

Feed Bin Installation and Operation Manual

6', 7', 9', and 12' Diameter Feed Bins



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Hog Slat General Page

General Installation Notes:

Installation of this equipment and related OEM equipment should be in accordance with these instructions, OEM's installation instructions and local codes (if applicable). Failure to follow specified instructions may cause damage to equipment and/or personal injury or death.

Take special note of any Warnings or Safety Decals on the equipment and in manuals.

Always wear protective clothing and any applicable Personal Protective Equipment (Safety Glasses and/or Ear Plugs) when working with the equipment.

Discarded materials, equipment and boxes should be recycled in accordance with local and national codes.

Support Information

Hog Slat Feed Bins are designed for grains and/or free flowing materials. **Using this equipment for any other purpose or in a way not within the operating recommendations specified in this Manual will void the Warranty and may cause injury or death.**



Do NOT place feed bins in direct air flow of exhaust fans.

Identification of Hardware:



WARNING!

No hardware substitutions are permitted unless noted.



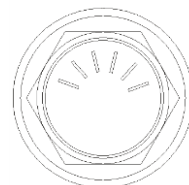
HS722
Serrated Flange
Nut



HS714
5/16" x 3/4" Truss
Head Bin Bolt



HS712
5/16" x 1" Hex
Head Bin Bolt



Grade 8.2 Markings

Safety

Warning Labels

Warning Decals have been placed on the equipment to warn of potentially dangerous situations. Care should be taken to keep this information intact and easy to read at all times. Replace missing or damaged safety signs.



Safety–Alert Symbol

This is a safety–alert symbol. When you see this symbol on your equipment, be alert to the potential for personal injury. Hog Slat equipment is designed to be installed and operated as safely as possible...however, hazards do exist.



Important Information Symbol

This is an Information–alert symbol. When you see this symbol throughout this installation manual, be sure to read the information provided.

Safety decals should be read and understood thoroughly by individuals within the local area of the Feed System. Should a decal be missing or damaged, please contact Hog Slat Inc. for a free replacement:

Hog Slat Inc.

206 Fayetteville St.
Newton Grove, NC 28366
Toll Free: 800-949-4647
Local: 910-594-0219

DANGER!



It is a matter of extreme SAFETY importance that your bins are NOT placed where feed trucks, augers or other equipment may accidentally come in contact with electric power lines, control boxes or other electrical hazards which may result in serious injury or death!

Contact your power company before construction for a review of proper line clearance. This could save you the expense of moving facilities later.

This safety decal should be represented and visible on the inside of the ladder rail at eye-level.



FAILURE TO READ AND FOLLOW THE INSTRUCTIONS ON THIS LADDER WILL RESULT IN DEATH OR SERIOUS INJURY. USE EXTREME CAUTION WHEN GETTING ON OR OFF THE LADDER.

1. The **WORKING LOAD** of this ladder is 300 pounds [136 kg.]. Do Not Overload.
 2. Never climb a damaged or improperly assembled Ladder. Before use, inspect the Ladder carefully for deterioration from chemicals or weather.
 3. Keep the Ladder and Bin away from power lines and live electric wires.
 4. Keep rungs free from slippery material such as ice, snow, mud, grease, manure, etc.
 5. Wear slip-resistant shoes.
 6. **DO NOT USE LADDERS** if you tire easily, or are subject to fainting spells, or use medicine or alcohol, or are physically handicapped.
 7. **FACE THE LADDER** when ascending or descending. Maintain a firm grip. Center your body between side rails.
 8. Discard and replace the LADDER if it exposed to fire or damaging chemicals.
 9. Never use the Ladder as a horizontal platform, plank, or material hoist.
 10. Never apply a side load. Never push or pull anything while on the Ladder.
 11. Never drop or apply an impact load to the ladder.
 12. Never sit on the ends of Ladder side rails.
 13. Never use the Ladder as a scaffold.
 14. Never use the Ladder when in poor health.
- HSLABEL-137



This safety decal should be represented and visible on the inside of the Peak Ring (Fill-Hole) when Lid is in the open position.



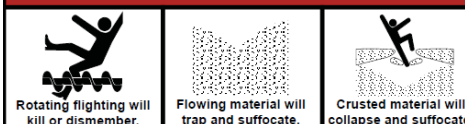
Keep clear of all augers. DO NOT ENTER this bin!

Failure to heed these warnings will result in serious injury or death.

If you must enter the bin:

1. Shut off and lock out all power.
2. Use a safety harness and safety line.
3. Station another person outside the bin.
4. Avoid the center of the bin.
5. Wear proper breathing equipment or respirator.

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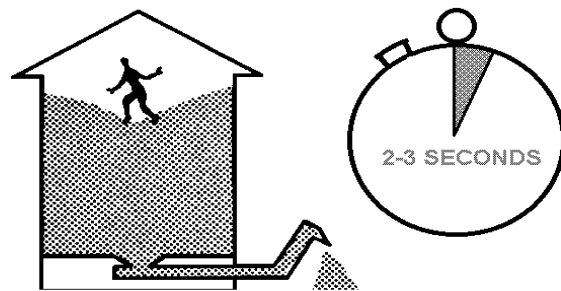
DANGER!



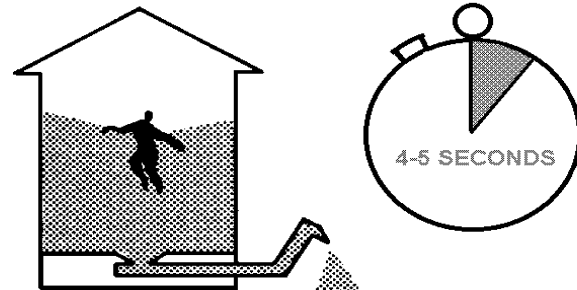
There are Suffocation Hazards in Flowing Grain and Feed!

Never enter a bin of flowing feed, grain, or other material. Failure to follow these instructions will result in death or serious injury

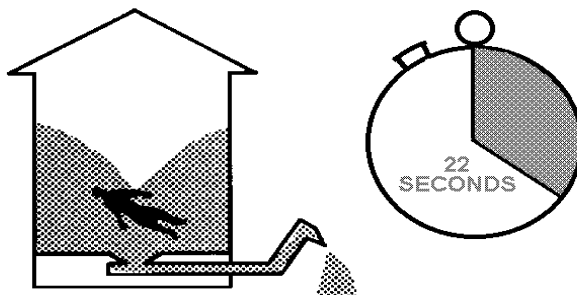
From the time the auger starts, you have 2-3 seconds to react.



In 4-5 seconds, you are trapped.



After 22 seconds, you are completely covered.

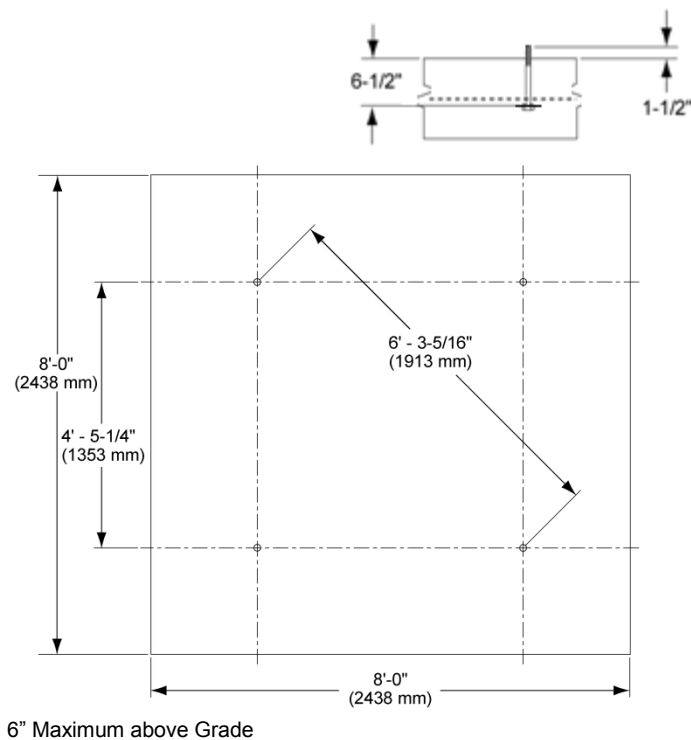


Foundation

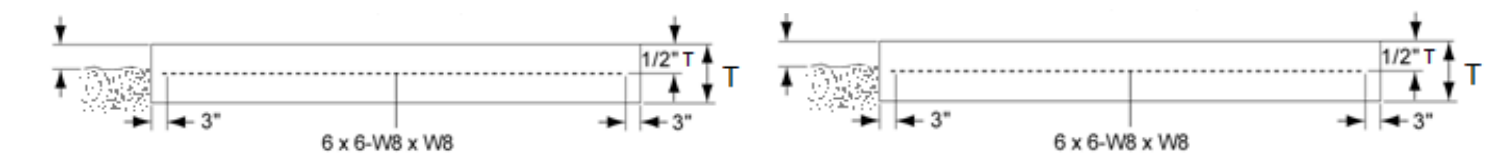
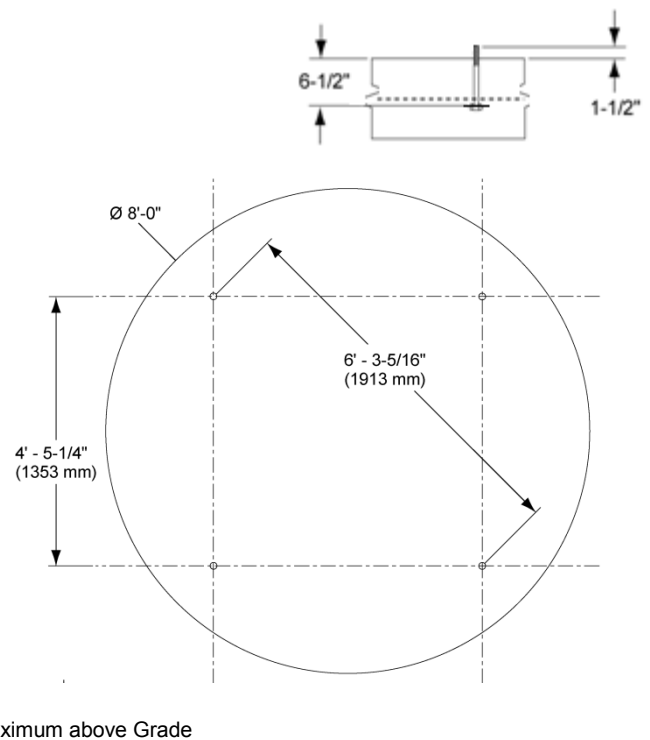
6' Diameter Feed Bins

	# of Rings	Slab Thickness (T)	Concrete Volume	Wire Mesh Area	Qty of Legs
Square	1-5	11" [279 mm]	2.2 Cu. Yards [1.68 Cu. Meters]	60 Sq. Ft. [5.57 Sq. Meters]	4
Round	1-5	11" [279 mm]	1.7 Cu. Yards [1.31 Cu. Meters]	55 Sq. Ft. [5.11 Sq. Meters]	4

Square Foundation



Round Foundation

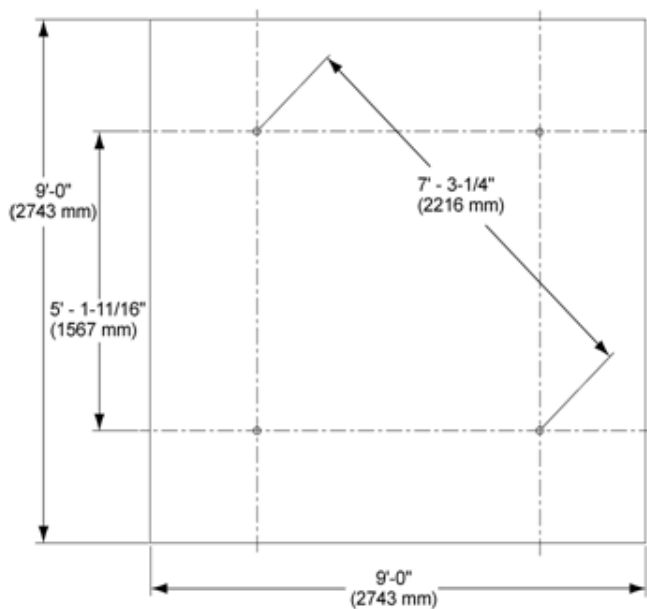
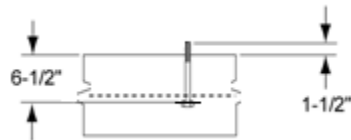


1. Foundation recommendations are based on 3500 lbs / ft² allowable soil bearing capacity.
2. Foundation recommendations are based on a minimum compressive strength of 3000 PSI at 28 days.
3. The foundation site must be well drained and free of vegetation and debris.
4. The foundation should be level within 1/4" overall and within +/-1/8" in any 10 foot length along the anchor bolt circle.
5. Material estimates do not include allowance for shrinkage and waste.
6. These layouts are recommendations for Hog Slat tanks only. Consult Hog Slat engineering for special tank foundations.

7' Diameter Feed Bins

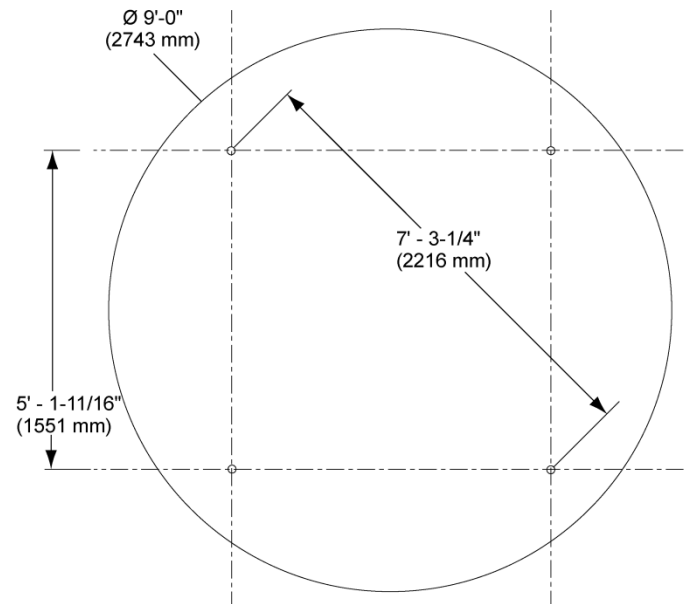
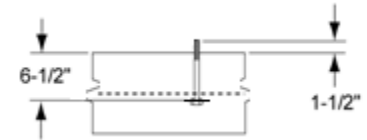
	# of Rings	Slab Thickness (T)	Concrete Volume	Wire Mesh Area	Qty of Legs
Square	1-6	13" [330 mm]	3.3 Cu. Yards [2.52 Cu. Meters]	80 Sq. Ft. [7.43 Sq. Meters]	4
Round	1-6	13" [330 mm]	2.6 Cu. Yards [1.91 Cu. Meters]	65 Sq. Ft. [6.04 Sq. Meters]	4

Square Foundation

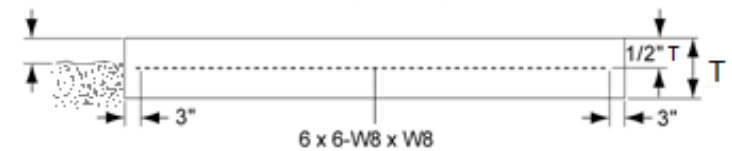
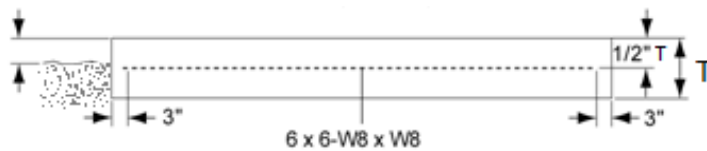


