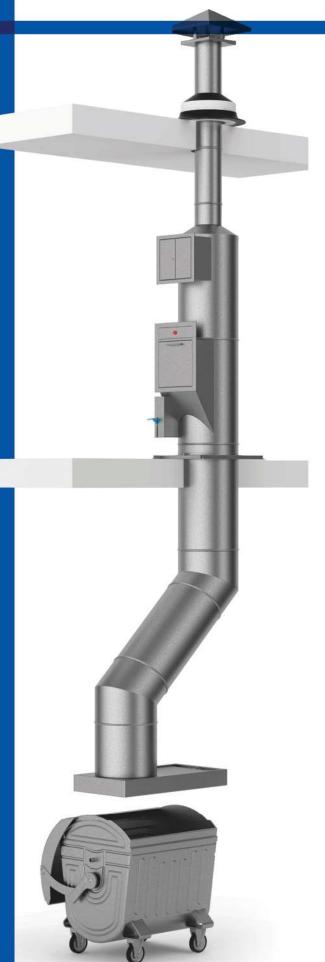




GARBAGE & LINEN CHUTES SYSTEM







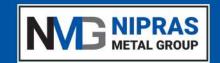








About Us



NIPRAS METAL GROUP is a diversified private enterprise and a Saudi organization established in 2010 with a vision to be a preferred partner for our valuable clients in supplying quality and cost effective building construction and Architectural engineering solutions. Since the establishment of NIPRAS, we have been partnered with major organizations in the kingdom to consistently serve their projects and, we have engaged closely with many key contractors and consultants by meeting their expectations in providing high-quality and certified construction and Architectural products. NIPRAS group operates its business units from three divisions in manufacturing, supplying and sub-contracting of various Architectural products such as Roof Hatch Access, Gratings, Railings, Raised Floors, Garbage Chute System, Cable tray management solutions, and all types of stainless steel & metal fabrication and other building construction materials. The company has two production lines of Architectural products and cable management systems.

At NIPRAS we always strive hard to supply and meet our client's requirements with high-quality products quickly and efficiently. The company adopts modern management concept, adheres to survival by quality and development by integrity, and gradually boarded the local competition platform. We rely on service to enhance the client relationship, sincerely create value for customers, and provide customers with high-quality and reliable products and wholehearted service. Our company has advanced production equipment which guarantees the most advantageous product quality and efficiency.

NIPRAS is accredited through various quality certifications and standards meeting all project's technical criteria and consultant approvals. We are an ISO-1519 certified company to ensure the quality, safety, and efficiency of our products. We gain trust of our existing clients and new customers with the best products, the best quality, competitive price and the most perfect service.

-> Our Vision

NIPRAS strives to strengthen its manufacturing base in the steel industry to serve the kingdom and contribute to its vision through effective utilization of staff and materials with cutting-edge technology and high productivity, consistent with modern management practices.



-> Our Mission

To be a preferred partner for our valuable customers and consistently exceeds our customer's needs and expectations in quality, delivery, and cost through continuous improvement and enhancing customer satisfaction. We go all out to manufacture, deliver and supply superior steel and metal products to our clients utilizing sustainable procedures that meet the international standards.



-> Objectives

- The aim of NIPRAS is to fabricate steel and metal work in the construction sector by the development of standards to turn raw metal into Architectural engineering solutions that can be used in construction.
- To assist clients, kingdom wide, by providing Architectural engineering solutions and expertise.
- To expand our business by offering the best in quality, cost and solutions.
- To provide our employees with the opportunity to develop their full potential within a safe and productive environment.
- To seek a competitive advantage by developing partnerships with clients, suppliers and subcontractors.

-> Research & Development (R&D) Department

R & D refers to two intertwined processes of research (to identify new knowledge and ideas) and development (turning the ideas into tangible products or processes). Our Research and development (R&D) department includes activities that we undertake to innovate and introduce new products and services.

NIPRAS R&D's mission is to:

- Develop products that create value for customers and expand the use of NIPRAS products worldwide
- Improve NIPRAS competitiveness by developing new industrial processes and optimising existing ones to reduce cost and improve quality
- · Contribute to sustainable development by reducing the environmental impact of products and processes
- · Continuously upgrade NIPRAS scientific knowledge and attract technical talent

-> Technical Team

Lead with Engineers and other professionals at NIPRAS TECHNICAL DEPARTMENT, we access a vast array of advanced, highly sophisticated testing, modelling, failure analysis and other resources to develop the next generation of products, where the future is born.

Technical Division is entrusted with the work in respect of various subjects of technical nature via Research & Development, Energy & Environment Management, Standardization & Quality Control of products ETC. The work being dealt with by this division may be grouped under few categories namely,



- Research & Development in Metal & Steel Fabrication
- Technical Regulations on the Products to promote quality
- Technical Inputs on the ongoing / future products ETC.

