



INSTRUCTIONS

DEBRIS CHUTE



Picture may differ from actual product.



**READ THESE INSTRUCTIONS CAREFULLY BEFORE USING THIS PRODUCT.
KEEP THIS MANUAL HANDY FOR FUTURE REFERENCE.**

THIS EQUIPMENT MEETS OSHA
1926.852, OSHA 1926.252 AND
CSTC S2-1 STANDARDS.

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GENERAL WARNING



READ BEFORE BEGINNING ASSEMBLY.

INSTALLATION INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR EVEN DEATH. ALWAYS READ AND UNDERSTAND THIS INSTRUCTION MANUAL BEFORE USE.

- Always use the debris chute in accordance with applicable local or national legislation.
- Beware of the risk of falling, always use personal fall protection devices when necessary.
- Do not use this equipment if you are in poor health, take any medication, drugs, or alcohol. This can affect your ability to work safely with our products.
- Be aware of the risk of being struck by falling debris and establish a safety perimeter if necessary.

THE USE OF THE EQUIPMENT MUST BE DONE IN ACCORDANCE WITH THE CORRESPONDING SAFETY REQUIREMENTS AND STANDARDS.

- Inspect the chute components and verify that the chain assemblies are installed correctly prior to installation and during use.
- Do not use if parts are damaged or missing. Replace all damaged or excessively worn components.
- Periodically check the container when using the chute to ensure the proper evacuation of debris. A blockage in the debris chute could cause the system to collapse.
- Do not place any body part inside the chute, whether to check for a blockage, clean up debris or for any other reason.
- Anchor chute sections at regular intervals to prevent excessive movement.
- Do not throw any debris larger than half the diameter of the chute.
- Make sure the structure on which the debris chute rests is able to support the load.

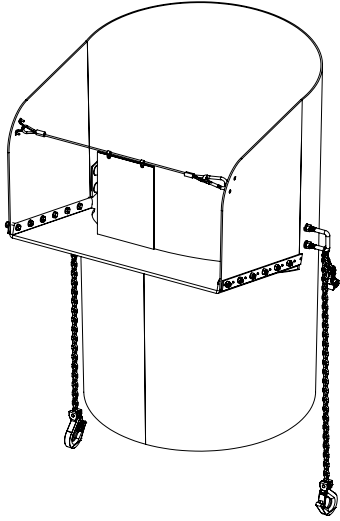
FIRE HAZARD

- Debris chutes are FLAMMABLE. Debris in the waste container may be FLAMMABLE.
- In the event of a fire in the waste container, flames and smoke can quickly spread through the building through the debris chute.
- Always know and understand the fire prevention plans applicable to the work

**This manual complies with OSHA 1926.852, OSHA 1926.252
and CSTC S2-1 standards**

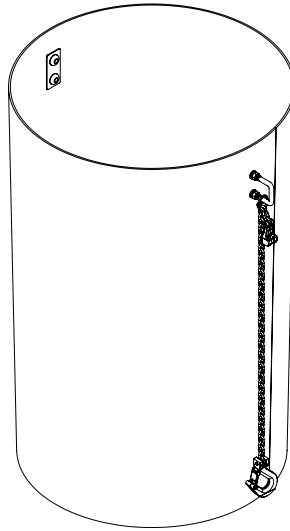
CHUTE SECTIONS

THERE ARE THREE DIFFERENT CHUTE SECTIONS:



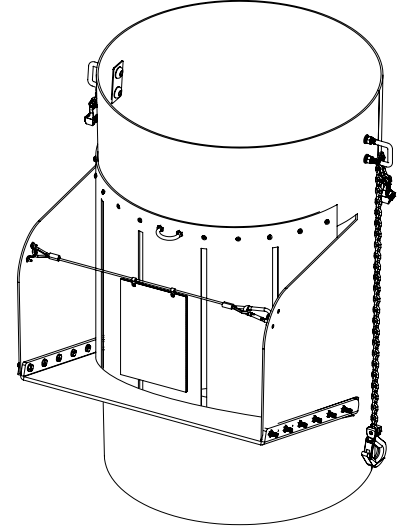
TOP SECTION

Only one top section is needed per drop. It is positioned at the top of the fall. The opening allows debris to be inserted. Contains a slide and a safety board.



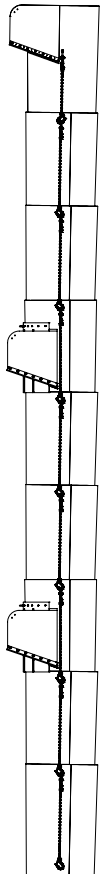
STANDARD SECTION

Standard sections are installed between the doors. They constitute most of the sections found in a traditional installation and offer an overlap of 10 po between them.



DOOR SECTION

Door sections are positioned on each floor from which debris is to be thrown. The opening allows debris to be inserted. Contains a slide, a flap and a safety board.



The drop sections are conical in shape, which allows them to fit into each other. They are all 48 po high.

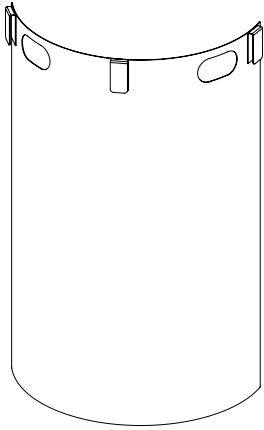
- The drop sections are fitted with chains that allow the drop sections to be tied together. The chains are adjustable in length and grade 80.
- The plastic used for the manufacture of the offcuts is high molecular weight polyethylene (HMWPE) and is 3/16 po (5 mm) thick.
- Two different models are available: **welded model** and **bolted model**

Welded chutes are already assembled and are therefore ready for use. **Bolted chutes** are shipped flat and therefore are more compact in transport.

Our standard chute is 30 po in diameter. The following diameters can also be ordered: 18 po, 23 po, 27 po, 33 po and 36 po.

Ask our customer service for more information.

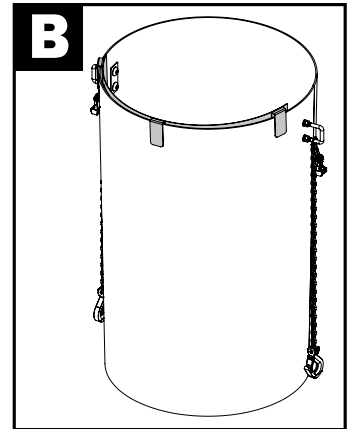
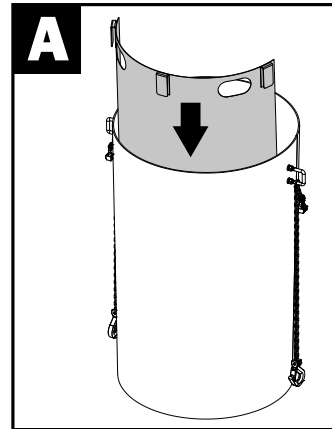
GALVANIZED STEEL LINER



This product is assembled to the drop sections using 3 hooks. It protects the fall from impact and wear caused by heavy debris in areas at risk of premature wear, such as:

- The curves of the last sections leading to the container
- The back walls of the head and door sections

Simply drop the steel liner inside the chute

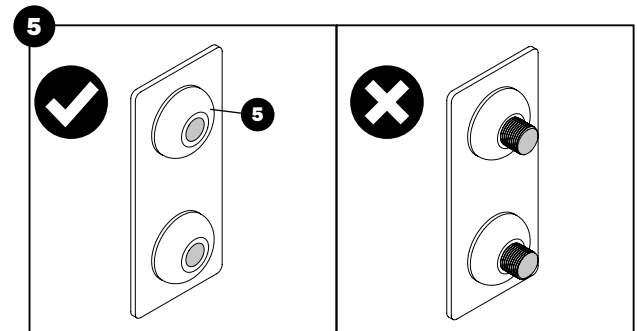
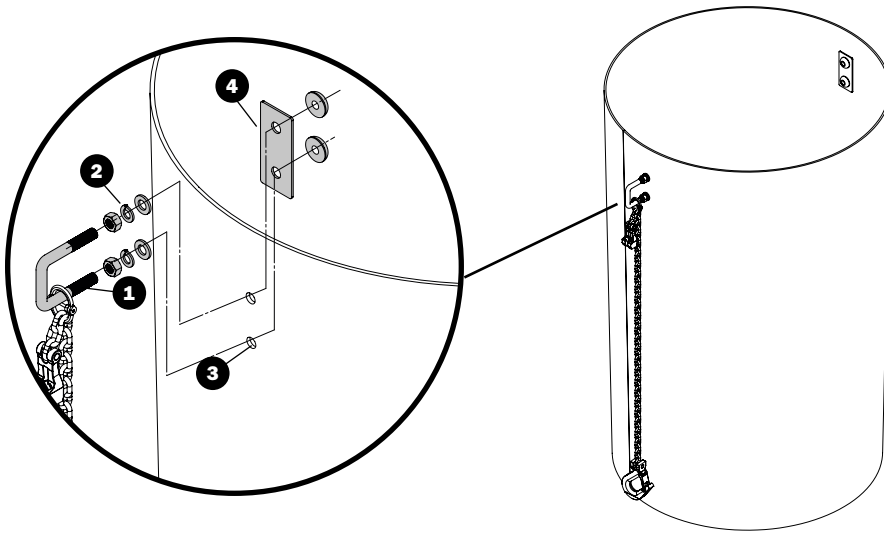


BOLTED CHUTES ASSEMBLY

Bolted chutes are shipped flat. They must therefore be assembled before use.

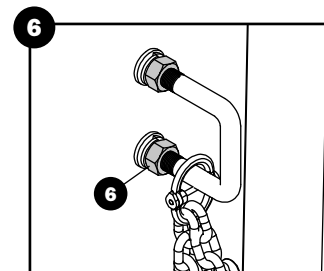
Verify that the chain assemblies are installed correctly and inspect each component before use.

CHAINS INSTALLATION



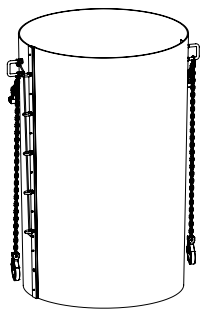
GOOD INSTALLATION

BAD INSTALLATION

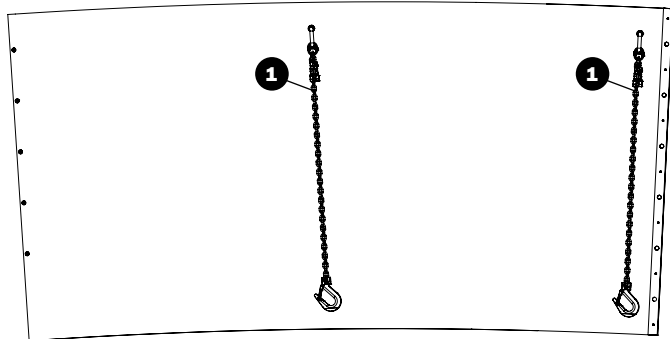


- 1 Insert the chain connector into the «U» bolt
- 2 Insert the hex nuts, lock washers and washers on the «U» bolt
- 3 Insert the «U» bolt into the holes in the chute provided for this purpose. The «U» portion must be outside the chute
- 4 Install the plate. The ends of the «U» bolt fit into the holes in the plate. The plate must be inside the chute
- 5 Install the circular nuts. Make sure that the end of the «U» bolt does not protrude from the nut.
- 6 Tighten the hex nuts.

