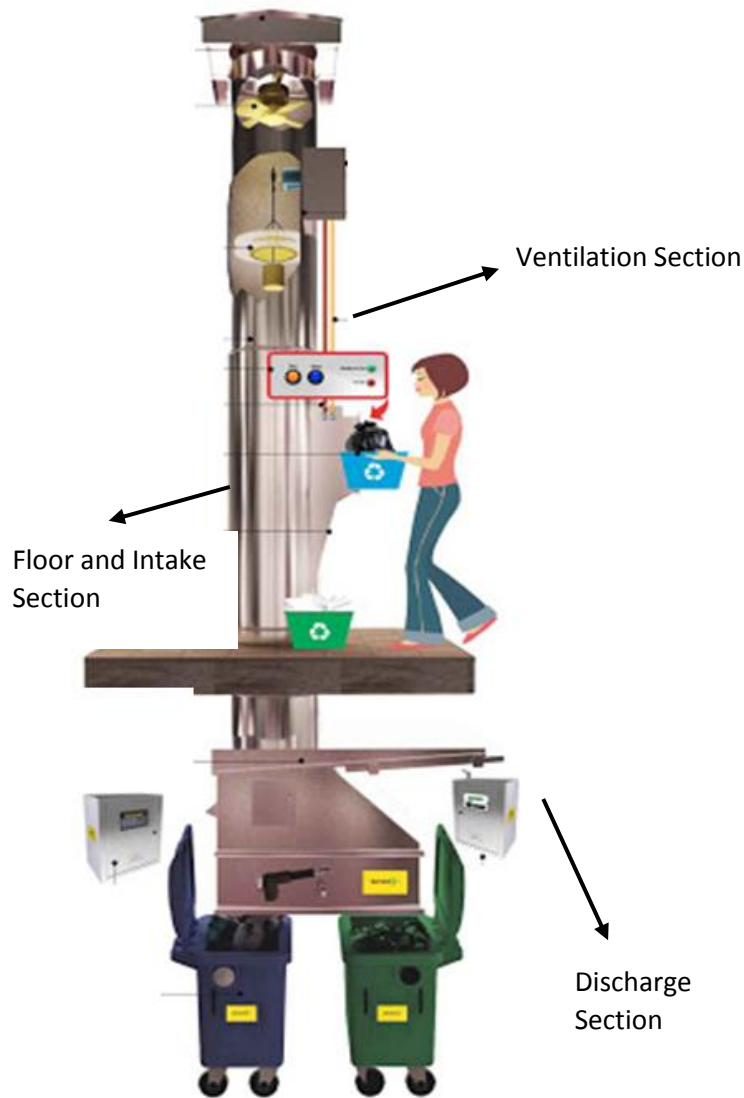
Sun Narula Group

Centralized Waste/Linen Disposal

Swiftlog offers high quality & technologically advanced stainless steel chutes to assist in this centralized collection & disposal of waste or linen. Advanced features such as electronic interfaces, automatic cleaning systems, fire security alarm integration etc have made such chutes very safe to use and widely accepted worldwide.

The basic sections of the chute are described in the adjoining diagram:

High-rise residential towers and hotels need to have a fast and economical way of collecting and disposing garbage generated daily. It is highly impractical to have the building management staff collect trash door to door, nor do they prefer that the residents carry trash in the lifts. The simplest solution to this problem is a centralized collection system that enables users to dispose garbage at their convenience, at their individual floors and only manage the trolley room. Similarly in hotels, Linen can be collected centrally via chute from individual floors of the hotel.