-> Social Responsibility

We "NIPRAS" ability to sense, understand and react to others emotions while comprehending on social networks. (Social awareness which encompasses the competency of empathy is the ability to read non-verbal cues for negative emotions, particularly anger and fear and to judge the trustworthiness of others. It is about understanding others feelings, not experiencing them (Garner, 2009). NIPRAS accentuates on an individual's ability to identify, perceive and react to other's emotions while being a part of the social network circuitry. NIPRAS understand the ability to and be compassionate to the feelings, views, opinions and challenges of other people. Social-awareness cannot only be equated with understanding people's need but as well as caring for them (Coleman, 2006).



-> Employees

- At NIPRAS we empower our employees to leverage the corporate resources at their disposal to do well. Being a socially responsible company can bolster a company's image and build its brand.

-> Customers

A business cannot work without consumer. The survival and growth of business depends on consumer satisfaction, service and support. "NIPRAS" winning the confidence of our customers made it possible by following a positive attitude towards customers and fulfilling our social responsibilities by providing them

- Quality
- Fair Prices
- Honest advertising
- After sales service
- Research & Development for their requirements
- Safety
- Regular supply

-> Civil Society

According to the Saudi Youth in Numbers report, 37% of the Saudi population is under 25. This entails that the youth will play a more significant role in undertaking the paths set by Vision 2030 and inheriting the future it's attempting to build. NIPRAS gives our platform to the young for developing their sense of civic responsibility, involvement, and interconnectedness. Opportunities to equip the upcoming generation with the necessary skills and motivation to become active participants in their communities

-> Environment

NIPRAS understands the nature of the relationship between corporate adoption of the concept of societal responsibility [availability of environmental awareness, clear vision of the impact of societal responsibility on financial performance, managers informing employees of the latest developments in societal responsibility programs, managers' response to their corporate social responsibility (CSR) proposals] in the form of an annual report that supports the success of the company's objectives, the company's management encourages employees to participate collectively in societal responsibility programs and to protect the environment from pollution in the industry.

-> Health And Safety

"NIPRAS" as a manufacturing Company for Metal & Steel Products has a large number of hazards because of the strong internal as well as external forward and backward linkages in terms of material flows. Employees are to work in hazardous environment because of complicated equipment layouts, high temperatures, heavy equipment's, moving machinery, hazardous processes, heavy lifting and movements of materials in the work environment ETC. Further, several operations involve working at heights or in confined spaces. In short, working involves both very high volume as well as the complexity of operations which results into employees getting exposed to a high level of health and safety risks.

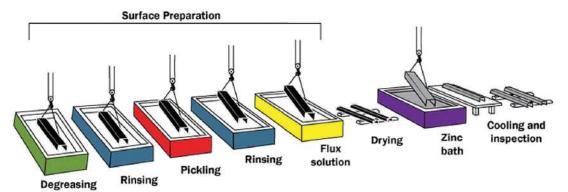
The health, safety, and protection of our employees, equipment, and the environment are perfectly calculated and implied as a crucial since it affects both economic and social factors.. On the other hand, a healthy and safe workplace contributes towards plants competitiveness as well as in profit growth.



HOT-DIP GALVANIZATION







Garbage & Linen Chutes

Chutes from NSF are very convenient, simple and low cost method of controlling and disposing of refuse and linen.

Chutes meet the most stringent requirements of environmental health and safety. Chutes are used as original

equipment in new buildings, such as: Hotels, Hospitals, High Rises and Residential Towers.

Choices of Materials

NSF provides refuse and linen chutes from the following high quality materials:

- Stainless Steel: NSF strongly recommends the use of stainless steel for the manufacture of refuse chutes.

Stainless is highly resistant to the humidity, acid and alkalis contained within refuse.

- Galvanized Steel: Galvanized steel does not have the same protective characteristics of stainless steel, yet, it is used extensively for refuse chutes.

Material Thickness & Gauges

NSF provides the following material gauges:

- 1.5mm (16 Gauge)
- 2.0mm (14 Gauge)
- 3.0mm (11 Gauge) (when specified).

Indoor Chutes

The majority of refuse chutes are fitted internally within a building. NSF chutes can either pass through the floor

slab of the building or be fixed within a vertical shaft.

Outdoor Chutes

NSF refuse chutes can be fixed externally to most types of building, particularly useful when a refuse chute has to be provided after the building has been finished or

where it is not possible to replace in the

same location. External refuse chutes can be single or double skinned.

TECHNICAL INFORMATION

Original Equipment

NSF refuse chutes are specially designed for use in flats, hotels, hospitals, apartments, factories, condominiums, offices, commercial complexes and shopping centers.

Indoor Chutes

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Outdoor Chutes

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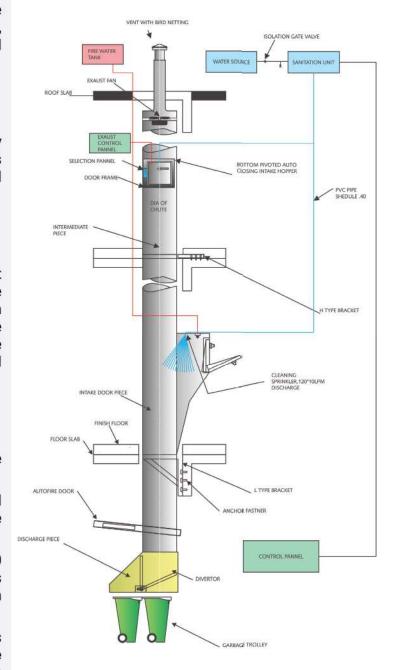
Choosing the Correct Size of Chute

NSF provides a comprehensive range of refuse chutes, both in size and material choice.

