



TRASH CHUTE

INSTRUCTION MANUAL



INTRODUCTION

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The Granite Construction Trash Chute is made from a linear medium density polyethylene resin developed for rotational molding. It provides a quick, safe and easy trash chute system to remove trash from the work area. The Granite chute has both high stiffness and excellent impact resistant properties.

The following instructional manual has been provided to ensure your trash chute system is installed properly and safely. Incorrect installation or misuse of this chute system will result in property damage and severe personal injury or death. It is imperative that this manual be read and understood in its entirety prior to commencing installation. If at any time you do not understand or have questions concerning the proper installation or use of this chute system, please contact your local dealer or the manufacturer before proceeding.

CHUTE HEIGHT & WEIGHT – PHOTOCOPY THIS PAGE

Before the trash chute system is lifted into place, its height and weight should be calculated. With this information, the appropriate locations for the parapet outrigger and support frame can be determined by the installers.

JOB NAME: _____

1. What is the anticipated chute height? _____ height in feet

2. How many chute sections will be needed? _____ height in feet $\div 3.5 =$ _____ number of sections needed

3. Calculate the total weight of the chute system using the form below:

Intake Hoppers: _____ x 65 lbs. = A _____ total weight of intake hoppers

Intermediate Hoppers: _____ x 70 lbs. = B _____ total weight of intermediate hoppers

Standard Chutes: _____ x 38 lbs. = C _____ total weight of standard chutes

Chute Liners: _____ x 34 lbs. = D _____ total weight of chute liners

A + B + C + D = _____ total weight of chute system



Intake Hopper
TRS-HP
Overall Ht. 48"
Intake Throat 28" x 24"
Bottom Diameter 28"



Intermediate Hopper
TRS-IH
Overall Ht. 48"
Intake Throat 28" x 24"
Bottom Diameter 28"



Chute Section
TRS-CH
Overall Ht. 48"
Max. Usable Ht. 42"
Top Diameter 32"
Bottom Diameter 28"



Chute Liner
TRS-CL
Overall Ht. 48"
Liner Construction
18 Ga. Steel

4. Does the total weight of the chute system exceed 1000 lbs?
If "YES", then additional parapet outriggers / support frames are required.

Granite Industries

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Email: support@graniteind.com

CHUTES & HOPPERS CALCULATION CHART

		Number of Chutes																			
		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
Number of Hoppers	1	Wt.	293#	331#	369#	407#	445#	483#	521#	559#	579#	635#	673#	711#	479#	787#	825#	863#	901#	939#	977#
		Ht.	21'	24.5'	28'	31.5'	35'	38.5	42'	45.5	49	52.5	56	59.5	63	66.5	70	73.5	77	80.5	84.0
	2	Wt.	358#	396#	434#	472#	510#	548#	586#	624#	662#	700#	738#	776#	814#	852#	890#	928#	966#	--	--
		Ht.	24.5'	28'	21.5'	35'	38.5'	42'	45.5'	49	52.5	56	59.5	35	66.5	70	73.5	77	80.5	--	--
	3	Wt.	423#	461#	499#	537#	575#	613#	651#	689#	727#	765#	803#	841#	879#	917#	955#	993#		--	--
		Ht.	28'	31.5'	35'	58.5'	42'	45.5'	49'	52.5	56	59.5	63	66.5	70	73.5	77	80.5		--	--
	4	Wt.	488#	526#	564#	602#	640#	678#	716#	754#	792#	830#	868#	906#	944#	982#	--	--	--	--	--
		Ht.	31.5'	35'	38.5'	42'	45.5'	49'	52.5'	56	59.5	36	66.5	70	73.5	77	--	--	--	--	--
	5	Wt.	553#	591#	629#	667#	705#	743#	781#	819#	857#	895#	933#	971#	--	--	--	--	--	--	--
		Ht.	35.0'	38.5'	42'	45.5'	49'	54.5'	56'	56.5	63	66.5	70	73.5	--	--	--	--	--	--	--
	6	Wt.	618#	656#	694#	732#	770#	808#	846#	884#	922#	960#	998#	--	--	--	--	--	--	--	--
		Ht.	38.5'	42'	45.5'	49'	49'	46'	59.5'	63	66.5	70	73.5	--	--	--	--	--	--	--	--
	7	Wt.	683#	721#	759#	797#	835#	873#	911#	949#	987#	--	--	--	--	--	--	--	--	--	--
		Ht.	42'	45.5'	49'	52.5'	56'	59.5'	63'	66.5	70	--	--	--	--	--	--	--	--	--	--
	8	Wt.	748#	786#	824#	862#	900#	938#	976#	--	--	--	--	--	--	--	--	--	--	--	--
		Ht.	45.5'	49'	54.5'	56'	59.5'	63'	66.5'	--	--	--	--	--	--	--	--	--	--	--	--
	9	Wt.	813#	851#	889#	927#	965#	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Ht.	49'	52.5'	56'	59.5'	63'	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	10	Wt.	878#	916#	954#	992#	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		Ht.	52.5'	56'	59.5'	63'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Note: For dead loads (empty chute & hopper) over 1000# an additional support frame is needed. Contact factory.

