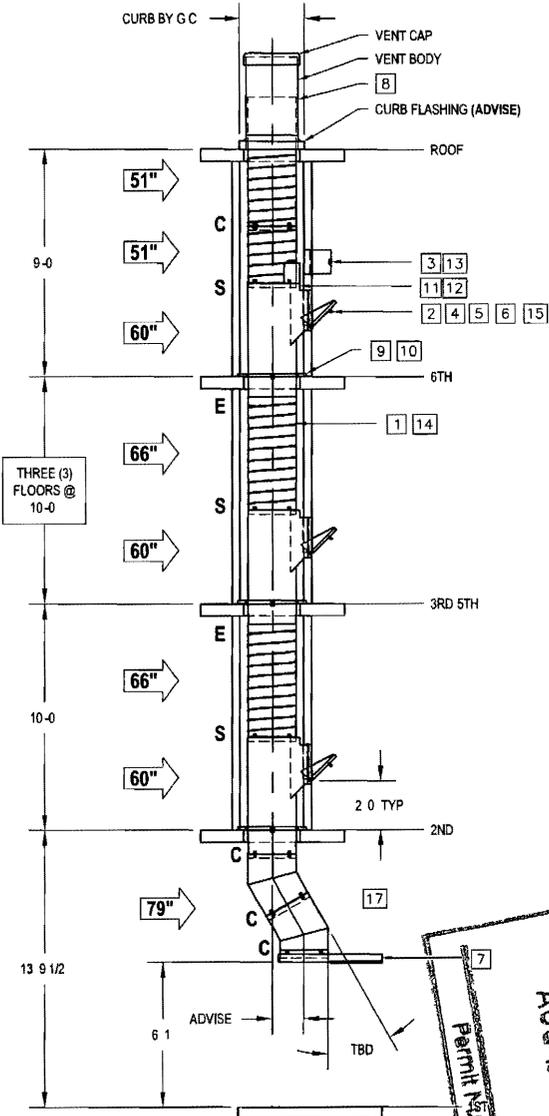


250° DOORS

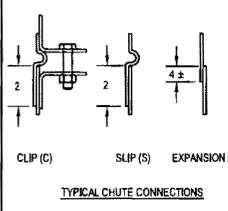
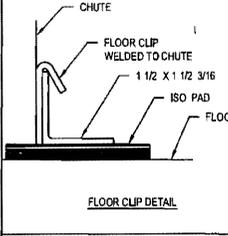
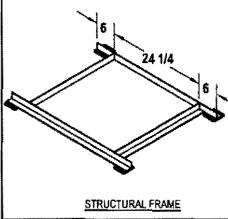
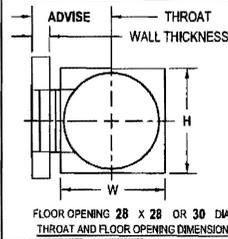


"FOR APPROVAL"

