

42' Diameter Bin Recessed Full Floor Instructions

Installation Manual



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1. Introduction

READ THIS MANUAL carefully to learn how to properly use and install equipment. Failure to do so could result in personal injury or equipment damage.

INSPECT the shipment immediately upon arrival. The customer is responsible for ensuring that all quantities are correct. The customer should report and note any damage or shortage on the bill of lading to justify their claim to the transport company.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

This warranty provides you the assurance that the company will back its products when defects appear within the warranty period. In some circumstances, the company also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the factory specifications, the warranty will become void and field improvements may be denied.

Guidelines for Proper Storage of Grain Bin Materials Prior to Construction

Storage of the build materials prior to construction is important. Do not to allow moisture to remain between sheets or panels.

Wet storage stain (rust) will develop when closely packed bundles of galvanized material, such as sidewall and roof sheets, have moisture present. Inspect roof and sidewall bundles on arrival for any moisture. If moisture is present, it must not be allowed to remain between the sheets. Separate the sheets or panels immediately and wipe them down. Spray with a light oil or diesel fuel.

If possible, sidewall bundles, roof sheets and other closely packed galvanized materials should be stored in a dry, climate controlled building. If outdoor storage is unavoidable, the materials should be stored so that they are raised above the ground and vegetation. Any stacking and spacing materials should not be corrosive or wet. Be sure to protect materials from the weather, but permit air movement around the bundles if possible.

Storing roof bundles and sidewall sheets at a slight incline can also help minimize the presence of moisture. Storing the bundles with the center of the dome up (like an arch) is one option for minimizing moisture during storage. Sidewall bundles can also be stored on edge but must be secured so that they do not fall over and cause injury.

If "white rust" or "wet storage stain" occurs, contact the manufacturer immediately about ways to minimize the adverse effect upon the galvanized coating.

Safety Guidelines

Safety guidelines are general-to-specific safety rules that must be followed at all times. This manual is written to help you understand safe operating procedures and problems that can be encountered by the operator and other personnel when using this equipment. Save these safety guidelines for future reference.

As owner or operator, you are responsible for understanding the requirements, hazards, and precautions that exist and to inform others as required. Unqualified persons must stay out of the work area at all times.

Alterations must not be made to the equipment. Alterations can produce dangerous situations resulting in SERIOUS INJURY or DEATH.

This equipment must be installed in accordance with the current installation codes and applicable regulations, which must be carefully followed in all cases. Authorities having jurisdiction must be consulted before installations are made.

When necessary, you must consider the installation location relative to electrical, fuel and water utilities.

Personnel operating or working around equipment must read this manual. This manual must be delivered with equipment to its owner. Failure to read this manual and its safety instructions is a misuse of the equipment.

ST-0001-3

Cautionary Symbols Definitions

Cautionary symbols appear in this manual and on product decals. The symbols alert the user of potential safety hazards, prohibited activities and mandatory actions. To help you recognize this information, we use the symbols that are defined below.



This symbol indicates an imminently hazardous situation which, if not avoided, will result in serious injury or death.



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in serious injury or death.**



This symbol indicates a potentially hazardous situation which, if not avoided, **can result in minor or moderate injury.**



This symbol is used to address practices not related to personal injury.



This symbol indicates a general hazard.



This symbol indicates a prohibited activity.



This symbol indicates a mandatory action.

ST-0005-2

Safety Cautions

Use Personal Protective Equipment

Use appropriate personal protective equipment:

Eye Protection



Respiratory Protection



Foot Protection



Hearing Protection



Head Protection



Fall Protection



Hand Protection



- Wear clothing appropriate to the job.
- Remove all jewelry.
- Tie long hair up and back.

ST-0004-1

Follow Safety Instructions

- Carefully read all safety messages in this manual and safety signs on your machine. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- If you do not understand any part of this manual or need assistance, contact your dealer.



ST-0002-1

Maintain Equipment and Work Area

- Understand service procedures before doing work. Keep area clean and dry.
- Never service equipment while it is operating. Keep hands, feet, and clothing away from moving parts
- Keep your equipment in proper working condition. Replace worn or broken parts immediately.

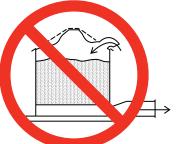


ST-0003-1

Prevent Roof Damage Due to Vacuum Pressure

- Roof damage can result from excessive vacuum or internal pressure from fans or other air moving systems. The manufacturer does not warrant this type of roof damage.
- Adequate ventilation or "makeup air" devices must be provided for all powered air handling systems.
- The manufacturer does not recommend the use of downward flow systems (suction).
- Severe roof damage can result from any blockage of air passages.
- Operating fans during high humidity or cold weather conditions can cause air exhaust or intake ports to freeze.





ST-0028-2

Sharp Edge Hazard

- This product has sharp edges, which can cause serious injury.
- To avoid injury, handle sharp edges with caution and always use proper protective clothing and equipment.



ST-0036-2

Safety Sign-Off Sheet

Below is a sign-off sheet that can be used to verify that all personnel have read and understood the safety instructions. This sign-off sheet is provided for your convenience and personal record keeping.

Date	Employee Name	Supervisor Name

ST-0007

3. Decals

The safety decals on your equipment are safety indicators which must be carefully read and understood by all personnel involved in the installation, operation, service and maintenance of the equipment.

To replace a damaged of missing decal, contact us to receive a free replacement.

GSI Decals

1004 E. Illinois St. Assumption, IL. 62510 Phone: 1-217-226-4421

Location	Decal #	Decals	Description
Located next to aeration system.	DC-969	CAUTION	Caution Vacuum Pressure
		Excessive vacuum (or pressure) may damage roof. Use positive aeration system. Make sure all roof vents are open and unobstructed. Start roof fans when supply fans are started. Do not operate when conditions exist that may cause roof vent icing.	

Location	Decal #	Decals	Description
On bin door covers	DC-GBC-1A	Rotating flighting will kill or dismember. Keep clear of all augers. DO NOT ENTER this bin! 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. Failure to heed these warnings will result in serious injury or death. DC-GBC-1A	Danger Keep Clear of Augers
On bin door covers	DC-GBC-2A	UNLOADING INSTRUCTIONS: 1. Use CENTER FLOOR OUTLET ONLY until NO grain remains above this outlet. 2. Side floor outlets to be used ONLY when above condition is satisfied. 3. Lock all side floor outlets to avoid accidental premature use. 4. See manufacturers instructions for proper use of factory supplied sidedraw (wall) discharge systems. Failure to heed these warnings could result in serious injury, death, structural damage or collapse of tank.	Warning Unload Instructions

Fan Placement Diagram

For uniform air flow, place the fans in relation to the unloading tube as shown in *Figure 4A*. Floor planks should be perpendicular to the unloading tube.

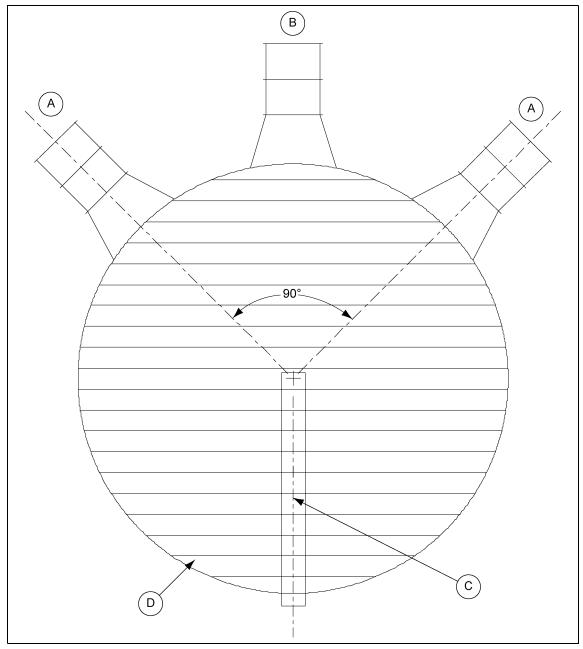


Figure 4A

Ref #	Description
Α	Placement with Two (2) Fans
В	Placement with One Fan
С	Auger/Unload Equipment
D	Flooring Planks

Grain Systems Recommended Method for Full Floor Installation

Using the GSI recommended method for full floor installation should save construction time and eliminate the problem of improper installation which could invalidate your warranty. Note the following dimensions as shown in *Figure 4B*.