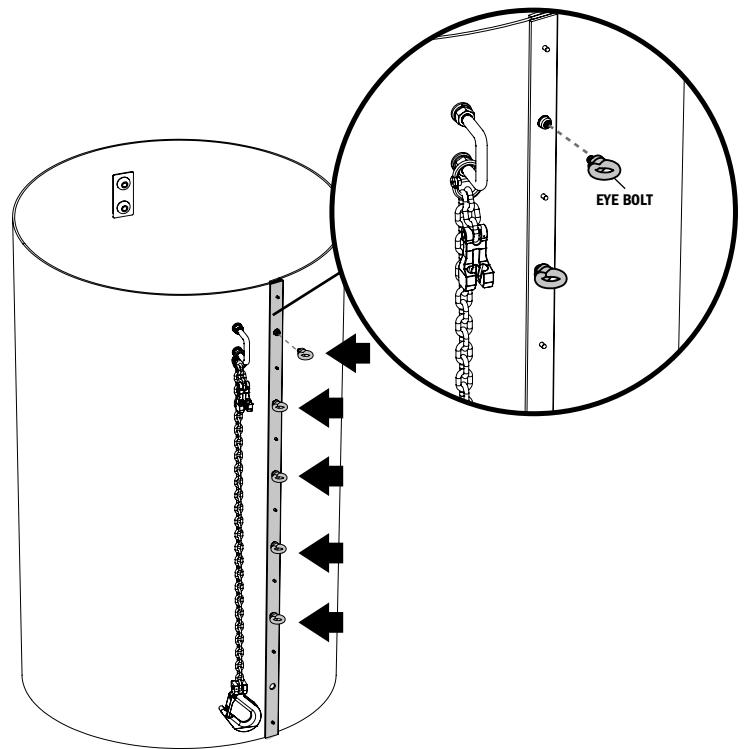
BOLTED CHUTES ASSEMBLY



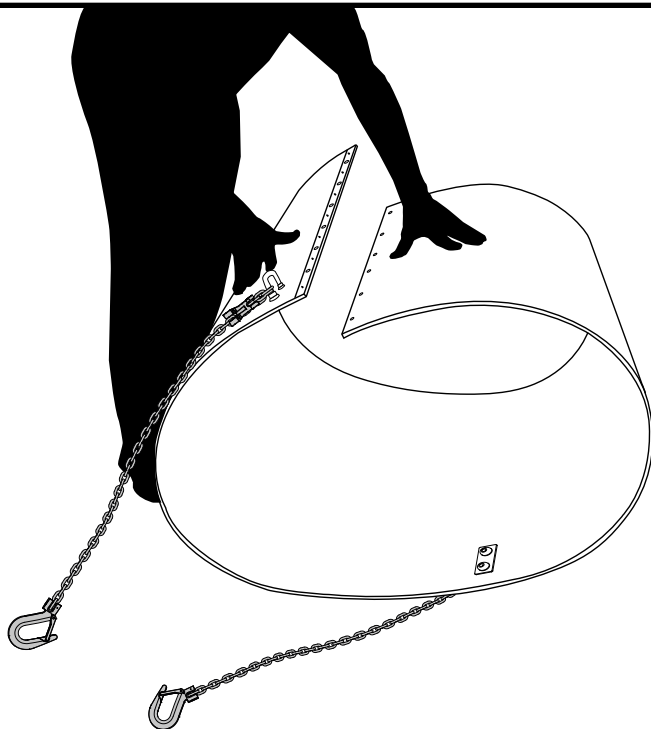
SECTION STANDARD



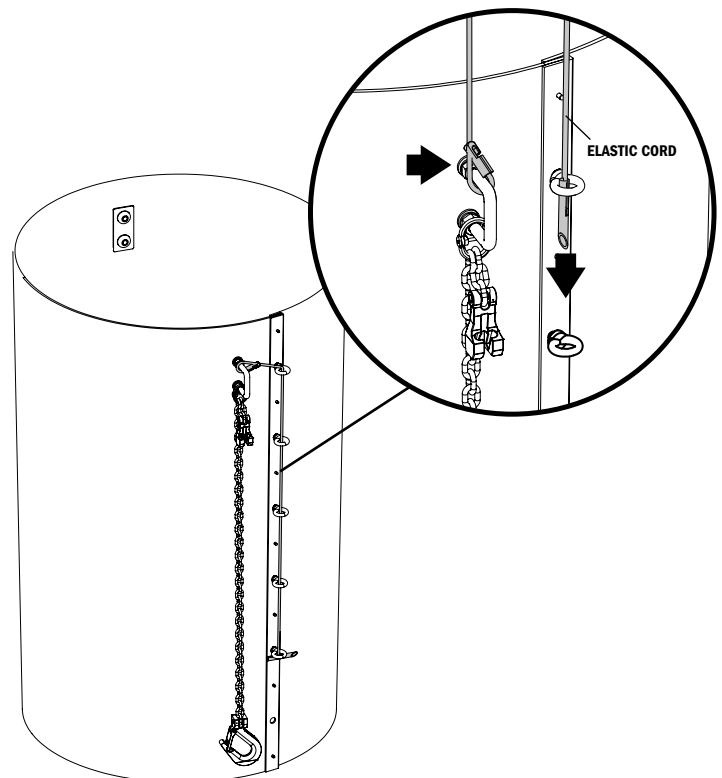
- 1** Install the chains (see previous section).



- 3** Insert the rivet nuts into the holes in the metal plate so that the ends overlap, then assemble with the eye bolts.

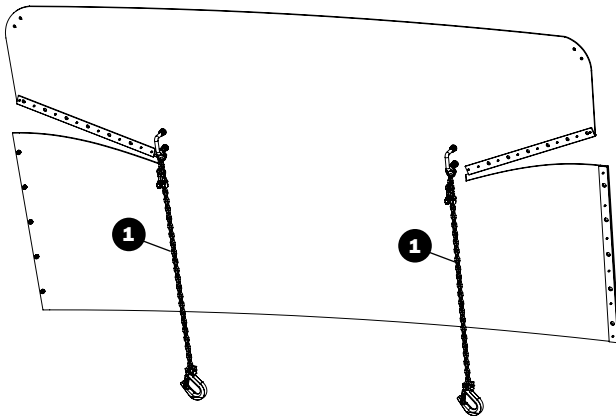
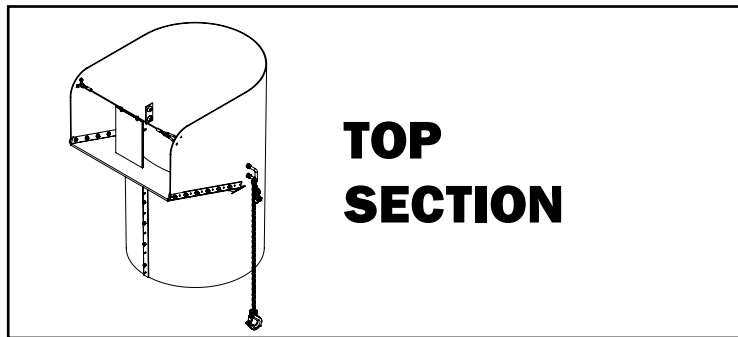


- 2** Place the back of the chute on the ground with the «U» bolts and chains pointing down, then fold the ends to form a cylinder with the chute. The chains should be on the outside of the chute.

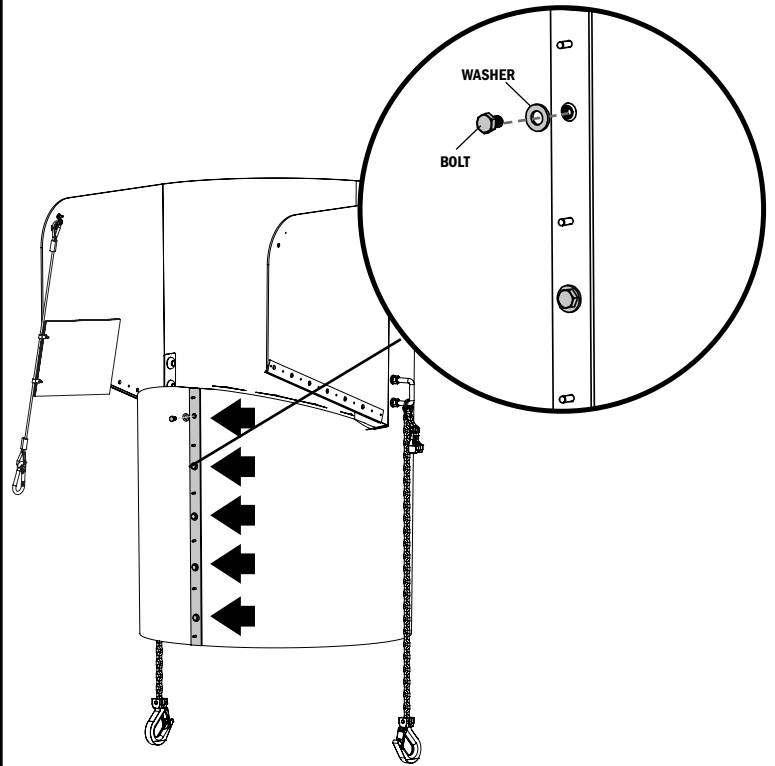


- 4** Attach the elastic cord to the «U» bolt using the hook and insert through the eye bolts.