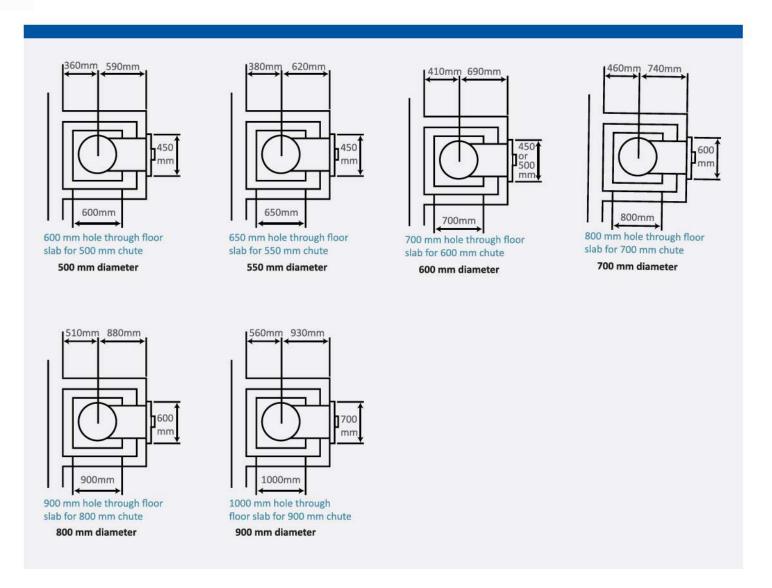
The choice of materials to be used are covered thoroughly elsewhere, the choice of refuse chute diameter is shown on this page.

However we strongly recommend the use of 600 mm diameter chutes, as in practical terms this diameter is the least likely to cause any long term problems.

Appreciating that design and space considerations sometimes lead to compromises, this table opposite is given as a guide to assist you in choosing the correct diameter of chute.



Reccomended Chute Diameter	Plastic Sack Capacity	No. of Apartments per Chute
500 mm	20 liters	21 - 30
550 mm	30 liters	31 - 40
600 mm	40 - 50 liters	40 +
700 mm	40 - 50 liters	40 +
800 mm	45 - 55 liters	45 +
900 mm	50 - 60 liters	50 +



Refuse Chute Sizes

NSF chutes are available with the following standard internal diameters:

500mm (20"), 550mm (22"), 600mm (24")

700mm (28"), 800mm (32"), 900mm (36")

N.B: We will also manufacture to customers special requirements.

Height

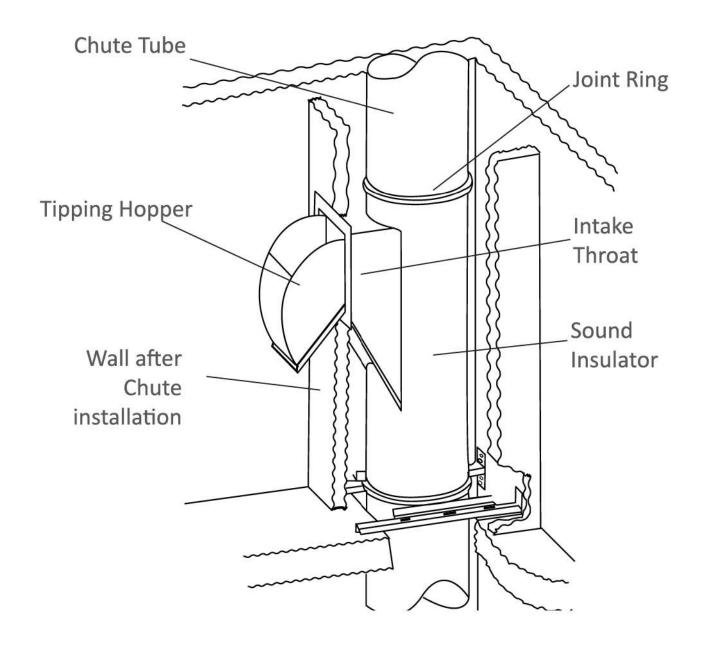
Varies according to individual building design.

NSF provides chutes within the range of 1- 45 storeys, or from as small as 1 meter up to a maximum of 165-170 meters. Over this height two chutes should be provided, the first terminating at a mid building level refuse collecting room, the second chute to start at mid-building level and terminating at ground floor or basement level.

Refuse Chute Trunking

Cut to shape from flat metal sheet, mechanical rolled into an accurate cylindrical form. Vertical seams are according to material type and gauge either lock seamed or welded, to give smooth, watertight sealed joints.

The entire inner surface area of the trunking is smooth and free from any projections that will impact the free flow of refuse within the total vertical length of the chute.



Entry Section

This could be described as the most critical component of a refuse chute. If it is not designed and manufactured correctly there is a probability the refuse chute will not work satisfactorily.