- Dimension "A" is the leg-to-leg spacing along the centerline of a given plank.
- Dimension "B" is the amount of stagger between supports under adjacent planks and is half of Dimension "A".
- Dimension "C" is the distance from the center of the unload auger to the nearest rows of supports and is half of Dimension "B".

Dimensions "A", "B" and "C" are shown on the appropriate grandstand layout for wall heights under 32 feet. For taller bins, grandstand quantity as well as dimensions "A" and "B" are given on *Page 34* and *Page 35* for 20 gauge.

- 1. Layout centerlines of tank. Make sure one centerline is in line with the direction of the flooring planks while the other centerline is perpendicular with the flooring planks. (See Figure 4B.)
- 2. From the centerline that is perpendicular to the flooring planks, measure the distance of "C" Dimension and mark a chalk line. (See Figure 4B.)
- 3. From the line chalked in the previous step, measure over the distance of "B" Dimension and chalk another line. Repeat this procedure across the bin until reaching the wall in both directions. When completed, there should be a set of parallel lines (perpendicular to the floor planks) with "B" Dimension distance between each line. (See Figure 4B.)

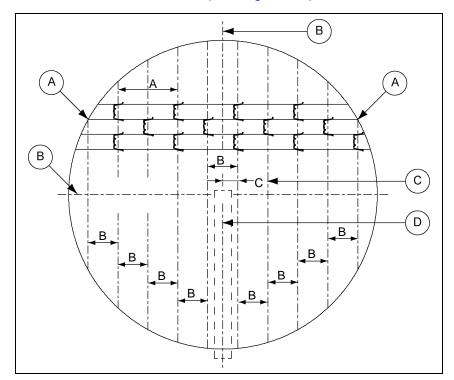


Figure 4B

Ref #	Description
Α	Chalked lines referred to Step 2.
В	Centerline
С	1/2 of "B" Dimension
D	Auger/Unload Equipment

4. Recommended Method for Full Floor Installation

IMPORTANT: First piece of flooring must start at the proper distance from centerline of bin. Refer to floor layout on Page 23. First piece may need to be trimmed for length to fit at the proper location. (See Figure 4C.)

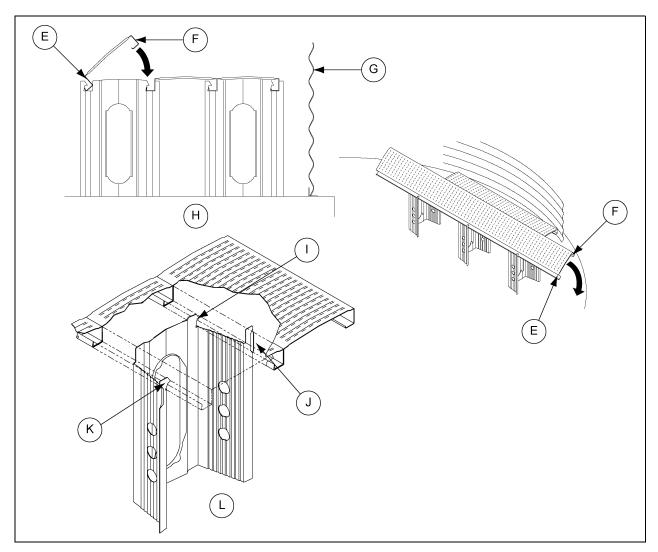


Figure 4C

Ref #	Description
Е	Open Channel Edge
F	Flat Edge
G	Bin Wall
Н	Correct Assembly Method

Ref #	Description
I	Inside Hook
J	Straight Tab
K	Outside Hook
L	The Grandstand

4. Install flooring starting at the bin wall on the opposite side of the unload auger. Floor planks should be placed perpendicular to the unload auger with the outside edge the correct distance from the center of the bin. (See Figure 9A on Page 23.) Be sure the flat edge of the floor plank is facing the bin wall and the open channel edge (E) is facing towards the center of the bin. (See Figure 4C.) Position the supports for the first/shortest floor plank according to the number of bin rings and corrugation as shown in the illustrations on Pages 25-33 or stated in the charts on Pages 34-35. Attach the flashing to flooring and bin wall to hold plank in place. (See Page 20 for flashing installation.)

- 5. POSITION THE NEXT ROW OF SUPPORTS ACCORDING TO THE CHALK LINES and support layout. The straight tab should "snap" under the first (previous) floor piece. After the supports in the row are correctly positioned, install the next floor piece by hooking the open channel edge (E) under the outside hooks (K) of the floor supports. Push down sharply on the edge of the floor piece until it snaps into the previous floor piece. (See Figure 4C on Page 14.) Continue this process for the rest of the floor cutting planks for center and intermediate wells as needed. See Figure 7A on Page 21 for center well support locations.
- NOTE: Whenever there is more than Dimension "B" divided by three inches (B/3") of plank unsupported beside the bin wall, there should be a support on that plank or a support on each of the planks adjacent to it such that no more than Dimension "B" divided by three inches (B/3") is unsupported. For example: 2.66" bin with 8 rings has a "B" dimension of 22". Take 22"/3" = 7.33" (Round to 7"). Therefore, there should be no more than 7" of unsupported floor plank.
 - 6. Some floor planks will need to be spliced together. (See Figure 8A on Page 22, Figure 9A on Page 23 and Plank Length Charts on Page 24.) Install plank length A first, then install the corresponding plank length B by butting plank B up against plank A. Make sure the planks are supported by a grandstand on each side of the splice. Continue until floor is complete.

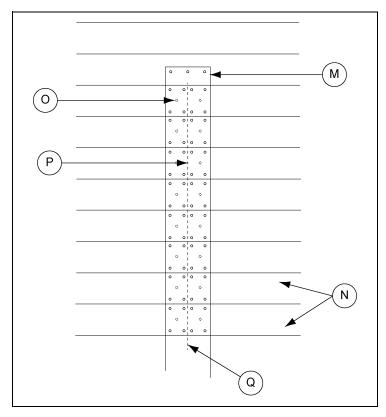


Figure 4D Oversplice Bolt Pattern for Small Grain Floors

Ref #	Description
М	Floor Oversplice Plate
N	Floor Planks
0	Self-Drilling Screw
Р	Splice Seam
Q	NOTE: Dashed lines indicate items under the oversplice.

Undersplice Specifications

The undersplice should be installed underneath the planks at the split after both plank lengths have been butted together. Each splice has to be installed as each row of planks are installed. *Figure 4E* shows the layout of the undersplice plates (A) and the screw pattern used to secure them.