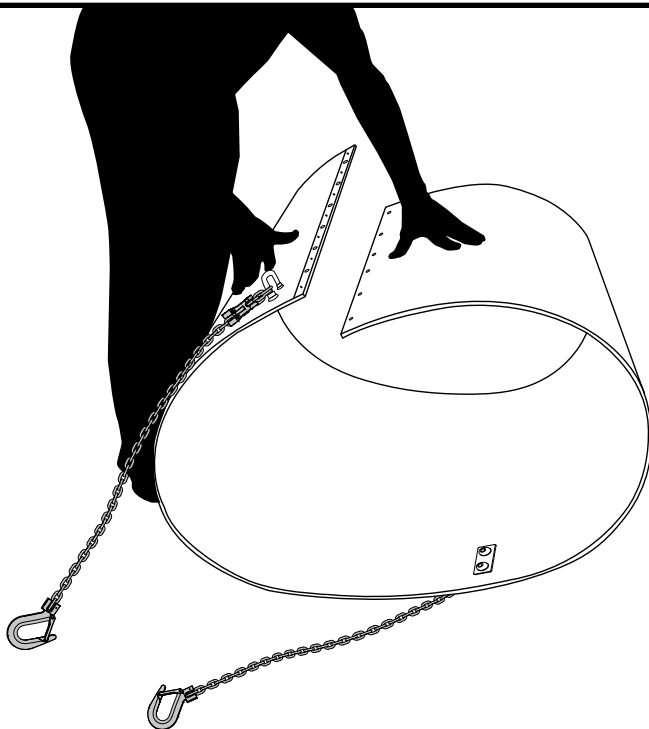
BOLTED CHUTES ASSEMBLY



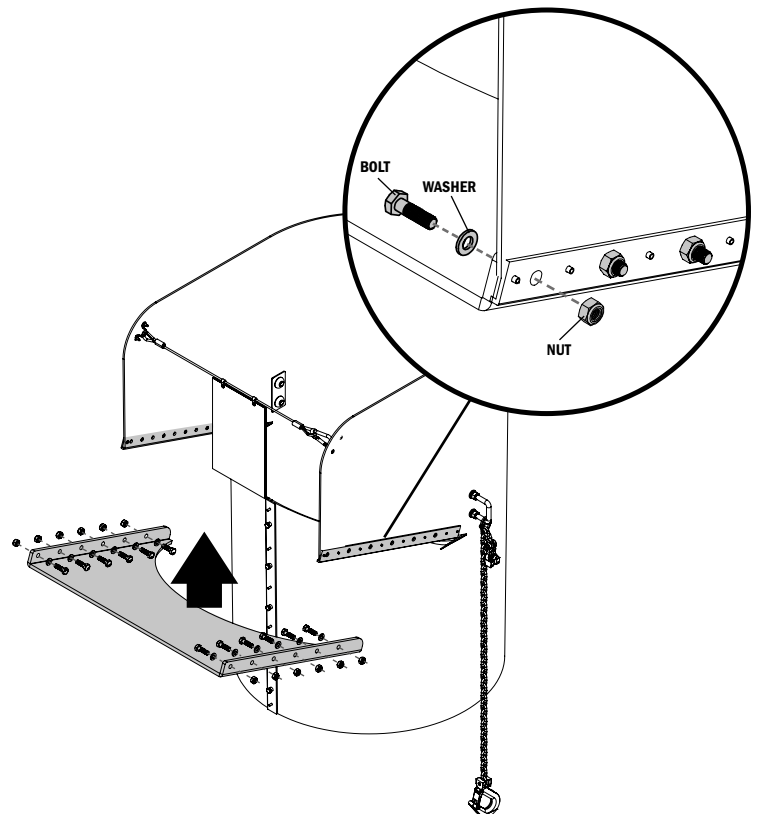
- 1 Install the chains (see previous section).



- 3 Insert the rivet nuts into the holes in the metal plate so that the ends overlap, then assemble with bolts and washers.

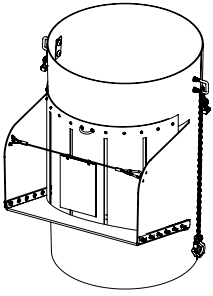


- 2 Place the back of the chute on the ground with the «U» bolts and chains pointing down, then fold the ends to form a cylinder with the chute. The chains should be on the outside of the chute.

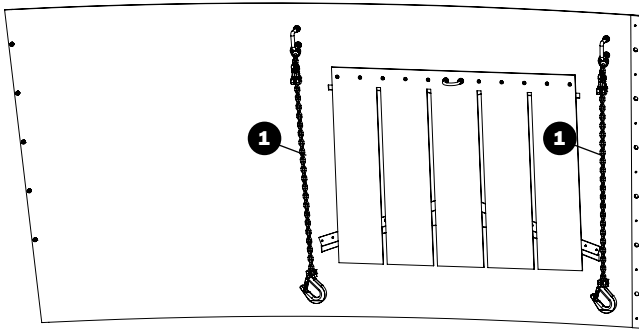


- 4 Assemble the slide to the chute by using the provided bolts, nuts, and washers. Install the warning gate.

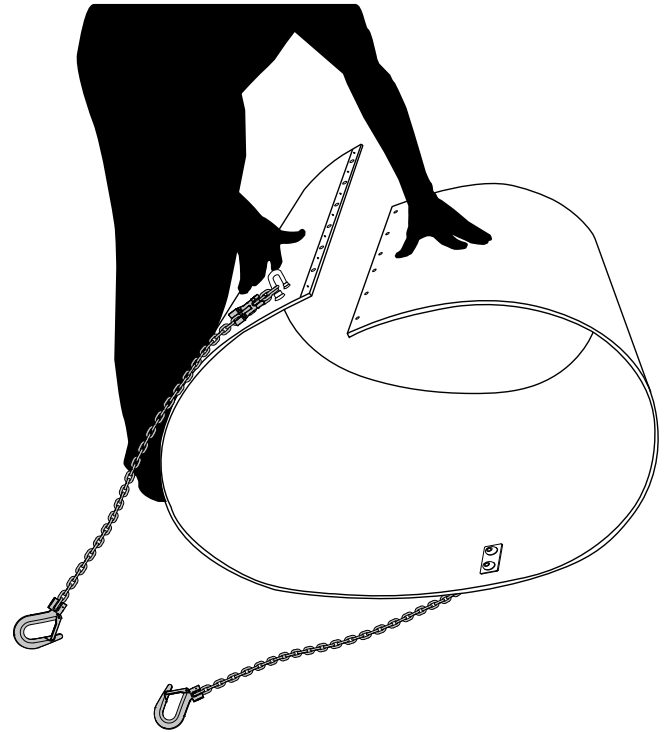
BOLTED CHUTES ASSEMBLY



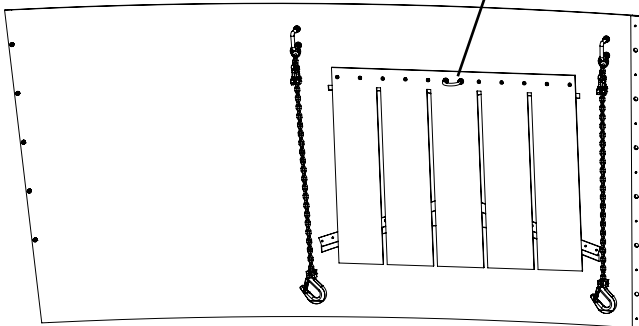
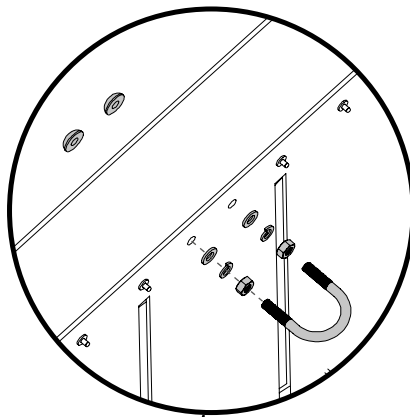
DOOR SECTION