COMPONENTS LIST



Intermediate Hopper
TRS-IH (74026)
Overall Ht. 48"
Intake Throat 28" x 24"
Bottom Diameter 28"



Chute Section
TRS-CH (74001)
Overall Ht. 48"
Max. Usable Ht. 42"
Top Diameter 32"
Bottom Diameter 28"



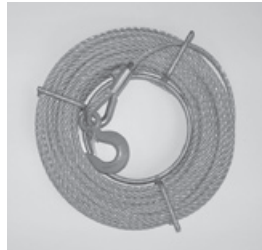
Intake Hopper
TRS-HP (74002)
Overall Ht. 48"
Intake Throat 28" x 24"
Bottom Diameter 28"



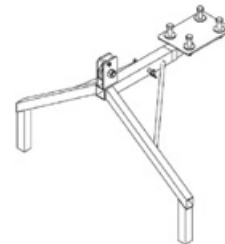
Chute Liner
TRS-CL (74003)
Overall Ht. 48"
Liner Construction
18 Ga. Steel



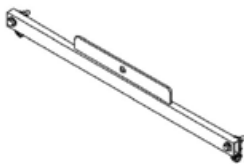
Winch Hoist
TRS-WH (74037)



75' Cable Assembly
TRS-WCA (74038)



Winch/Pulley Stand
TRS-WPS (74036)
Overall Length 38"



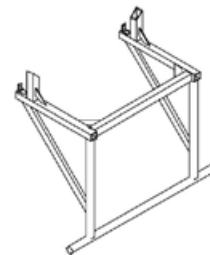
Lifting Bar
TRS-LB (74008)
Overall Length 38"



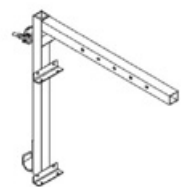
Lifting Chains
TRS-LC (74009)
Overall Length 28"



Hopper Support Leg
TRS-HSL (74011)
Overall Length 27-1/2"



Support Frame
TRS-SF (74012)



Outrigger
TRS-OR (74013)



Screw Jack Clamp
TRS-SJC (74014)



Roof Top
Connection
Sleeve
TRS-RTCS6 (74015)
Overall Length 72"



Roof Top
Extension
Arm
TRS-RTEA6 (74016)
Overall Length 72"



Roof Top
Weight
Support
TRS-RTWS (74017)



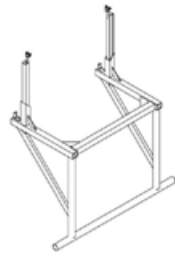
Swivel Clamp
TC-ES (40003)



Slab Guard Rail Post
SLBGPTT (20097-01)

PACKAGES

Support Frame Package (Required)

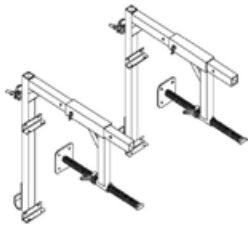


PACKAGE A:

Support Frame Package

TRS-HSL	2	Hopper Support Leg (Set)
TRS-SF	1	Support Frame

Outrigger Packages (Choose 1)

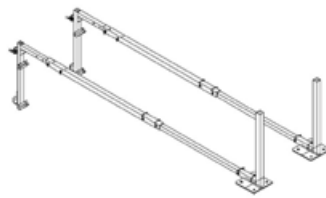


PACKAGE B1:

Window Outrigger Package

TRS-SJC	2	Screw jack Clamp
TRS-OR	2	Outrigger

*Sill plates lumber (not included)



PACKAGE B2:

Roof Top Outrigger Package

TRS-RTCS6	2	Connecting Sleeve - 6'
TRS-OR	2	Outrigger
TRS-RTEA6	2	Extension Arm
TRS-RTWS	2	Weight Support
TRS-RTTB	2	Tie Back 50' L

*Counter weights needed (based on chute length)



PACKAGE B3:

Scaffold Outrigger Package

TRS-8NE	4	8'L Support Tubes
TRS-ES	12	Swivel Clamps

All Support Systems must be tied off to secure anchor point.

Winch / Hoist Packages (Optional)



PACKAGE C1:

Winch Assembly Package

TRS-WPS	1	Winch/Pulley Stand
TRS-WCA	1	Winch Cable Assembly
TRS-LB	1	Lifting Bar
TRS-LC	1	Lifting Chains (Set)
TRS-WH	1	Winch

CAUTIONS AND WARNINGS

WARNING!

FAILURE TO COMPLY WITH THESE INSTRUCTIONS OR TO USE THIS PRODUCT IMPROPERLY MAY RESULT IN SERIOUS INJURY OR DEATH.

**ALWAYS BARRICADE THE WORK AREA AT GROUND LEVEL
PRIOR TO CHUTE INSTALLATION**

ASSEMBLY:

- DO NOT assemble this trash chute system without reading and understanding the operation manual, assembly instructions and warnings.
- DO NOT attach the chute parapet outriggers to a support structure that is unable to support the total weight of the chute system.
- DO INSPECT all components before and during assembly. Any damaged chain, hooks, mounting hardware, outriggers, winch, or any other chute component shall not be used.
- DO WEAR a full body safety harness and lanyard at all times when assembling, disassembling or adjusting a trash removal system. The lanyard must be attached to an independent lifeline or other structurally sound attaching point.
- DO KNOW the total chute height and all hopper locations before assembly. Adjust chain length during assembly.
- DO INSTALL an outrigger assembly every 1,000 lbs of chute.
- DO TIE the chute system to the structure at every hopper and at intermediate intervals to prevent excessive movement.
- DO USE a rope or cable inside the system for ease of movement and to create a gradual sloping of the chute when necessary.
- DO INSTALL a guardrail on all levels where the hopper is used.

USE:

- DO NOT attempt to discard trash larger than 2/3 of the diameter of the chute (20" diameter) or sharp objects that could puncture the chute.
- DO NOT allow trash to accumulate within or at the bottom of the chute system.
- DO NOT use the trash removal system as a slide or exit ramp for people.
- DO NOT enter the chute to clear an obstruction.
- DO NOT place any part of your body in any portion of the trash hopper or trash chute system.
- DO NOT leave the chute unattended. Either raise or remove the bottom sections at the end of each work period or when the chute is not in use.
- DO CORDON off or barricade the area under and around the chute to keep personnel from falling trash.
- DO CHECK the dumpster or truck periodically to ensure there are not obstructions.
- DO UNTIE the chute system before moving the dumpster or truck.