The entry sections of NSF chutes are designed and manufactured within the constraints of BS 1703:1977 / BS 5906:1980 to ensure complete satisfaction. Flat metal sheet is accurately cut and shaped by highly skilled craftsmen, vertical seams being welded or lock seamed, horizontal are mechanically jointed or welded.

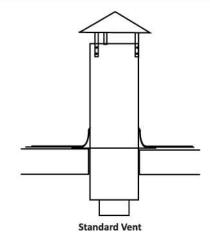
NSF refuse chute entry sections have our specially designed Inner baffle, to prevent air or falling refuse already present in the chute from accidentally blowing back when any refuse hopper is opened.

ACCESSORIES

Vents & Fans

Automatic Foul Air Exhaust Fan installed at the top of the chutes, usually above roof level this ventilator maintains a smooth flow of fresh air within the refuse chute.

Normally changing the air approximately 50 times per hour. The foul air exhaust fan helps prevent the escape of any bad odors or explosive gases released by aerosols etc, through refuse hoppers or into the refuse room. For use with vent pipes of (9") 230 mm diameter or above.

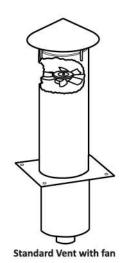


Technical Specification

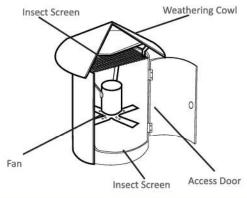
Air displacement 200m3/hour. Fan motor, Class H tropicalized continuously rated, 1300 RPM. Electric Supply 220/240 volts or 110/120 volts, 50/60 Hz. N.B. Flashed to roof by others.



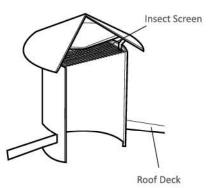
Recommended on chutes if a foul air exhaust fan is not being specified. The fan diameteris usually 300 to 400 mm. The screen keeps out any insects or birds attracted to the vent pipe. An exhaust fan can be fitted to any full diameter vent pipe, complete with inspection door. It extends 4 feet (1.2m) above roof.



Standard Vent with fan







Description	Vent Tube, 1.5 mm thick	
Quantity	One Unit per Chute	
Location	1.22 meter above roof slab	
	D was	

Description	Fan
Quantity	One Unit per Chute
Location	Top of vent tube

Cleaning Equipment

Automatic Chute Cleaning System

Specifically designed to clean the total vertical length of the internal surface of all chutes. The system is factory fabricated as an integral unit ready for immediate on site connection.

A cylindrical housing with replaceable stiff nylon brushes is automatically lowered and raised by a geared electric motor. The nylon brushes scrape and clean the internal surface as they move down and up the chute. The water supply for flushing the chute, the electric motor and the built in safety overloads, are all individually controlled by a robust electric logic control circuit.

Electrical Specification

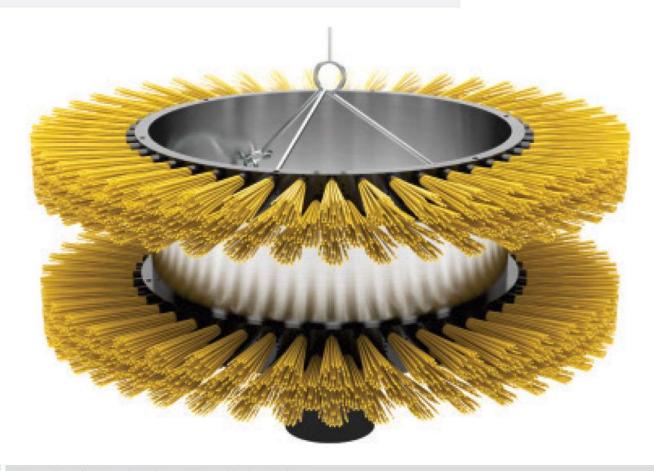
Supply 380/415 volts, 50/60hz, 3 phase.

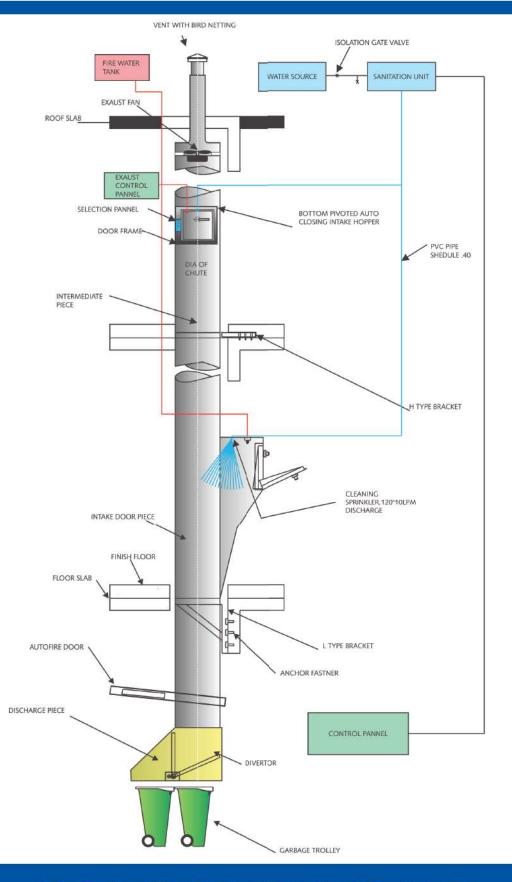
Motor 1/6 HP 1600 R.P.M. continuous.