CONFIRM

WALL THICKNESS
FLOOR HEIGHT
STRUCTURAL FRAME
THROAT LENGTH
DISCHARGE ELEVATION
FLASHING INFORMATION
OFFSET INFORMATION

City of Portland
 REVIEWED FOR CODE
 COMPLIANCE
 AUG 22 2011
 Permit Number

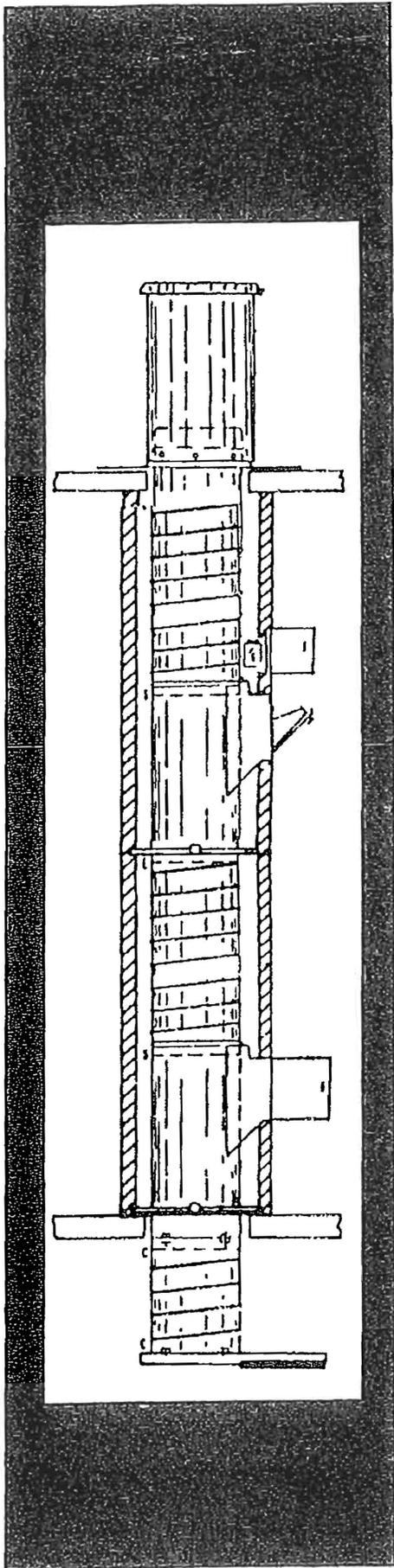


ITEM	QTY	CHUTE	MATERIAL LISTING	TOTAL
		DESCRIPTION		
1	1		TRASH CHUTE 24 DIA FABRICATED OF 16 GA ALUMINIZED STEEL LINEN CHUTE DIA FABRICATED OF GA	1
2	5		INTAKE DOOR 15 WIDE X 18 HIGH BOTTOM HINGED HAND OPERATED SILENT SELF-CLOSING AND LATCHING STAINLESS U.L. 1 1/2 HR B LABEL 250 MAX TEMPERATURE RISE WITH CYLINDER LOCK KEYS ALIKE WITH INTERLOCKS	5
3	1		ACCESS DOOR 15 WIDE X 15 HIGH SIDE HINGED HAND OPERATED STAINLESS STEEL PIANO HINGE ON RIGHT HAND SIDE STAINLESS STEEL U.L. 1 1/2 HR B LABEL 250 MAX TEMPERATURE RISE WITH CYLINDER LOCK KEYS ALIKE	1
4	5		THRU WALL DOOR WIDE X HIGH HINGED SELF-CLOSING AND LATCHING STAINLESS STEEL PIANO HINGE ON HAND SIDE SILENT STAINLESS STEEL U.L. 1 1/2 HR B LABEL WITH BOTTOM SLEEVE PROJECTING 3 BEYOND BACK OF WALL READY FOR INSTALLATION BY MASON OR DRYWALL CONTRACTOR	5
5	5		ELECTRIC INTERLOCKS 120 V 60 HZ PROVIDED SO ONE INTAKE DOOR CAN BE OPENED AT A TIME WITH ILLUMINATED IN USE LIGHT & PUSH BUTTON	5
6	5		BACK-DRAFT BAFFLES <input checked="" type="checkbox"/> FLEXIBLE RUBBER <input type="checkbox"/>	5
7	1		STAINLESS STEEL DOOR FRAME TRIM (OPTIONAL) 20 GA STAINLESS STEEL MOLDING SCREW FASTENED TO FRAME <input checked="" type="checkbox"/> EMBOSSED RUBBISH	5
8	1		DISCHARGE DOOR CENTURY TYPE D-HS HORIZONTAL ROLLING DOOR 165 F FUSIBLE LINK HOLD OPEN INSULATED B LABEL CONSTRUCTION	1
9	5		DISCHARGE DOOR CENTURY TYPE D-TH WIDE X HIGH TOP HINGED STAINLESS STEEL DOOR U.L. 1 1/2 HR B LABEL WITH 2 1/2 S FLOOR DRAIN FOR CONNECTION BY OTHERS	1
10	20		VENT CENTURY CHUTE TYPE G 24 DIA X 48 HIGH 16 GA ALUMINUM WITH COMBINATION BRD SCREEN/SPARK ARRESTOR VENT DIA X HIGH GALVANIZED WITH RAIN CAP ROOF JACK DIA VENT PIPE AND TOP CAP ON TOP OF CHUTE STACK	20
11	1		CHUTE SUPPORT 1 1/2 X 1 1/2 X 1/4 ANGLE STRUCTURAL FRAME TO SUPPORT EACH FLOOR OF CHUTE 4 CLIPS WELDED TO CHUTE TUBE CONNECT WITH STRUCTURAL FRAME	5
12	3		STRUCTURAL FRAME EQUIPPED WITH <input type="checkbox"/> GROMMETS <input type="checkbox"/> FLOOR CLOSURE PLATES <input type="checkbox"/> MASON TYPE N NEOPRENE MOUNT <input checked="" type="checkbox"/> NEOPRENE ISOLATORS 3 X 3	1
13	1		FLUSHING SPRAY HEAD 3/4 LP S INSTALLED IN SPRAY HEAD CHAMBER ABOVE AND ON THE LEFT SIDE OF INTAKE DOOR LOCATED ON 6TH FLOOR READY FOR CONNECTION BY PLUMBER	1
14	LOT		SPRINKLERS 1/2 1 P S 165 FUSIBLE LINKED AUTOMATIC INSTALLED IN SPRAY HEAD CHAMBER ABOVE AND ON THE RIGHT SIDE OF INTAKE DOOR LOCATED ON 2ND, 4TH, 6TH FLOORS READY FOR CONNECTION BY PLUMBER	3
15	5		AUTOMATIC ON-OFF SPRINKLERS LOCATED ON FLOORS SPRINKLER OPENS AT 165 F RE-CLOSES AUTOMATICALLY	1
16	1		DISINFECTING AND SANITIZING UNIT PROVIDED AS SHOWN ON CHUTE ELEVATION VACUUM BREAKER AND VALVE SUPPLIED BY OTHERS	1
17	1		SOUND DEADENING <input checked="" type="checkbox"/> FACTORY SPRAY COAT OF SOUND DAMPENER (BLACK) <input type="checkbox"/> DAUBERT 3680 V-DAMP SOUND DAMPENER (WHITE)	LOT
18	5		DOOR INSTALLATION <input type="checkbox"/> MASONRY WALL WALL THICKNESS <input type="checkbox"/> DRYWALL WALL THICKNESS <input type="checkbox"/> ADVISE WALL THICKNESS	5
19	1		MANUAL SWITCH HEAT SENSOR AND SMOKE DETECTOR FOR INTERLOCK SYSTEM	1
20	1		ADVISE HORIZONTAL TBD REINFORCED DOUBLE OFFSET AT DISCHARGE	1

GENERAL NOTES
 OPENINGS TO BE ACCESSIBLE AND FREE OF OBSTRUCTION PRIOR TO INSTALLATION
 PARTITIONS AROUND CHUTES TO BE ERECTED AFTER CHUTES ARE INSTALLED
 DRYWALL CAVITY SHAFTWALL TO BE ERECTED IN ACCORDANCE WITH INSTALLATION DRAWING NO C-44100
 SEE SHEET OF
 WALLS TO BE ERECTED SO INTAKE DOOR FRAMES ARE SQUARE & FLUSH WITH FINISH WALL.
 STRAIGHT SECTIONS MAY BE FINISHED MECHANICALLY LOCK SEAMED OR CONTINUOUS BUTT WELDED

Century CHUTE & SUPPLY (815) 467-7921
 105 INDUSTRIAL DR MINOOKA IL 60447

REV	DESCRIPTION	DATE	INTERIOR TECHNOLOGY	SCALE	NONE	DRAWN BY	DAVE
A	SHOW DISCHARGE OFFSET	07-25-11	PORTLAND OR	DATE	03-14-11	CHECKED BY	
	PDF SENT VIA EMAIL	03-14-11		WO #	16180	DWG #	1 OF 2



CENTURY CHUTE & SUPPLY

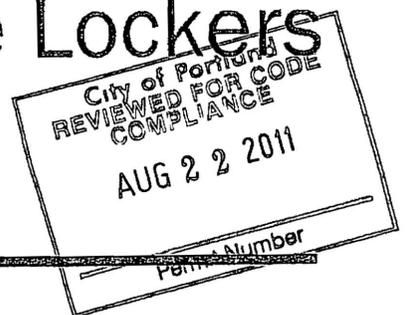
Rubbish Chutes

Linen Chutes

Compactors

Recycling Systems

Storage Lockers

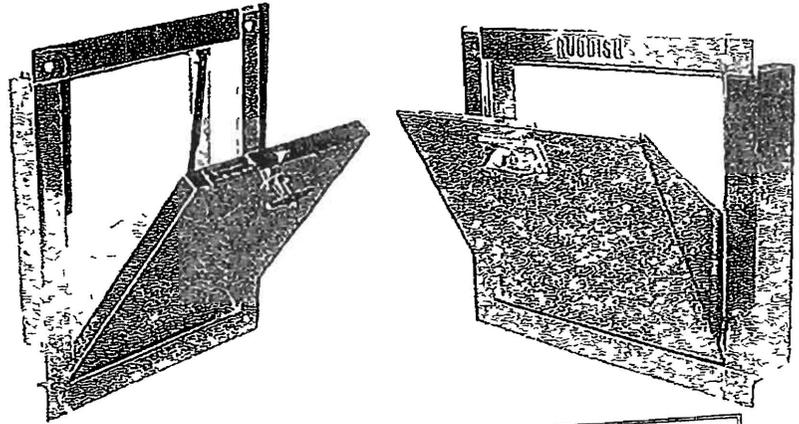


the best choice.

DOORS

TRASH (TYPE B-H)

Doors are constructed of 20-gauge 304 stainless steel fronts, 18-gauge aluminized steel backs and bear a 1½ hour U/L "B" label (450° maximum rise in 30 minutes) Doors have a No 4 stainless finish, unmarred by welds Doors are bottom hinged and equipped with silent, self-closing, self-latching closure units Century's hopper doors are available with a heavy-duty piano-type hinge, or a cold rolled steel shaft hinge



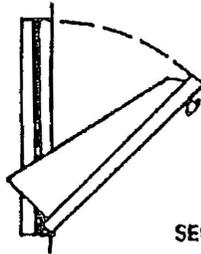
STYLE M

City of Tyngsboro
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 COMPLIANCE
 AUG 22 2011
 Permit Number

SIZES (Nominal)

A	B
12"	15"
15"	18"
18"	18"
21"	18"
24"	24"

Frame dimensions equals A + ½" B + 1¼"



SECTION

OPTIONS:

- Customized Interlocking Systems
- Foot-Operated Doors
- Electric Opening Doors
- Cylinder Locks Keyed to Building System
- Specific Sizes to Retrofit Existing Chutes

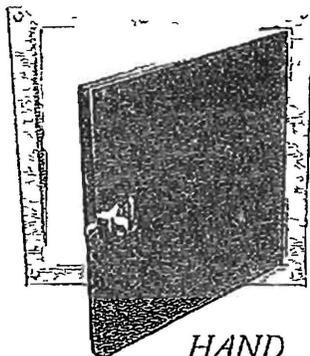
LINEN AND ACCESS (Type L-S)

Doors are constructed of 20-gauge 304 stainless steel fronts, 18-gauge aluminized steel backs, and bear a 1½ hour U/L "B" label (450° maximum rise in 30 minutes). Doors have a No 4 stainless finish, unmarred by welds Doors are side hinged and equipped with silent, self-closing, self-latching closure units