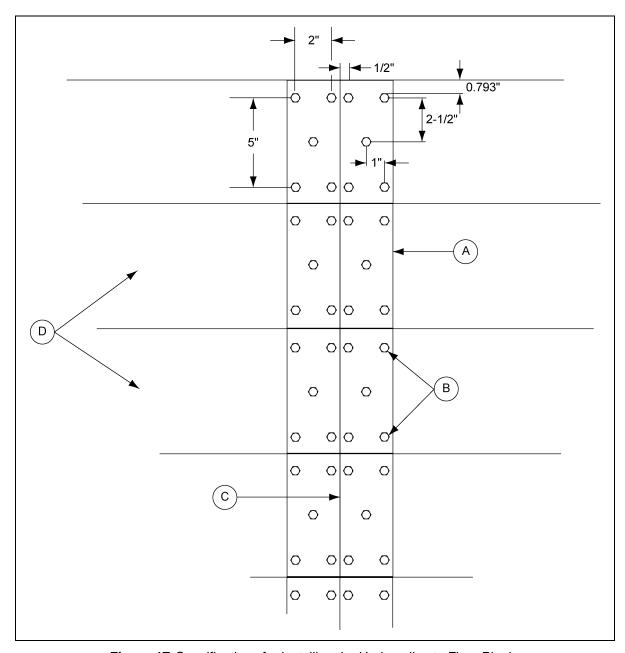


Figure 4E Specifications for installing the Undersplice to Floor Planks

Ref #	Part #	Description
Α	PCL-7049	Undersplice Plate
В	S-280	Self-Tapping Screws
С		Denotes Split Plank
D		Cut-Lok/Cor-Lok Floor Planks

Installing the Undersplice

- 1. Place plank ends together.
- 2. Place the undersplice under the planks. Make sure the undersplice extends 3" across each plank. The splice should extend 3" under each plank. The splice should be screwed in place as shown in Figure 4D on Page 15.
- 3. Repeat for all plank locations requiring a splice.

NOTE: Small grain perforated floors include an oversplice that is installed at the same time as the undersplices.

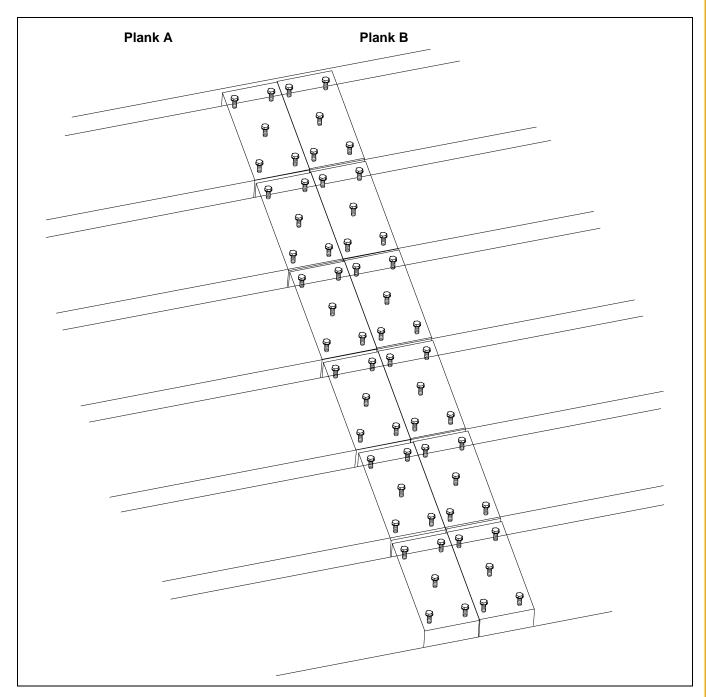


Figure 4F

Installing the Undersplice and Oversplice for Small Grain Floor Planks

- 1. Place plank ends together.
- 2. Place the undersplice (B) under the planks. Make sure the undersplice (B) extends 3" across each plank.
- 3. Install the undersplice (B) to the planks using two (2) self-tapping screws (C) per splice to hold it in place. (See Figure 4G.)
- 4. Place the oversplice (A) over the length of the plank splice seams.
- 5. Install the oversplice (A) to the planks and undersplices (B) using three (3) self-tapping screws (C) per each undersplice.

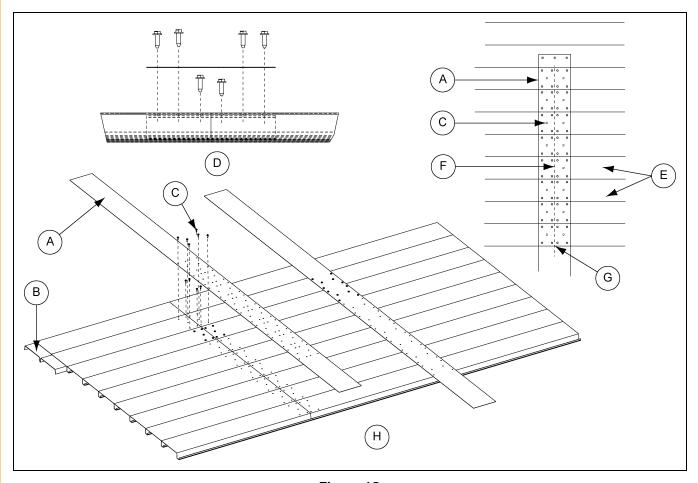


Figure 4G

Ref #	Description
Α	Floor Oversplice (CLF-1763SG)
В	Undersplice (PCL-7049)
С	Self-Tapping Screw
D	Side View

Ref #	Description
E	Floor Planks
F	Splice Seam
G	NOTE: Dashed lines indicate items under the oversplice.
Н	Isometric View

20 Gauge Grandstand Identification

20	20 Gauge											
Plenum Clearance	Grandstand Color Code											
11-7/8"	Blue											
14-3/8"	White											
17-3/16"	Yellow											

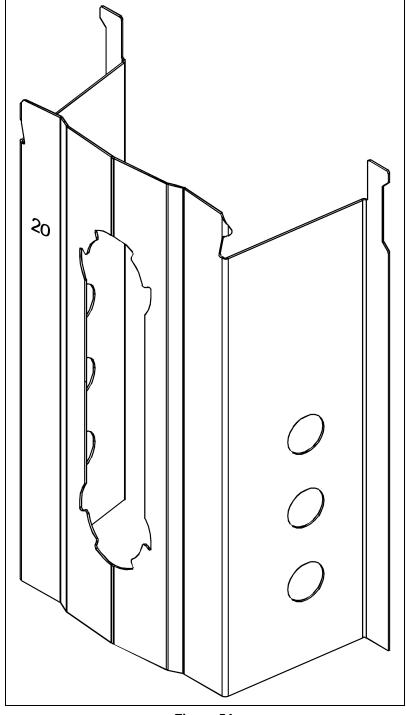


Figure 5A

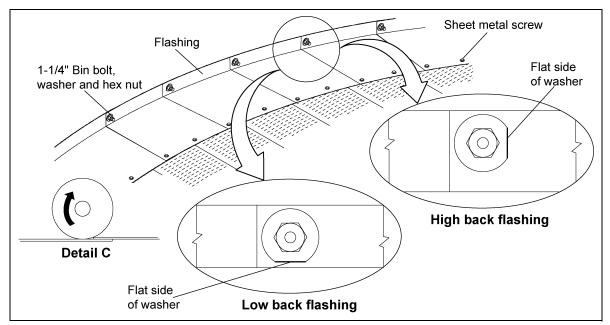


Figure 6A

Grain Systems Formed Flashing Installation

If a bin sweep auger will be used, overlap flashing (D) so that the sweep with climb up on to the next flashing (D) section when rotating (usually clockwise). (See Figure 6A.) This will prevent the rotating/slipping outer wheel of the sweep from catching on the flashing edges. (All GSI power sweeps and carry-in sweeps manufactured after April 2002 run clockwise.)

After floor is in place, place 1-1/4" bolts through pre-punched holes in sidewall. Bolt heads should be on outside of bin. See Figure 6B to determine the correct sequence for placing the nuts and washers. Finger tighten the nuts until all flashing is installed, then go back and fully tighten. While holding the flashing flat and pushing in towards the bin wall, fasten the flashing (D) to the floor with two (2) sheet metal screws (E).