Disinfecting and Sanitizing

Designed to give manual or automatic flushing of the internal surface of NMG chutes. Fitted above the topmost entry section of the refuse chutes as part of an automatic or manual cleaning system or on its own. Simple to operate and maintain, a disinfectant or sanitizing unit is recommended for use with every chute installation, particularly as it overcomes one of the problems associated with the use of chutes-strong odors. The specification given above can be changed by using a smaller volume stainless steel tank within an automatic chute cleaning system.







COMPONENTS OF GARBAGE CHUTE SYSTEM

Access Door

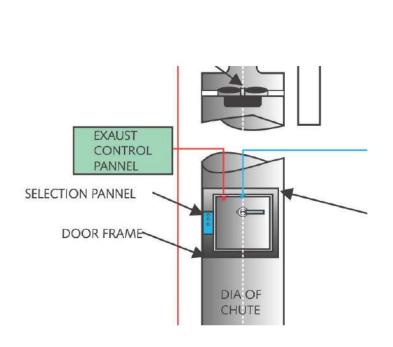
Access door is located below the vent tube on the last floor. It is used for accessing the equipment in case of maintenance or revision of the chute.

When opening the access door, the equipment located inside consists of the motor unit, solenoid valve, brush, disinfecting and sanitizing unit, designed to give manual or automatic brushing of the internal surface of chute.



Control Panel

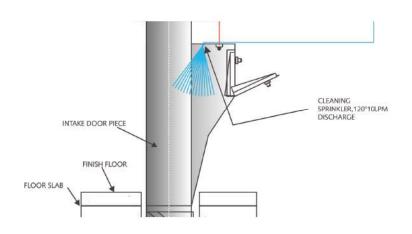
Controls the entire automated systems within the chute operates the cleaning system, controls the function of electro-magnetic door locks with the presence of an emergency button which isolates electricity and stop all the running functions.





Description	Access Door	
QUANTITY	One Unit per Chute	
LOCATION	Below Access Door or at ground Floor	

Intake Throat





Description	Intake Throat Cylinders
LOCATION	Through the Chute Height

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

NMG refuse hoppers are supplied with NMG 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. NMG 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:

Chute Diameter	Lengths	Width	
500 mm	450x450 mm (18"x18")	450x450 mm (18"x18")	
550 mm	450x450 mm (18"x18")	450x450 mm (18"x18")	
600 mm	500x550 mm (20"x22")	450x450 mm (18"x18")	
700 mm	600x900 mm (24"x36")	600x900 mm (24"x24")	
800 mm	600x900 mm (24"x36")	600x900 mm (24"x24")	
900 mm	700x950 mm (28"x36")	700x950 mm (24"x24")	

Description	Hopper Doors	
LOCATION	Through the Chute Height	

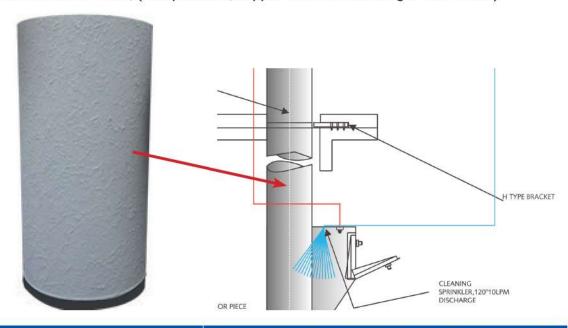
Used to join certain section of duct. INTAKE DOOR PIECE FINISH FLOOR FLOOR SLAB

Chute Tube & Sound Damping

Chute Tube gives an unimpeded dumping of refuse within a chute, the best shape has proved to be circular.

Sound Damping

All metal refuse chutes can produce, uncomfortable levels of noise. A factory applied coating of a proven sound dampening compound will dramatically reduce noise level produced by resonant vibrations in metal refuse chutes. Factory applied at the same thickness as the metal substrate or more and over the total area of the exterior surface of the refuse chute, (except refuse, hopper face and side hinged door faces).