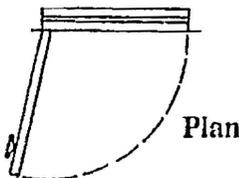
SIZES (Nominal)

A	B
12"	12"
15"	15"
18"	18"
21"	21"
24"	24"

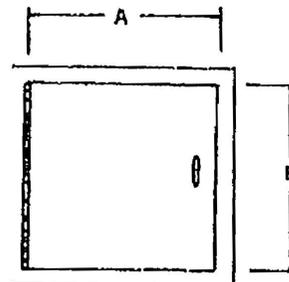
Frame dimensions equals A + ½", B + ½"



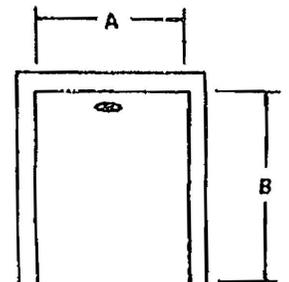
HAND OPERATED



Plan



ELEVATION



ELEVATION

LINEN CHUTES

(Recommended door sizes)

Chute Diameter In Inches	Door Size (A x B) In Inches
15	12 X 12
18	15 X 15
20	18 X 18
24	21 X 21
30	24 X 24

TRASH CHUTES

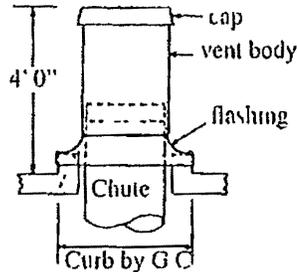
(Recommended door sizes)

Chute Diameter In Inches	Door Size (A x B) In Inches
15	12 X 15
18	12 X 15
20	15 X 18
24	15 X 18
30	18 X 18

NOTE Century Chute & Supply "B" label doors are available for either drywall construction or masonry construction

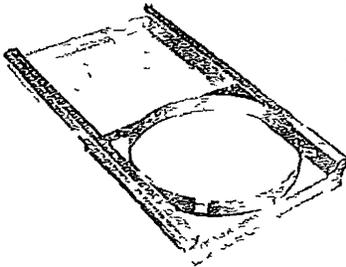
VENTS

TYPE G: To comply with NFPA Standard #82, the Trash and Linen Chutes must extend full diameter through the roof into a vent 4' 0" high. Contractor must indicate whether roof is flat, curved, or pitched prior to fabrication.

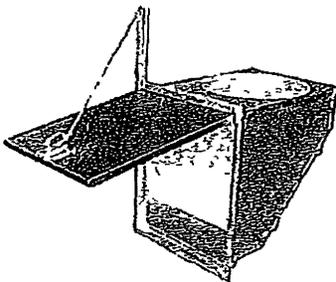


OUTLETS

TYPE D-HS. HORIZONTAL STEEL ROLLING DOOR. Door is solid core steel, "B" label construction equipped with wheel rollers and fusible link. This door can be used on either Trash or Linen Chutes.



TYPE D-TH: HOPPER TYPE TOP HINGED "B" LABEL DOOR. Stainless steel door for use with Linen Chutes where material must be directed from one area to another. A direct discharge is always the most desirable. This outlet is only a substitute where direct discharge cannot be used. This hopper is equipped with top hinged door and fusible link.

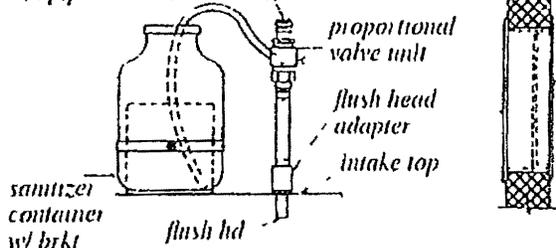


Chute Diameter in Inches	Door Size (A x B) in Inches
12	12 X 24
15	15 X 24
18	18 X 30
20	20 X 30
24	24 X 30
30	30 X 36

SANITIZING UNIT

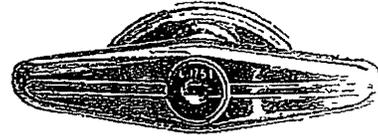
This unit may be ordered to attach to the flushing system to apply disinfectant to the chute. It has an "On-Off" valve for regulation.

1/2 pipe connection to hot water



LOCKS AND LATCHES

Standard tee-handle, polished chrome finish. May be keyed to your system.



SPRINKLER HEADS

165° 1/2" I.P.S. sprinkler heads are provided at the top floor and every other floor down. These automatically activate the water system in case of fire.

FLUSHING HEAD

1/2" I.P.S. Flushing Head is provided at the top of the chute for washdown purposes. This is connected to the water supply by the plumber.

DOOR TRIM

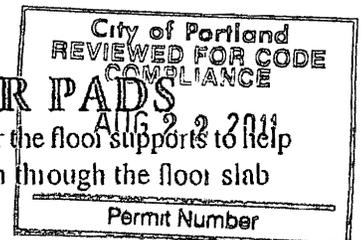
20-gauge stainless steel door trim mouldings are available for each Intake door. Metal finish to match doors, embossed "RUBBISH" or "SOILED LINEN".

HANDICAPPED ACCESSIBLE ELECTRICALLY OPERATED DOORS

These special intake doors are designed to comply with the Americans With Disabilities Act requirements.

ISOLATOR PADS

These pads are installed under the floor supports to help eliminate sound transmission through the floor slab.



BAFFLES

Rubber or metal baffles are available to eliminate backdrafts, which are common in hi-rise chute applications.

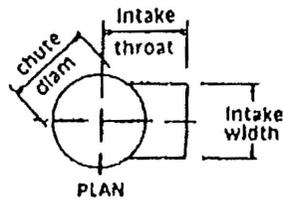
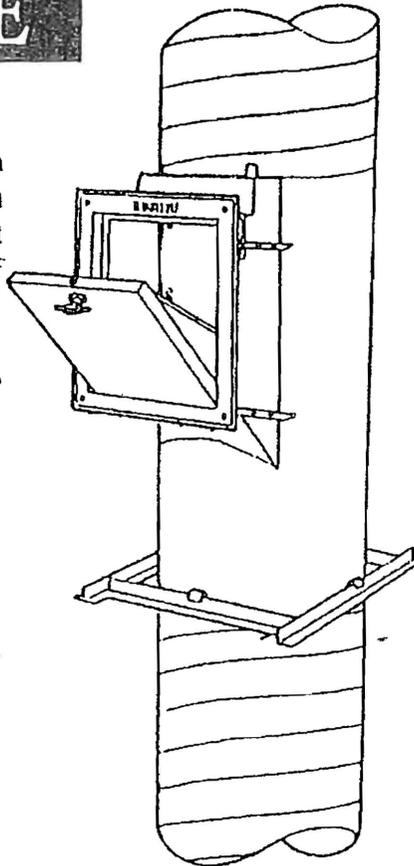
INTERLOCKS

When one intake door is open, the rest remain locked.