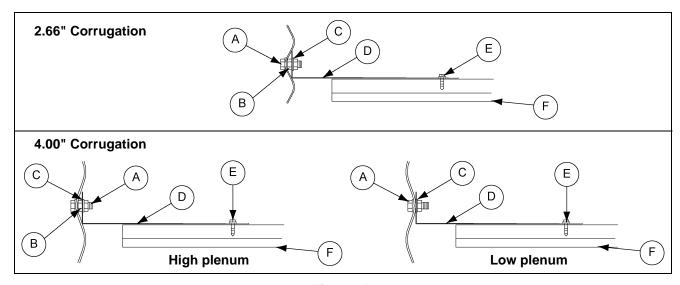


Figure 6B

Ref #	Description
Α	Bin Bolt
В	Spacer Nut
С	Flat Washer

Ref #	Description
D	Flashing
E	Sheet Metal Screw
F	Flooring

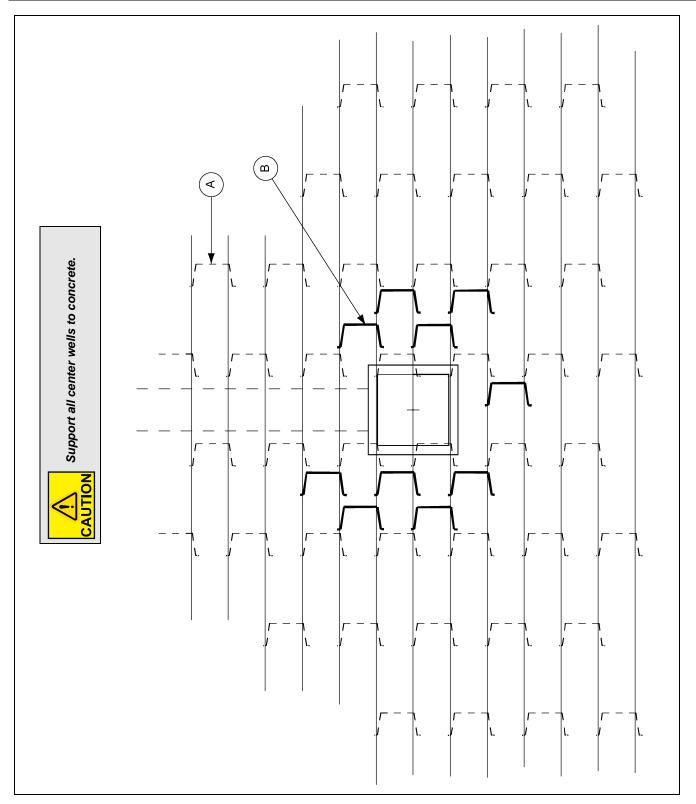


Figure 7A

Ref #	Description
Α	See appropriate layout for spacing.
В	Approximate location for additional supports around center well.

Well Installation Plank Cut Detail for 42', 48' and 60' Split Floor

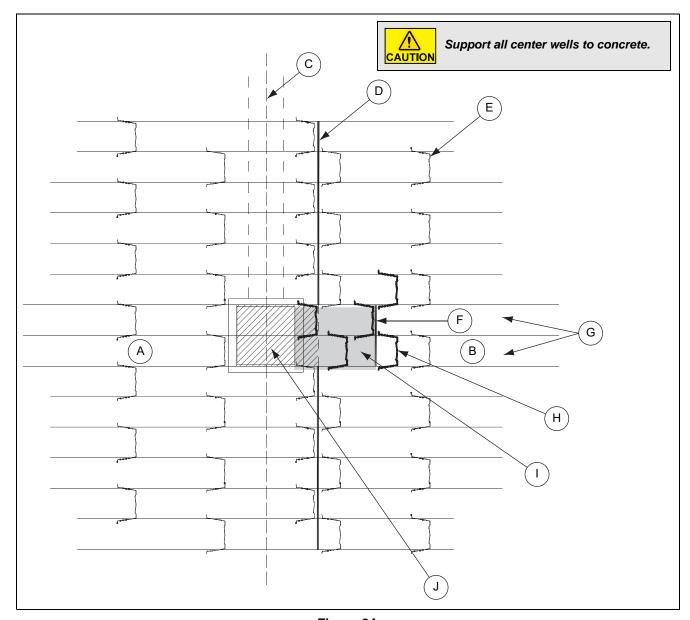
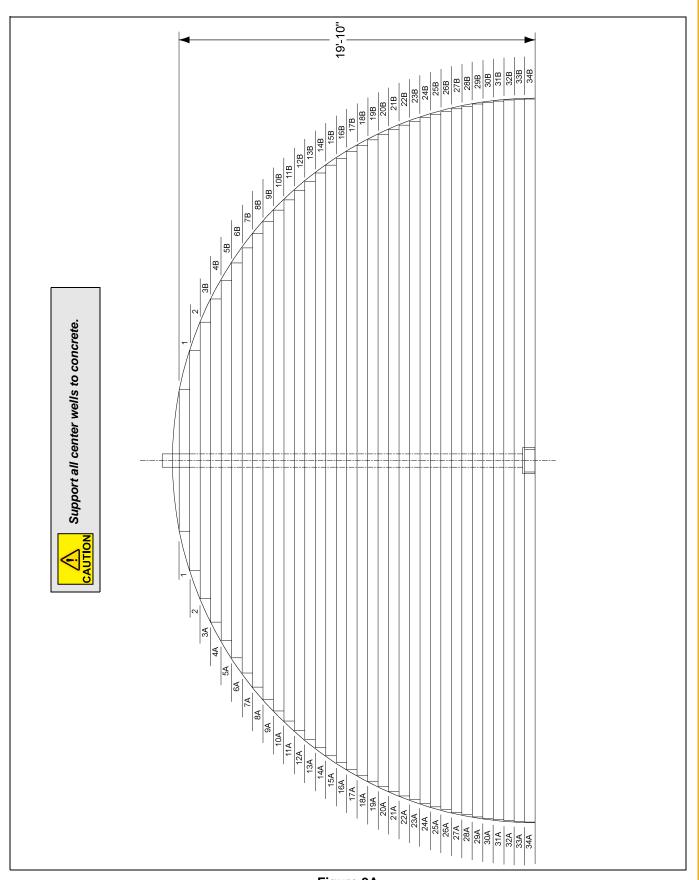


Figure 8A

Ref #	Description
Α	Long Side
В	Short Side
С	Centerline of Bin
D	Standard Splice Location
Е	See appropriate layout for grandstand spacing.
F	New Splice at Well Locations
G	Cut short side planks to allow fall of long pieces, cut for well installation to be installed opposite the long pieces on this side of the well as shown.
Н	Additional Grandstands
I	Add entire cut pieces back in here with additional grandstands per plank as shown.
J	Cut these pieces for well installation.

42' Cut-Lok/Cor-Lok Plank Order



42' 3' Split Plank Length

42' 3' Split Plank Length											
Plank #	Length (ft - in)	Length (Inches)									
1	7'-10''	94"									
2	12' - 3-1/2"	147-1/2"									

Plank #	Length (ft - in)	Length (Inches)
3A	4' - 8-1/2''	56-1/2"
4A	12'-0''	144"
5A	7'-1/2''	84-1/2"
6A	14'-0''	168"
7A	8'-10"	106"
8A	15' - 7-1/2''	187-1/2"
9A	10'-4''	124"
10A	16' - 11-1/2''	203-1/2"
11A	11' - 6-1/2"	138-1/2"
12A	18'-1"	217"
13A	12'-7"	151"
14A	19'-1/2"	228-1/2"
15A	13' - 5-1/5"	161-1/2"
16A	19'-10''	238"
17A	14'-3"	171"
18A	20'-7''	247"
19A	14' - 10-1/2''	178-1/2"
20A	21' - 2-1/2"	254-1/2"
21A	15' - 5-1/2''	185-1/2"
22A	21' - 8-1/2"	260-1/2"
23A	15'-11"	191"
24A	22' - 1-1/2''	265-1/2"
25A	16'-4''	196"
26A	22' - 5-1/2"	269-1/2"
27A	16' - 7-1/2''	199-1/2"
28A	22'-9''	273"
29A	16' - 10-1/2''	202-1/2"
30A	23'-0"	276"
31A	17'-1/2"	204-1/2"
32A	23' - 1-1/2"	277-1/2"
33A	17'-2"	206"
34A	23'-2"	278"