DESCRIPTION

Chute Tubes SS 304, 1.5 mm thickness

LOCATION

Through the Chute Height

Sprinklers

Cleaning & Fire Sprinklers

Cleaning Sprinklers

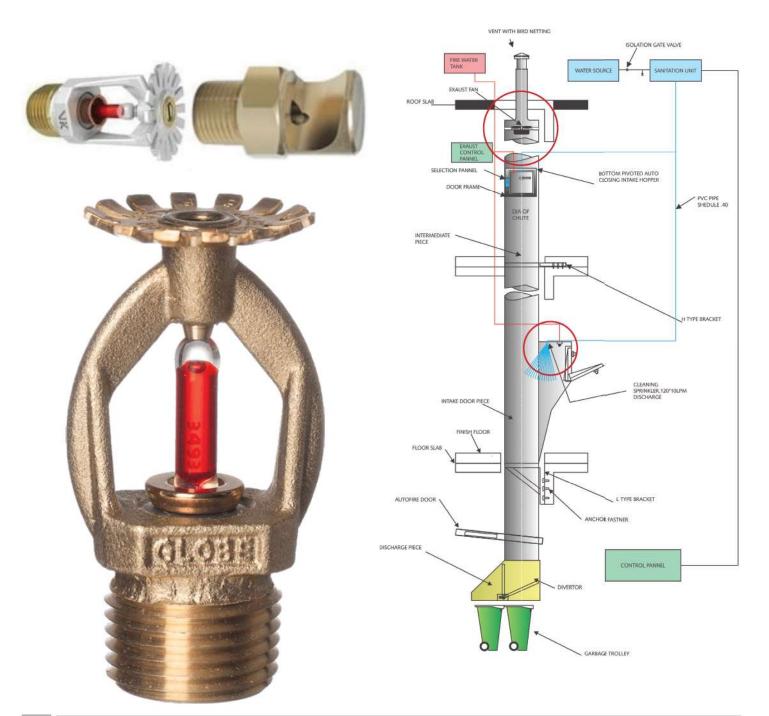
Spray head located in all floors behind the door opening for cleaning issues.

Fire Sprinkler:

Glass bulb sprinklers installed for fire detection inside the chute in each floor. 1/2" IPS, 68°C (165°F). Glass Sprinklers can be used in conjunction with a normal water supply at a pressure of up to 8 bar.

Smoke Detection System:

This system shall be provided by the fire alarm subcontractor.



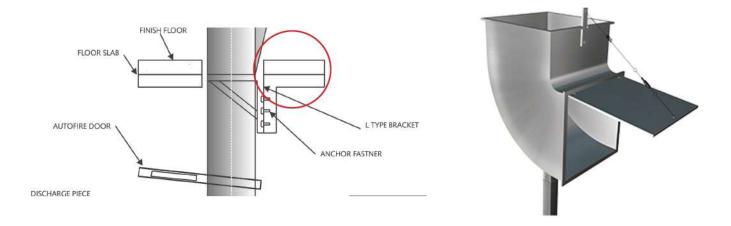
Fire Cut Off Door

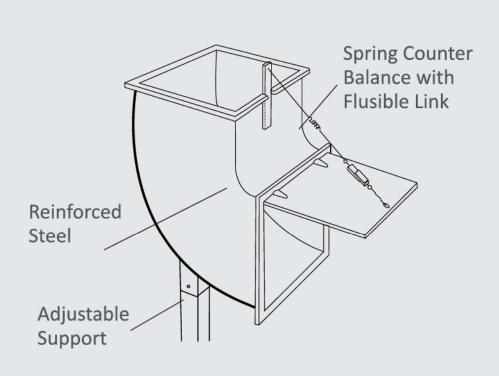
Fire Cut Off Door has a horizontal rolling door held by a spring on each side connected to a fusible link. In case of excessive heat (or fire) the link gets fused at 165° F (68°C) causing the door to roll shut. The discharge is 1.5 hours fire rated.

Type 'C' Automatic Fire Shutter Door

This type is widely used in both garbage & linen chutes. It has a horizontal rolling door held by springs on each side connected to a fusible link. In case of excessive heat (or fire) the link gets fused at 165°F (68°C) causing the door to roll shut. The discharge is 1.5 hours fire rated.

The Automatic Fire Shutter Door also has a manual closing facility and can be used in certain location as both a fire shutter-door and a manual cut off door.





Garbage Container

TYPE MGB

Capacity: 1.1m3

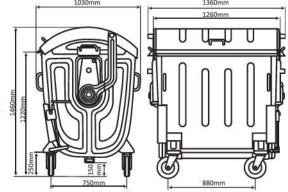
Material: Hot-dip galvanized steel (DIN 30700)

Specifications:

- Body and lid hot dip galvanized
- Form stability through slotted all around running tube profile
- Dome lid hot dip galvanized vaulted and reinforced
- Special tension spring for easy opening
- Remains in 2 positions with an automatic locking device
- 4 swivel wheels 3600 maintenance free ball bearing with solid rubber tires
- Carrying capacity per wheel 400 kg
- Lateral central locking device of two front wheels

Options:

- Instead of central locking, brake on single wheel
- Towing gear with trailer bracket and coupling, heavy wheel implemention
- Colour coded lid
- Slot opening in lid for recycling waste
- Lid locking device
- Special body treatment for collecting hazardous waste (filling stations, vehicles workshops etc.)



TYPE MGD 2.5

Capacity: 2.5 m3

Material: DIN 30738 hot-dip galvanized steel

Specifications:

- Hot dip galvanized body
- Formstability through box-profile framework
- Strengthening ribs at body, bottom reinforced with stable wheel cases
- 2x360o swivel wheels with direction fixing device at the front 200 mm diameter
- 2x360o swivel wheels at the back with single wheel stop 200 mm diameter
- Galvanized sliding lid
- Lateral and rear sliding lid

Options:

- Skids instead of wheels
- 2 fixed wheels 200 mm diameter at the front
- ctive transportation
- Reflex warning-foil at the corners

- Owner-stamping in the lid
- Slot-opening in the fore lid
- Locking device of the fore lid
- Locking device for the rear lid for controlled collection with rear lifts
- Horizontal sliding grip at the rear
- RAL color painting on zinc coating primer



TECHNICAL INFORMATION

Introduction

NMG linen chutes are the most efficient method of quickly and economically disposing of soiled linen in multi storey buildings.