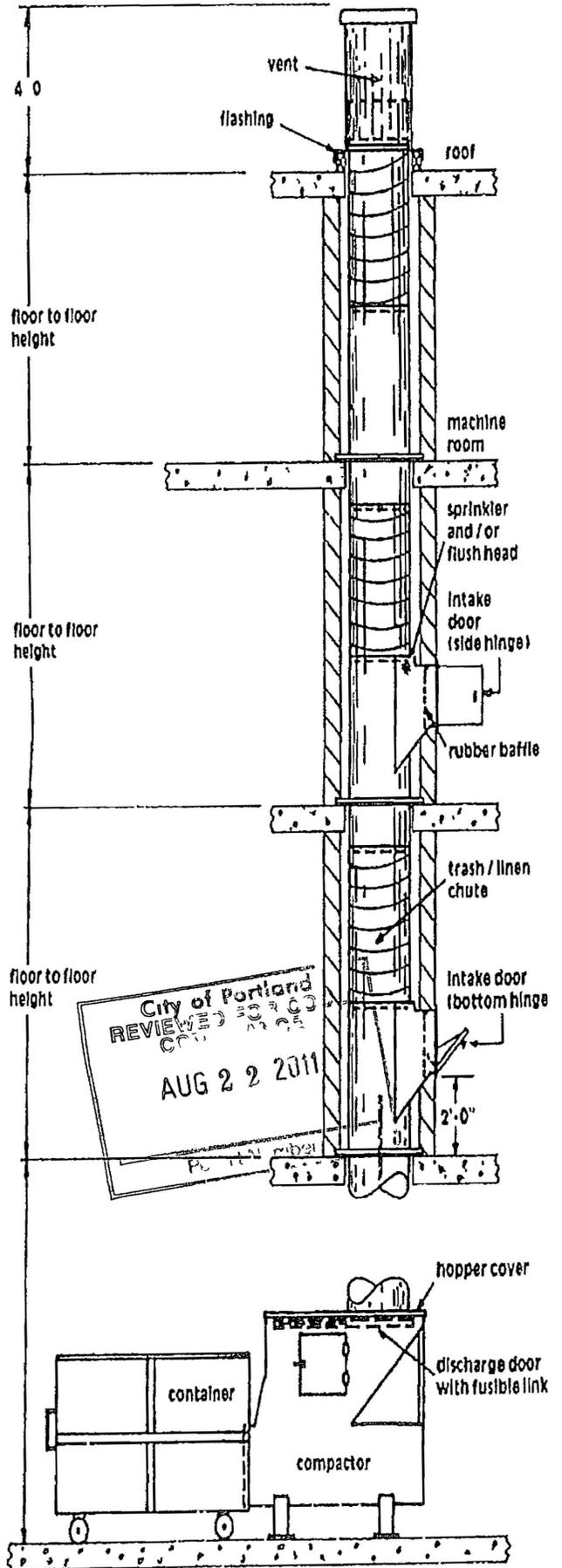
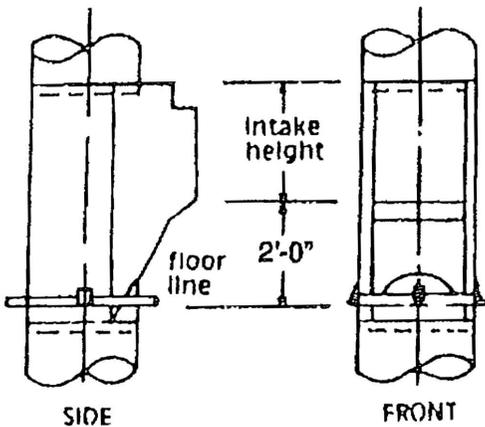
CHUTE

A basic chute contains:

- Intake sections with a specified door installed in unit and an expansion joint to make up the balance of floor height
- Angle iron floor braces to support the chute
- Outlet door equipped with fusible link to close in case of fire
- Full Diameter Vent to extend four feet above roof level
- Sprinkler Head and Flushing Head at the top of the chute and extra sprinkler heads at every other floor
- Extra items may be ordered such as Sanitizing Unit, Access Doors, Smoke Detectors, and Electric Interlocks



Floor opening is chute dia + 4



CHUTE SPECIFICATIONS

RUBBISH/LINEN CHUTE

Furnish one 24" dia round 16 ga aluminized steel, (304 stainless steel and 430 stainless steel also available) rubbish/linen chute as manufactured by Century Unit is factory assembled with doors bolted in place. All seams mechanically locked or butt welded. Chute shipped in sections needing only to be slip joined at time of erection.

DIRECT DISCHARGE (TYPE D-HS)

Chute equipped with one 24" steel rolling discharge door. Door is solid core "B" label construction and is equipped with roller bearings for smooth operation.

LINEN INTAKES

Provide 21" x 21" side hinged intake doors where shown on plans. Doors must bear a 1½ hour U L "B" label (temp rise 30 min 450° max). Doors equipped with silent self closing door closers. Door has a No 4 finish, unmarred, with no exposed welds or soldered seams. Model L-S as manufactured by Century Chute & Supply.

VENT

Chute to extend full diameter 4' above the roof, with solid top.

RUBBISH INTAKE

Provide 15" x 18" bottom hinged hopper intake doors where shown on plans. Doors must bear a 1½ hour U L "B" label (temp rise 30 min 450° max). Doors equipped with silent self closing door closers. Door has a No 4 finish, unmarred, with no exposed welds or soldered seams. Model B-H as manufactured by Century Chute & Supply (Type M or W).

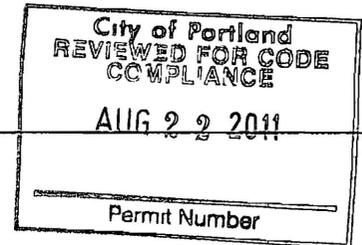
SPRINKLERS-FLUSHING HEADS

165° fusible sprinkler heads ½" I P S where shown on plans. Sprinkler is fastened at top of intake throat with threaded connectors for plumber connection. Provide one ½" I P S flushing head at top of chute nozzle to have threaded connectors for plumber connection.

CHUTE SUPPORTS

1½" x 1½" x ⅛" steel angle supports provided at each floor. Steel hanger clips are factory welded at 90° onto chute.

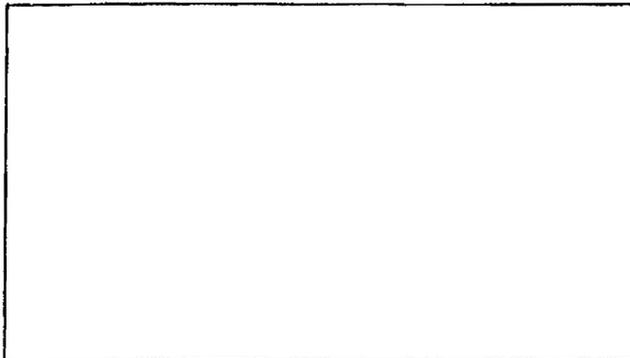
NOTE Specifications subject to change without notice.



CENTURY

CHUTE & SUPPLY

DISTRIBUTED BY:



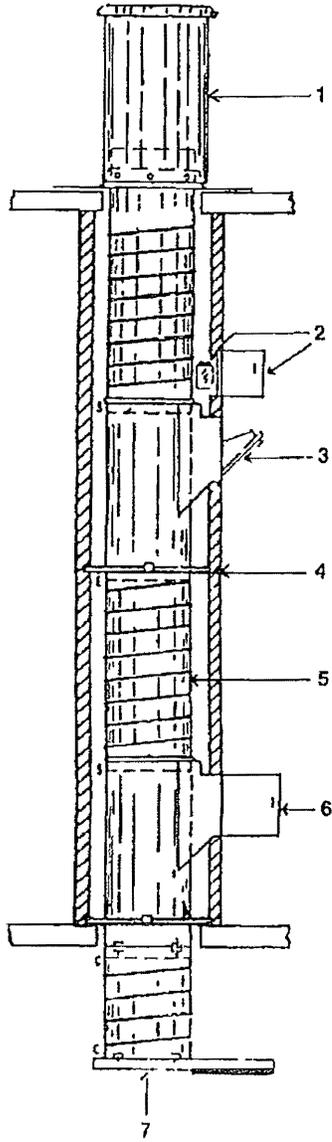
105 Industrial Drive
Minooka, Illinois 60447