6" Maximum above Grade

Round Foundation



6" Maximum above Grade

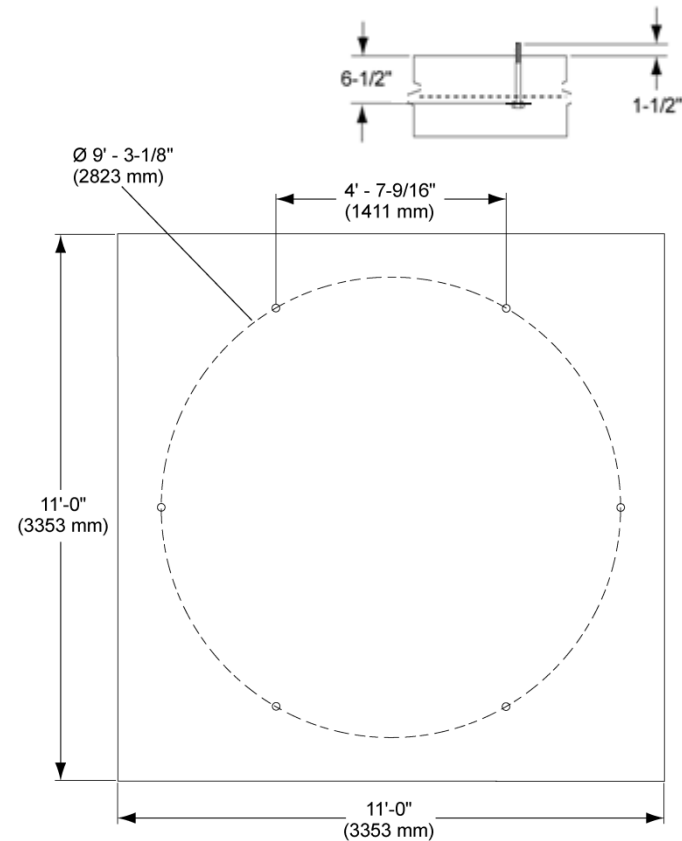


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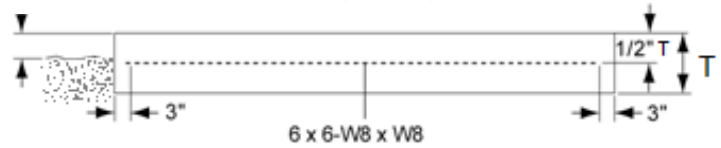
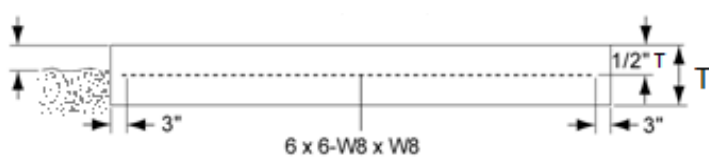
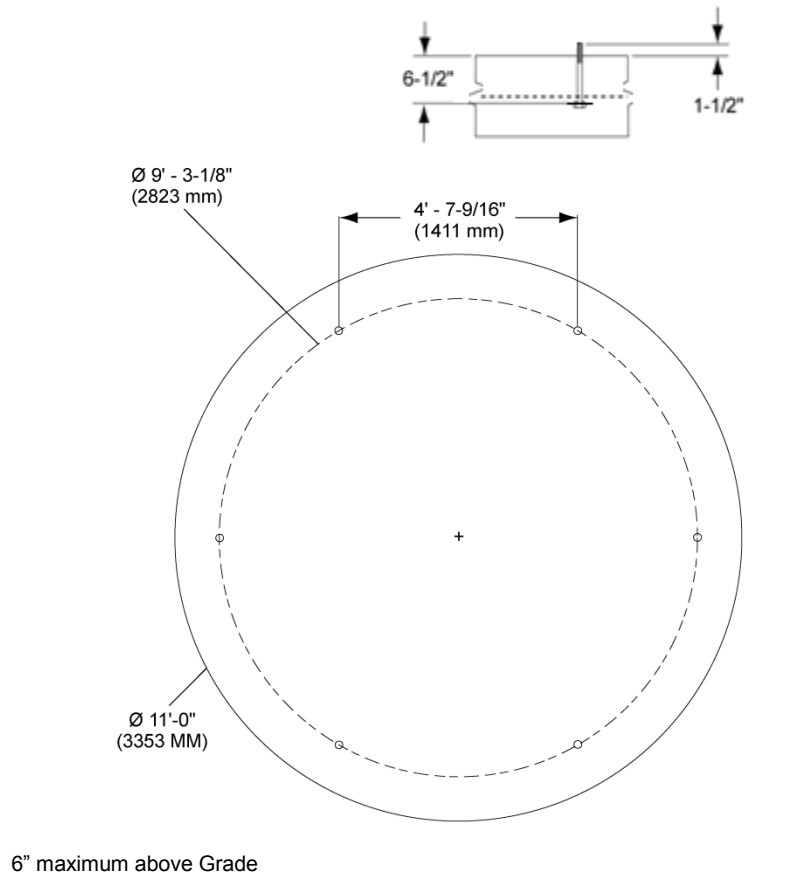
9' Diameter Feed Bins

	# of Rings	Slab Thickness (T)	Concrete Volume	Wire Mesh Area	Qty of
Square	1-6	13" [330 mm]	4.9 Cu. Yards [4.85 Cu. Meters]	125 Sq. Ft. [11.61 Sq. Meters]	6
Round	1-6	13" [330 mm]	3.8 Cu. Yards [2.91 Cu. Meters]	100 Sq. Ft. [9.29 Sq. Meters]	6

Square Foundation



Round Foundation

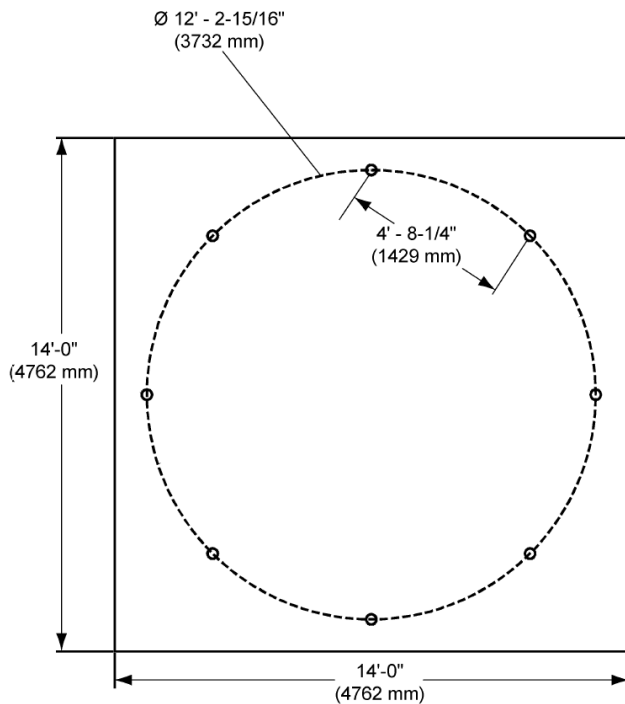
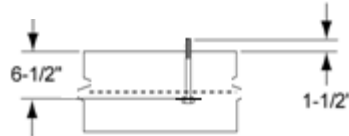


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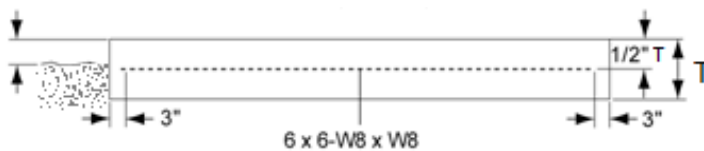
12' Diameter Feed Bins

	# of Rings	Slab Thickness (T)	Concrete Volume	Wire Mesh Area	Qty of
Square	1-5	15" [381 mm]	9.1 Cu. Yards [6.93 Cu. Meters]	196 Sq. Ft. [18.21 Sq. Meters]	8
Square	6	16" [406 mm]	9.7 Cu. Yards [7.40 Cu. Meters]	196 Sq. Ft. [18.21 Sq. Meters]	8
Round	1-5	15" [381 mm]	7.1 Cu. Yards [5.45 Cu. Meters]	155 Sq. Ft. [14.40 Sq. Meters]	8
Round	6	16" [406 mm]	7.6 Cu. Yards [5.81 Cu. Meters]	155 Sq. Ft. [14.40 Sq. Meters]	8

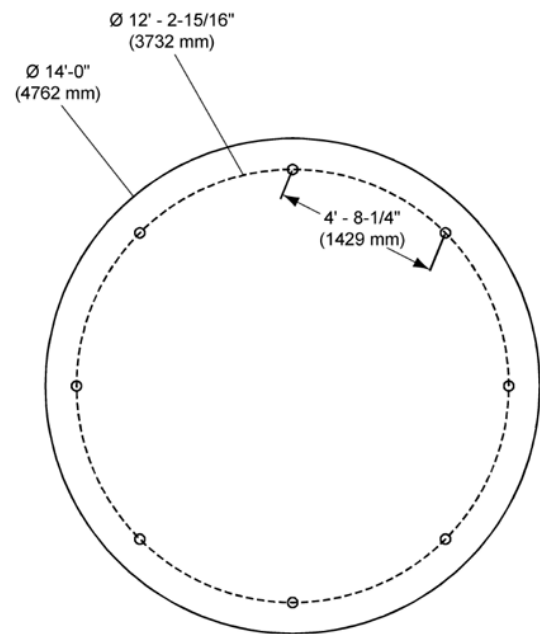
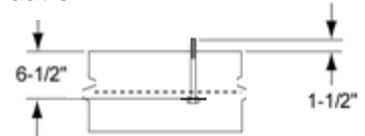
Square Foundation



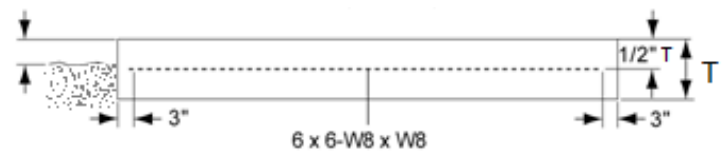
6" maximum above Grade



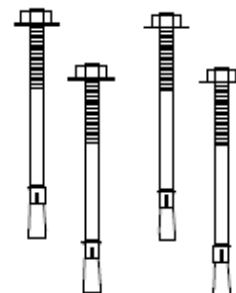
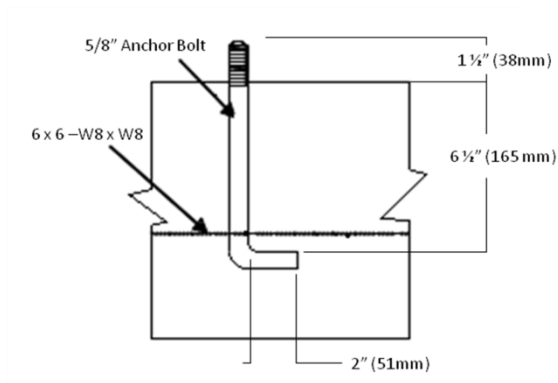
Round Foundation



6" maximum above Grade



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Anchor bolt 5/8" x 8" (203 mm) bolt with an 1/8" thick x 1-3/4" O.D. washer on head.

Side Wall Sheet Gauge Chart

Tank

Gauge

6' - 60° Hopper

BFT 6'-1 Ring	20
BFT 6'-2 Ring	20-20
BFT 6'-3 Ring	18-20-20
BFT 6'-4 Ring	18-20-20-20

7' - 67° Hopper

BFT 7'-1 Ring	20
BFT 7'-2 Ring	18-20
BFT 7'-3 Ring	18-20-20
BFT 7'-4 Ring	18-18-20-20
BFT 7'-5 Ring	16-18-18-20-20
BFT 7'-6 Ring	14-16-18-18-20-20

9' - 60° Hopper

BFT 9'-1 Ring	20
BFT 9'-2 Ring	20-20
BFT 9'-3 Ring	20-20-20
BFT 9'-4 Ring	18-18-20-20
BFT 9'-5 Ring	16-18-18-20-20
BFT 9'-6 Ring	14-16-18-18-20-20

12' - 60° Hopper

BFT 12'-1 Ring	18
BFT 12'-2 Ring	14-20
BFT 12'-3 Ring	14-18-20
BFT 12'-4 Ring	14-16-20-20
BFT 12'-5 Ring	12-16-18-20-20
BFT 12'-6 Ring	12-14-16-18-20-20



Side wall sheets are color coded on edges for gauge identification. Simply match the gauge color with the number.

Sheet Gauge Color Chart

20ga	Red
18ga	Orange
16ga	Blue
14ga	Green
12ga	Black
10ga	Yellow

Side Wall Sheet Assembly

1. Identify the 3 lightest corrugated Top sheets (color coded), or by the top row of holes being spaced 3 1/8" apart. The top sheet will also have a decal.

Sheet Gauge Color Chart

20ga	Red
18ga	Orange
16ga	Blue
14ga	Green
12ga	Black
10ga	Yellow

2. Apply the roll caulking (HS721) to the inside of the side wall sheets, (Vertical Seam) along each side the holes (except top sheet with 3 1/8" center holes, this caulk will be added on the roof panels).

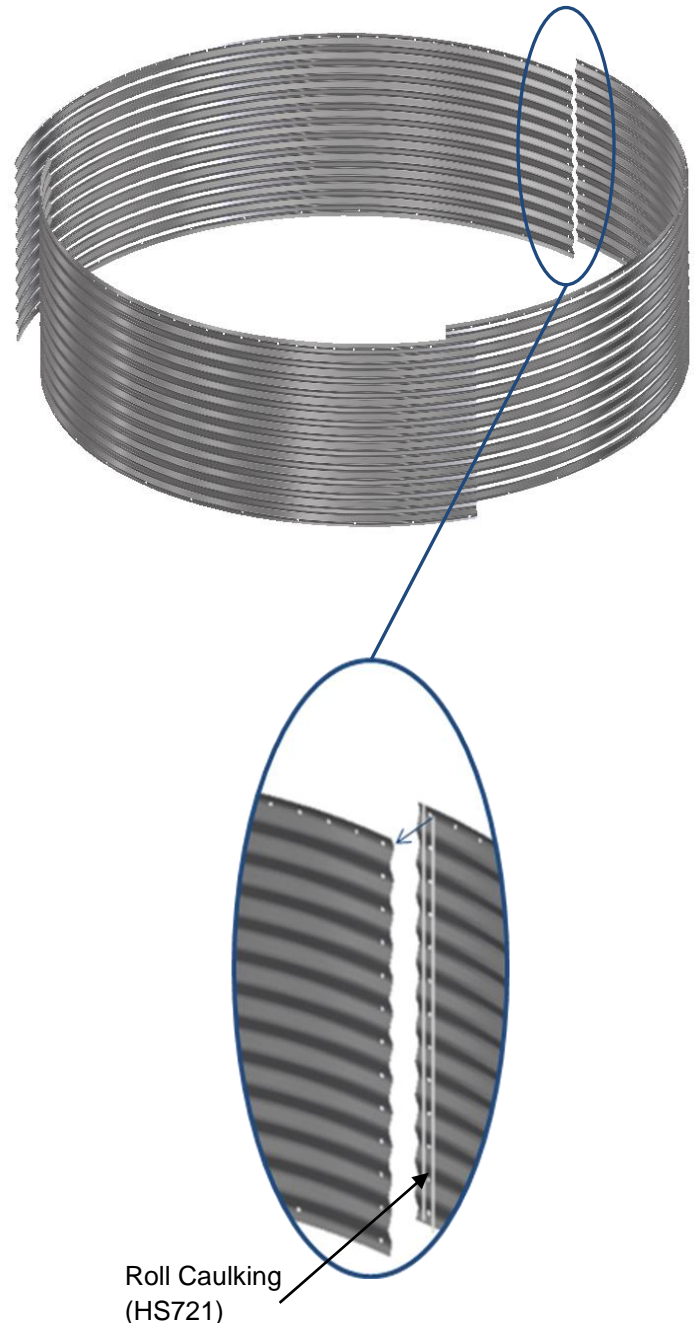


Be sure to caulk all seams along both sides of the holes to form a good seal and prevent leaking!

3. Place the caulked end over the un-caulked end of each adjacent hopper sheet.
4. Assemble ends with HS712 bin bolts and HS722 Hex Nuts (***Hex nuts on inside of bin***). Continue inserting Bin Bolts and Hex Nuts to all the holes along the vertical seam as you assemble the ring. ***Do not tighten until all sheets of each ring are assembled.***



Tighten Hex nuts Only! Tightening by the bolt head may result in seal failure.



5. Add 2 rows of roll caulk to the top-outside edge of the Mid Sidewall sheet on **each side of holes**.
6. Place (1) Mid Sidewall sheet on inside of the assembled top ring making sure the mid sidewall sheet ends are at the center of the first top sheet and holes align, as illustrated. Use the HS712 Hex Bin Bolt and the HS722 Hex Nuts in each hole to attach.
7. After completing the second ring you should lay assembly on its side so hoppers can be rolled easily to help make remaining assembly easier as shown.