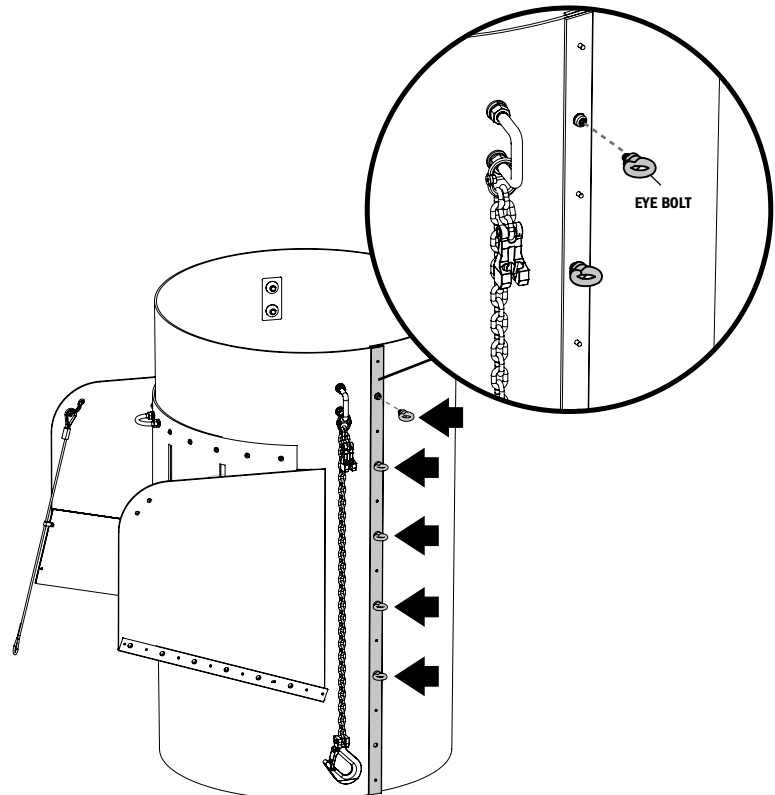
- 1 Install the chains (see previous section).



- 3 Place the back of the chute on the ground with the «U» bolts and chains pointing down, then fold the ends to form a cylinder with the chute. The chains should be on the outside of the chute.

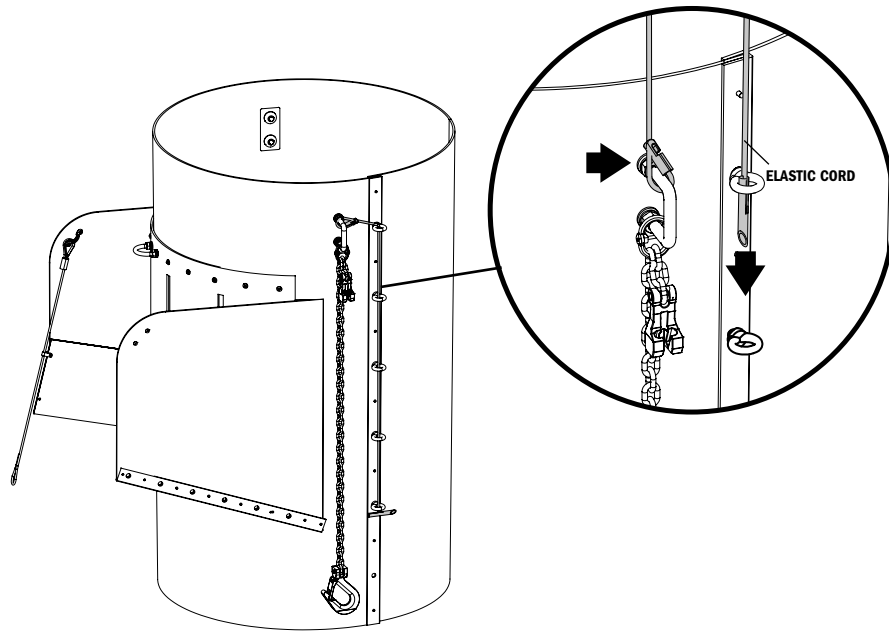


- 2 Install the «U» bolt above the door opening.

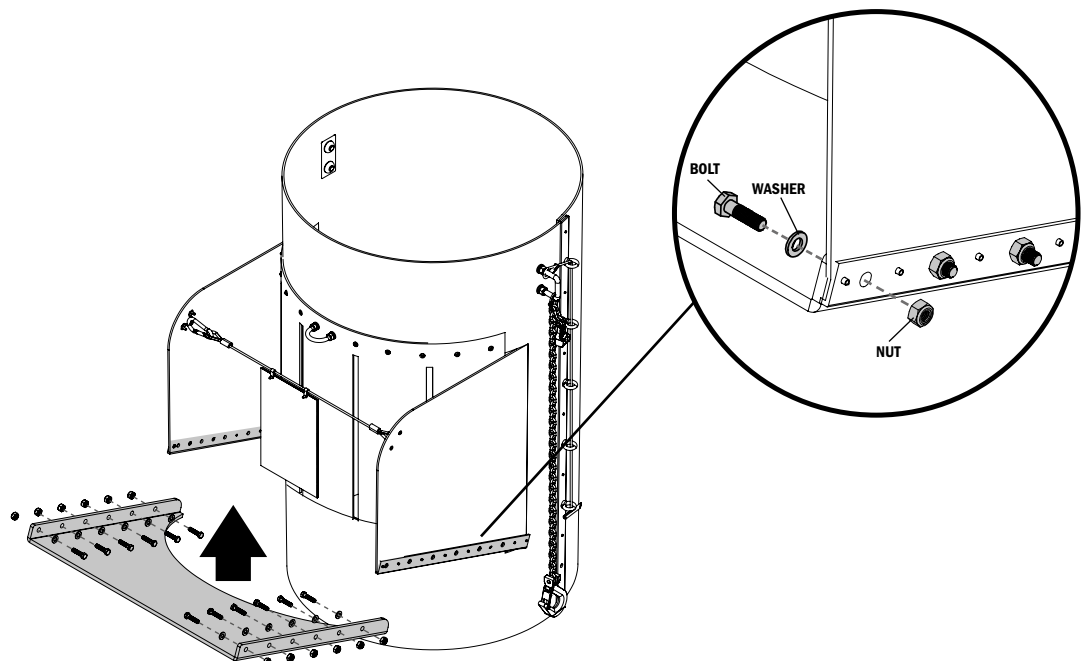


- 4 Insert the rivet nuts into the holes in the metal plate so that the ends overlap, then assemble with the eye bolts.

