7. ASSESS CHUTE HEIGHT & WEIGHT

SAMPLE

- The first step in undertaking a chute installation is to formulate an installation plan.
- This page is a planning tool, which is used here to illustrate an imaginary chute job.
- The next page is clean and is for your own use. Photocopy it and use it to plan your chute installations.

JOB NAME: Hotel On First Ave. Measurements: (Imperial) or Metric?

1. What is the anticipated height of the chute? 70 feet feet or meters.
   Measure or calculate the drop that your chute will cover.

2. How many chute sections will be needed? 70 feet x 3 divided by 10 = 21
   Height in feet x 3 ÷ 10 = (21) sections needed.
   When linked, 3 chute sections of any type will create a 10 foot drop.
   or
   Height in metres = _____ sections needed.
   When linked, a chute section of any type creates a 1 meter drop.

3. How many entry sections will be needed? 3 sections.
   Many chutes are designed with a Top opening only. However, you may want to use Door sections if you will be working on several floors simultaneously.

4. What diameter of chute will be used? Circle: **[18"] [23"] [27"] [30"] [33"] [36"]**
   Every chute section is branded with its diameter.

5. Calculate the total weight of the chute using the form below:
   Every chute section is branded with its weight.
   Section Weights are also provided on pages 22, 23.

Chute Weight Calculation Form

	Quantity		Weight in lb. or kg.		Weight in lb. or kg.
A)	1	Top Hopper Wraparound	x 41 lb. each	=	41 lb.
B)	2	Door Sections Wraparound	x 50 lb. each	=	100 lb.
C)	18	Regular Sections Wraparound – 3/16" wall	x 39 lb. each	=	702 lb.
D)	2	Steel Liners	x 40 lb. each	=	80 lb.
A+B+C+ D	**=**	**TOTAL WEIGHT OF THE CHUTE**		=	923 lb.

ASSESS CHUTE HEIGHT & WEIGHT (continued)

Before the chute is rigged it's height and weight must be calculated. Photocopy this form and use it with the weight charts provided on the next two pages. Knowing the total weight of the chute allows the installer(s) to choose an appropriate lifting device and suitable anchors. If at any time you would like to discuss the particulars of your job situation, please feel free to call the Superchute® factory: 1-800-363-2488.

JOB NAME: _____ Measurements: Imperial or Metric?

1. What is the anticipated height of the chute? _____ feet or meters.
   Measure or calculate the drop that your chute will cover.

2. How many chute sections will be needed?

   Height in feet x 3 ÷ 10 = _____ sections needed.
   When linked, 3 chute sections of any type will create a 10 foot drop.

   or

   Height in metres = _____ sections needed.
   When linked, a chute section of any type creates a 1 meter drop.

3. How many entry sections will be needed? _____ sections.
   Many chutes are designed with a Top opening only. However, you may want to use Door sections if you will be working on several floors simultaneously.

4. What diameter of chute will be used? Circle: **[18"] [23"] [27"] [30"] [33"] [36"]**
   Every chute section is branded with its diameter.

5. Calculate the total weight of the chute using the form below:
   Every chute section is branded with its weight.
   Section Weights are also provided on pages 22, 23.

Chute Weight Calculation Form

	Quantity		Weight in lb. or kg.		Weight in lb. or kg.
A)	1	Top Hopper	x _____ each	=	_____
B)	_____	Door Sections	x _____ each	=	_____
C)	_____	Regular Sections	x _____ each	=	_____
D)	_____	Steel Liners	x _____ each	=	_____
A+B+C+ D =		**TOTAL WEIGHT OF THE CHUTE**		=	_____

8. CHUTE SECTION WEIGHT CHARTS

IMPERIAL WEIGHTS

THE WEIGHTS ON THIS PAGE ARE GIVEN IN POUNDS (LB).

- For metric weights, see the next page.
- An "X" signifies that no such section exists.
- If using steel liners, do not forget to account for their weight.

WELDED SECTION WEIGHTS (in lb.)

Diameter	Wall Thickness	Regular	Top Hopper	Door
18"	**3/16" (5 mm)**	23	24	29
23"	**3/16" (5 mm)**	27	29	36
27"	**3/16" (5 mm)**	32	34	41
30"	**3/16" (5 mm)**	36	39	47
30"	**5/32" (4 mm)**	27	X	X
30"	**1/8" (3.2 mm)**	X	X	X
33"	**3/16" (5 mm)**	X	40	50
36"	**3/16" (5 mm)**	X	46	57

WRAPAROUND® SECTION WEIGHTS (in lb.)