PH: (815) 467-7921

FAX: (815) 467-7989

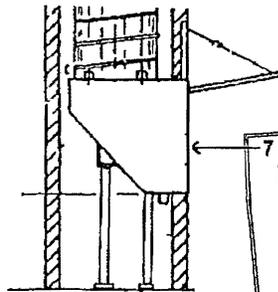
service@centurychuteandsupply.com

CHUTE SECTION



ITEM

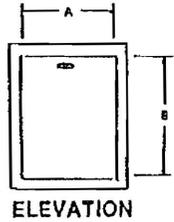
- 1 VENT
- 2 SANITIZER/ACCESS DOOR
- 3 INTAKE DOOR
- 4 FLOOR FRAME
- 5 SPIRAL PIPE
- 6 INTAKE DOOR
- 7 DISCHARGE DOOR



City of Portland
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AUG 22 2011
Permit Number

CHUTE INTAKE DOORS

TRASH (Type B-H)



ELEVATION



SECTION

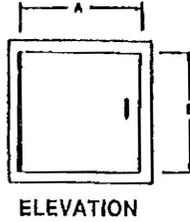
SIZES (Nominal)

A	B
12"	15"
15"	18"
18"	18"
21"	18"
24"	24"

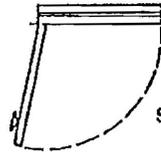
20 gauge - No 4 stainless steel fronts,
18 gauge aluminized steel backs *
UL 1-1/2 hr 'B' label
Bottom hinge with silent self-closing
closer Opens approximately 45 degrees

- Durable shaft hinge

LINEN (Type L-S)



ELEVATION



SECTION

SIZES (Nominal)

A	B
12"	12"
15"	15"
18"	18"
21"	21"
24"	24"

20-gauge - No 4 stainless steel fronts,
18 gauge aluminized steel backs *
UL 1-1/2 hr 'B' label
Side hinged with silent self closing,
latching closer Opens 180 degrees

- Piano type hinge

* Backs available in stainless steel for hospitals, etc

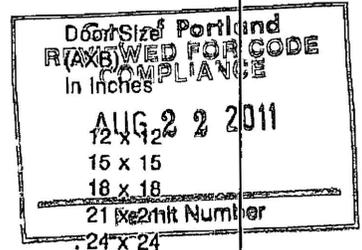
RECOMMENDED DOOR SIZES

TRASH CHUTES

Chute Diameter In inches	Door Size (AXB) In Inches
15	12 x 15
18	12 x 15
20	15 x 18
24	15 x 18
30	18 x 18

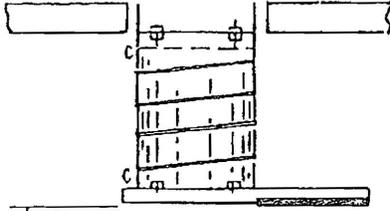
LINEN CHUTES

Chute Diameter In Inches	Door Size (AXB) In Inches
15	12 x 12
18	15 x 15
20	18 x 18
24	21 x 21
30	24 x 24



Century Chute and Supply
Minooka IL 60447
4/03

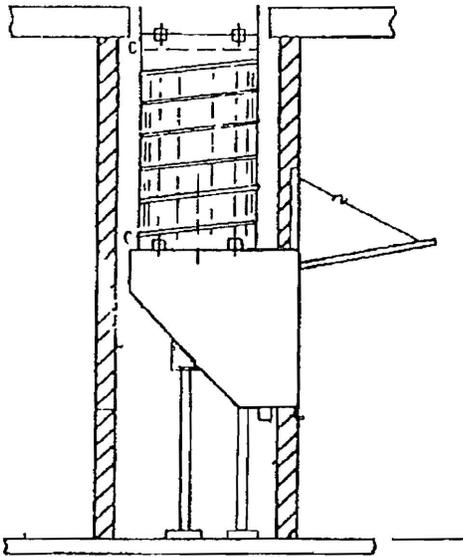
DISCHARGE DOORS



HRD

■ HORIZONTAL ROLLING/ SLIDING DOOR

of 'B' label construction, allows for vertical drop
Commonly used on trash chutes. Equipped with
fusible link. Spring loaded for positive closing action.
Mounts horizontally or inclined equipped with wheels
to roll shut in the event the fusible link is melted

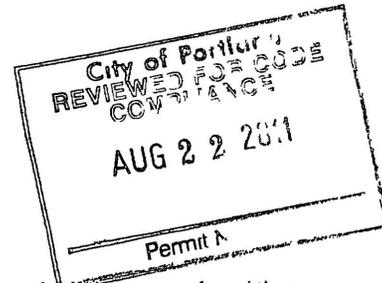


D-TH

■ TOP-HINGED HOPPER-TYPE DOOR

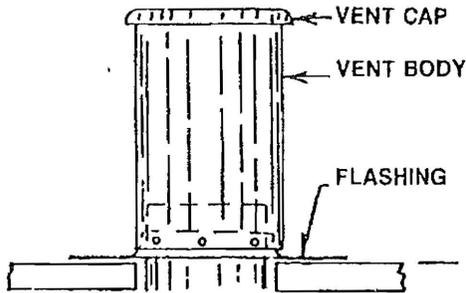
bears a UL 'B' label and allows for side discharge
Commonly used on linen chutes. Supported by 4
legs standard. Equipped with fusible link. Will "slam"
shut in the event the fusible link is melted

■ Both types of discharge doors must be held open at all times for if they were closed they could create a blockage/storage of materials in the chute. Any backup of materials could cause damage to the chutes and also create a fire/smoke hazard



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4/03

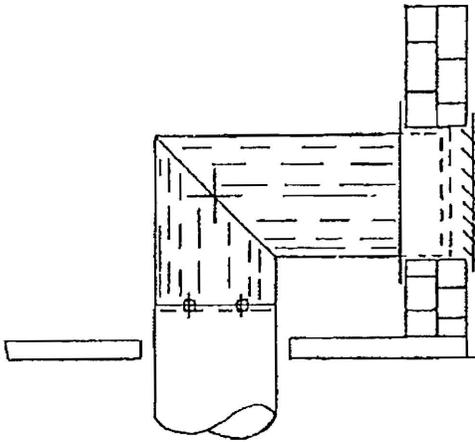
VENTS



FDV

FULL DIAMETER VENT

- Most commonly used vent.
Can be provided with flashing for curb, flat, or sloped roof



LOUVER

LOUVER SIDE-WALL VENT

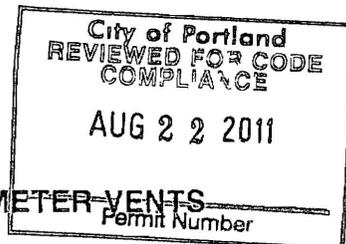
- Used mainly when obstructions absolutely prevent venting thru roof or where there are numerous floors above where chute intakes are not required

Be aware of your local codes with respect to non NFPA specifications!

REDUCED DIAMETER VENTS

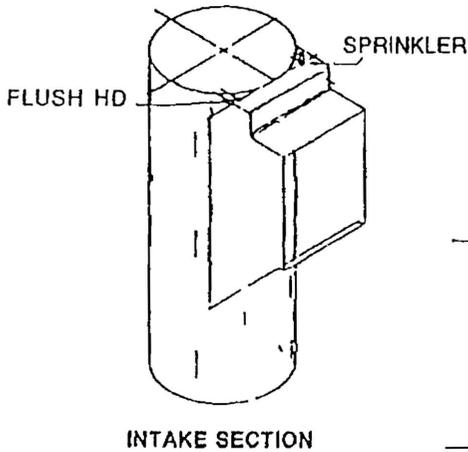
- Reduced diameter vents have on occasion been provided in lieu of full diameter vents with 3" diameter being the most common in high rise buildings due to its reduction of updraft

Again, be aware of your local codes with respect to non NFPA specifications!