Plank #	Length (ft - in)	Length (Inches)
3B	10' - 8-1/2''	128-1/2"
4B	6'-0''	72"
5B	13'-1/2"	156-1/2"
6B	8'-0"	96"
7B	14'-10''	178"
8B	9' - 7-1/2''	115-1/2"
9B	16'-4''	196"
10B	10' - 11-1/2"	131-1/2"
11B	17' - 6-1/2''	210-1/2"
12B	12'-1"	145"
13B	18'-7''	223"
14B	13'-1/2"	156-1/2"
15B	19' - 5-1/2''	233-1/2"
16B	13' - 10-1/2"	166-1/2"
17B	20'-3"	243"
18B	14'-7''	175"
19B	20' - 10-1/2"	250-1/2"
20B	15' - 2-1/2''	182-1/2"
21B	21' - 5-1/2"	257-1/2"
22B	15' - 8-1/2''	188-1/2"
23B	21'-11"	263"
24B	16' - 1-1/2''	193-1/2"
25B	22'-4"	268"
26B	16' - 5-1/2''	197-1/2"
27B	22' - 7-1/2''	271-1/2"
28B	16'-9"	201"
29B	22' - 10-1/2''	274-1/2"
30B	16' - 11-1/2"	203-1/2"
31B	23'-1/2"	276-1/2"
32B	17'-1"	205"
33B	23' - 1-1/2"	277-1/2"
34B	17'-2"	206"

42' 20 Gauge Grandstand Layout for Recirculating System Cut-Lok or 18 Gauge Cor-Lok Floors

2.66" Corrugated Bins 8 Rings Maximum and

4.00" Corrugated Bins 6 Rings Maximum

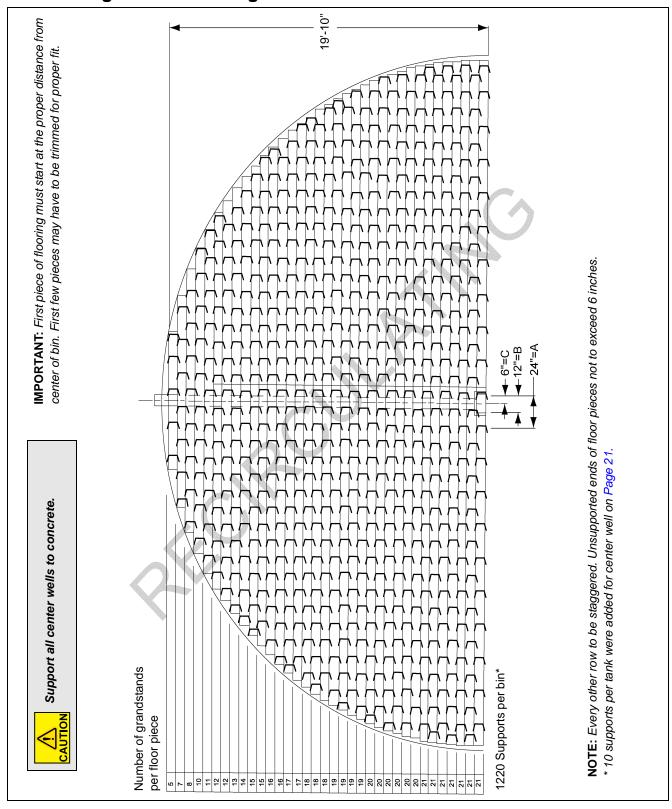
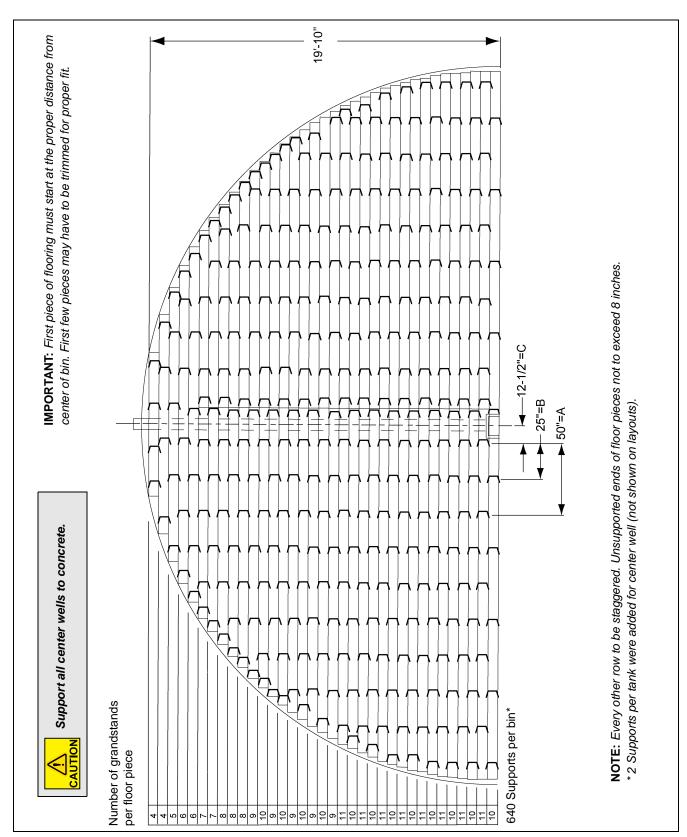