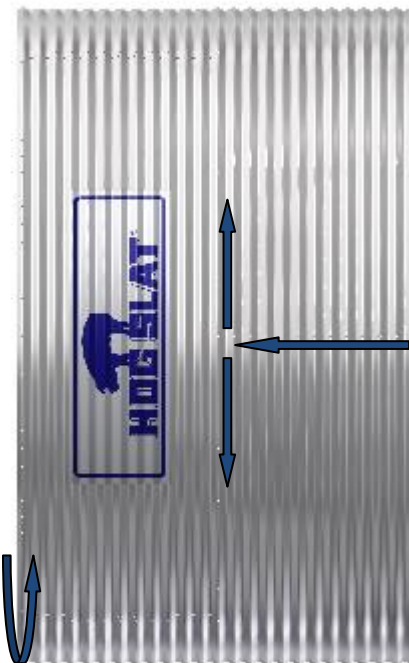
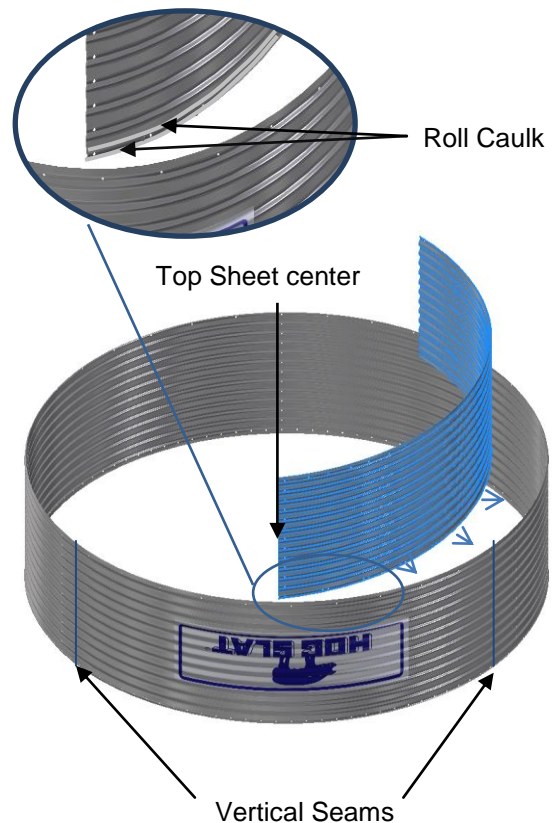


On 5 and 6 ring bins you will need to align leg holes with bottom ring leg holes.

8. Tighten horizontal seams by starting in center of hopper sheet and working toward ends as shown with blue arrows.



When all hopper sheets are assembled you should have the heaviest corrugation on the bottom, the decal sheet on top, and with each vertical seam staggered.



Tighten bin bolts from center of panels working outward

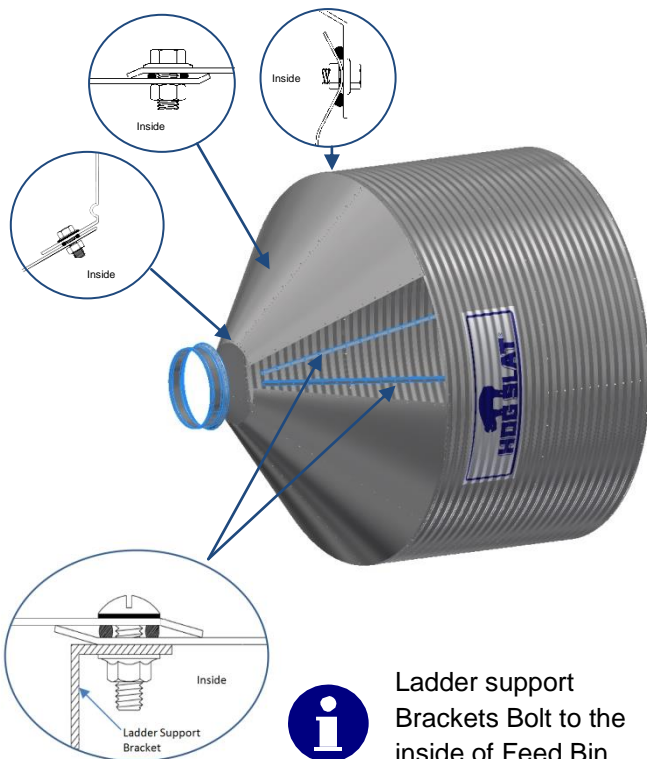
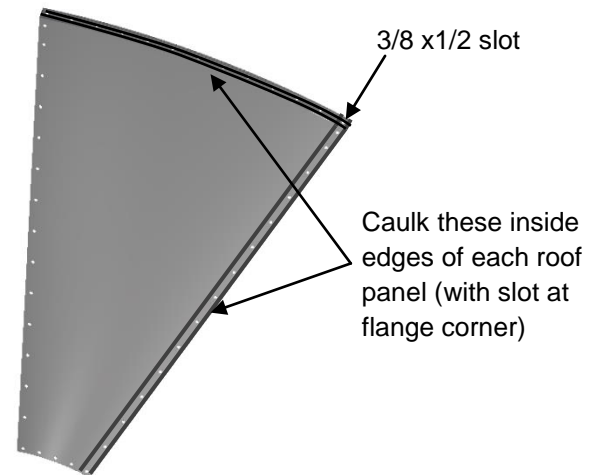
Heaviest sheet with Drip Lip on Bottom

Roof Panels



The roof and sidewall ladders are centered between top sheet vertical seams

1. Begin caulking roof panels along the inside edge of one side and the inside edge of the top corrugated flange, as shown.
2. Align the center of the first roof panel with any of the top sidewall sheet vertical seams.
3. Assemble roof decks over the top of the previous panel in a counterclockwise direction. Use the HS712 Hex Bin Bolts and the HS722 Hex Nuts. **Keep bolt heads to the outside.**
4. After determining the ladder location, add the two Roof Ladder Support braces at each side of the one roof panel that the ladder will be centered on.
5. After all roof panels are installed, caulk the inside flange of the peak ring and attach to roof using HS712 Hex Bin Bolts and the HS722 Hex Nuts

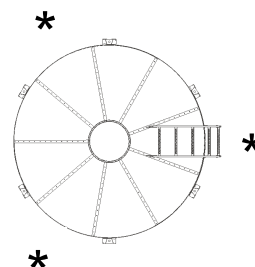
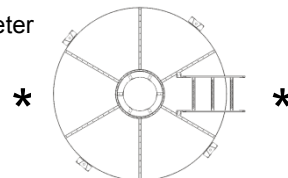


Ladder support Brackets Bolt to the inside of Feed Bin

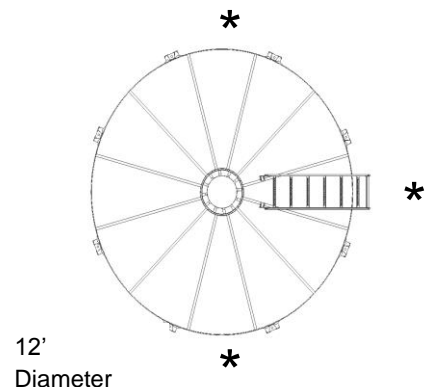


* = Ladder Location Options

6' & 7' Diameter



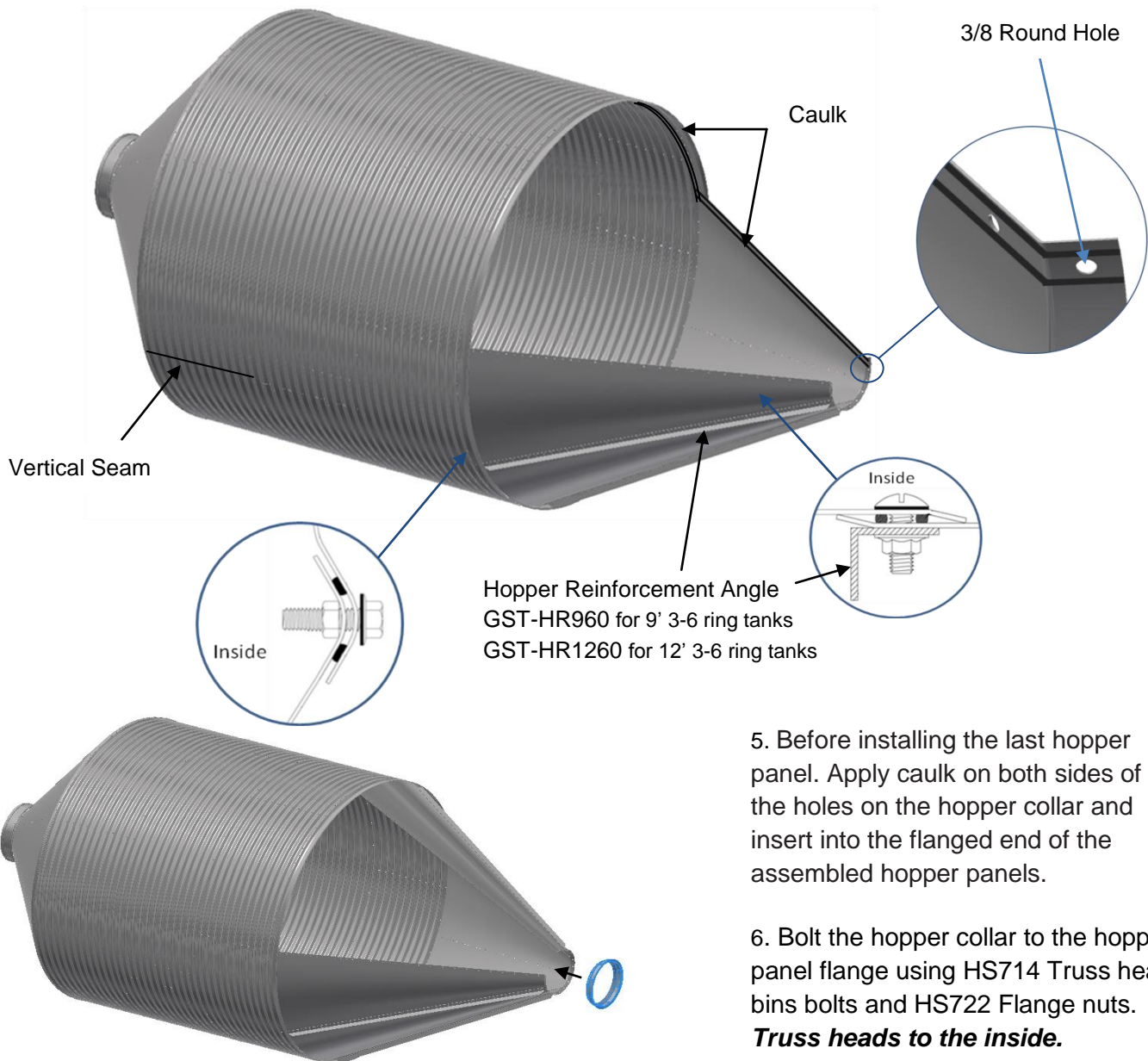
9' Diameter



12' Diameter

Hopper Panels

1. Begin caulking around the inside of the bottom row of holes on the bottom ring of corrugated side wall sheets.
2. Caulk the hopper panel sheets along the vertical edge with the bend towards the outside. **Caulk all hoppers panels on the same inside edge and apply to both sides of holes.**
3. Align the center of the first hopper panel section with any of the vertical seams on the top ring and assemble to inside of corrugated sidewall sheets using HS712 Hex Bin Bolts and the HS722 Hex Nuts.
4. Continue around until all but one hopper panel are assembled and bolts tightened.

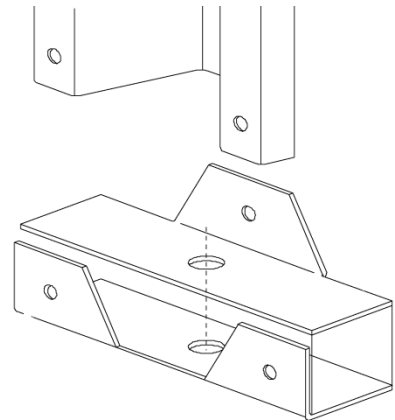


Legs

1. Assemble top and bottom Leg Base Plates to each leg.
2. The bin leg attaches to the (11) leg holes in the bottom ring. **The bin legs with 23 holes will require the bottom two rings.**
3. Align holes with Drift Pin from outside of bin. Hand tighten the HS712 Hex Bin Bolts and the HS722 Flange nuts on all holes.



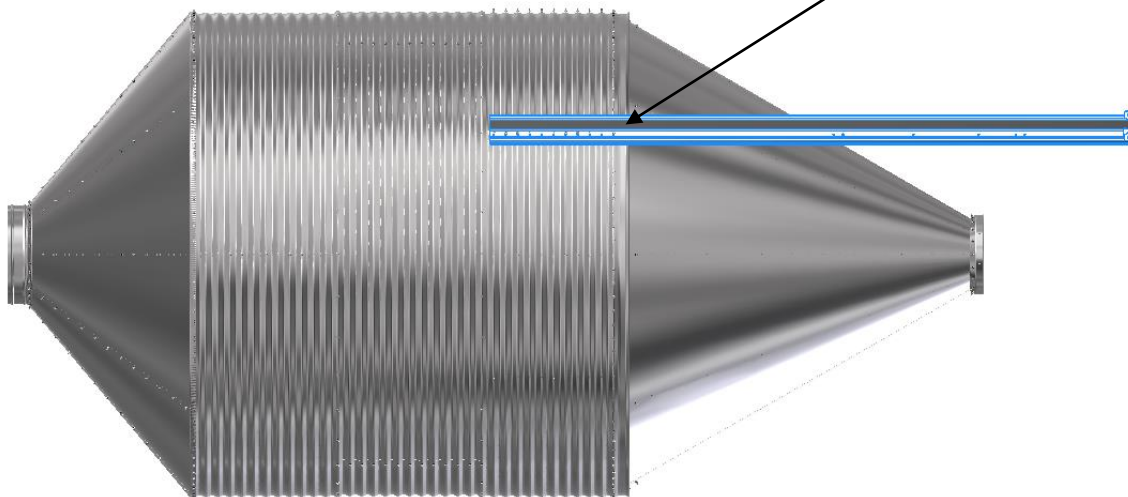
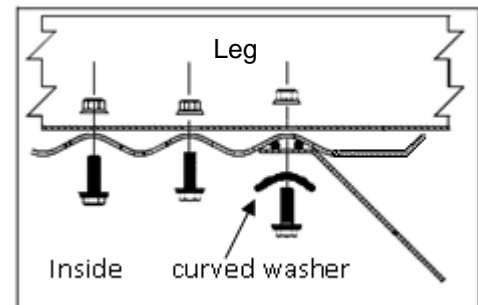
Keep bolt heads to the Inside of tank.



4. Roll the bin to assemble each leg until all the legs are complete. **Tighten all nuts secure.**
5. Before person exits bin, have them check for missing bolts by darkening bin and looking for light thru open holes.



A Curved Washer must be installed at the bottom Leg Bolt next to the Hopper Panel (All Tanks).



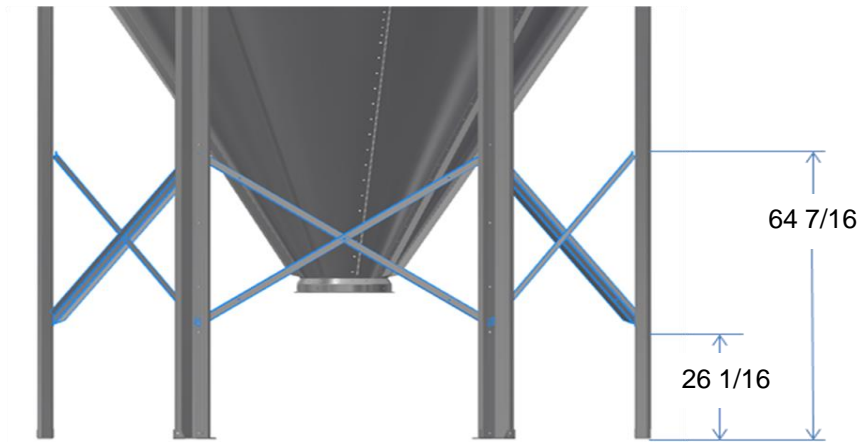
Leg X-Brace / Hopper Brace

1. Install the Hopper Braces and X-Braces to Legs using $\frac{3}{8}$ x 1" Hex Head Gr. 8 Bolts and $\frac{3}{8}$ " Nuts.

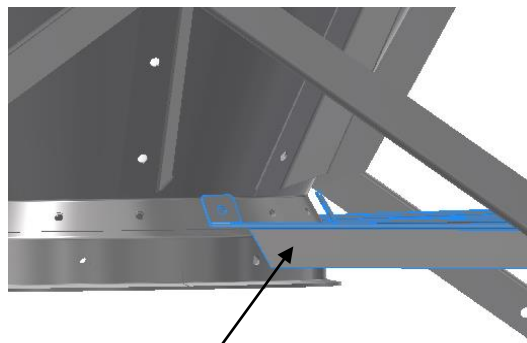
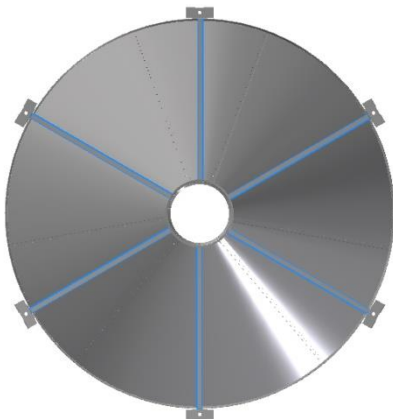


Do not tighten X-brace's until all hopper braces have been installed and tightened.