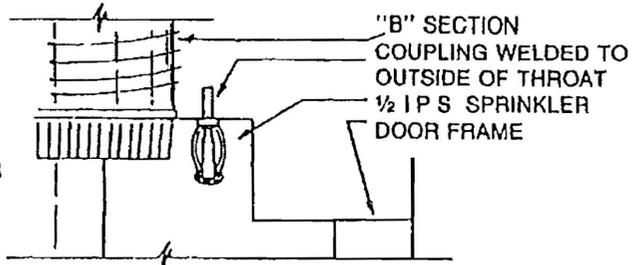


Century Chute and Supply
Minooka IL 60447
4/03

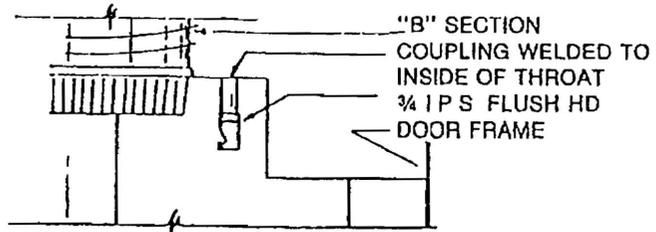
FLUSHING/SPRINKLER HEADS



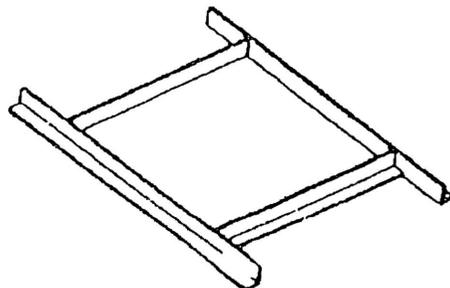
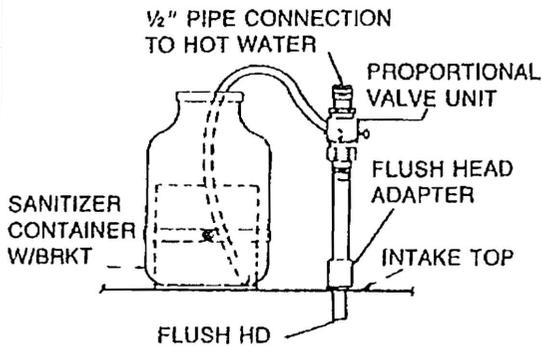
INTAKE SECTION



SPRINKLER DETAIL @ INTAKE



FLUSH HEAD DETAIL

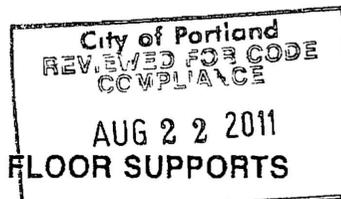


SANITIZING UNIT

■ This unit may be ordered to attach to the flushing system to supply disinfectant to the chute. It has an "On-Off" valve for regulation and will need an access door.

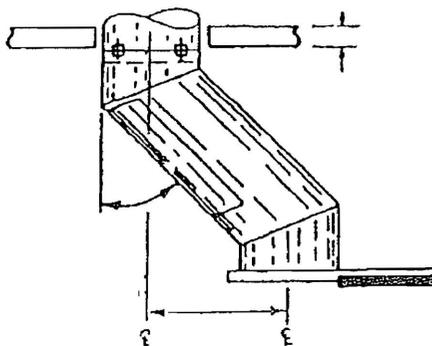
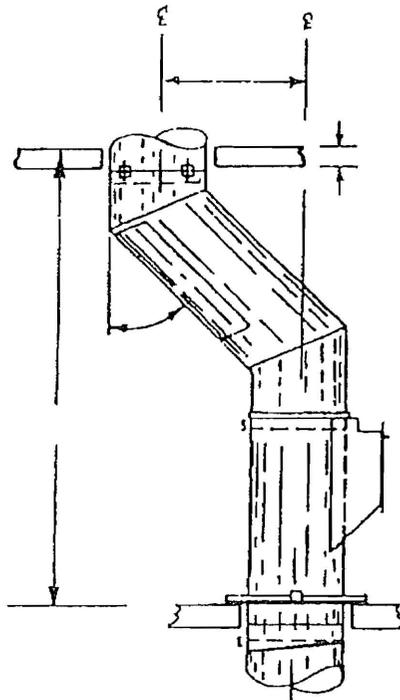
CHUTE FLOOR SUPPORTS

■ 1-1/2 X 1-1/2 X 1/8" Per-Steel Hanger supports provided at each floor-level. Steel hanger clips are factory welded at 90° onto chute.



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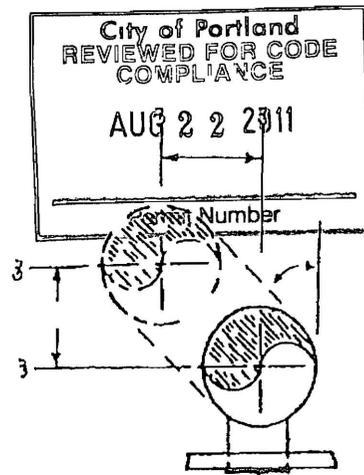
OFFSETS



Midland recommends against the use of offsets, but obviously there are exceptions. The bend should be as slight as possible with 15° off vertical usually not a problem. Our maximum is 45° , but the set must not exceed 6' - 0" from center to center.

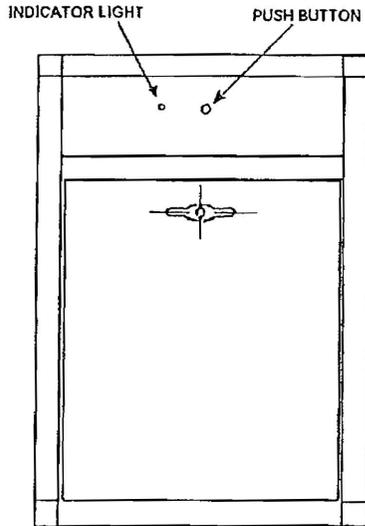
All sets are reinforced with impact plates whose thickness is determined by the height of the building above the set and the severity of the set. Taller buildings might require an extra thick impact plate and/or cradle support.

Consider these two principles: The bowling ball theory for damage and the syrup theory when the interior of the chute becomes "sticky" preventing trash from sliding through. Therefore, we reinforce with impact plates and also recommend clean out panels.



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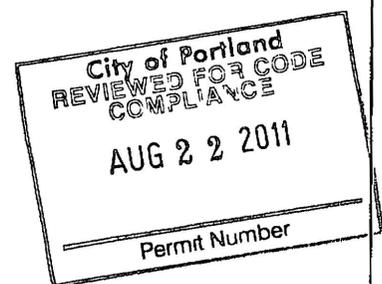
DOOR ACCESSORIES



ELECTRIC INTERLOCKS

Prevents more than one door from being opened at one time. Can be equipped with heat sensor and/or smoke detector to prevent doors from being opened in the event of a fire. System can also be equipped with a manual shut off switch.

Electric interlock doors are best suited for hospitals and/or chutes with controlled access to intake doors. Not recommended for residential applications.



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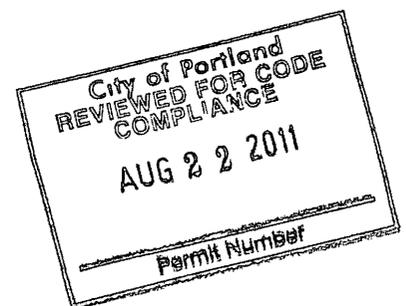
OPERATING INSTRUCTIONS FOR ELECTRICAL INTERLOCK DOORS

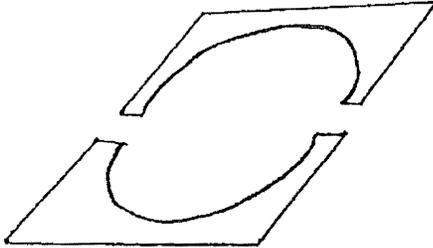
The interlock consists of one snap-action switch, solenoid, push button and indicator light operating on 110V AC, 60 Hz, single phase.