Figure 11A

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 5 Rings



42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 6 Rings and 5 Rings

4.00" Corrugated Bins 4 Rings and 5 Rings

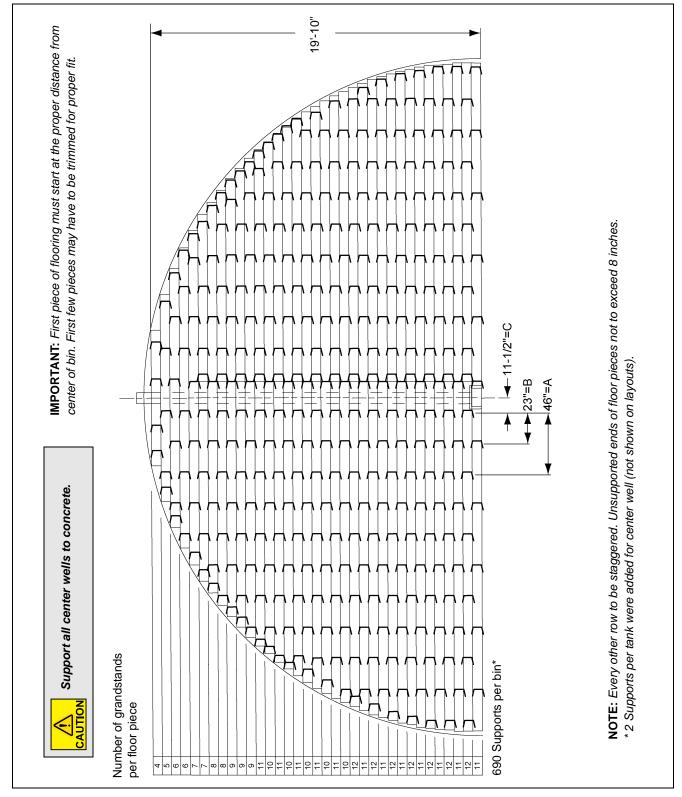


Figure 12B

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 7 Rings

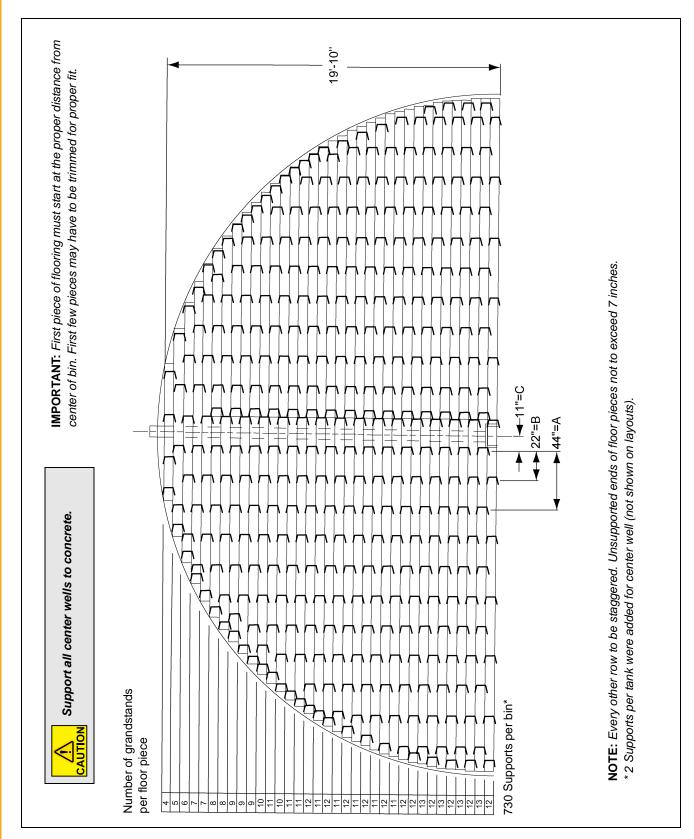


Figure 12C

42' Cor/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 8 Rings and 4.00" Corrugated Bins 6 Rings

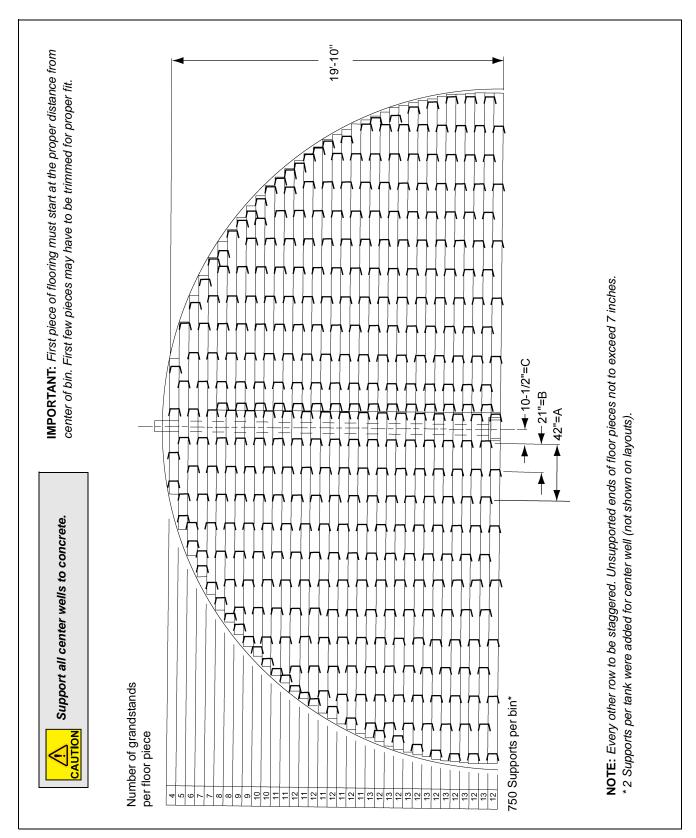


Figure 12D

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 9 Rings

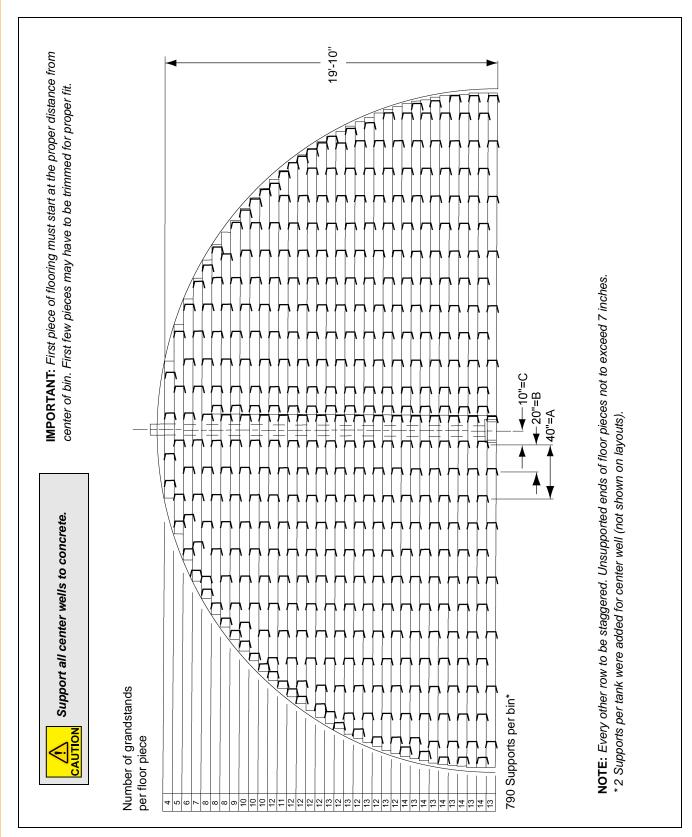


Figure 12E

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 10 Rings and 4.00" Corrugated Bins 7 Rings