2. The Longest tab of the x-braces should be to the top.



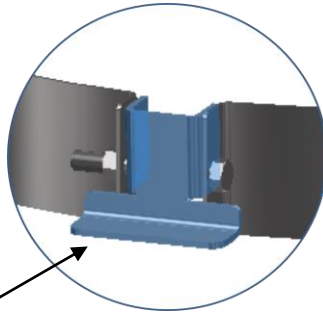
3. Attach hopper braces to the leg and secure.
4. Align the hopper end of the brace to the nearest hole in the hopper collar and secure.



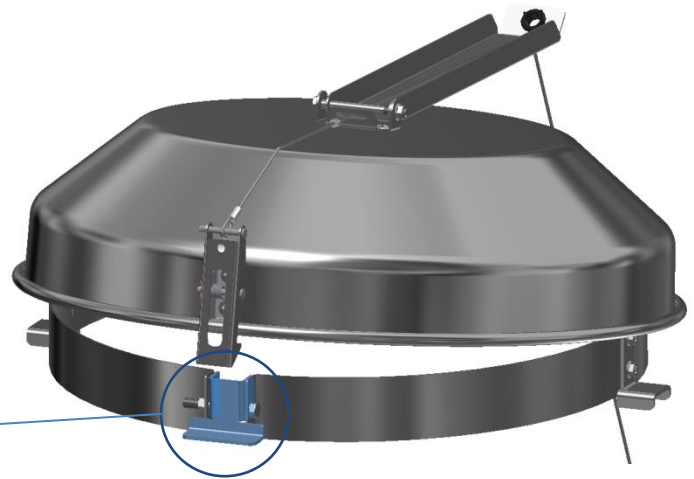
Install with the Flange pointing downward as shown

Lid Assembly

1. Place lid assembly over peak ring and reattach the 3/8" x 3" bolt along with lid stop bracket.
2. Tighten bolt enough so that the lid stop will be in contact with both clamp band flanges.

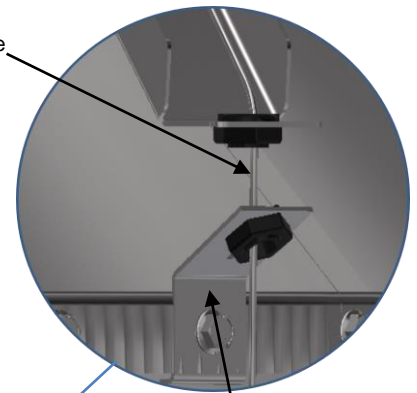


GST-LD2017 Lid Latch

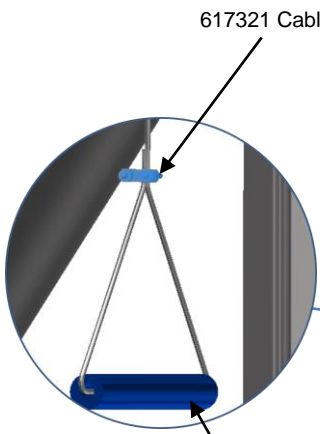


3. **With the lid in full open position** - Slip the Lock Collar over the cable and tighten just under the GST-LD1011 Guide bracket to lock the lid in the open position.
4. Loop the cable trough the GST-LD1013 Tube and secure with 617321 Cable Clamp. Trim off excess cable.

GST-LD2056 Actuation Cable



GST-LD1019 Pull guide Assembly

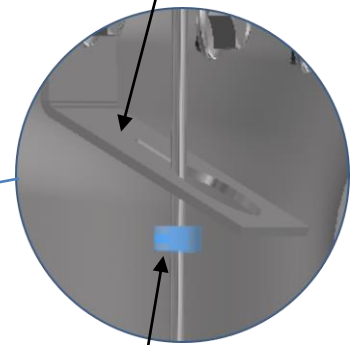


617321 Cable Clamp

GST-LD1013 Tube



GST-LD1011 Guide Bracket



GST-LD2041 Lock Collar
(Set with lid at full open)

Ladder Assembly

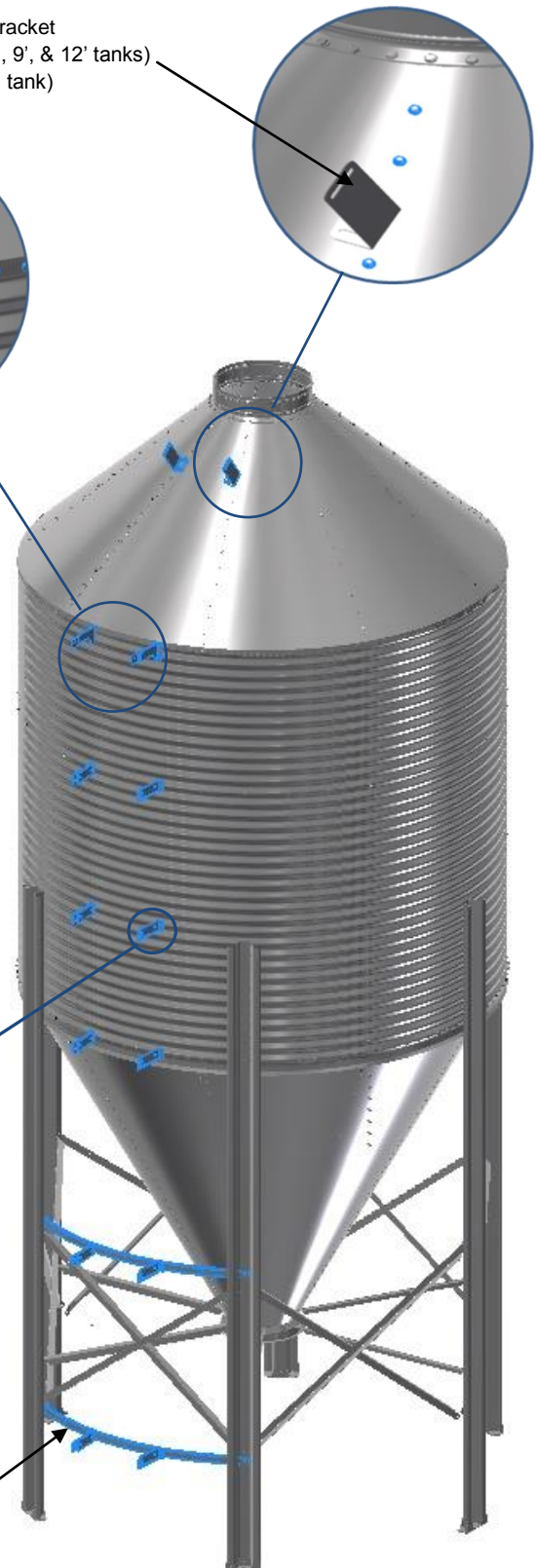
1. Attach the roof ladder stand-off brackets at the third hole down from the collar. Centered on the Roof Panel that has the ladder reinforcement bracket.
2. Attach the Ladder top mount brackets (left and right handed) at the fourth hole from each roof seam (**5 holes in between and centered on roof panel**).
3. Mount the curved ladder support channel to the legs through the nearest available hole to the X-brace mounts (Using the HS716 3/8" x 1" Gr8 bolts and HS724 3/8" serrated flange nut).
4. Continue to mount the GST-LS6403 vertical ladder mount bracket to each horizontal sidewall seam and at the Curved ladder support channels immediately below the top mount brackets (in-line)

Roof stand-off bracket
GST-LS6405 (6', 9', & 12' tanks)
GST-LS6411 (7' tank)

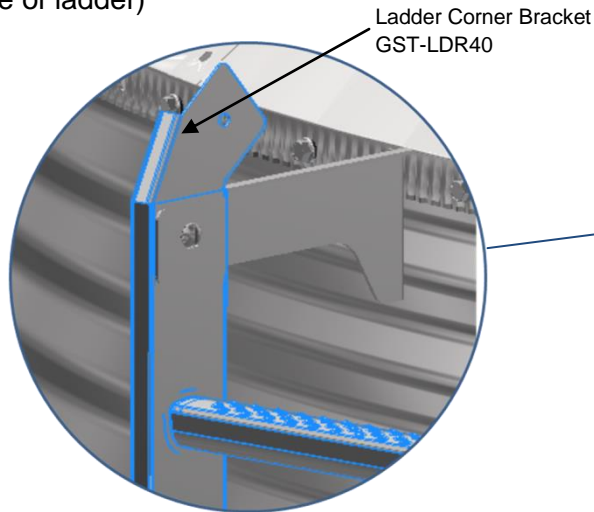
Ladder Top mount brackets
GST-LS6406 (Right)
GST-LS6412 (Left)

Ladder Standoff Bracket
GST-LS6403

Ladder Top mount brackets
GST-LS6407 (9' tank)
GST-LS6408 (6' tank)
GST-LS6409 (7' tank)
GST-LS6410 (12' tank)

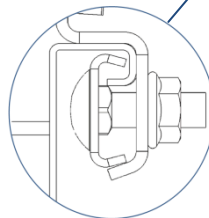


5. Starting at the top ladder mount brackets, attach the ladder and the corner bracket at the same time using the HS714 5/16" x 3/4" truss head bin bolts. (Truss head to the inside of ladder)

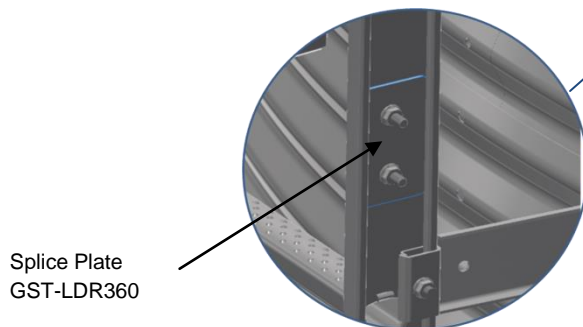


Ensure the truss head is to the inside of the ladder assembly.

6. Starting at the top, continue to attach the vertical ladder to each GST-LD6403 using the GST-LD6404 retainer and HS717 Carriage bolt. Secure with HS722 serrated flange nut.

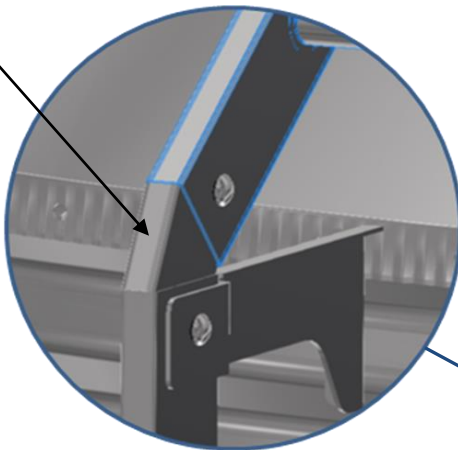


7. Splice each ladder section using the GST-LDR360 Splice plate

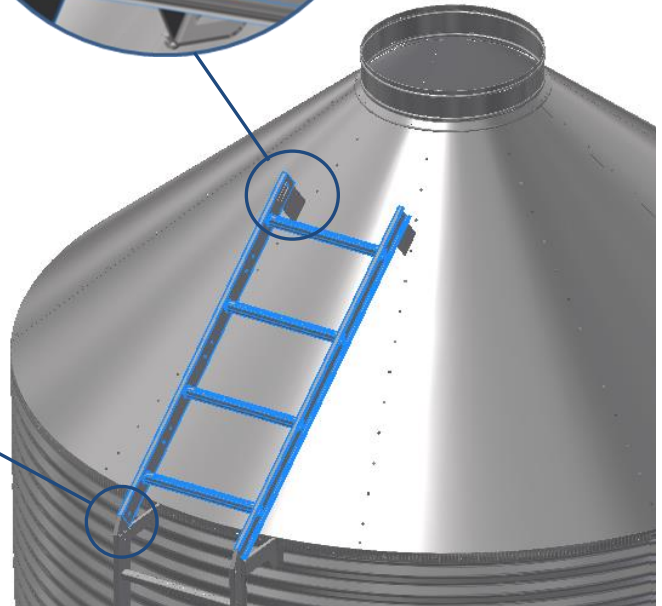
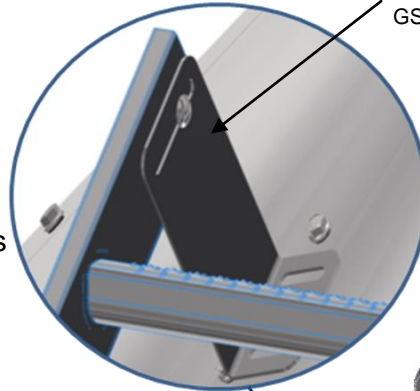


8. Attach the roof ladder to the corner brackets and roof stand-off brackets Using HS714 Truss head bin bolts and HS722 Serrated hex nuts.

Corner Bracket
GST-LDR40



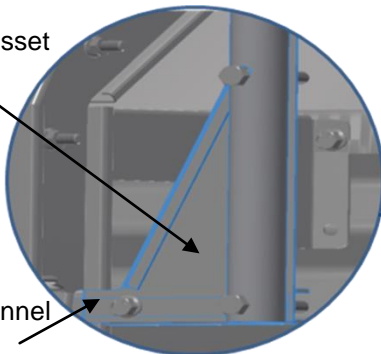
Roof stand-off bracket
GST-LS6405 (6', 9', & 12' tanks)
GST-LS6411 (7' tank)



Skip steps 9 and 10 and proceed to the next page if you are installing a Safety Cage system.

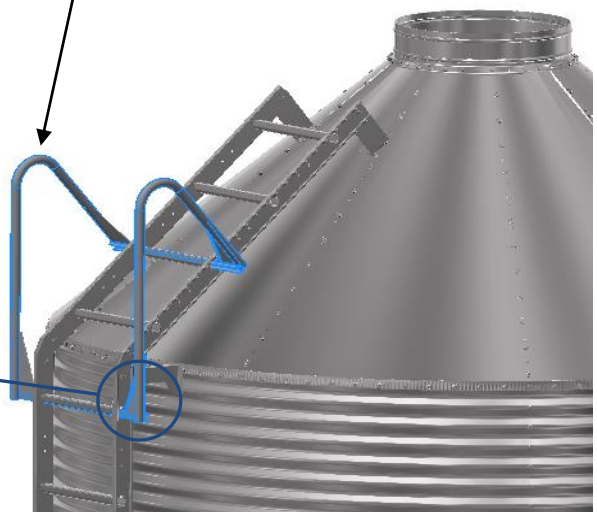
9. Slide the Ladder handrail support channel through the first rung of the vertical ladder and the second rung of the roof ladder.
10. Attach the gusset, ladder handrail, and channel at the same time using the 605101 - 5/16" x 1 3/4" bolts provided.

Ladder Handrail Gusset
GST-LS6420



Ladder Handrail Channel
GST-LS6422

Ladder Handrail
GST-LS6421



Safety Cage

1. Attach the GST-LDR54SC ladder cage extension rails using the GST-LS6419, 2" spacer through the top two 3/8" diameter holes available on the vertical ladder. Secure using the FL0120331 5/16-18 x 2 1/2 bolt and the HS722 Serrated Flange nut.

GST-LS6419

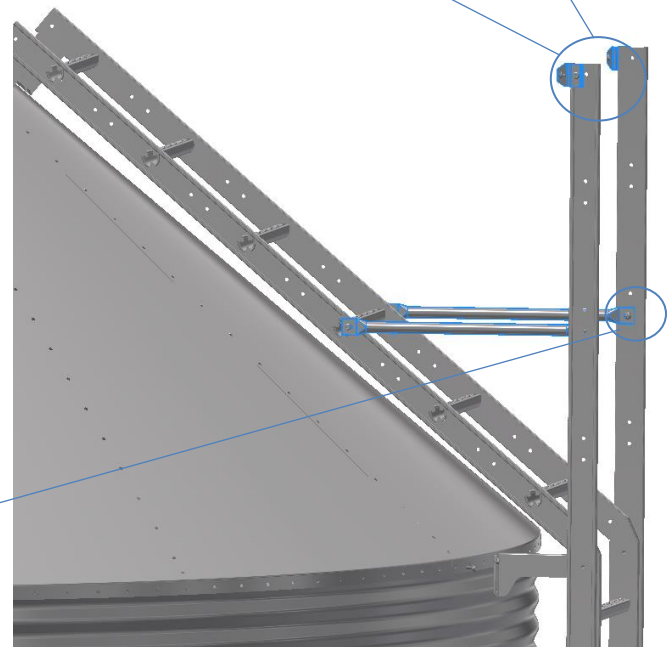
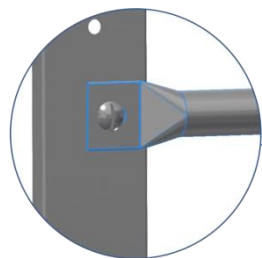
GST-LDR54SC

2. Attach the GST-LS6425 to the cage extension rail using the GST-LS6404 retainer and HS717 carriage bolt

GST-LS6425

GST-LS6404

4. Attach the GST-LS6416, 48" Tube to roof panel seam at the third hole from the ladder support bracket, using the HS712 bolt already installed



3. Attach the GST-LS6417 to the roof ladder using two GST-LS6404 and one HS717 Carriage bolt.

GST-LS6404

GST-LS6417

4. Attach the GST-LS6416, 48" Tube to roof panel seam at the third hole from the ladder support bracket, using the HS712 bin bolt already installed.