The door is unlocked by depressing the push button on the face of the interlock box which retracts the interlock latch. This permits the door to be opened.

When the door is pulled open approximately 3/8", the snap-action switch is actuated which diverts power from the solenoid circuit to the indicator light circuit and prevents additional chute doors from being unlocked.

When placing trash or linen in chute, depress the push button to Open the door. Door will not open if red light is on, indicating that Another door is in use. Once red indicator light is off, depress the push button to open the door.





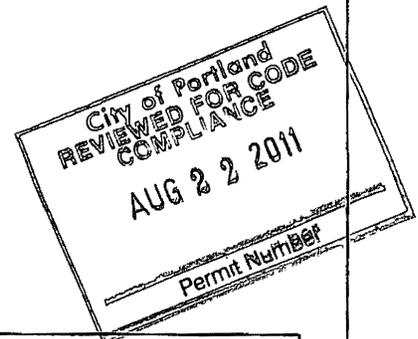
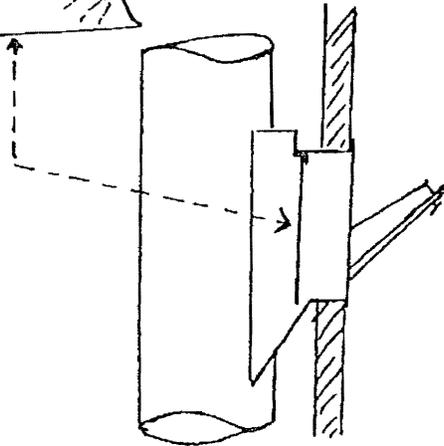
CLOSER PLATES

- Often called firestop plates, their intent is to seal off the chute to the floor slab at each floor level to prevent fire from spreading up the shaft. Closer plates are usually required at the first penetration only.
Made of 16 or 18 gauge aluminized or galvanized sheet
Usually located on top of the floor slab, but occasionally are put underneath with expansion anchors
If specifications call for mineral filler or other type of insulating material this is to be provided by others



BAFFLES

- Located in the throat of the chute. Designed to reduce backdrafts which can be a major problem in highrise buildings of more than ten stories. Made of thick rubber, 1/8" is recommended for 15 stories or less with 1/4" for taller ones



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SOUND ABATEMENT

SOUND COATINGS

■ The most common types of sound abatement for chutes are listed below along with their respective sound deadening qualities

Black mastic is the most common type specified and has become the standard in the chute industry. Its primary goal is to take the metallic "ring" from the metal. It is the most economical but falls short of the other two in effectiveness.

Glass Fibre is primarily a heat/cold transmission barrier, even though it has been used as sound abatement on chutes. Its effectiveness is not much better than standard black mastic. Because of the field application of this material, its cost will exceed the sprayed on type abatement.

Visco elastic is the most effective sound dampener of the three and is becoming more widely used even though it sells at a premium.

Effectiveness Comparison Chart By Geiger Method

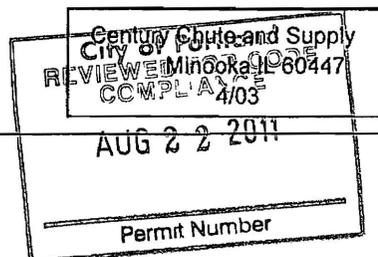
Thick Plate Test 20" x 20" x 1/4" Plate

Type of Material	Thickness of Material	Decay Rate db/sec	Surface Weight per sq ft
BITUMINOUS MASTICS - Daubert Pioneer # W-31 - Mortell #1100	1/16" - 1/8"	3-5 db	0.33 lb
GLASS FIBRE	1/2"	4.5 db	0.25 lb
VISCO ELASTIC - Korfund Vibro Damper - Aquaplas DL-10 - Soundcoat GP 1 - Hush Mush	1/8" - 1/4"	35-55 db	0.484 lb

ISOLATOR PADS

■ Standard isolator pads are 1/4" thick rubber which are placed under the leg of the floor support. Their purpose is to prevent sound transmission from the chute, through the support, to the floor, and hence, to the living areas of the building.

The standard 1/4" pad is very effective, however other types of pads are available when specified.



Century CHUTE

Chute Installation Instructions

Installation of the chute begins with distribution of each piece to the proper floor

The installation drawing provides the location by floor of each different length straight section of Chute

Each Intake section is marked by floor to insure correct placement of sprinkler and flush heads

Once the material has been distributed, installation begins at the first floor level above discharge*

- 1 Install Isolators (If required)
- 2 Place floor support angle over the hole in the floor and attach as necessary *
^Frames can be attached directly to the floor as defined by the installer
- 3 Slide intake over the floor support angle section of the chute
- 4 After Intake section of chute has been set, slip beaded end of straight section into top of intake section Make certain the piece is fully seated into intake

Note Some floors will require more than one straight section Follow the installation drawing for proper length

Bolt straight sections together where ever bolting clips are required. Two bolts are required and sufficient to secure straight sections These two bolts can be installed at any of the four mounting clips at the connection point

- 5 Repeat steps 1, 2, & 3 on continuing floors, inserting intake section into straight section below This joint allows for an expansion joint of approximately 4 inches
- 6 After all floors of chute have been installed, begin at the first intake floor aligning each door plumb, level, and flush to the proposed wall
- 7 The last straight section of the chute will protrude the roof approximately 18" The flashing collar is set over the curing provided by the contractor The vent body and cap are then secured over the chute and flashing using sheet metal screws Chalk where necessary
- 8 The discharge door can be installed last* The first intake is provided with clips welded to the bottom These match the holes in the hanging brackets on the top of the discharge portion Bolts are provided for assembly

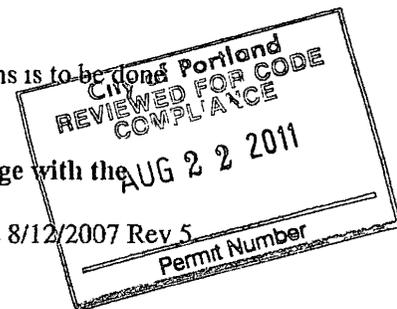
Be sure to check the installation drawing There may be more straight sections between intake and discharge These straight sections are provided with clips on the top and bottom