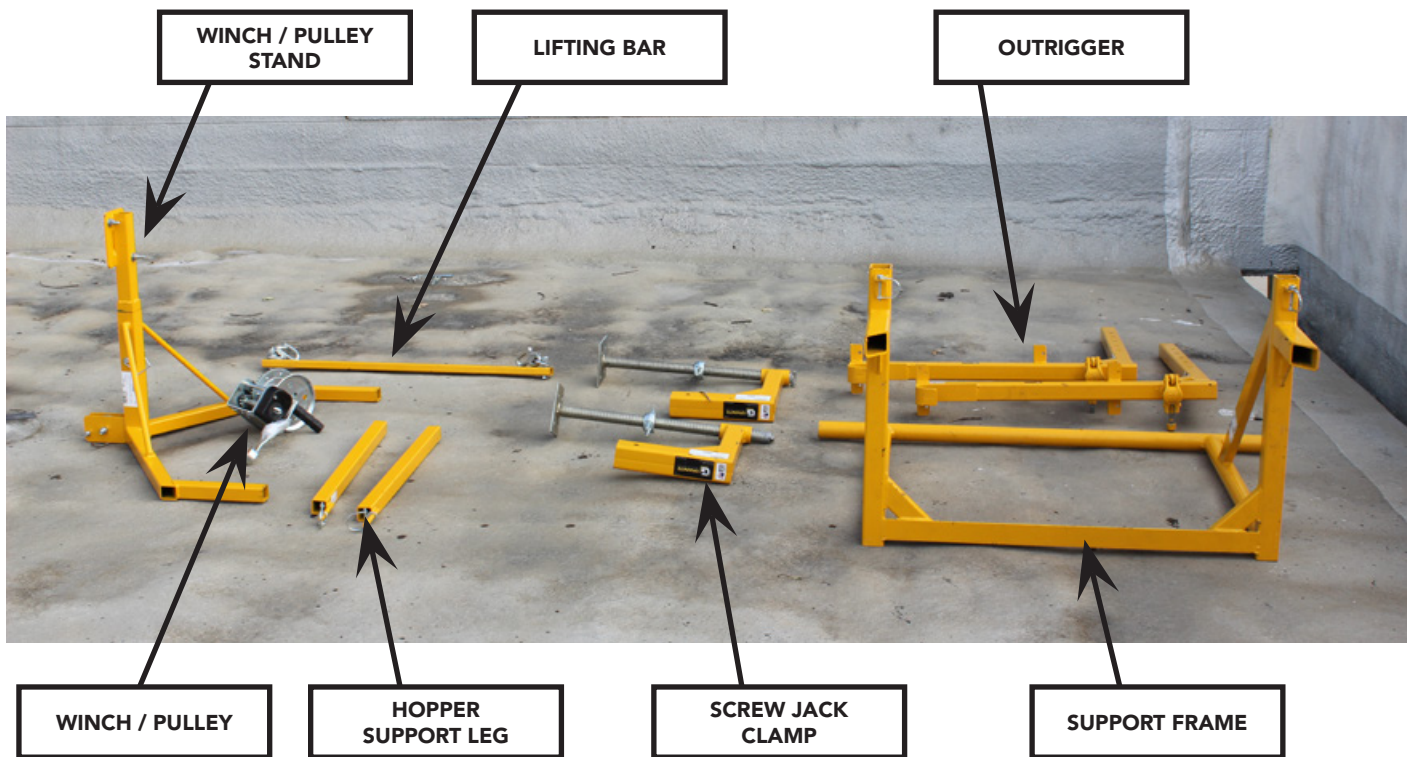
**IN ADDITION TO THE ABOVE, FOLLOW ALL FEDERAL, OSHA, STATE AND
LOCAL CODES AND REGULATIONS FOR PROPER USE OF THIS EQUIPMENT.**

PARAPET WALL / WINDOW FRAME ASSEMBLY

**ALWAYS BARRICADE THE WORK AREA AT GROUND LEVEL
PRIOR TO CHUTE INSTALLATION AND WEAR PROPER SAFETY GEAR AND
FALL PROTECTION.**



Window Outrigger Components



PARAPET WALL / WINDOW FRAME ASSEMBLY



Place the screw jack clamps into the outriggers and secure with the provided snap pin.
Adjust the placement as needed to fit over the window or parapet wall.



Boards may be added to increase stability and/or protect the building facade.

PARAPET WALL / WINDOW FRAME ASSEMBLY



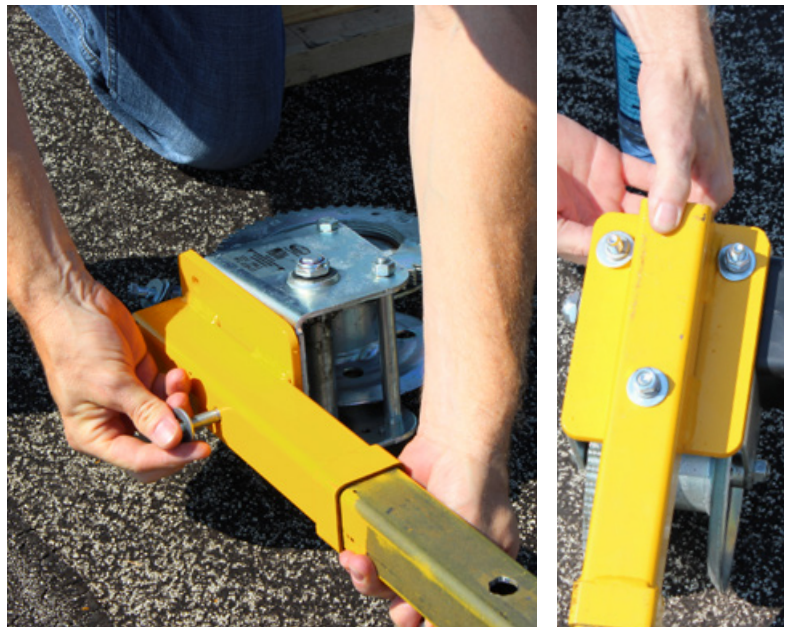
Set the window outrigger in place, tightening down the screw jacks.