Chute Sections:

Chute Sections:	Ventilation Section	Floor & Intake Section	Discharge Section
	<ul style="list-style-type: none"> • Automatic Brush Unit • Sanitizer & Disinfectant • Exhaust Fan • Weather Cowl • Bird/Insect Screen • Central cleaning 	<ul style="list-style-type: none"> • Intake Doors & Hoppers • User Electronic Control • Intake Throat Section • Connecting Pipes • Fire Sprinklers 	<ul style="list-style-type: none"> • Fire Discharge Gate • Trolleys • Compactor • Bisorter/Tri Sorter • Central Control Panel • Odour Control Unit

Correct Sizes of Chutes

Chute Sizes	Plastic Bag Capacity (Ltrs)	Apartments per Chute
>450mm	12 ltrs	20+
>500mm	20 ltrs	30+
>600mm	40 ltrs	40+
>750mm	45 ltrs	60+
>800mm	50 ltrs	75+



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General Disposal Guidance in various uses:

Type of User	Formula	Volume per Week
Household/ Residential	2 person/ 1 house/ 1 flat	0.10m ³
Offices	2 per person/ 10m	0.05m ³
Hotels (Total Hotel Waste based on number of rooms)	4/ 5 star hotel per bed 2/ 3 star hotel per bed	0.35m ³ 0.25m ³
Restaurants	Per cover (dining space)	0.75m ³
Fast Food Outlets	Per sale	0.005m ³
Canteens	Per cover	0.10m ³
Major Shopping Centres	2 per m of sales area	0.01m ³
Major Supermarkets	2 per m of sales area	0.015m ³
Secondary Supermarkets	2 per m of sales area	0.01m ³
Department Stores	2 per m of sales area	0.01m ³
Shops	2 per m of sales area	0.0075m ³
Hospitals	Per bed excel clinical	0.15m ³
Industrial Units	2 per m of floor space	0.005m ³

Advantages of Chutes:



Buildings for Timely Waste Collection



Waste segregation at user level



Safety & security



Quick, Simple & convenient disposable of waste



Low Cost method of controlling and disposing waste/ linen



Technical Details

Specifying the right chute is extremely critical for ensuring a trouble free durable chute for the user community in the building. Engineers need to consider the best practices in use around the world, where experience in using chutes dates back to as much as 100 years. We lay down some basic things to consider when specifying a chute. The site conditions may require more stringent specifications but these are basic matters to consider:

Where to install?

Chute may be indoor or outdoor, however fire regulations stipulate that when within the building they should be enclosed within a 2 hr. Fire rated shaft. An indoor chute may pass through a floor slab or a vertical shaft.

Material of Construction:

Swiftlog strongly recommends the use of stainless steel for the manufacture of refuse chutes. Stainless steel has the advantage of being resistant to the humidity, acid and alkalis contained within refuse. SS has very high impact strength. For economy, Swiftlog also provides chutes from GI also, however only for inland usage. SS is the material of choice and is available in SS 304, SS 430, SS 202. We hot-dip galvanize our angle frame work for superior life.

Thickness & Coatings of Chute:

We strongly recommend a minimum thickness of 1.5mm (16 gauge for any type of chute). As building height increases higher thickness for bottom floor. For sound dampening coats a minimum DFT of chute thickness is recommended.

Intake Hopper Doors:

Doors should have 1.5 hours fire rating minimum. Doors should be self closing on release & latching should be positive.

Shape of Chute

To give an unimpeded free flow of refuse with a chute, the best shape has prove to be circular, Swiftlog chutes therefore have a circular cross section. We will make square section section chutes to customers special requirements. Chute should be perfectly vertical and offsets are not recommended unless absolutely necessary, still no more than 15 deg and more than one in two floors.






Chute Parts – Intake Section

Intake Hopper, Doors

The most important user interfacing part of the chute is the intake hopper Door. Swiftlog offer door in various sizes depending on the type of chute provided. Following common types of doors used in Garbage & Linen Chutes:



Intake Hopper, Doors

Bottom Hinged Standard Door	Bottom Hinged Door with Electronic interlocking Option	Side Hinged door with Electronic Interlocking	Segregated Garbage Chute Doors – for Recycling Chutes	
				