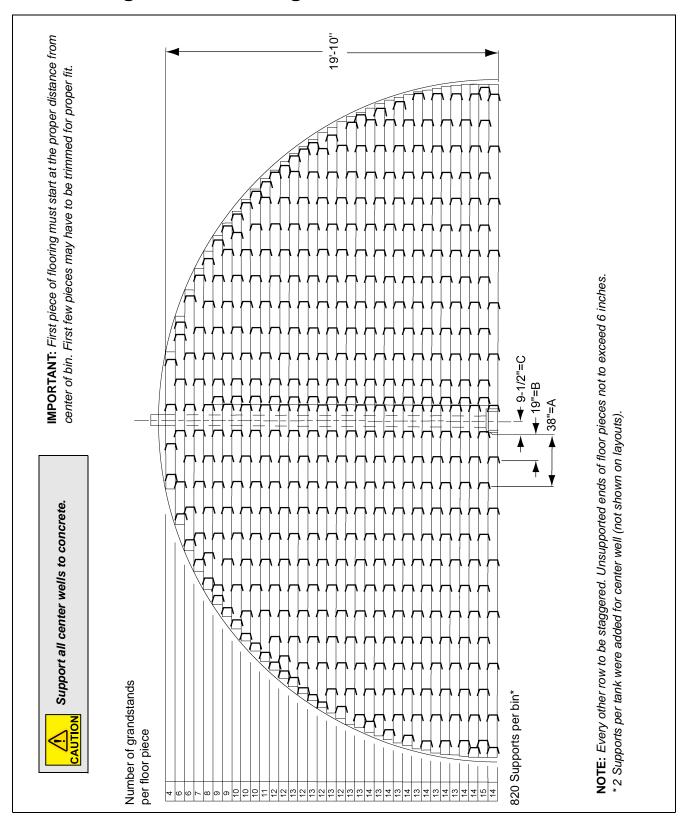


Figure 12F

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 11 Rings and

4.00" Corrugated Bins 8 Rings

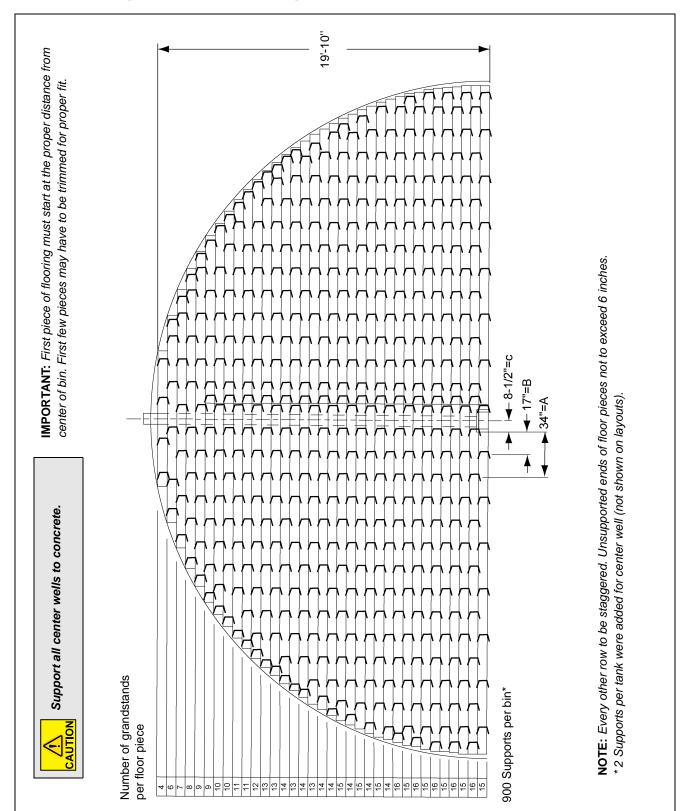


Figure 12G

42' Cor-Lok/Cut-Lok and 20 Gauge Grandstand Layout 2.66" Corrugated Bins 12 Rings and 4.00" Corrugated Bins 9 Rings

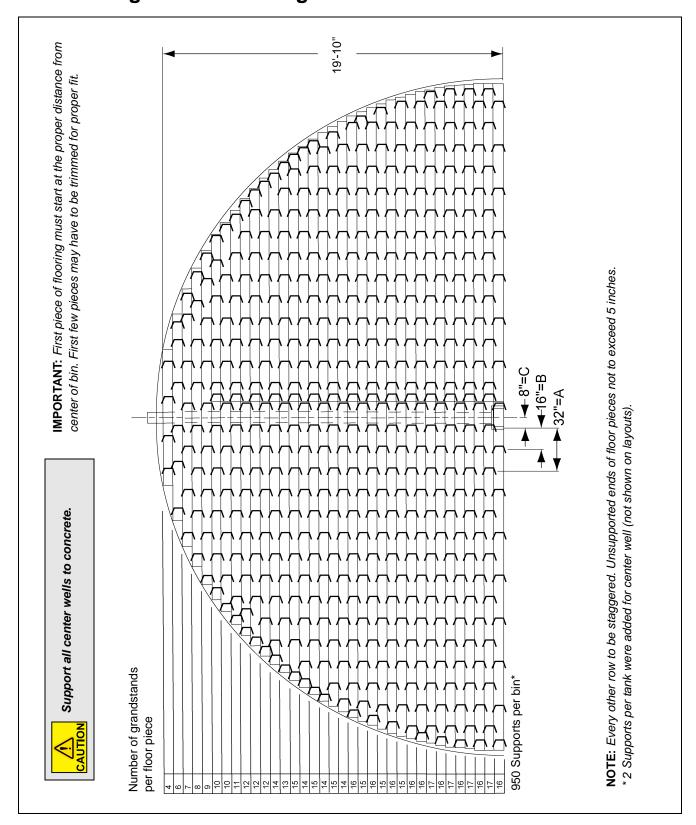


Figure 12H

20 Gauge Grandstand Chart - 2.66" Corrugation

Narrow/2.66" Corrugation - 20 Gauge Grandstand Floor Support Chart

				72.00				Requ		Plank	Туре Г	looring	2.66"		gation					
Dia.	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	72	75	78	90	105
Rings	57/27																			
3	62					port s	_										 	 hdoolis	 	1
4	54/27	58/29	54/27		Sup	port qu	ianny I	ı											t in orde oth 18 G	
	62	80	120	50/00	50/00	F 4/07	E 4/07	F0/0F	F0/0F	F0/0F								r-Lok C		J.
5	54/27 62	58/29 80	54/27 120	52/26 160	56/28 205	54/27 249	54/27 304	50/25 390	50/25 470	50/25 576							1	1	1	1
6	54/27	54/27	54/27	52/26	52/26	48/24	50/25	50/25	48/24	48/24	48/24	48/24	48/24	44/22	44/22					
О	62	88	120	160	215	275	333	390	487	586	695	806	909	1196	1430					
7	54/27 62	52/26 96	48/24 138	50/25 168	48/24 225	48/24 275	48/24 347	46/23 425	44/22 523	46/23 606	44/22 735	44/22 836	44/22 933	42/21 1236	42/21 1477					
	48/24	48/24	48/24	46/23	46/23	46/23	44/22	44/22	44/22	44/22	42/21	42/21	42/21	40/20	40/20					
8	70	100	144	182	230	300	363	435	523	624	750	866	977	1296	1544					
9	48/24	48/24	42/21	42/21	42/21	44/22	42/21	42/21	40/20	42/21	40/20	40/20	40/20	38/19	36/18					l
	70 42/21	100 42/21	144 42/21	190 42/21	243 42/21	303 42/21	387 40/20	465 40/20	565 38/19	656 38/19	790 38/19	906 36/18	1019 36/18	1346 34/17	1697 34/17				k or Cut	
10	75	110	144	190	250	309	397	40/20	597	716	820	986	1109	1486	1779	l it ais		and nui shade	mber of d area	iings
14	42/21	42/21	42/21	42/21	40/20	40/20	38/19	36/18	36/18	36/18	34/17	34/17	34/17	32/16	32/16		I a.c.ii	. 51.1446 	_ u.ou. 	ı
11	75	110	144	190	265	319	417	525	620	746	900	1036	1163	1566	1883					
12	38/19	40/20	40/20	40/20	38/19	38/19	36/18	34/17	34/17	34/17	32/16	32/16	32/16	30/15	30/15	26/13		26/13	-	22/11
	80 38/19	115 38/19	154 38/19	202 36/18	280 36/18	345 36/18	441 34/17	550 32/16	659 32/16	786 30/15	950 30/15	1096 30/15	1230 28/14	1660 1660	1993 26/13	3300 24/12	3580 24/12	3870 24/12	5520 22/11	8110 20/10
13	80	120	166	220	290	360	470	600	710	880	1010	1160	1390	1760	2300	3540	3840	4150	5960	8820
14	34/17	34/17	34/17	34/17	34/17	34/17	32/16	30/15	30/15	28/14	28/14	26/13	26/13	26/13	24/12	22/11	22/11	22/11	20/10	18/9
14	90	130	180	230	300	380	500	630	750	930	1070	1310	1480	1870	2460	3820	4410	4480	6480	9680
15	32/16	32/16 140	32/16	32/16	32/16	32/16 400	30/15	28/14	28/14	26/13	26/13	24/12	24/12	24/12	22/11	22/11	20/10	20/10	18/9	18/9
	95 30/15	30/15	190 30/15	250 30/15	320 28/14	28/14	520 28/14	670 28/14	790 26/13	990 24/12	1140 24/12	1400 24/12	1590 22/11	2000	2650 20/10	3820 20/10	4500 20/10	4870 18/9	7120 18/9	9680 16/8
16	100	150	205	260	360	450	550	670	840	1060	1220	1400	1710	2160	2880	4150	4500	5340	7120	10760
17	28/14	28/14	28/14	26/13	26/13	26/13	26/13	26/13	24/12	24/12	22/11	22/11	20/10	20/10	20/10	18/9	18/9	18/9	16/8	16/8
17	106	160	215	290	380	480	590	710	900	1060	1320	1510	1860	2350	2880	4550	4950	5340	7910	10760
18	26/13 110	26/13	24/12 240	24/12 310	24/12 400	24/12 510	24/12 630	24/12	24/12 900	22/11 1140	22/11 1320	20/10 1640	20/10 1860	18/9 2570	18/9 3170	16/8 5060	16/8 5500	16/8 5940	16/8 7910	14/7 12150
	110	170 24/12	24/12	22/11	22/11	22/11	22/11	760 22/11	22/11	22/11	20/10	20/10	18/9	18/9	16/8	16/8	16/8	16/8	14/7	14/7
19		180	240	340	440	550	680	820	970	1140	1430	1640	2040	2570	3520	5060	5500	5940	8920	12150
20		22/11	22/11	22/11	22/11	22/11	20/10	20/10	20/10	20/10	20/10	18/9	18/9	16/8	16/8	14/7	14/7	14/7	14/7	12/6
20		190	260	340	440	550	740	890	1060	1240	1430	1800	2040	2860	3520	5710	6200	6710	8920	13990
21				20/10 370	20/10 470	20/10 740	20/10 740	20/10 890	20/10 1060	20/10 1240	18/9 1570	18/9 1800	16/8 2270	16/8 2860	14/7 3970	14/7 5710	14/7 6200	14/7 6710	12/6 10280	12/6 13990
				18/9	18/9	18/9	18/9	18/9	18/9	18/9	18/9	16/8	16/8	16/8	14/7	12/6	12/6	12/6	10260	10330
22				400	520	660	810	970	1160	1360	1570	2000	2270	2860	3970	6580	7140	7730	10280	
23				18/9	18/9	16/8	16/8	16/8	16/8	16/8	16/8	16/8	16/8	14/7	14/7	12/6	12/6	12/6		
				400	520	730	900	1080	1290	1510	1740	2000	2270	3230	3970	6580	7140	7730	J	
24				16/8 450	16/8 580	16/8 730	16/8 900	16/8 1080	16/8 1290	16/8 1510	16/8 1740	16/8 2000	14/7 2560	14/7 3230	12/6 4570	12/6 6580	12/6 7140			
0.5				14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	12/6	5500	, , 40	J		
25				500	650	820	1010	1220	1450	1700	1960	2260	2560	3230	4570		C		!:	
26						14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	12/6	12/6			ort spa		
	Cı	ıt-Lok o	nly if dia	ameter	and	820	1010	1220	1450	1700	1960	2260	2560	3720	4570			-	-	
27		mber of	rings a	re in bo		12/6 950	12/6 1160	12/6 1410	12/6 1670	12/6 1960	12/6 2260	12/6 2600	12/6 2950	12/6 3720	12/6 4570			lok floo		
-00		uns	haded a	area.		12/6	12/6	12/6	12/6	12/6	12/6	12/6	12/6	12/6	1070				orts are neter an	
28						950	1160	1410	1670	1960	2260	2600	2950	3720					re in bot	
29						12/6	12/6	12/6	12/6	12/6					-			haded a		
~						950	1160	1410	1670	1960										