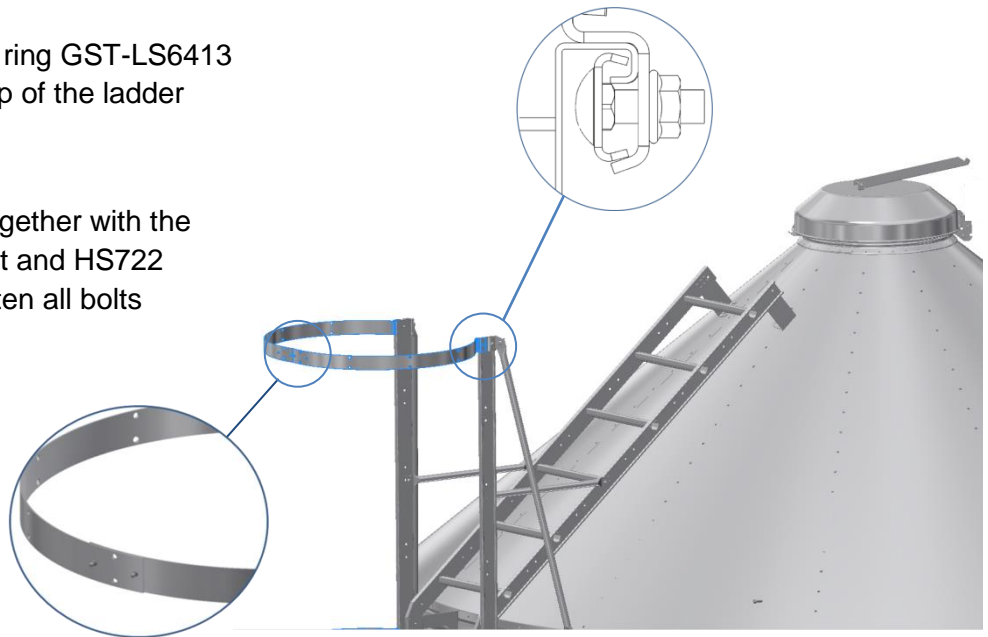
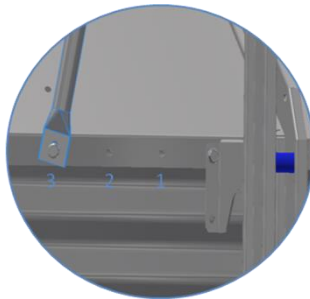
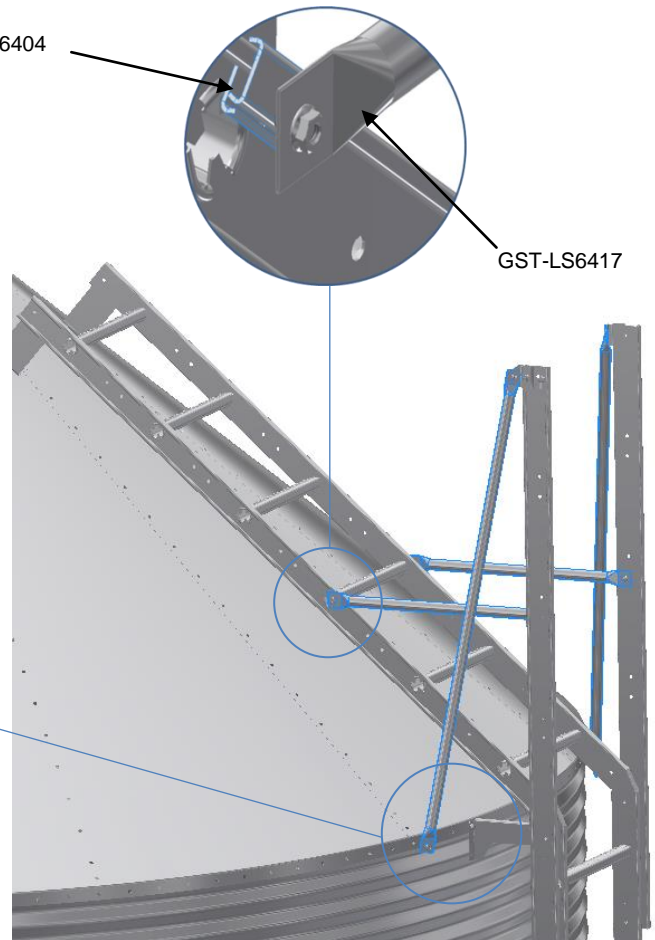


Slide the GST-LS6425 up or down the handrail to align tube with the top panel seam hole.

5. Attach the top safety cage ring GST-LS6413 (small Ring) flush to the top of the ladder extension rails.
6. Bolt the two loop halves together with the HS714 Truss Head bin bolt and HS722 Serrated Flange Nut. Tighten all bolts secure.



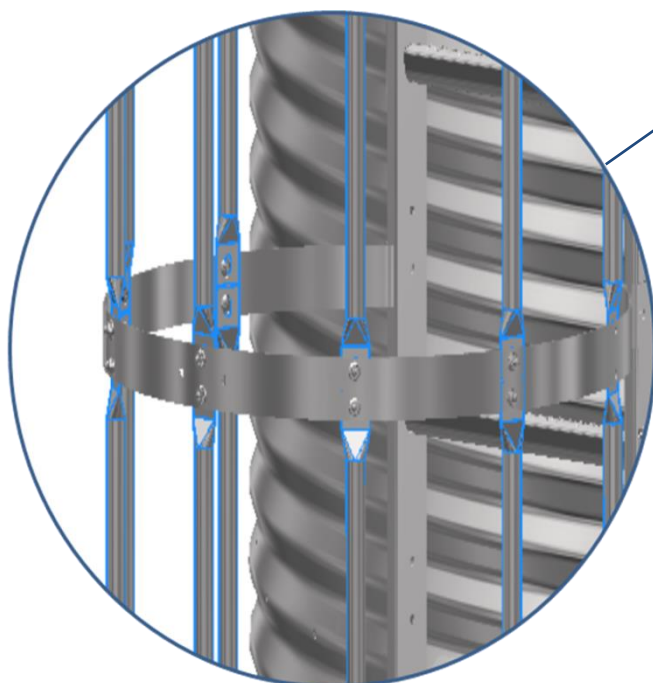
Ensure the Truss Head of HS714 is to the inside of all cage loops



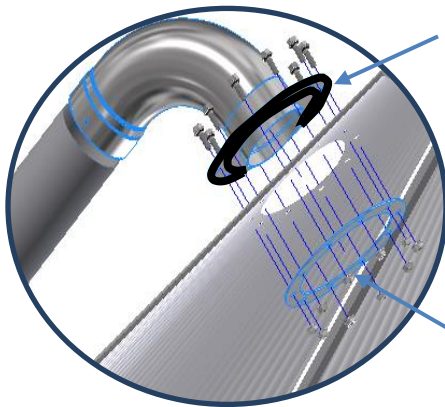
7. Place the extension tubes to the inside of the loops and secure using the HS714 truss head tin bolt and the HS722 Serrated flange nut.
8. Continue working down the tank installing the loops and extension tubes.



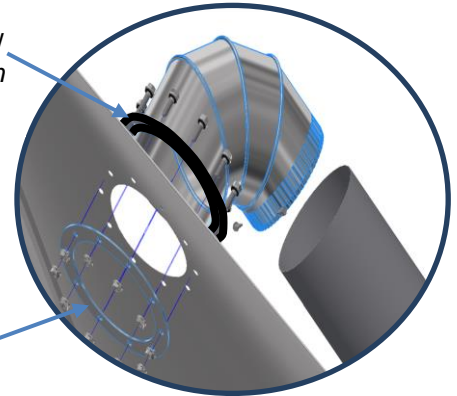
Only the bell extension uses the larger diameter cage loop. All others are the same size.



Pneumatic Fill Assembly



Caulk each side of the holes on the Elbow Flange side of the roof panel. As shown in black



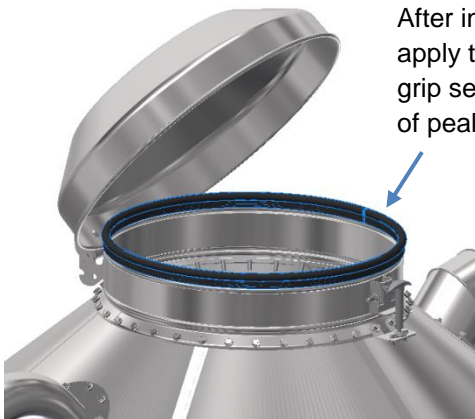
Add additional Flange provided to inside of roof panel to ensure a tight seal (no sealant required on the inside of roof panel). Secure using HS712 bin bolt and HS724 serrated flange nut.

Secure tube connections using the 60887 #10x3/4" self drilling screws provided.

Side Fill Tube (not included in Kit).

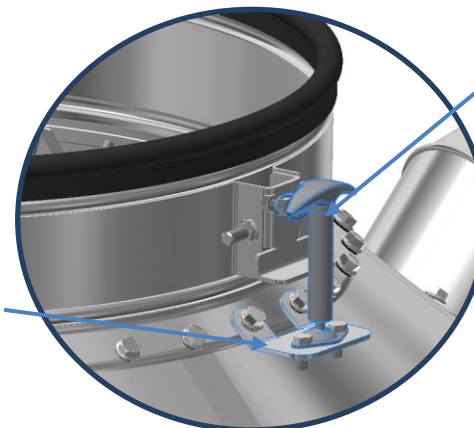
Cut Exhaust extension tube to fit.

Attach Clamp bands at center of roof panel using the HS712 Carriage bolt and HS724 serrated flange nut.

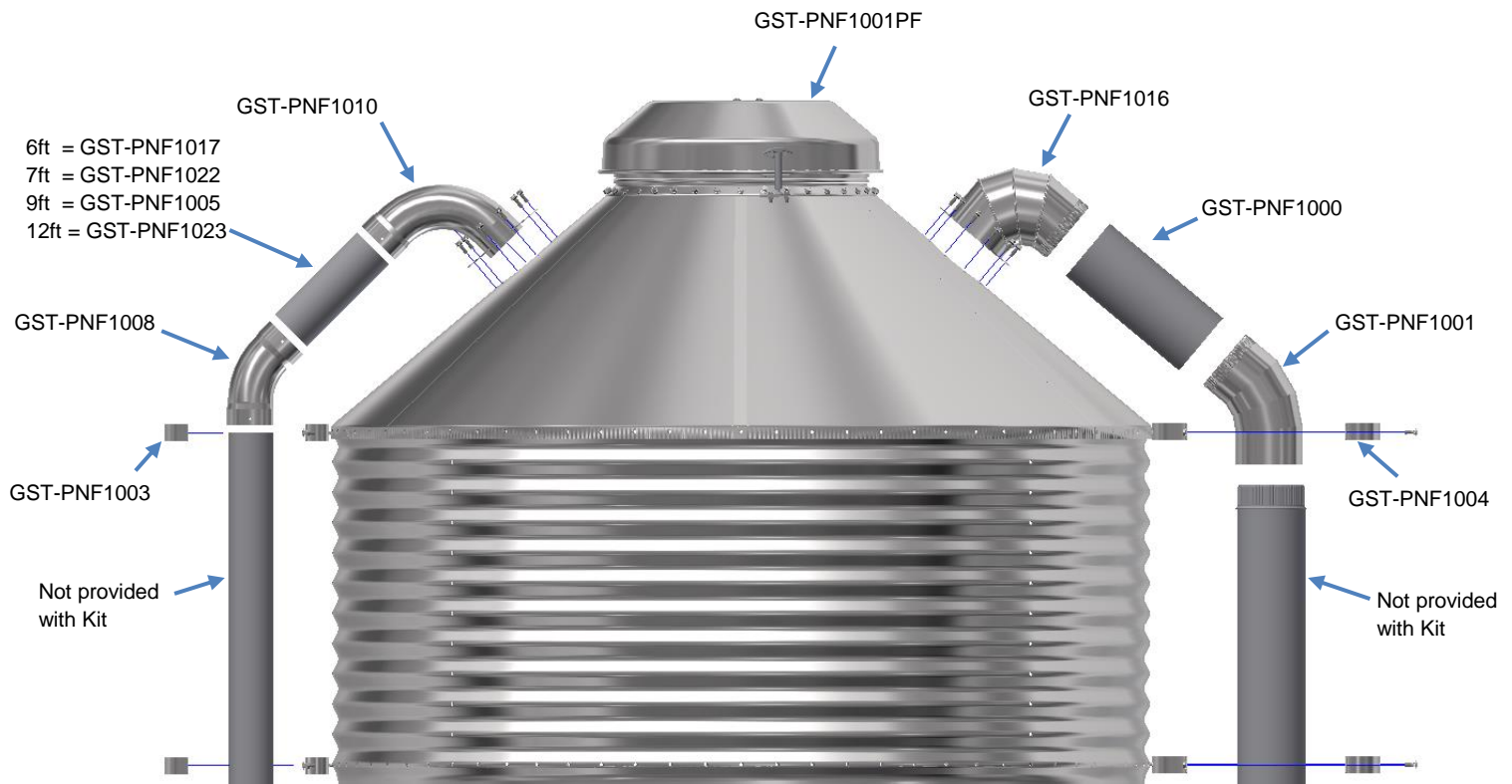


After installing lid assembly, apply the GST-PNF1011 edge grip seal around the top edge of peak ring.

Attach the GST-LD1022 Latch bracket centered at the lid clamp bracket.



Attach the GST-PNF1012 Latch to the GST-LD1022 bracket. Secure using the 605012 1/4" bolt and 60680 1/4" nylock nuts.



Pneumatic Fill Kits	
GST-PNF1026	Kit, Pneumatic Fill, 6' Tank 40°
GST-PNF1027	Kit, Pneumatic Fill, 7' Tank 40°
GST-PNF1029	Kit, Pneumatic Fill, 9' Tank 40°
GST-PNF10212	Kit, Pneumatic Fill, 12' Tank 40°
GST-PNF1020	Tube, 4" OD, 14 ga Galvanized, 20 foot section
GST-PNF1030	Tube, 4" OD, 14 ga Galvanized, 10 foot section
GST-PNF1034	Clamp Band Kit, 4"
GST-PNF1036	Clamp Band Kit, 6"

Roof Panel (inlet and outlet roof panels are the same)	
GST-RP640PF	Roof Panel, Formed, 40 degree, 6ft Tank, Pneumatic fill
GST-RP940PF	Roof Panel, Formed, 40 degree, 9ft Tank, Pneumatic fill
GST-RP740PF	Roof Panel, Formed, 40 degree, 7ft Tank, Pneumatic fill
GST-RP1240PF	Roof Panel, Formed, 40 degree, 12ft Tank, Pneumatic fill

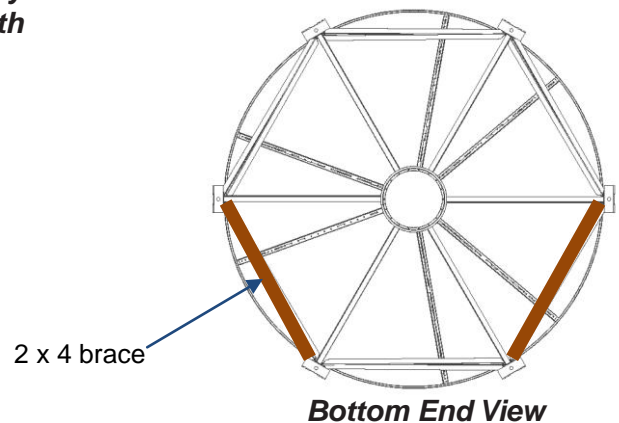
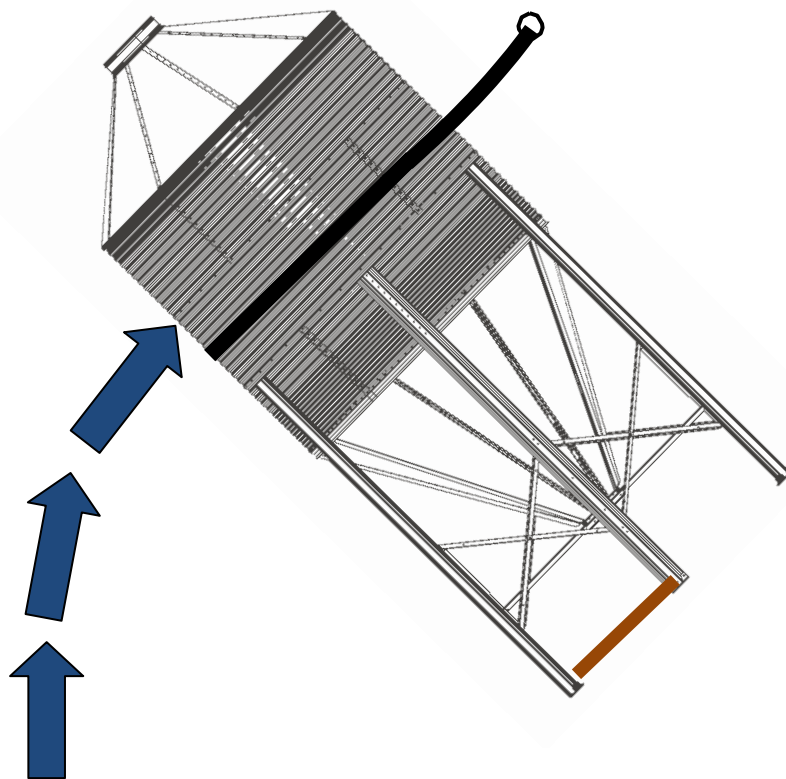
Erecting the Bin

Before erecting your new bin, be sure all parts are assembled properly and hardware tightened securely.