Add the support frame to the window outrigger. The bottom bar should rest in the hooks on the outriggers.



Secure the support frame in place by swinging the clamps into place and tightening them down.



Mount the winch to the arm of the winch/pulley stand. Secure with the three nuts, bolts and washers provided. Slide the arm back into the winch/pulley stand and secure with the provided snap pin.

HOISTING THE CHUTE SECTIONS



Route the cable through the winch and secure it in place. Tighten bolts to secure the cable.

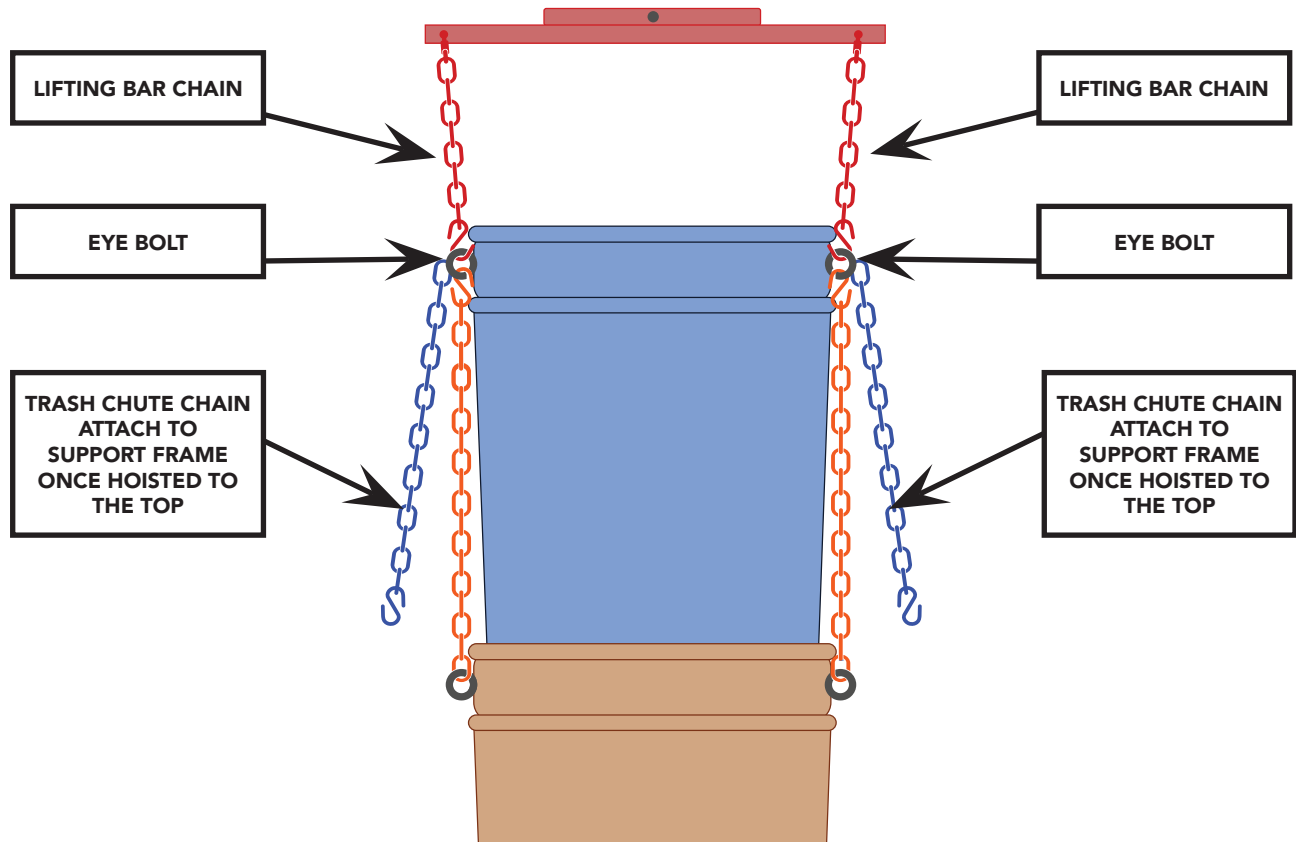


Unreel approximately 6' of cable from the winch. Route the cable through the pulley by removing the top bolt. Replace top bolt when installed.



Hook the lifting bar onto the free end of the winch cable. Ensure you have either eye contact or radio contact between workers at the base work area and at the winch work area. Once contact is made, lower the lifting bar to the ground.

HOISTING THE CHUTE SECTIONS

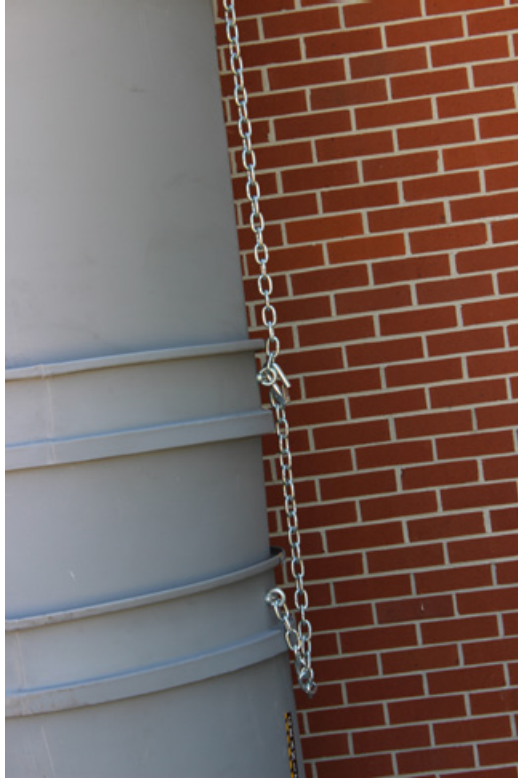


Connect the lifting chains from the lifting bar to the eye bolts of the first chute. The chains attached to the first chute will be used to connect to support frame once your chutes are hoisted to the top.



Ensure you have either eye contact or radio contact between workers at the base work area and at the winch work area. Once contact is made begin turning the hoist to pull up the first chute. Upon secure attachment of the lifting chains as directed in the above items, signal for the chute section to be raised to a height (approx 3.5') for the next chute section to be connected. Signal the operator to stop lifting the chutes. Attach the chute connecting chains to the eyebolts of the chute above. Verify that the chains are hooked at the same location and are not twisted.

HOISTING THE CHUTE SECTIONS



Repeat these steps until the chute is raised to the outriggers or 1000 lbs of chute system are in use. Raise the chute assembly until the lifting bar is right below the bottom of the horizontal member of the support frame.



Then, attach the free legs of the lifting chain over the lug on top of the support frame on both sides. Lock in place with a snap pin. Upon securing the lifting chains to the support frame, carefully lower the winch cable until all the weight is transferred to the support frame.

FINAL STEPS



Remove the lifting bar from the cable hook.

Remove the bolt that goes over the pulley at the end of the hoist mount.

Remove the winch and winch mounting bar from the winch stand.



Remove the winch stand.

Store the lifting jig, winch, pulley stand and cable in a safe location.



Insert hopper support legs into parapet outriggers with the round stud towards the chutes.

FINAL STEPS



Install the top intake hopper on the outriggers, with the studs on top of the support legs going through the chains on the hopper. Insert a snap pin through the hole on the stud to secure the intake hopper in place.



Secure each intermediate intake hopper to the window or floor opening to prevent lateral movement of the chute and damage to the building. Secure the bottom of the chute to the truck to dumpster. Re-tighten the screw jacks and inspect the trash chute before each use.

Your trash chute system is now complete.

FINAL STEPS





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