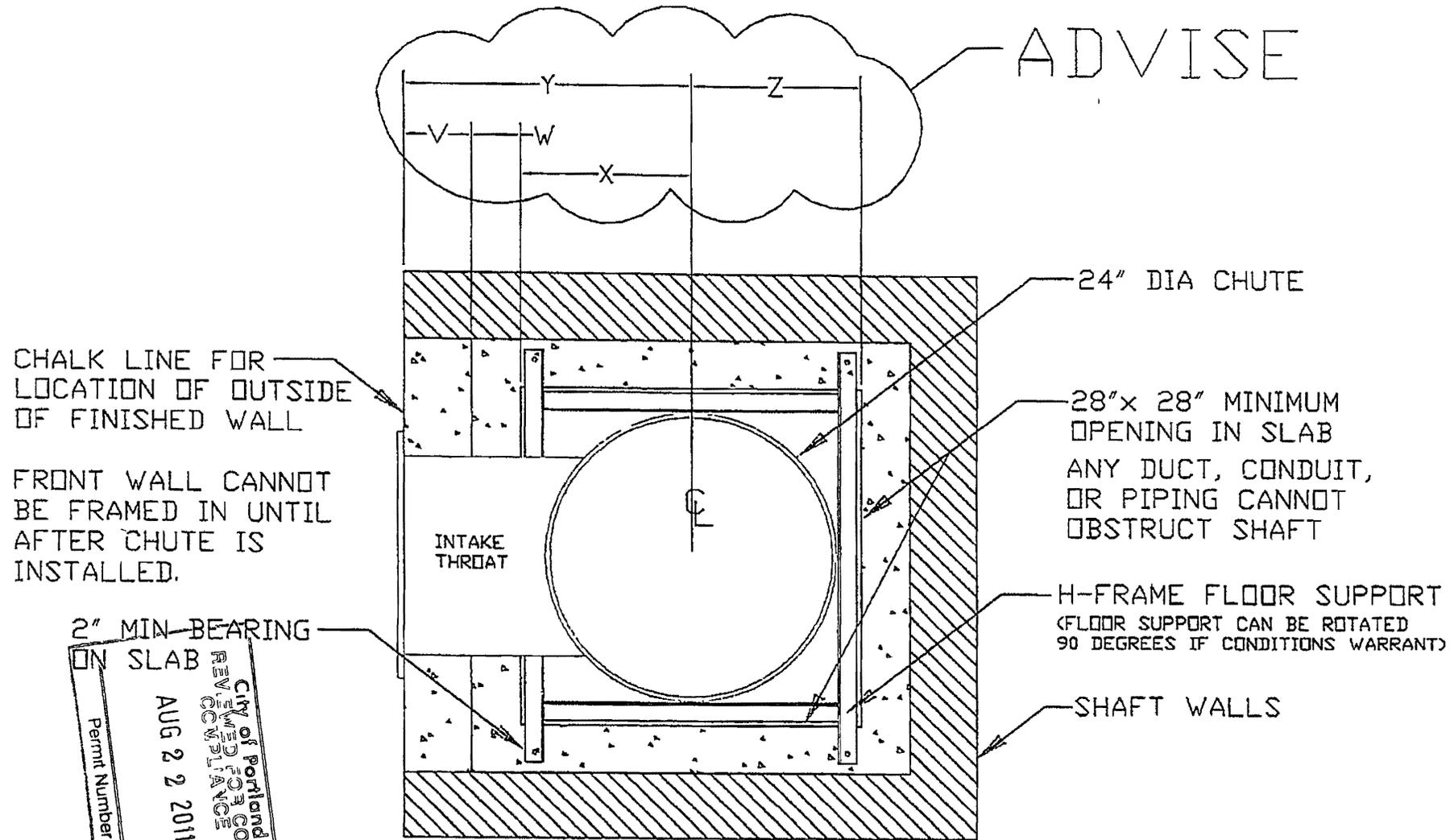
Access door and sanitizer units are to be installed by the contractor

Sprinkler and flushing heads are factory installed The Piping to these connections is to be done by the sprinkler plumbing contractor

*If a D-TH Hopper type discharge is used, Installation is to begin at the discharge with the hopper.

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ADVISE

CHALK LINE FOR LOCATION OF OUTSIDE OF FINISHED WALL

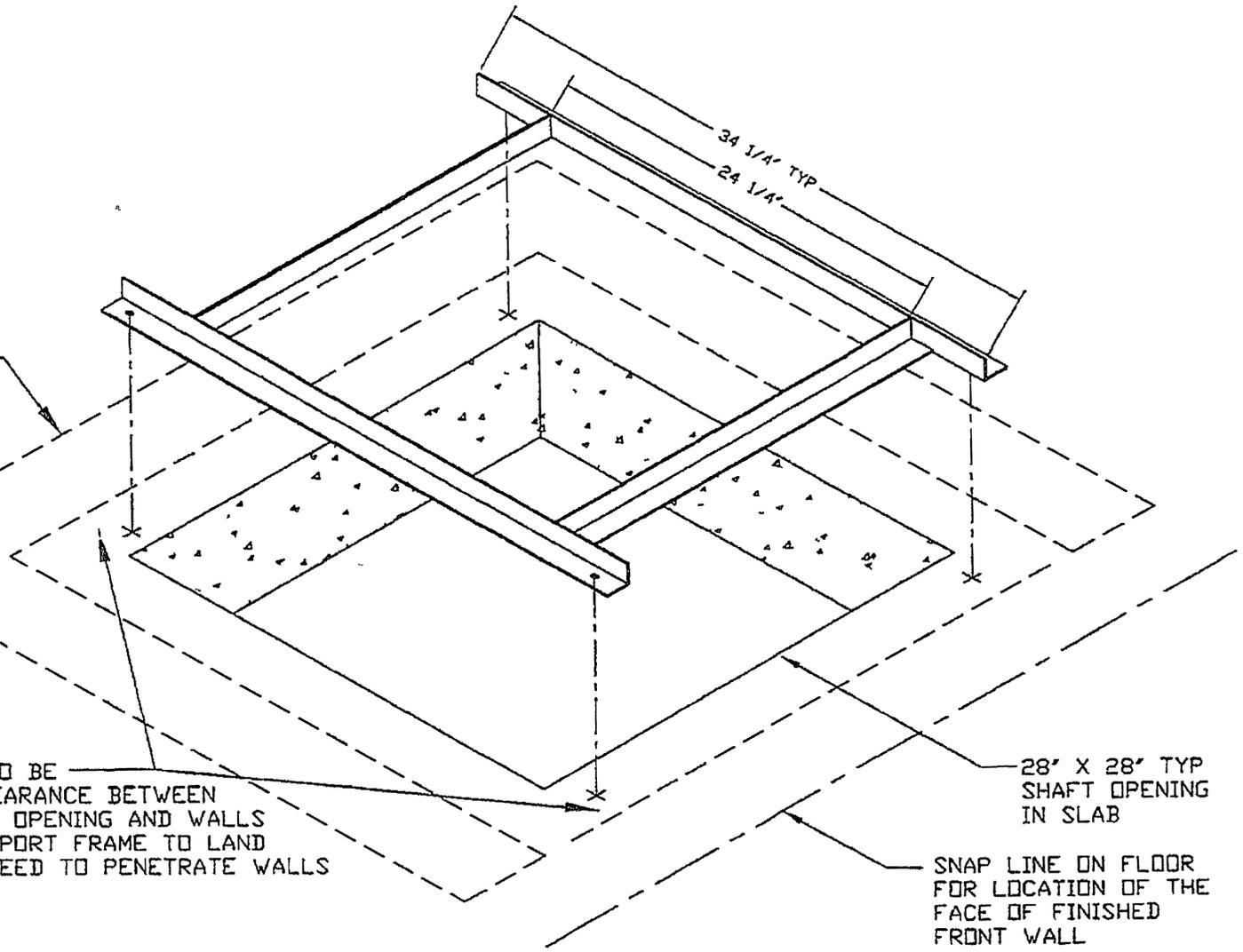
FRONT WALL CANNOT BE FRAMED IN UNTIL AFTER CHUTE IS INSTALLED.

2" MIN BEARING

ON SLAB
 City of Portland
 REVIEWED FOR CODE
 COMPLIANCE
 AUG 22 2011
 Permit Number

CHUTE AND SHAFT
 TOP VIEW

City of Portland
 REVIEWED FOR CODE
 COMPLIANCE
 AUG 22 2011
 Permit Number



THERE NEEDS TO BE
 SUFFICIENT CLEARANCE BETWEEN
 EDGE OF SHAFT OPENING AND WALLS
 FOR FLOOR SUPPORT FRAME TO LAND
 WITHOUT THE NEED TO PENETRATE WALLS

28" X 28" TYP
 SHAFT OPENING
 IN SLAB

SNAP LINE ON FLOOR
 FOR LOCATION OF THE
 FACE OF FINISHED
 FRONT WALL

TYPICAL CHUTE SHAFT