BOLTED CHUTES ASSEMBLY



- 5** Attach the elastic cord to the «U» bolt using the hook and insert through the eye bolts.



- 6** Assemble the slide to the chute by using the provided bolts, nuts, and washers. Install the warning gate.

PLANNING THE INSTALLATION

LOCATION OF THE INSTALLATION

It is important to plan where the chute will be installed and to consider various external factors that may influence the installation of the chute. Here are some things to keep in mind:

- Plan an area for the container and an adequate security perimeter.
- Consider the effect of the wind on the chutes and install intermediate anchors if necessary.
- Select a location far from electrical installations to prevent the risks of electrocution
- Install the chute where it can be hung vertically or with a slight curve.
- Avoid sharp curves, this increases the friction of debris and therefore increases the risk of jamming.

REQUIRED AMOUNT OF CHUTE SECTIONS

In order to determine the amount of chute sections needed, it is important to consider the following factors:

Required chute height

When calculating the required drop height, it is important to remember to subtract the height of the container, if needed (approx. 8 feet)

Height in feet x 3/10 = _____ required sections

Height in meters = _____ required sections

Number of door sections required

The number of door sections corresponds to the number of floors you want to throw debris into. Consider that the initial stage from which the fall will begin will consist of a head section.

Head section = 1 (uppermost floor)

Door sections = number of additional floors required

Standard section = necessary sections - door sections - 1

CHUTE INSTALLATION

IT IS THE RESPONSIBILITY OF THE INSTALLER AND / OR THE CONTRACTOR TO KNOW AND COMPLY WITH THE APPLICABLE REGULATIONS. THE LATTER MUST IDENTIFY THE FALL HAZARDS AND PROVIDE THE APPROPRIATE FALL PROTECTION SYSTEMS.

THE INSTALLER AND / OR CONTRACTOR MUST ENSURE THAT THE INSTALLATION COMPLIES WITH APPLICABLE STANDARDS AND THE INSTALLATION PLAN. IT MUST ALSO ENSURE THAT THE STRUCTURAL ELEMENTS THAT SUPPORT THE FALL CAN WITHSTAND THE APPLIED LOAD. A STRUCTURAL ENGINEER CAN HELP YOU DETERMINE THE CAPACITY OF THE STRUCTURE.

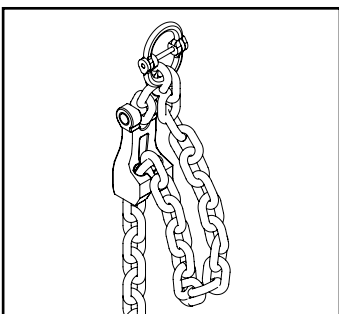
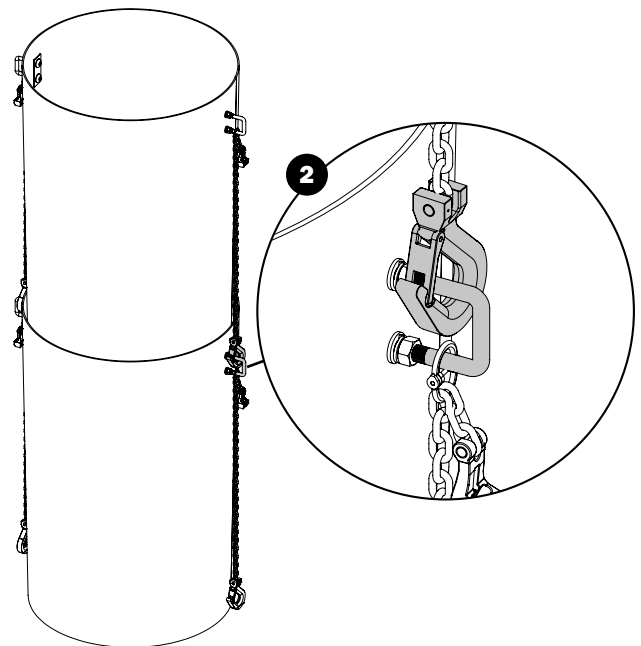
Before any installation:

- Validate that you have all the necessary equipment for the installation
- Inspect all components of the chute. Make sure all links and components of the chain assembly are in good condition
- Do not use if any parts are damaged or missing. Replace all damaged or excessively worn components.
- Secure the work area
- Identify the fall risks before installing the fall and use / install appropriate fall protection systems according to applicable standards.

LIFTING THE CHUTE

- 1 Attach the hooks of the chutes to be lifted to the lifting system
- 2 Lift the head section and secure it with chains to the suspension system
- 3 Lift the following drop sections using the same method as before
- 4 Secure the chain and hook assembly from an upper drop section to the section below

Make sure the chute debris exit is above the container, not inside, to avoid any blockage.



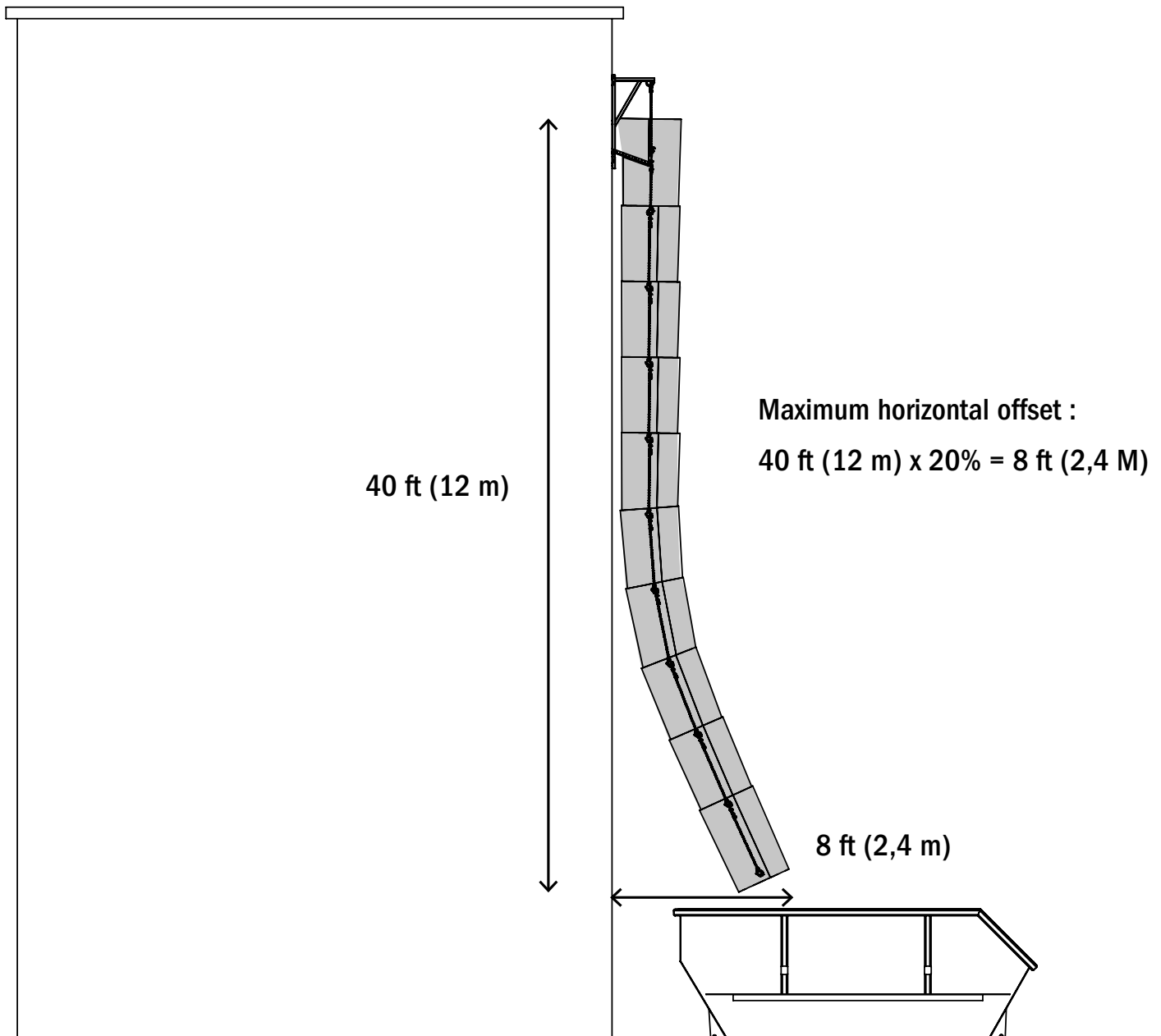
The space between the sections can be adjusted with the height adjustable chains. To do this, insert the link in the adjuster to obtain the desired length. Make sure that both chains on the same chute section have the same length.