<ul style="list-style-type: none"> • For Garbage Chute • Full SS 304 construction • Self Closing & Postive Latch • Industrial Grade Parts • Full Length SS Hinge • Key Lock available 	<ul style="list-style-type: none"> • Has electronic interlocking • Allows one user at a time. • Chute shut down possible • Can connect with fire Alarm • BMS configurable • Power Efficient design, 24 VDC 	<ul style="list-style-type: none"> • Side hinged for linen disposal • 90° & 180° opening • Full SS Length hinge • Keyed Access • Electronically interlocked • Power efficient design, 24 VDC 	<ul style="list-style-type: none"> • 2 Way/3 way selection • User Panel in SS Box in frame • Intelligent & efficient design • Remotely controllable option • Configuration with exhaust, • Compactor, Bi-sorter • Beeper alarm each floor • Floor communication • Advanced signalling possible when trash container is full • Set floor level usage times • Emergency, maintenance system 	<ul style="list-style-type: none"> •

Chute Sizes	Height X Width (in inches)
16", 18", 20"	12" X 15", 15" X 15"
20", 22", 24"	15" X 18", 20" X 20", 16" X 24"
24", 26", 28"	16" X 24", 20" X 24"
Larger Sizes	16" X 24", 22" X 24"

Chute Body, Coating Options, Floor Frames

The intake door hopper is affixed to the throat of the floor intake section that helps carry the trash or linen through the chute vertical duct. Swiftlog has a special double slope design for centering the trash within the chute. A distinct feature the design is also the swaging and mechanical crimping done on end of the chute sections. This provides excellent circular dimensional stability to the chute and enhances long term leak proof performance.

For smaller thickness, a majority of the chute sections are mechanically seam locked, instead of seam welding. This assists in preventing corrosion to a great extent



Coating Options

Anti Corrosive Exterior Coat



- Thickness-approx 0.3 to 1mm
- Bitumen based or special anti corrosive
- Color black or as per custom choice

Sound Dampening Coat



- Thickness = base chute body thickness
- Reduces Sound level upto 5-15 db
- Color – Black

Custom Coats, Fire Intumscent or Lacquer

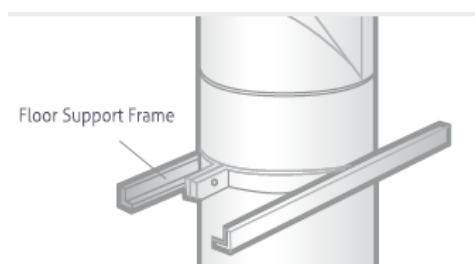


- Thick – approx 0.3 to 1 mm
- Custom colors & designs
- Used mostly for exterior



Offset

- NEPA regulates no more than 15 Deg offset should be used
- Not recommended unless completely inevitable
- Should return to plumb on same floor and maximum one offset in two floors.
- Sometimes offset provided at bottom section with high impact plate to cut velocity of dropping garbage.



Floor Frames

- Cut, shaped and drilled from 35x35x3mm or 50x40x5mm angle with a rigid, welded construction.
- The sections connect with the frame with J hooks
- The frame is rust proofed for internal use and hot dip galvanized for external use.