Diameter	Wall Thickness	Regular	Top Hopper	Door
18"	**3/16" (5 mm)**	X	X	X
23"	**3/16" (5 mm)**	30	30	40
27"	**3/16" (5 mm)**	34	41	47
30"	**3/16" (5 mm)**	39	41	50
30"	**5/32" (4 mm)**	31	X	X
30"	**1/8" (3.2 mm)**	28	X	X
33"	**3/16" (5 mm)**	43	48	57
36"	**3/16" (5 mm)**	46	55	64

LINER WEIGHTS (in lb.)

For 18" dia.	For 23" dia.	For 27" dia.	For 30" dia.	For 33" dia.	For 36" dia.
23 lb.	32 lb.	37 lb.	40 lb.	48 lb.	53 lb.

WEIGHT CHARTS (continued)

METRIC WEIGHTS

THE WEIGHTS ON THIS PAGE ARE GIVEN IN KILOGRAMS (KG).

- For imperial weights, see the previous page.
- An "X" signifies that no such section exists.
- If using steel liners, do not forget to account for their weight.

WELDED SECTION WEIGHTS (in kg.)

Diameter	Wall Thickness	Regular	Top Hopper	Door
46 cm (18")	**5 mm**	10.5	11.0	13.0
58 cm (23")	**5 mm**	12.5	13.0	16.5
69 cm (27")	**5 mm**	14.5	15.5	19.0
76 cm (30")	**5 mm**	16.5	18.0	21.5
76 cm (30")	**4 mm**	12.5	X	X
76 cm (30")	**3.2 mm**	X	X	X
84 cm (33")	**5 mm**	X	18.0	23.0
91 cm (36")	**5 mm**	X	21.0	26.0

WRAPAROUND® SECTION WEIGHTS (in kg.)

Diameter	Wall Thickness	Regular	Top Hopper	Door
46 cm (18")	**5 mm**	X	X	X
58 cm (23")	**5 mm**	14.0	14.0	18.0
69 cm (27")	**5 mm**	15.5	19.0	21.5
76 cm (30")	**5 mm**	18.0	19.0	23.0
76 cm (30")	**4 mm**	14.0	X	X
76 cm (30")	**3.2 mm**	13.0	X	X
84 cm (33")	**5 mm**	19.5	22.0	26.0
91 cm (36")	**5 mm**	21.0	25.0	29.0

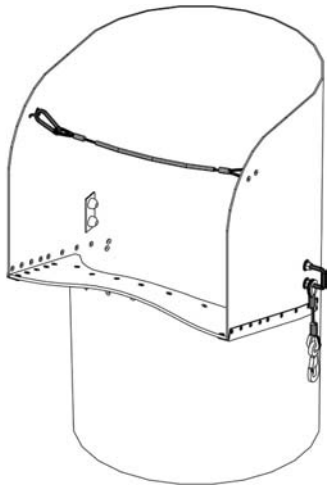
LINER WEIGHTS (in kg.)

For 18" dia.	For 23" dia.	For 27" dia.	For 30" dia.	For 33" dia.	For 36" dia.
10.5 kg.	14.5 kg.	17.0 kg.	18.0 kg.	22.0 kg.	24.0 kg.

9. ON THE SITE

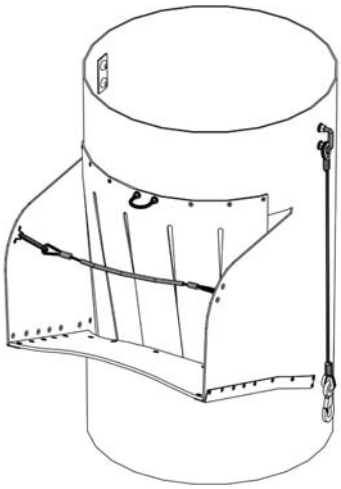
PREPARATION OF WELDED STYLE SECTIONS FOR USE

Welded style sections are permanent tubes. Sketches are shown below. No assembly of this section style is needed, providing the cable assemblies are properly attached.