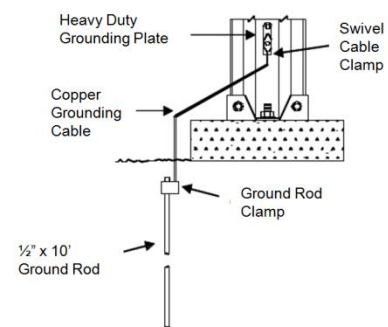
1. Peel protective paper off decal before raising bin.
2. Cut 2" x 4" braces and fasten between legs as shown.
3. Raise the bin as shown below. Be sure to use appropriate equipment.



- **Be sure to use proper strength heavy equipment such as; crane, truck with hydraulic lift bed or other.**
- **Level the legs, to assure stability, after the bin is raised.**
- **Failure to adequately secure legs may result in damage to your Feed Bin.**
- **Do not place bins in the immediate air flow from exhaust fans**



Bin Grounding Instructions



All bins shall have **two** Ground Connections. Ground Rod Clamps must be spaced equally around the bin.

IMPORTANT! Make sure electrical equipment is properly installed and grounded by a qualified electrician according to the National Electrical Code.

Ladder Matrix

	Roof			Sidewall					Safety Cage			Handrail	
	GST-LDR36RA	GST-LDR48RA	GST-LDR72RA	GST-LDR60A	GST-LDR72A	GST-LDR84A	GST-LDR96A	GST-LDR108A	GST-LS6424	GST-LS6426	GST-LS6427	GST-LS6423	total feet /tank
BFT 6'-1 Ring	1							1	1	0	1	1	9
BFT 6'-2 Ring	1			1	1				1	1	1	1	11
BFT 6'-3 Ring	1					2			1	1	1	1	14
BFT 6'-4 Ring	1			1	2				1	2	1	1	17
BFT 7'-1 Ring	1				2				1	1	1	1	12
BFT 7'-2 Ring	1					2			1	1	1	1	14
BFT 7'-3 Ring	1			1	2				1	2	1	1	17
BFT 7'-4 Ring	1				1	2			1	2	1	1	20
BFT 7'-5 Ring	1				1		2		1	3	1	0	22
BFT 7'-6 Ring	1				3	1			1	4	1	0	25
BFT 9'-1 Ring		1			2				1	1	1	1	12
BFT 9'-2 Ring		1				2			1	1	1	1	14
BFT 9'-3 Ring		1		1	2				1	2	1	1	17
BFT 9'-4 Ring		1			1	2			1	2	1	1	20
BFT 9'-5 Ring		1			1		2		1	3	1	0	22
BFT 9'-6 Ring		1			3	1			1	4	1	0	25
BFT 12'-1 Ring			1			2			1	1	1	1	14
BFT 12'-2 Ring			1	1	2				1	2	1	1	17
BFT 12'-3 Ring			1	1		2			1	2	1	1	19
BFT 12'-4 Ring			1		1		2		1	3	1	0	22
BFT 12'-5 Ring			1		3	1			1	4	1	0	25
BFT 12'-6 Ring			1		1	3			1	5	1	0	27

6' Diameter Components

Corrugated sidewall sheets

1 Ring Bin

GST-SWB620S (1)
GST-SWB620S w/decal (1)

2 Ring Bin

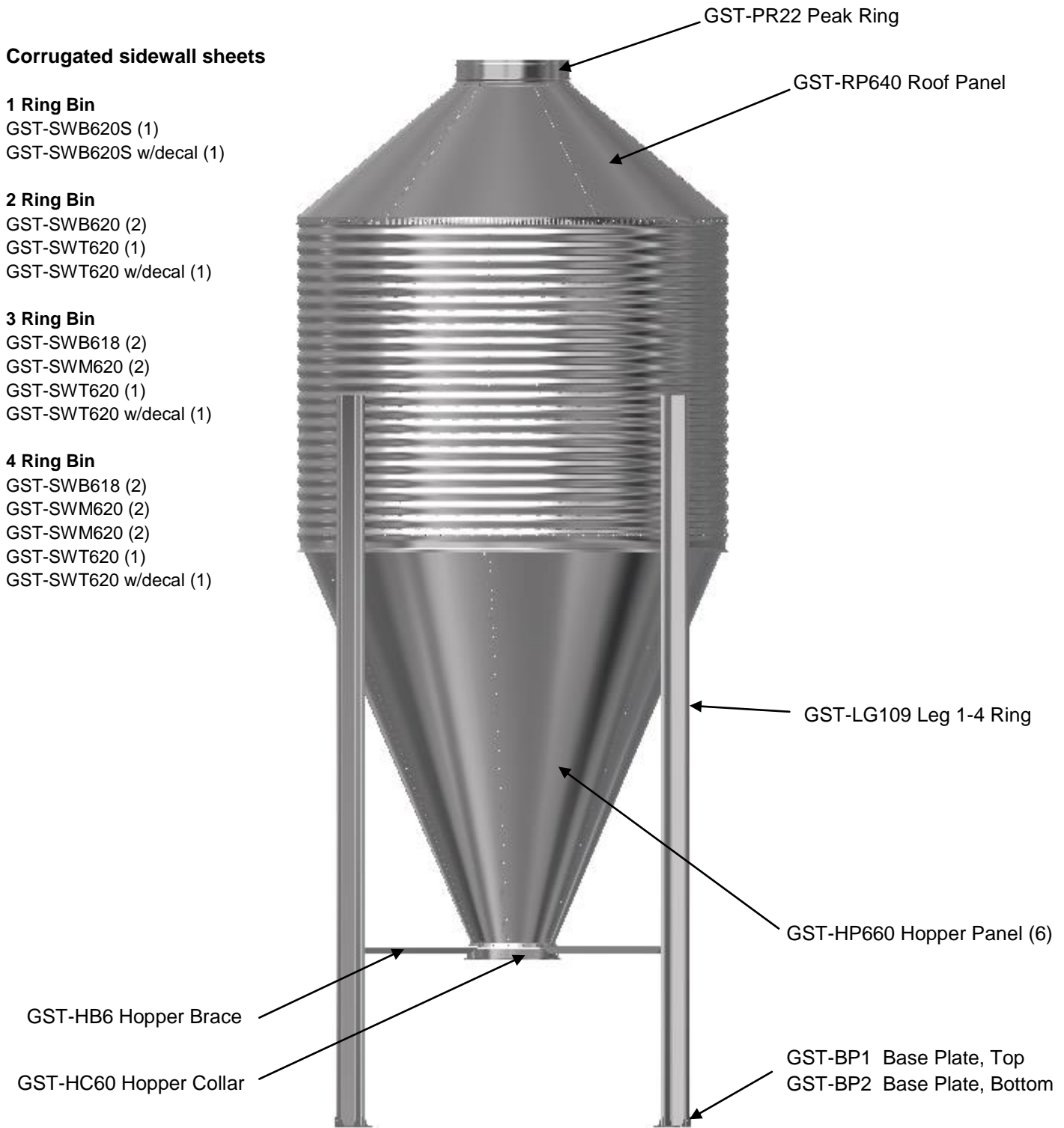
GST-SWB620 (2)
GST-SWT620 (1)
GST-SWT620 w/decal (1)

3 Ring Bin

GST-SWB618 (2)
GST-SWM620 (2)
GST-SWT620 (1)
GST-SWT620 w/decal (1)

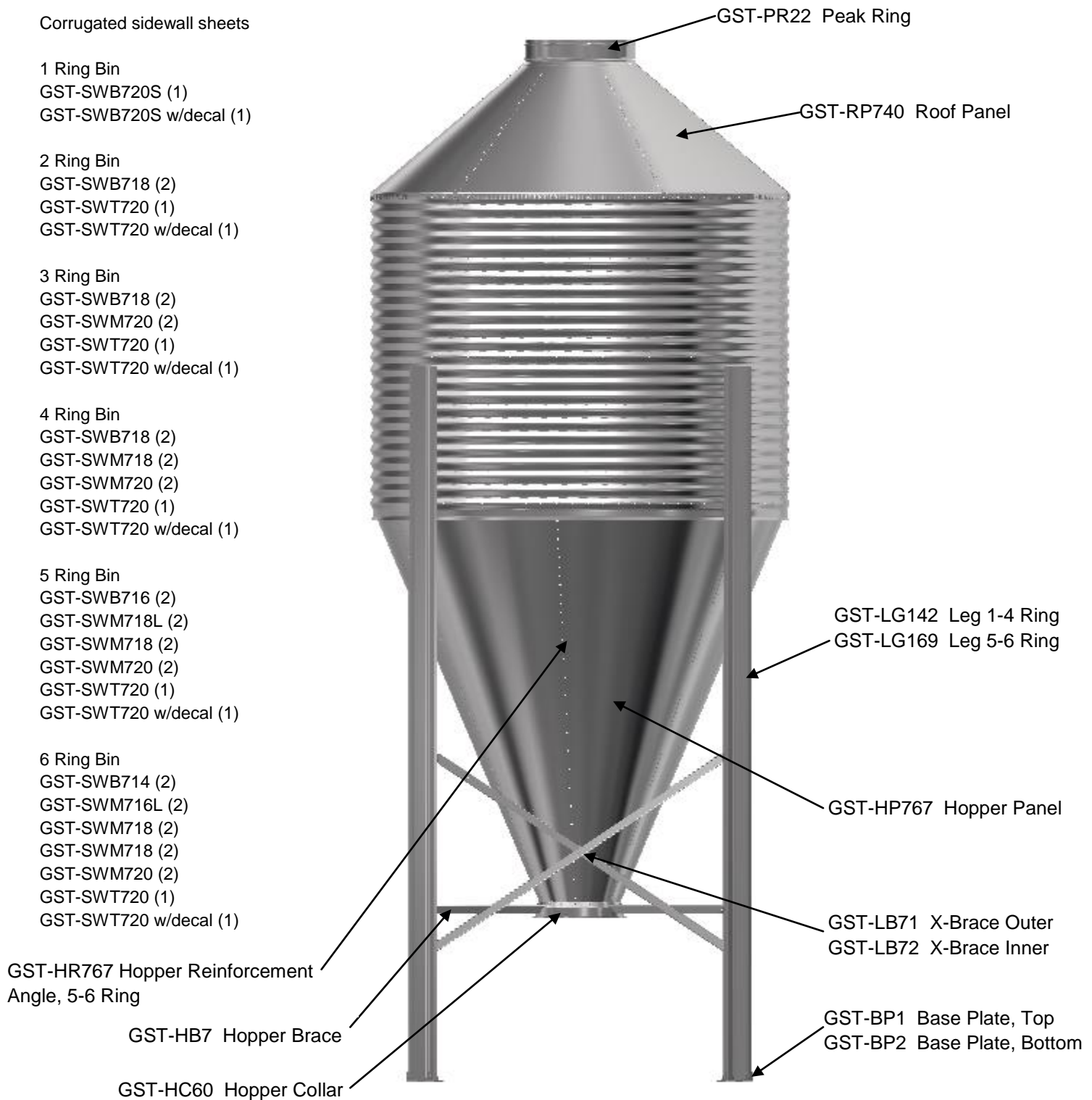
4 Ring Bin

GST-SWB618 (2)
GST-SWM620 (2)
GST-SWM620 (2)
GST-SWT620 (1)
GST-SWT620 w/decal (1)



Item number	Quantity	Unit	Item name
GST-SWT620	1	EACH	Side Wall Sheet, 20ga Top, 6 ft Tank
GST-SWT6HS	1	EACH	Sidewall, Top Sheet, w/Hog Slat Decal
GST-SWM620	Varies	EACH	Side Wall Sheet, 20ga Middle, 6 ft Tank
GST-SWB618	Varies	EACH	Side Wall Sheet, 18ga Bottom, 6 ft Tank
GST-HP660	6	EACH	Hopper Panel, Formed, 6 ft 60 Degree With Flange 18ga
GST-RP640	6	EACH	Roof Panel, Formed, 40 Degree, 6 ft Tank
GST-LG109	4	EACH	Leg, 12ga 6 ft 1-4 Rings
GST-HB6	4	EACH	Hopper Brace, 6 ft Tank, Formed
GST-LS6408	1	EACH	Ladder, Stand Off Support Brace, 6 ft Tank, Formed
GST-LDR24RA	1	EACH	Ladder, 24" Roof, 40 Degree
GST-LDR60A	1	EACH	Ladder, 60" Vertical
GST-LDR72A	2	EACH	Ladder, 72" Vertical
GST-LD2001	1	EACH	Lid Assembly, Latch Style
GST-HDW646016	1	EACH	Hardware Package, 6 ft 4 ring, 60 Degree hopper, 16" collar
HS712	Varies	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
HS714	Varies	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
HS716	4	EACH	Bolt 3/8-16 X 1 Hex Head Gr 8 JS1000
HS719	Varies	EACH	Finish Hex Nut 5/16-18 Grade 5 JS1000
HS722	Varies	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
HS724	4	EACH	Nut 3/8-16 Hex Serrated Flange Grade 5 JS1000
GST-BP1	4	EACH	Leg Base Plate, Inside
GST-BP2	4	EACH	Leg Base Plate, Outside
HS721	Varies	ROLL	Sealant Preformed Butyl Sealant 1/8" X 1/4" X 24' Rolls
GST-LDR40	2	EACH	Ladder, Corner Bracket, 40 Degree
GST-LS6411	2	EACH	Ladder, Stand Off Bracket, Roof 6 ft and 7 ft Tank, Formed
GST-LS6406	1	EACH	Ladder, Stand Off Bracket, Peak Right, Formed
GST-LS6412	1	EACH	Ladder, Stand Off Bracket, Peak Left, Formed
GST-LS6403	Varies	EACH	Ladder, Stand Off Bracket
GST-LS6404	Varies	EACH	Ladder, Stand Off Retainer
GST-LDR360	Varies	EACH	Ladder, Splice Plate
HS717	Varies	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LD1011	1	EACH	Lid, Guide Bracket, Formed
GST-LD1019	1	EACH	Lid, Pull Guide Assembly
GST-LS6423	1	EACH	Ladder, Handrail Kit
GST-LS6420	4	EACH	Ladder, Handrail Bracket w/out Safety Cage, Formed
GST-LS6421	2	EACH	Ladder Handrail w/out Safety Cage
GST-LS6422	2	EACH	Ladder, Handrail Support Channel, Formed
605101	8	EACH	Bolt Hex Cap 5/16-18 X 1-3/4" Zinc
HS722	8	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000