Recycling Eco-friendly chutes

Segregate Wasted Disposal System

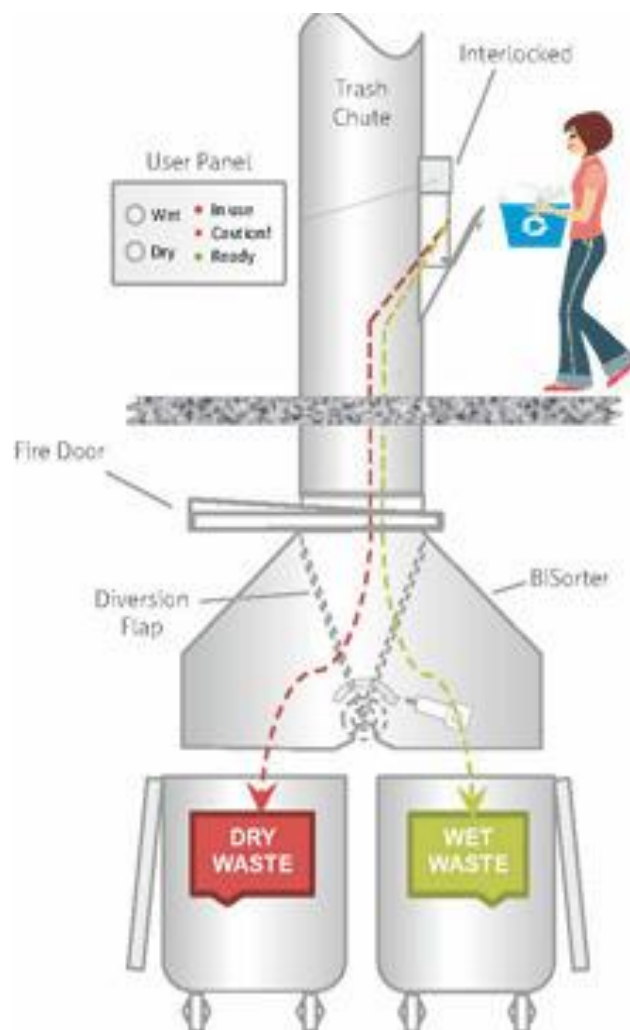
Recycling waste is the need of the hour with the several challenges the planet is facing from depletion of natural resources & changing climatic conditions. With several countries committing to handle these issues, it has become mandatory in several building codes to segregate trash in way which promotes maximum recyclability. Towards this effort, Swiftlog provides user friendly green solutions as a part of its product profolio. These solutions are being accepted worldwide especially where building or hotels plan to get IGBC/LEEDs certifications.

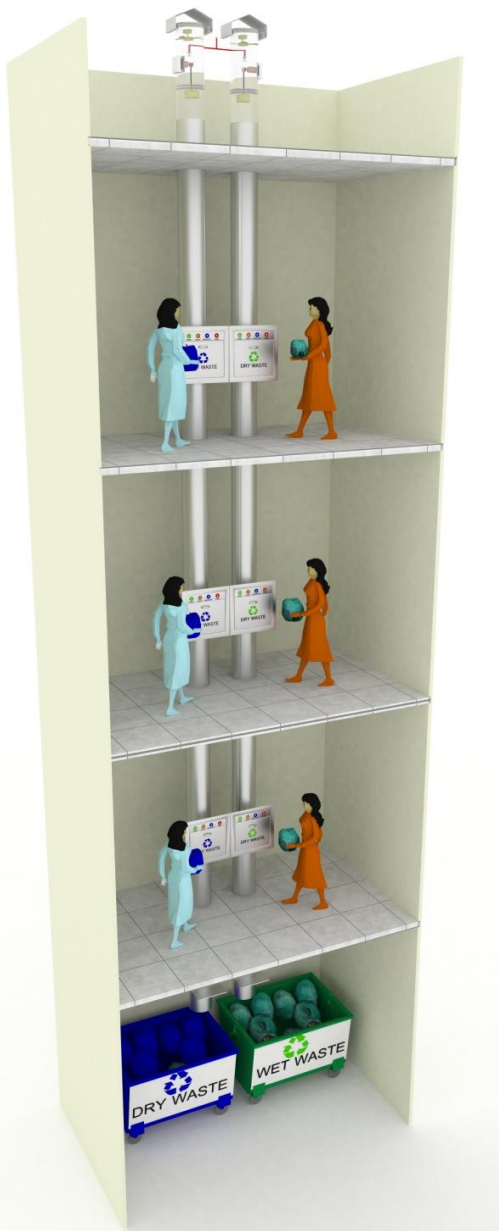
Swiftlog chutes are fitted with a special diversion equipment at the bottom of the chute which assists in diverting the falling trash into respective bins.

The process works as follows:

- I) User approaches chute at his floor and has to select from one of 2 or three switches available. (2 for Wet/Dry, 3 if more segregation required).
- II) The bi-sorter/tri-sorter at the bottom receives a signal and moves diversion flap to required position.
- III) Once done, it lights up a green light at user panel & releases door lock to let him open the door to dispose his trash. Meanwhile at all other floors, doors get interlocked and any operation on is completely restricted.
- IV) Door closes & locks on all floors become active again.

The trolleys at the bottom now have respective trash ready to be sent for recycling, decomposition etc.





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