The dirty linen is usually bagged before loading into the chute. Side hung doors with large openings are therefore the normal standard on linen chutes. Hospitals generate about 3.0 kgs. of soiled linen per bed per day and a similar figure can be used for hotels. The increasing cost of using lifts and maintaining labour in hotels and hospitals reinforces the decision to install a linen chute.

Application

Original equipment installed in hospitals and hotels for the vertical movement of loose and bagged soiled linen.

Technical Information

NMG linen or laundry chutes have the same basic specification as refuse chutes. For details on the construction, material specification and choice please see previous pages. A full specification for NMG linen chutes can be found in this section.

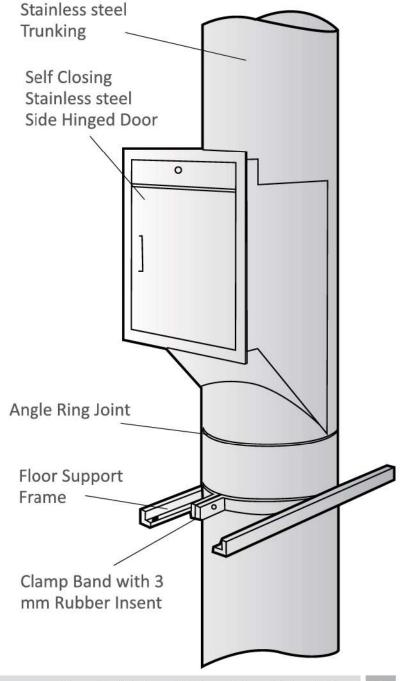
Linen Chute Sizes

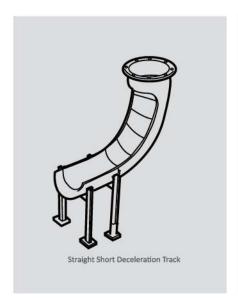
Available in either 600 mm or 800 mm diameters though in practice the 600mm diameter is adequate for most purposes.

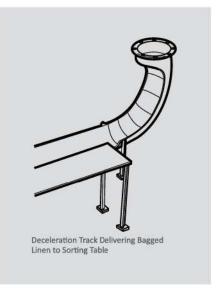
Linen Chute Doors

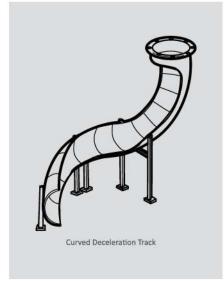
NMG normally recommends the use of a 450 x 450 mm door for use with linen chutes and would also recommend the use of electric interlocks. Linen chute doors are side hung on stainless steel hinges, with either separate or master keyed locks. The doors are fully self closing on an efficient hydraulic self closer. Labels can be attached bearing the message 'LINEN ONLY' in english and/or the local language.

N.B. we can use side hinge door also for linen chute









Fire Safety

To meet British Standards of fire safety an automatic fusible linked fire shutter door with a 1 1/2 hour fire rating should be fitted to the bottom of the linen chute, in the linen collection room. Fire sprinklers are also recommended to be fitted at every second floor. The sprinklers are fitted inside the chute entry section and do not interfere with the loading or fall of the soiled linen.

Electric Interlocks

To give increased operator safety we strongly recommend the use of "time delay" interlocks inside hung door linen chutes.

Accessories

The majority of accessories are available with linen chutes as are deceleration tracks, trolleys and containers for carrying bagged or loose linen-the range can be seen in the containers section.

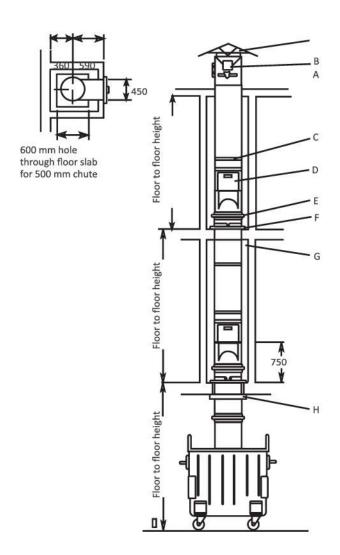
Deceleration Tracks

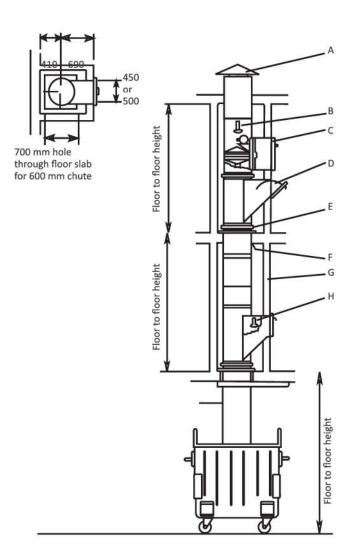
Soiled linen bags, when fully loaded, can weigh between 25 to 50kgs, dependent on size and the manner in which they are packed. A 50kgs solidly packed bag of soiled linen achieves a reasonably high terminal velocity and it is in this type of situation that NMG recommends the use of deceleration tracks. For buildings of up to 5 storeys, a short deceleration track should suffice. Obviously, the higher the building the longer the length of deceleration track. Appreciating that floor space is always at a premium, NMG offers, curved and helical deceleration tracks, to achieve the same result in less space.