7' Diameter Components

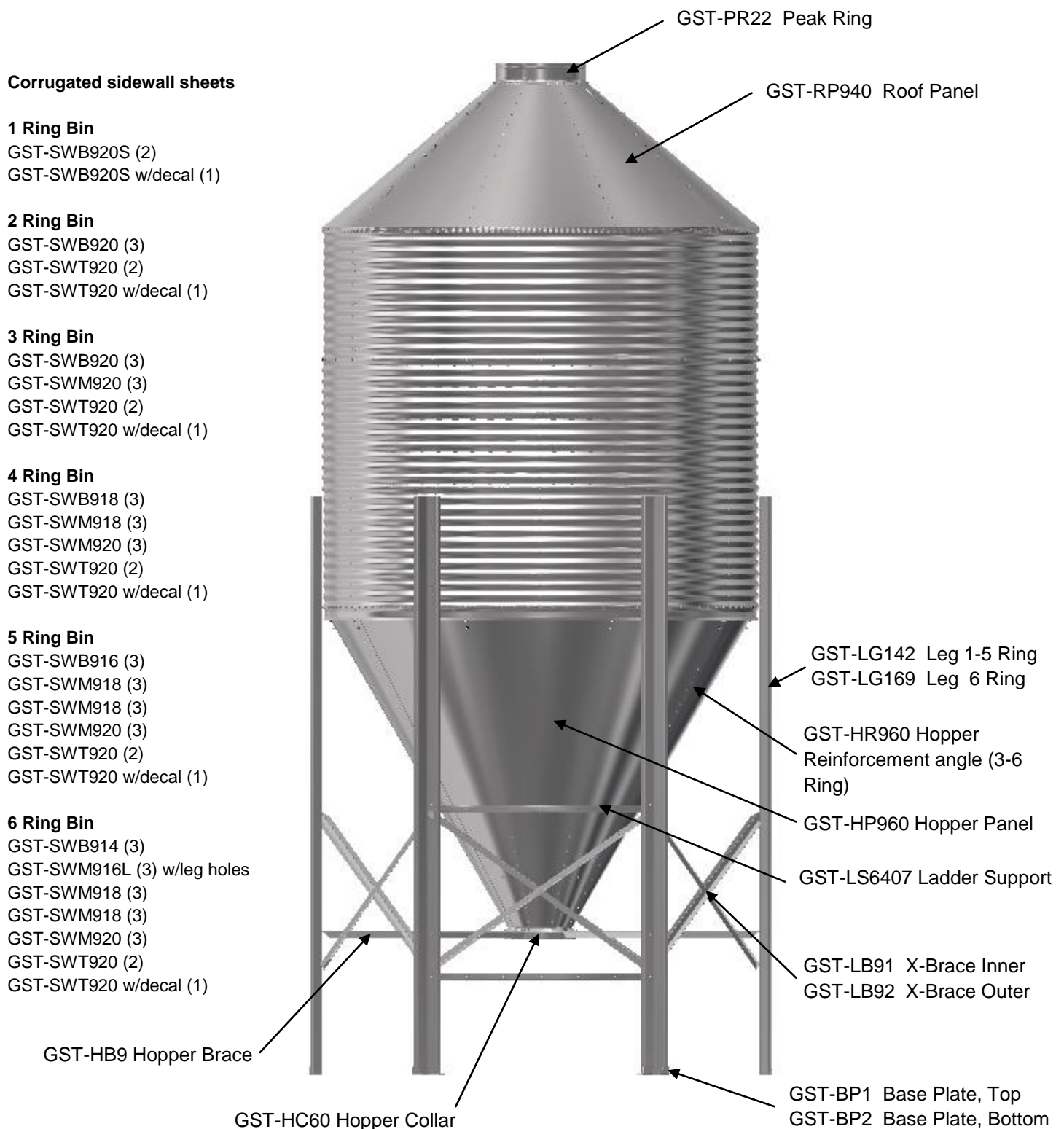


7' Diameter Components – *continued*

Item number	Quantity	Unit	Item name
GST-SWT720	1	EACH	Side Wall Sheet, 20ga Top, 7 ft Tank
GST-SWT7HS	1	EACH	Sidewall, Top Sheet, w/Hog Slat Decal
GST-SWM716	varies	EACH	Side Wall Sheet, 16ga Middle, 7 ft Tank
GST-SWM716L	varies	EACH	Side Wall Sheet, 16ga Middle w/Leg Holes, 7 ft Tank
GST-SWM718	varies	EACH	Side Wall Sheet, 18ga Middle, 7 ft Tank
GST-SWM718L	varies	EACH	Side Wall Sheet, 18ga Middle w/Leg Holes, 7 ft Tank
GST-SWM720	varies	EACH	Side Wall Sheet, 20ga Middle, 7 ft Tank
GST-SWB714	varies	EACH	Side Wall Sheet, 14ga Bottom, 7 ft Tank
GST-SWB716	varies	EACH	Side Wall Sheet, 16ga Bottom, 7 ft Tank
GST-SWB718	varies	EACH	Side Wall Sheet, 18ga Bottom, 7 ft Tank
GST-SWB720S	varies	EACH	Side Wall Sheet, 20ga Bottom/Top, 7 ft Tank
GST-HP767	6	EACH	Hopper Panel, Formed, 7 ft 67 Degree With Flange 16ga
GST-RP740	6	EACH	Roof Panel, Formed, 40 Degree, 7 ft Tank
GST-LG142	4	EACH	Leg, 12ga 7 ft 1-4 Rings, 9 ft 1-5 Rings
GST-LG169	4	EACH	Leg, 10ga 7 ft 5-6 Rings, 9 ft 6 Rings
GST-HR767 (5-6 ring)	6	EACH	Hopper Reinforcement, 7 ft Tank, 5-6 Ring, Formed
GST-LB72	4	EACH	Leg Brace, Outside, 7 ft Tank, Formed
GST-LB71	4	EACH	Leg Brace, Inside, 7 ft Tank, Formed
GST-HB7	4	EACH	Hopper Brace, 7 ft Tank, Formed
GST-LS6409	1	EACH	Ladder, Stand Off Support Brace, 7 ft Tank, Formed
GST-LDR36RA	1	EACH	Ladder, 36" Roof, 40 Degree
GST-LDR84A	1	EACH	Ladder, 84" Vertical
GST-LDR72A	3	EACH	Ladder, 72" Vertical
GST-LD2001	1	EACH	Lid Assembly, Latch Style
GST-PR22	1	EACH	Peak Ring, Formed, 40 Degree, 22" Diameter
GST-HC60	1	EACH	Hopper Collar, Formed, 60 Degree, 6-9 ft Tank
GST-HDW766716	1	EACH	Hardware Package, 7 ft 6 ring, 67 Degree hopper, 16" collar
HS712	varies	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
HS714	varies	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
HS716	17	EACH	Bolt 3/8-16 X 1 Hex Head Gr 8 JS1000
HS719	varies	EACH	Finish Hex Nut 5/16-18 Grade 5 JS1000
HS722	varies	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
HS724	17	EACH	Nut 3/8-16 Hex Serrated Flange Grade 5 JS1000
GST-BP1	4	EACH	Leg Base Plate, Inside
GST-BP2	4	EACH	Leg Base Plate, Outside
HS721	varies	ROLL	Sealant Preformed Butyl Sealant 1/8" X 1/4" X 24' Rolls
GST-LDR40	2	EACH	Ladder, Corner Bracket, 40 Degree
GST-LS6411	2	EACH	Ladder, Stand Off Bracket, Roof 6 ft and 7 ft Tank, Formed
GST-LS6406	1	EACH	Ladder, Stand Off Bracket, Peak Right, Formed
GST-LS6412	1	EACH	Ladder, Stand Off Bracket, Peak Left, Formed

	GST-LS6403	varies	EACH	Ladder, Stand Off Bracket
	GST-LS6404	varies	EACH	Ladder, Stand Off Retainer
	GST-LDR360	varies	EACH	Ladder, Splice Plate
	HS717	varies	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
	GST-LD1011	1	EACH	Lid, Guide Bracket, Formed
	GST-LD1019	1	EACH	Lid, Pull Guide Assembly
GST-LS6424		1	EACH	Ladder, Handrail Kit, Safety Cage
	GST-LS6419	4	EACH	Bushing PVC .875 OD x 2.00
	GST-LDR54SC	2	EACH	Ladder, 54" Extension Rail, Safety Cage
	FL0120331	4	EACH	Bolt Gr5 5/16-18 X 2 1/2 Zn
	HS722	34	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6416	9	EACH	Safety Cage Vertical Support 48"
	GST-LS6417	2	EACH	Safety Cage Vertical Support 24"
	GST-LS6404	6	EACH	Ladder, Stand Off Retainer
	HS717	10	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
	HS712	6	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
	GST-LS6425	6	EACH	Ladder, Safety Cage Support Mount Bracket, Formed
	GST-LS6413	4	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
GST-LS6426		4	EACH	Ladder, Cage Extension 4'
	GST-LS6416	7	EACH	Safety Cage Vertical Support 48"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6413	2	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6427		1	EACH	Ladder, Cage Extension, 24" Bell
	GST-LS6417	7	EACH	Safety Cage Vertical Support 24"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6414	2	EACH	Safety Cage Loop, Bell, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6423		1	EACH	Ladder, Handrail Kit
	GST-LS6420	4	EACH	Ladder, Handrail Bracket w/out Safety Cage, Formed
	GST-LS6421	2	EACH	Ladder Handrail w/out Safety Cage
	GST-LS6422	2	EACH	Ladder, Handrail Support Channel, Formed
	605101	8	EACH	Bolt Hex Cap 5/16-18 X 1-3/4" Zinc
	HS722	8	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000

9' Diameter Components



9' Diameter Components - *Continued*

Item number	Quantity	Unit	Item name
GST-SWT920	2	EACH	Side Wall Sheet, 20ga Top, 9 ft Tank
GST-SWT9HS	1	EACH	Sidewall, Top Sheet, w/Hog Slat Decal
GST-SWM920	Varies	EACH	Side Wall Sheet, 20ga Middle, 9 ft Tank
GST-SWM918	Varies	EACH	Side Wall Sheet, 18ga Middle, 9 ft Tank
GST-SWM918L	Varies	EACH	Side Wall Sheet, 18ga Middle w/Leg Holes, 9 ft Tank
GST-SWM916L	Varies	EACH	Side Wall Sheet, 16ga Middle w/Leg Holes, 9 ft Tank
GST-SWB920	Varies	EACH	Side Wall Sheet, 20ga Bottom, 9 ft Tank
GST-SWB918	Varies	EACH	Side Wall Sheet, 18ga Bottom, 9 ft Tank
GST-SWB916	Varies	EACH	Side Wall Sheet, 16ga Bottom, 9 ft Tank
GST-SWB914	Varies	EACH	Side Wall Sheet, 14ga Bottom, 9 ft Tank
GST-HP960	9	EACH	Hopper Panel, Formed, 9 ft 60 Degree With Flange 16ga
GST-RP940	9	EACH	Roof Panel, Formed, 40 Degree, 9 ft Tank
GST-LG142	6	EACH	Leg, 12ga 7 ft 1-4 Rings, 9 ft 1-5 Rings
GST-LG169	6	EACH	Leg, 10ga 7 ft 5-6 Rings, 9 ft 6 Rings
GST-HR960 (3-6 Ring)	9	EACH	Hopper Reinforcement, 9 ft Tank, 3-6 Ring, Formed
GST-LB92	6	EACH	Leg Brace, Outside, 9 ft Tank, Formed
GST-LB91	6	EACH	Leg Brace, Inside, 9 ft Tank, Formed
GST-HB9	6	EACH	Hopper Brace, 9 ft Tank, Formed
GST-LS6407	2	EACH	Ladder, Stand Off Support Brace, 9 ft Tank, Formed
GST-LDR48RA	1	EACH	Ladder, 48" Roof, 40 Degree
GST-LDR940	2	EACH	Ladder, Roof Support angle, 9 ft, Formed
GST-LDR84A	1	EACH	Ladder, 84" Vertical
GST-LDR72A	3	EACH	Ladder, 72" Vertical
GST-LD2001	1	EACH	Lid Assembly, Latch Style
GST-PR22	1	EACH	Peak Ring, Formed, 40 Degree, 22" Diameter
GST-HC60	1	EACH	Hopper Collar, Formed, 60 Degree, 6-9 ft Tank
GST-HDW966016	1	EACH	Hardware Package, 9 ft 6 ring, 60 Degree hopper, 16" collar
HS712	Varies	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
HS714	Varies	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
HS716	24	EACH	Bolt 3/8-16 X 1 Hex Head Gr 8 JS1000
HS718	6	EACH	Washer 3/8 X 2 X 1/8 Curved Fender Zinc Finish
HS719	Varies	EACH	Finish Hex Nut 5/16-18 Grade 5 JS1000
HS722	Varies	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
HS724	24	EACH	Nut 3/8-16 Hex Serrated Flange Grade 5 JS1000
GST-BP1	6	EACH	Leg Base Plate, Inside
GST-BP2	6	EACH	Leg Base Plate, Outside
HS721	Varies	ROLL	Sealant Preformed Butyl Sealant 1/8" X 1/4" X 24' Rolls
GST-LDR40	2	EACH	Ladder, Corner Bracket, 40 Degree
GST-LS6405	2	EACH	Ladder, Stand Off Bracket, Roof 9 ft and 12 ft Tank, Formed
GST-LS6406	1	EACH	Ladder, Stand Off Bracket, Peak Right, Formed
GST-LS6412	1	EACH	Ladder, Stand Off Bracket, Peak Left, Formed
GST-LS6403	Varies	EACH	Ladder, Stand Off Bracket
GST-LS6404	Varies	EACH	Ladder, Stand Off Retainer
GST-LDR360	Varies	EACH	Ladder, Splice Plate
HS717	Varies	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LD1011	1	EACH	Lid, Guide Bracket, Formed
GST-LD1019	1	EACH	Lid, Pull Guide Assembly
GST-LS6424	1	EACH	Ladder, Handrail Kit, Safety Cage
GST-LS6419	4	EACH	Bushing PVC .875 OD x 2.00
GST-LDR54SC	2	EACH	Ladder, 54" Extension Rail, Safety Cage

	FL0120331	4	EACH	Bolt Gr5 5/16-18 X 2 1/2 Zn
	HS722	34	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6416	9	EACH	Safety Cage Vertical Support 48"
	GST-LS6417	2	EACH	Safety Cage Vertical Support 24"
	GST-LS6404	6	EACH	Ladder, Stand Off Retainer
	HS717	10	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
	HS712	6	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
	GST-LS6425	6	EACH	Ladder, Safety Cage Support Mount Bracket, Formed
	GST-LS6413	4	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
GST-LS6426		4	EACH	Ladder, Cage Extension 4'
	GST-LS6416	7	EACH	Safety Cage Vertical Support 48"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6413	2	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6427		1	EACH	Ladder, Cage Extension, 24" Bell
	GST-LS6417	7	EACH	Safety Cage Vertical Support 24"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6414	2	EACH	Safety Cage Loop, Bell, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6423		1	EACH	Ladder, Handrail Kit
	GST-LS6420	4	EACH	Ladder, Handrail Bracket w/out Safety Cage, Formed
	GST-LS6421	2	EACH	Ladder Handrail w/out Safety Cage
	GST-LS6422	2	EACH	Ladder, Handrail Support Channel, Formed
	605101	8	EACH	Bolt Hex Cap 5/16-18 X 1-3/4" Zinc
	HS722	8	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000

12' Diameter Components

Corrugated sidewall sheets

1 Ring Bin

GST-SWB1218S (3)
GST-SWB1218S w/decal (1)

2 Ring Bin

GST-SWB1214 (4)
GST-SWT1220 (3)
GST-SWT1220 w/decal (1)

3 Ring Bin

GST-SWB1214 (4)
GST-SWM1218 (4)
GST-SWT1220 (3)
GST-SWT1220 w/decal (1)