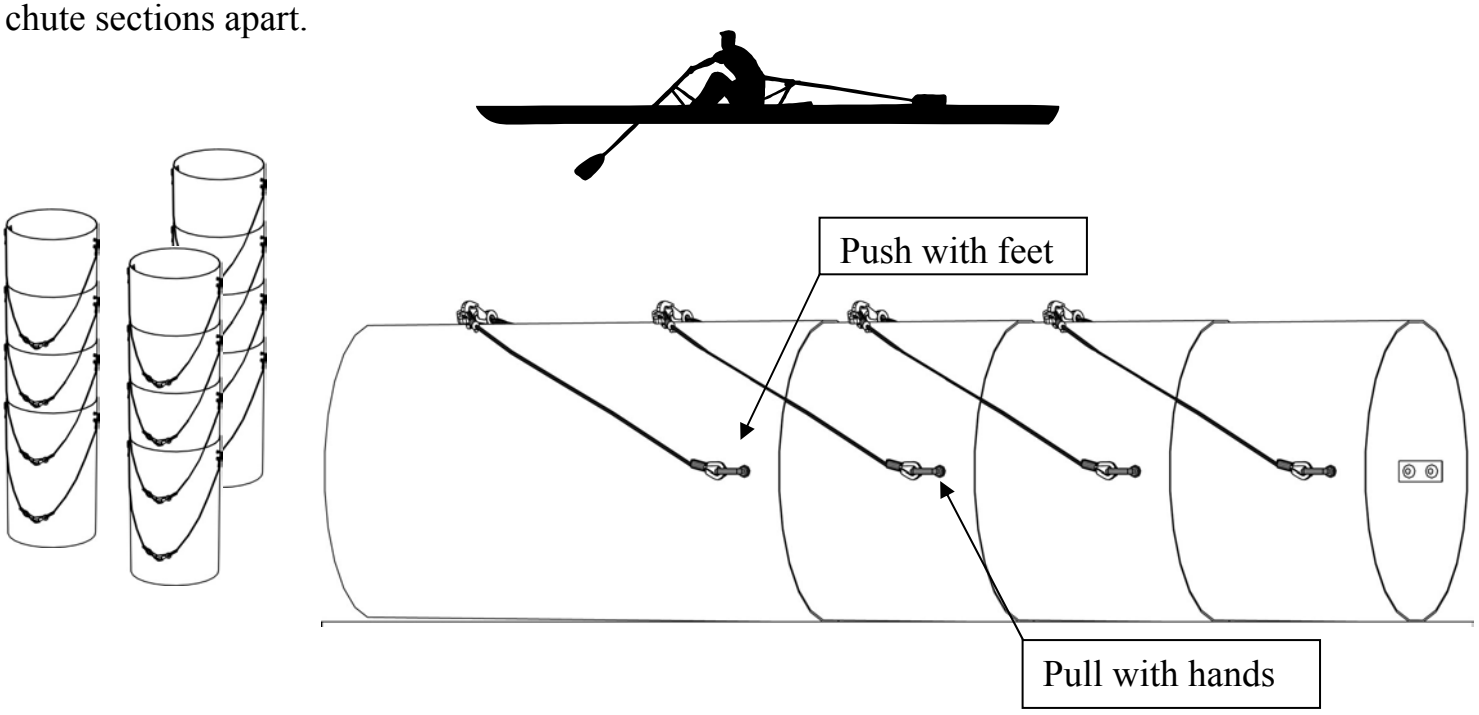
Top Hopper Section

Regular Section



Door Section

Occasionally, Welded style regular sections that have been stacked for storage or transport can get stuck together. To get them apart, lie the bundle on its side and have two people "row" the chute sections apart.



If this technique does not work, use a winch to pull the sections apart.
If all of the sections you will be using are of the Welded style, then please proceed to page 29.

ON THE SITE (continued)

PREPARATION OF WRAPAROUND® STYLE SECTIONS FOR USE

Wraparound® style sections have the ability to go flat for storage and job-to-job shipping.

If all of the sections you will be using are of the Welded style, then please proceed to page 29.

Assembly Time:
- The assembly of a Regular section requires approximately 1 minute.
- The assembly of a Door or Top Hopper section requires approx. 10 minutes.

The following three pages show the assembly procedure.