Deceleration tracks can also be used to bring the bagged linen directly onto a sorting table. Made from stainless steel and jointed by R.S. angle rings. Support stands are made from R.S. angle, painted ready for bolting to floor or wall. Illustrated are standard types. Other lengths and models are available to customer specification to match height and width of the linen chute.

N.B. Drawings show deceleration tracks with cut-out

REFUSE CHUTES



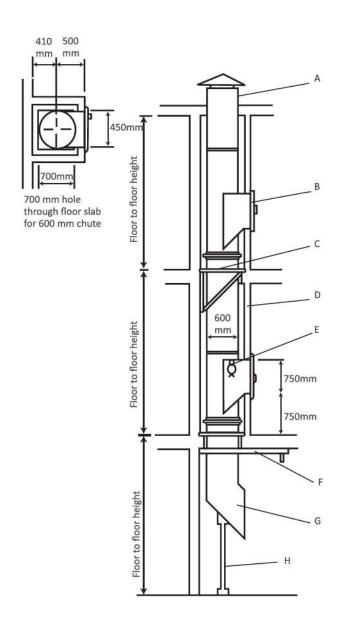


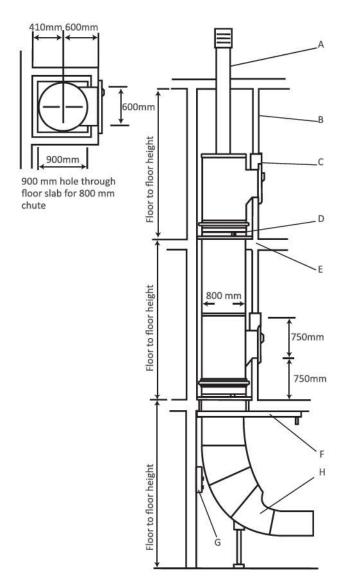
All Dimensions In Mm

- A. Cowl with insect screen.
- B. Automatic exhaust air fan with access door.
- C. 1 1/2 hour fire rated hopper.
- D. Angle ring joint.
- E. Floor support frame
- F. Floor opening to be infilled by contractor.
- G. Enclosing walls built after chute installation.
- H. Fire shutter door.
- NB. Flashing of vent pipe to roof by other.

All Dimensions In Mm

- A. Full diameter vent and cowl (or as specified)
- B. Disinfecting and sanitizing unit
- C. Automatic chute cleaning system
- D. 1 1/2 hour fire rated hopper
- E. Floor support frame
- F. Floor opening to be infilled by contractor
- G. Enclosing walls built after chute installation
- H. Sprinklers
- I. Fire shutter door
- J. Discharge section





All Dimensions In Mm

- A. Full diameter stainless steel vent (or as specified).
- B. 2 hour fire rated side hung door entry.
- C. Support fixed to shaft wall by special gallows bracket.
- D. Enclosing walls built after erection of chute.
- E. 1/2" sprinkler head to be fitted every other entry.
- F. Fire shutter door fixed to underside of floor slab.
- G. Reinforced angle discharge.
- H. Tubular Support

All Dimensions In Mm

- A. 150 mm diameter vent (or as specified).
- B. Face wall built after erection of chute.
- C. Electrically interlocked side hung doors.
- D. Chute support mounted on structural floor.
- E. Floor opening to be infilled by builder.
- F. Fire shutter door fixed to underside of floor slab.
- G. Master control panel for interlocks (1500 mm off floor level).
- H. Short deceleration track.

QUALITY POLICY



NSF is fully committed to a quality policy which ensures delivery of its products and services "defect free on time". NSF provides quality management, co-ordination, production and processing, manufacture, and installation services throughout KSA and sometimes outside KSA. Since the establishment, NSF is primarily engaged in providing Architectural Engineering solutions in the market and aims to achieve a high standard of production and trading services.

- · NSF possess the policy to:
- Manufacture and supply products which fully confirm to the customer's requirements, relating to quality, reliability, and delivery.
- Use the company's considerable experience and knowledge in the production of standard products to assist customers in the cost-effective design and development of both existing and new products.
- Ensure that suppliers of raw materials, goods and services confirm to all requirements and are of a consistently high quality, to enable the company to achieve its commitments to all customers.
- Recognize that the responsibility for quality lies with all employees of the company and hence to stimulate and encourage interest and pride in their work.
- Hold frequent Quality Management System review meetings to enable continual review of the suitability
 of the Quality policy and all aspects of the Quality Management System.

These requirements of Quality Policies are compared to the requirements of ISO 9001:2015- Quality Policy. NSF strives to eliminate



























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