4 Ring Bin

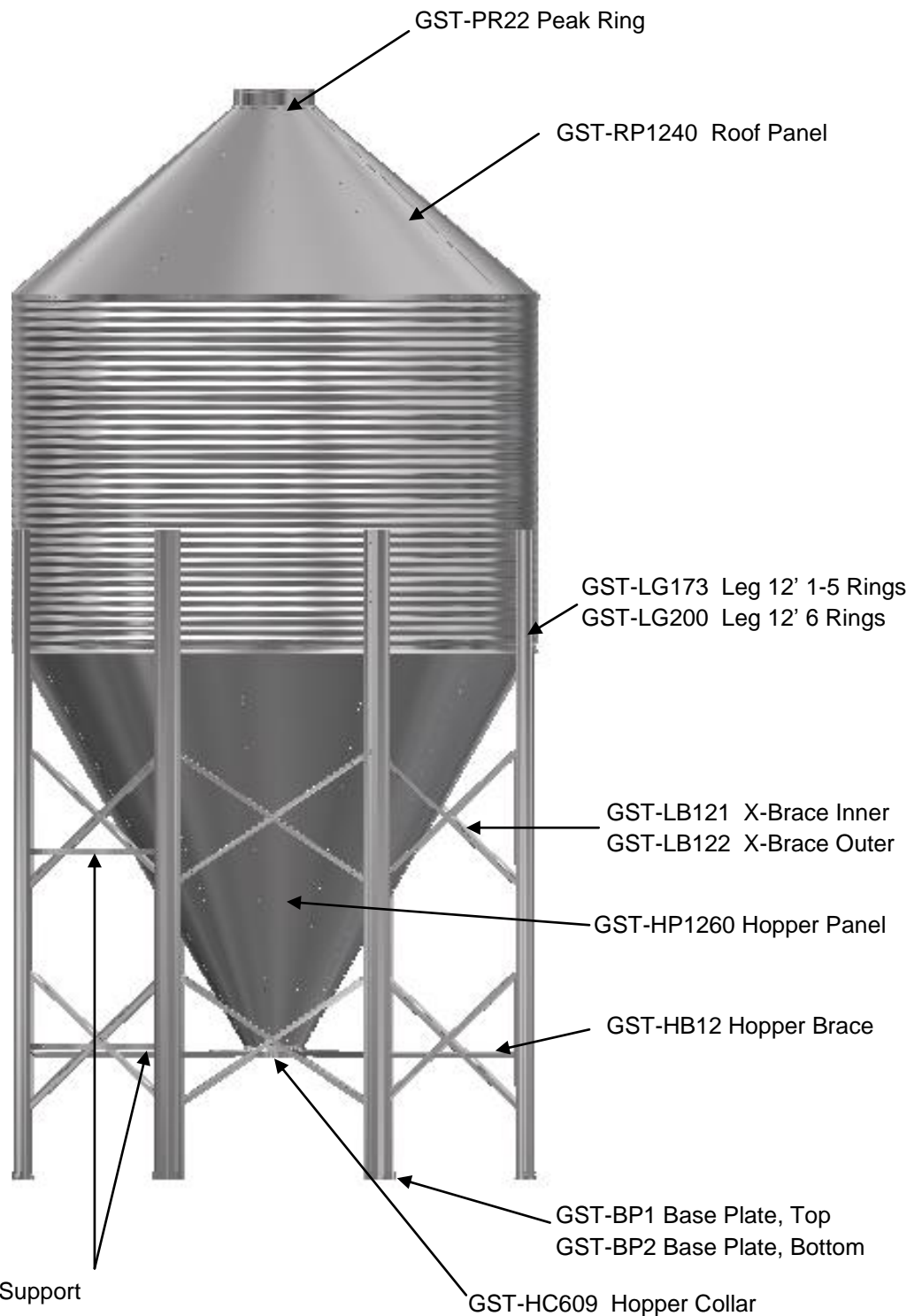
GST-SWB1214 (4)
GST-SWM1216 (4)
GST-SWM1220 (4)
GST-SWT1220 (3)
GST-SWT1220 w/decal (1)

5 Ring Bin

GST-SWB1212 (4)
GST-SWM1216 (4)
GST-SWM1218 (4)
GST-SWM1220 (4)
GST-SWT1220 (3)
GST-SWT1220 w/decal (1)

6 Ring Bin

GST-SWB1212 (4)
GST-SWM1214L (4) w/leg holes
GST-SWM1216 (4)
GST-SWM1218 (4)
GST-SWM1220 (4)
GST-SWT1220 (3)
GST-SWT1220 w/decal (1)



12' Diameter Components - *Continued*

Item number	Quantity	Unit	Item name
GST-SWT1220	3	EACH	Side Wall Sheet, 20ga Top, 12 ft Tank
GST-SWT12HS	1	EACH	Sidewall, Top Sheet, w/Hog Slat Decal
GST-SWM1220	Varies	EACH	Side Wall Sheet, 20ga Middle, 12 ft Tank
GST-SWM1218	Varies	EACH	Side Wall Sheet, 18ga Middle, 12 ft Tank
GST-SWM1216	Varies	EACH	Side Wall Sheet, 16ga Middle, 12 ft Tank
GST-SWM1214L	Varies	EACH	Side Wall Sheet, 14ga Middle w/Leg Holes, 12 ft Tank
GST-SWM1216	Varies	EACH	Side Wall Sheet, 16ga Middle, 12 ft Tank
GST-SWM1218	Varies	EACH	Side Wall Sheet, 18ga Middle, 12 ft Tank
GST-SWM1220	Varies	EACH	Side Wall Sheet, 20ga Middle, 12 ft Tank
GST-SWB1212	Varies	EACH	Side Wall Sheet, 12ga Bottom, 12 ft Tank
GST-SWB1214	Varies	EACH	Side Wall Sheet, 14ga Bottom, 12 ft Tank
GST-SWB1218S	Varies	EACH	Side Wall Sheet, 18ga Bottom/Top, 12 ft Tank
GST-HP1260	12	EACH	Hopper Panel, Formed, 12 ft 60 Degree With Flange 14ga
GST-RP1240	12	EACH	Roof Panel, Formed, 40 Degree, 12 ft Tank
GST-LG173	8	EACH	Leg, 12ga 12 ft 1-5 Rings
GST-LG200	8	EACH	Leg, 10ga 12 ft 6-7 Rings
GST-HR1260 (Optional)	12	EACH	Hopper Reinforcement, 12 ft Tank, Formed
GST-LB122	16	EACH	Leg Brace, Outside, 12 ft Tank, Formed
GST-LB121	16	EACH	Leg Brace, Inside, 12 ft Tank, Formed
GST-HB12	8	EACH	Hopper Brace, 12 ft Tank, Formed
GST-LS6410	2	EACH	Ladder, Stand Off Support Brace, 12 ft Tank, Formed
GST-LDR72RA	1	EACH	Ladder, 72" Roof, 40 Degree
GST-LDR1240	2	EACH	Ladder, Roof Support angle, 12 ft, Formed
GST-LDR84A	3	EACH	Ladder, 84" Vertical
GST-LDR72A	1	EACH	Ladder, 72" Vertical
GST-LDR1240	2	EACH	Ladder, Roof Support angle, 12 ft, Formed
GST-LD2001	1	EACH	Lid Assembly, Latch Style
GST-PR22	1	EACH	Peak Ring, Formed, 40 Degree, 22" Diameter
GST-HC6012R	1	EACH	Hopper Collar, Formed, 60 Degree, 12 ft Tank
GST-HDW1266016	1	EACH	Hardware Package, 12 ft 6 ring, 60 Degree hopper, 16" collar
HS712	1	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
HS714	Varies	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
HS716	56	EACH	Bolt 3/8-16 X 1 Hex Head Gr 8 JS1000
HS718	8	EACH	Washer 3/8 X 2 X 1/8 Curved Fender Zinc Finish
HS719	1	EACH	Finish Hex Nut 5/16-18 Grade 5 JS1000
HS722	Varies	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
HS724	56	EACH	Nut 3/8-16 Hex Serrated Flange Grade 5 JS1000
GST-BP1	8	EACH	Leg Base Plate, Inside
GST-BP2	8	EACH	Leg Base Plate, Outside
HS721	Varies	ROLL	Sealant Preformed Butyl Sealant 1/8" X 1/4" X 24' Rolls
GST-LDR40	2	EACH	Ladder, Corner Bracket, 40 Degree
GST-LS6405	2	EACH	Ladder, Stand Off Bracket, Roof 9 ft and 12 ft Tank, Formed
GST-LS6406	1	EACH	Ladder, Stand Off Bracket, Peak Right, Formed
GST-LS6412	1	EACH	Ladder, Stand Off Bracket, Peak Left, Formed
GST-LS6403	Varies	EACH	Ladder, Stand Off Bracket
GST-LS6404	Varies	EACH	Ladder, Stand Off Retainer
GST-LDR360	Varies	EACH	Ladder, Splice Plate
HS717	Varies	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LD1011	1	EACH	Lid, Chain Guide Bracket, Formed

	GST-LD1019	1	EACH	Chain Pull Guide Assembly
GST-LS6424		1	EACH	Ladder, Handrail Kit, Safety Cage
	GST-LS6419	4	EACH	Bushing PVC .875 OD x 2.00
	GST-LDR54SC	2	EACH	Ladder, 54" Extension Rail, Safety Cage
	FL0120331	4	EACH	Bolt Gr5 5/16-18 X 2 1/2 Zn
	HS722	34	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6416	9	EACH	Safety Cage Vertical Support 48"
	GST-LS6417	2	EACH	Safety Cage Vertical Support 24"
	GST-LS6404	6	EACH	Ladder, Stand Off Retainer
	HS717	10	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
	HS712	6	EACH	Bolt 5/16-18 X 1 Hex Head Bin Gr 8.2 with PE Washer JS1000
	GST-LS6425	6	EACH	Ladder, Safety Cage Support Mount Bracket, Formed
	GST-LS6413	4	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
GST-LS6426		4	EACH	Ladder, Cage Extension 4'
	GST-LS6416	7	EACH	Safety Cage Vertical Support 48"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6413	2	EACH	Safety Cage Loop, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6427		1	EACH	Ladder, Cage Extension, 24" Bell
	GST-LS6417	7	EACH	Safety Cage Vertical Support 24"
	HS722	16	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000
	GST-LS6414	2	EACH	Safety Cage Loop, Bell, Formed
	HS714	14	EACH	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
	GST-LS6404	2	EACH	Ladder, Stand Off Retainer
	HS717	2	EACH	Bolt 5/16-18 X 1 Carriage Gr 5.2 JS1000
GST-LS6423		1	EACH	Ladder, Handrail Kit
	GST-LS6420	4	EACH	Ladder, Handrail Bracket w/out Safety Cage, Formed
	GST-LS6421	2	EACH	Ladder Handrail w/out Safety Cage
	GST-LS6422	2	EACH	Ladder, Handrail Support Channel, Formed
	605101	8	EACH	Bolt Hex Cap 5/16-18 X 1-3/4" Zinc
	HS722	8	EACH	Nut 5/16-18 Hex Serrated Flange Grade 5 JS1000

Lid Assembly Components

Item number	Quantity	Units	Item name
GST-LD2001			Lid Assembly, Latch Style
GST-LD2003	1	Each	Lid, Clamp Band, Formed
GST-PR22	1	Each	Peak Ring, Formed, 40 Degree, 22" Diameter
GST-HC60	1	Each	Hopper Collar, Formed, 60 Degree, 6-9 ft Tank
GST-LD1021	2	Each	Bushing, Flange .377 x .503 x 1/4 x 11/16 x 1/16
GST-LD1002	1	Each	Lid, Clamp Band Pivot Bracket, Formed
HS726	2	Each	Bolt 3/8-16 X 6.5 Hex Head Grade 2 Zinc Finish
GST-LD2009	1	Each	Lid Housing
GST-LD2004	1	Each	Lid, Pivot Bracket, Formed
GST-LD2107	1	Each	Lid, Swing Arm pivot Bracket, Formed
HS714	6	Each	Bolt 5/16-18 X 3/4 Truss Head Bin Gr 8.2 W/PE Washer JS1000
HS715	9	Each	Stud Steel FH518-10 Steel Stud
HS722	15	Each	Nut 5/16-18 Hex Serrated Flange Gr 5 JS1000
GST-LD2008	1	Each	Lid, Swing Arm, Formed
60523	1	Each	Bolt Hex Cap 5/16-18 X 3-1/2" Zinc
GST-LD1010	1	Each	Spring Double Torsion
GST-LD1013	1	Each	Handle Lid Pull Handle
GST-LD2120	1	Each	Latch, Mount Bracket, Formed
GST-LD2028	1	Each	Lid, Swing Arm pivot Bracket, Formed
GST-LD2127	1	Each	Lid, Spring Latch Bracket, Formed
60682	2	Each	Nut Lock Hex Nylon Insert 3/8-16 Zn
BX005	1	Each	Box, 26x10x26
60681	1	Each	Nut Lock Hex Nylon Insert 5/16-18 Zn
GST-LD2044	2	Each	Clevis Pin, 1/4" x 1 - 3/4, 1 - 9/16" usable length
GST-LD2045	2	Each	Cotter Pin, 1/16" x 1/2" Stainless Steel
GST-LD2031	1	Each	Spring, Torsion, Stainless Steel, 120 Degree, Right Hand
GST-LD2056	1	Each	Lid Actuation Cable, Universal
GST-LD2060	1	Each	Lid, Hardware Package
605790	2	Each	Washer, Flat, 1/4" Zinc
GST-LD2056		Each	Lid Actuation Cable, Universal
617262	33	Each	Cable SS 7 X 19 1/8"
GST-LD2041	1	Each	Shaft Collar, Stainless Steel, 1/8" shaft
GST-LD2042	1	Each	Compression Sleeve, 1/8"
GST-LD2043	1	Each	Wire Rope Stop, 1/8" Zinc Plated
GST-LD2060		Each	Lid, Hardware Package
GST-LD2041	1	Each	Shaft Collar, Stainless Steel, 1/8" shaft
617321	1	Each	Clamp Cable SS 1/8"
GST-LD1013	1	Each	Handle Lid Pull Handle
GST-LD2017	1	Each	Lid, Latch Stop Plate, Formed
605193	1	Each	Bolt Hex Cap 3/8-16 X 2-3/4" Grade 5 Zinc
60682	1	Each	Nut Lock Hex Nylon Insert 3/8-16 Zn

Tank Specifications

	CAPACITY Based on 40 Lbs./Cubic Feet (641 Kg/M3)				Fill Height	
	Tons	Metric Tons	Cubic Feet	M ³	FT./IN.	Meters
6-ft. (1.8-m) diameter bins with 60° hopper						
GST-616016K	3	2.7	150	4.2	11' 6"	3.5
GST-626016K	4.5	4.1	225	6.4	14' 2"	4.3
GST-636016K	6	5.4	300	8.5	16' 10"	5.1
GST-646016K	7.5	6.8	375	10.6	19' 6"	5.9
7-ft. (2.1-m) diameter bins with 67° hopper						
GST-716716K	4.9	4.4	245	6.9	14' 9"	4.5
GST-726716K	6.9	6.3	345	9.8	17' 5"	5.3
GST-736716K	9	8.2	450	12.7	20' 1"	6.1
GST-746716K	11	10.0	550	15.6	22' 9"	6.9
GST-756716K	13	11.8	650	18.4	25' 5"	7.7
GST-766716K	15	13.6	750	21.2	28' 1"	8.3
9-ft. (2.7-m) diameter bins with 60° hopper						
GST-916016K	8.5	7.7	425	12.0	15' 7"	4.7
GST-926016K	12	10.9	600	17.0	18' 3"	5.6
GST-936016K	15	13.6	750	21.2	20' 11"	6.4
GST-946016K	18.5	16.8	925	26.2	23' 7"	7.2
GST-956016K	22	20.0	1100	31.1	26' 3"	8
GST-966016K	25.5	23.1	1278	36.2	28' 11"	8.8
12-ft. (3.7-m) diameter bins with 60° hopper						
GST-1216016K	17.5	15.9	875	24.8	19' 5"	5.9
GST-1226016K	23.5	21.3	1175	33.3	22' 1"	6.7
GST-1236016K	29.5	26.8	1475	41.8	24' 9"	7.5
GST-1246016K	35.5	32.2	1775	50.3	27' 5"	8.4
GST-1256016K	41.5	37.6	2075	58.8	30' 1"	9.2
GST-1266016K	47.5	43.1	2375	67.3	32' 9"	10

Hog Slat Bulk Feed Bin Limited Warranty

Hog Slat warrants Bulk Feed Bins to be free from defects in material or workmanship for a period of **5 years** from the date of **original purchase**. Hog Slat will credit, repair, or replace, at its option any product deemed defective within this time period. Labor costs associated with the replacement or repair of the product are not covered by the Seller/Manufacturer.

Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Seller/Manufacturer or Warranty will be void**.
2. This Warranty does not apply to Cosmetic discoloration or corrosion caused by contact with external corrosive elements.
3. Warranty is void if all components are not original equipment supplied by the **Seller/Manufacturer**.
4. This product must be purchased from and installed by an authorized retailer/distributor or certified representative thereof or the Warranty will be void.
5. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
6. This Warranty applies only to components/systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.
7. This Warranty applies only to the Original Purchaser of the product.

The **Seller/Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **“Consequential” or “Special Damages” as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.**

THIS WARRANTY CONSTITUTES THE SELLER/MANUFACTURER'S ENTIRE AND SOLE WARRANTY AND THIS MANUFACTURER EXPRESSLY DISCLAIMS ANY AND ALL OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, EXPRESS AND IMPLIED WARRANTIES AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSES SOLD AND DESCRIPTION OR QUALITY OF THE PRODUCT FURNISHED HEREUNDER.

Hog Slat Retailers/Distributors are not authorized to modify or extend the terms and conditions of this Warranty in any manner or to offer or grant any other warranties for GrowerSelect products in addition to those terms expressly stated above. An officer of Hog Slat must authorize any exceptions to this Warranty in writing. The Seller/Manufacturer reserves the right to change models and specifications at any time without notice or obligation to improve previous models.

This equipment must be installed in accordance with all State and Local Codes and applicable Regulations which should be followed in all cases. Authorities having jurisdiction should be consulted before installations are made.



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