CHUTE INSTALLATION

CHUTE ANGLE

To reduce the risk of obstruction, a chute should never be installed with a too steep an angle. Plan for the chute not having a horizontal offset exceeding 20% of the total height of the fall.

Consider installing steel liners in light curves to protect the fall against impacts. Install intermediate anchors as needed to stabilize the chute.



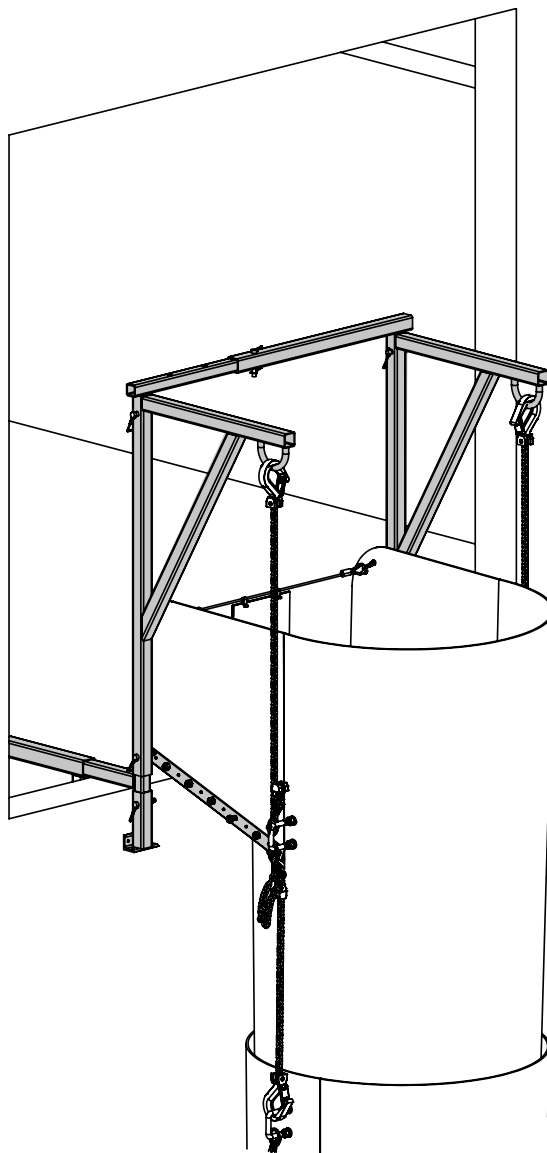
CHUTE SUSPENSION SYSTEMS

Determine the type of suspension to use based on the weight of the fall. For each door section, an additional fall suspension system may be required to ensure the stability and strength of the suspension system.

METALTECH® RACKING SYSTEM

This support can be installed on windows, parapets, or concrete slabs. The structure on which the **Metaltech®** racking system is installed must be able to withstand the load applied by the debris chutes. It is the responsibility of the installer and / or contractor to ensure that the structure can withstand this load. A structural engineer can help you determine the capacity of the load-bearing structure

- **Metaltech®** racking system is quick and easy to install
- It can be installed on a window, a parapet, or a concrete slab 1 in. to 26 in. thick



CHUTE SUSPENSION SYSTEMS

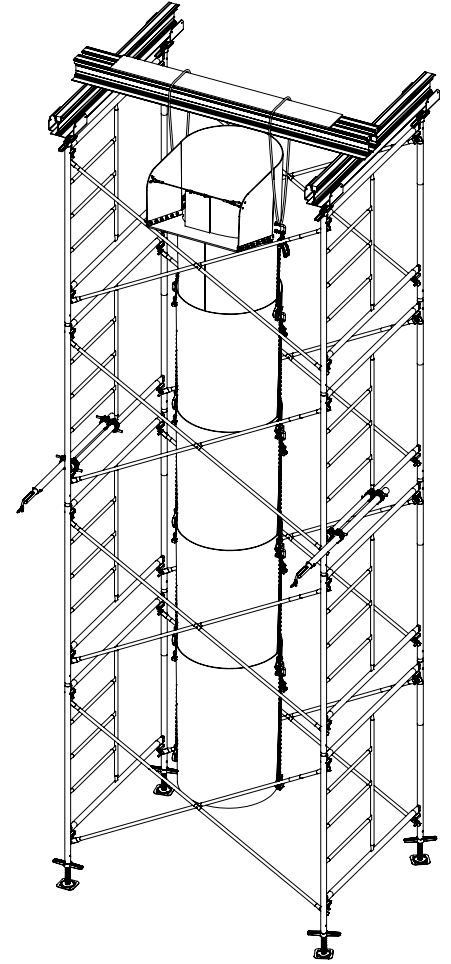
FRAME SCAFFOLDING

It is possible to use scaffolding on metal frames to anchor the chute; this creates a solid structure outside a building. It is beneficial to use this type of suspension when:

- It is not possible to have access to the interior of a building
- The space inside the building as well as the openings are limited.

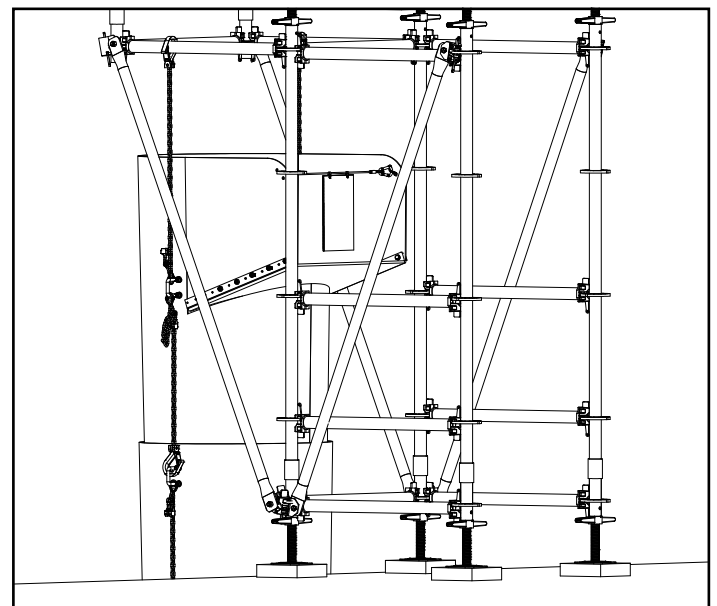
The scaffolding must be erected, modified, and dismantled by a qualified person or under the supervision of a qualified person who understands and applies the standards relating to the scaffolding.

- 1 Erect the scaffolding considering the applicable standards.
- 2 The structure must be solid and must be able to withstand the load.



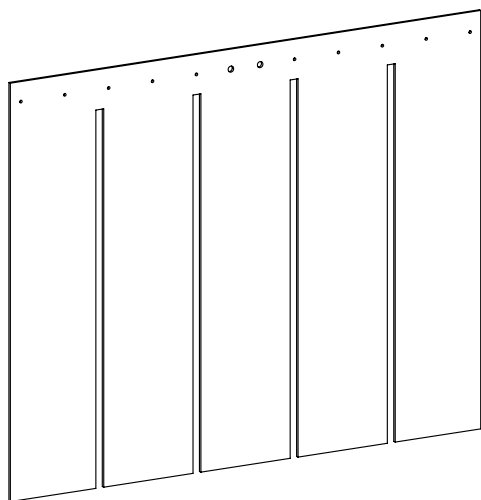
SYSTEM SCAFFOLDING

System scaffolding can be adapted to different configurations, it is highly versatile. It is mainly used indoors in buildings under construction. System scaffolding is installed between two floors to create a cantilevered structure to suspend the chutes.

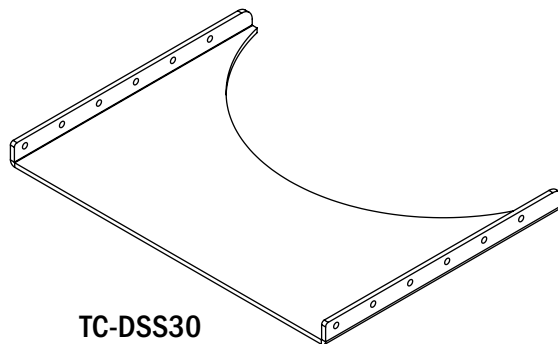


REPLACEMENT PARTS

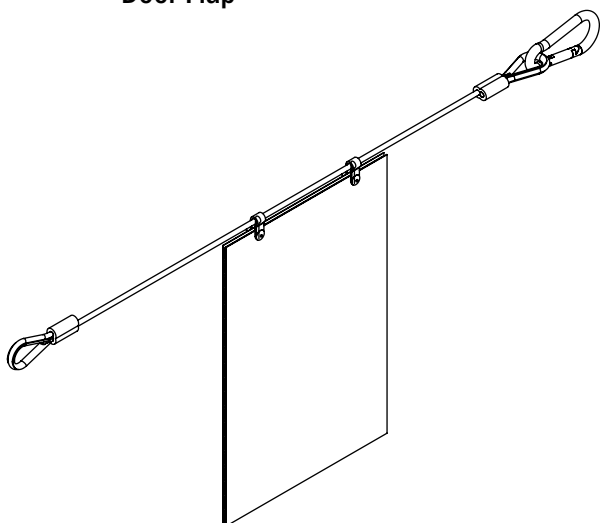
Replacement parts are available on order.



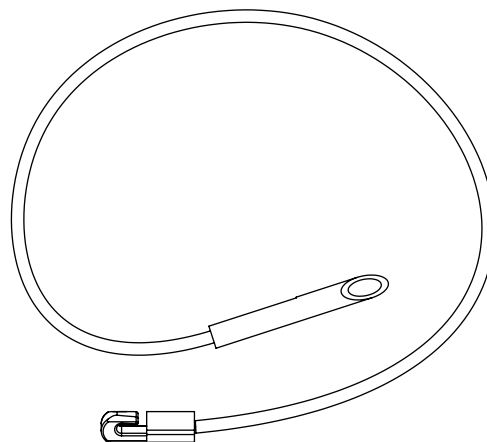
TC-DFS30
Door Flap



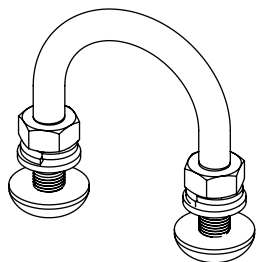
TC-DSS30
Door Slide



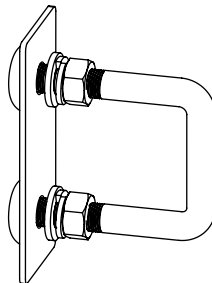
TC-SHWBASSY
Warning Gate Assembly



TC-TB37
Elastic cord with hooks



TC-DUODASSY
Door Section «U» Rod
Assembly



TC-AUODASSY
All Section «U» Rod
Assembly for chains



TC-AHCASSY
Chain with hooks

Customer Service

1 800 363-7587

Our customer service staff is available to help you. For help with product assembly, to report damaged or missing parts, or for any other information about this product, please call our toll-free number.

KEEP THIS MANUAL FOR FUTURE REFERENCE

Keep this manual and the original sales invoice in a safe, dry place for future reference.

WARRANTY AND LIMITATION OF LIABILITY

Metaltech's warranty is against any manufacturing defect, the quality of the debris chute products and its accessories sold under the Metaltech™ brand and manufactured by itself.

This warranty covers the components of debris chutes installed in accordance with the Metaltech installation guide. From the date of purchase, the warranty covers all manufacturing and material defects for a period of twelve (12) months. This warranty does not cover damages caused by improper maintenance, use of the debris chute, or product modification.

By this warranty, Metaltech hereby limits its liability to the replacement of defective equipment. The costs incurred for the removal of the defective product and the installation of its replacement are not covered by this warranty.

In the event of a defect or failure, the original purchaser will send written notice of such defect, upon discovery, to the vendor from whom the product was purchased, with a copy forwarded to Metaltech. For more information, you can contact us at 1 800 363-7587.

Metaltech assumes no responsibility for injury, property damage or any other damages resulting directly or indirectly from the use of its products. This warranty extends only to the original purchaser and is not transferable.

IN-TC-NA-EN01



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