^{*} For Aeration Systems recessed in the concrete, add one ring for proper spacing.

When using FL-3102-3 or FL-3102-6 (3", 6") Grandstands, increase the listed quantities by 33% (Standard Quantity x 1.33).

Quantities of Grandstands are minimum required for installation - Due to varying conditions and construction techniques at floor and wall penetrations, additional supports may need to be ordered.

How to read the chart: For example, a 12' diameter bin with 7 rings would have spacing of 54/27 (the top numbers). Meaning A=54" and B=27". The number of supports needed would be 62, (the bottom number).

20 Gauge Grandstand Chart - 4.00" Corrugation

Wide/4.00" Corrugation - 20 Gauge Grandstand Floor Support Chart

					Full	Floor S						Floorin	g 4.00" eights)	Corrug	gation						
Dia.	12	15	18	21	24	27	30	33	36	39	42	45	48	54	60	72	75	78	90	105	
Rings Support spacing support quantity																					
3	54/27 62	58/29 80	54/27 120	52/26 150	56/28 202	54/27 249	50/25 333	50/25 390	50/25 470	50/25 576	46/23 695	52/26 735	48/24 869								
4	54/27 62	54/27 88	54/27 120	52/26 160	52/26 214	48/24 275	50/25 333	50/25 390	50/25 470	50/25 576	46/23 695	48/24 775	48/24 869	46/23 1156	44/22 1430						
5	54/27 62	52/26 96	48/24 138	50/25 168	48/24 224	48/24 275	48/24 347	46/23 425	44/22 523	46/23 606	46/23 695	44/22 836	44/22 933	42/21 1236	42/21 1477						
6	48/24 70	48/24 100	48/24 138	46/23 182	46/23 230	44/22 303	44/22 363	44/22 435	44/22 523	42/21 656	42/21 751	42/21 866	42/21 977	40/20 1296	38/19 1650						
7	42/21 75	42/21 110	42/21 144	42/21 190	42/21 249	42/21 309	42/21 387	40/20 480	40/20 565	40/20 686	38/19 821	38/19 946	38/19 1057	36/18 1416	34/17 1779						
8	42/21 75	42/21 110	42/21 144	42/21 190	40/20 265	40/20 319	38/19 417	36/18 525	36/18 620	36/18 746	34/17 900	34/17 1036	34/17 1163	32/16 1566	32/16 1883	28/15 3550	28/15 and number of rings ar				
9	38/19 80	40/20 115	38/19 166	38/19 220	38/19 277	36/18 355	34/17 471	34/17 555	32/16 695	32/16 830	32/16 951	30/15 1156	30/15 1303	30/15 1660	28/14 2160	28/15 3550	24/12 3850	24/12 4160	24/12 5970	20/10 8820	
10	36/18 90	34/17 130	34/17 180	34/17 230	34/17 300	34/17 380	32/16 500	32/16 600	30/15 750	28/14 930	30/15 1010	28/14 1230	28/14 1390	26/13 1870	24/12 2460	22/11 3820	22/11 4150	22/11 4480	20/10 6480	18/9 9680	
11	32/16 95	30/15 150	32/16 190	32/16 250	32/16 320	32/16 400	30/15 520	30/15 650	28/14 790	26/13 990	26/13 1140	24/12 1400	24/12 1590	24/12 2000	22/11 2650	20/10 4150	20/10 4500	20/10 4870	18/9 7120	16/8 10760	
12	28/14 100	28/14 160	28/14 210	28/14 280	28/14 360	28/14 450	28/14 550	28/14 670	26/13 840	24/12 1060	24/12 1220	22/11 1510	22/11 1710	20/10 2350	20/10 2880	18/9 4550	18/9 4950	18/9 5340	16/8 7910	16/8 10760	
13	26/13 110	26/13 170	26/13 220	26/13 290	24/12 400	24/12 510	24/12 630	24/12 760	24/12 900	22/11 1140	22/11 1320	20/10 1640	20/10 1860	18/9 2570	18/9 3170	16/8 5060	16/8 5500	16/8 5940	16/8 7910	14/7 12150	
14			22/11 260	22/11 340	22/11 440	22/11 550	22/11 680	22/11 820	20/10 1060	20/10 1240	20/10 1430	18/9 1800	18/9 2040	16/8 2860	16/8 3520	16/8 5060	16/8 5500	16/8 5940	14/7 8920	14/7 12150	
15				20/10 370	20/10 480	20/10 600	20/10 740	20/10 890	20/10 1060	18/9 1360	18/9 1570	18/9 1800	16/8 2270	16/8 2860	16/8 3520	14/7 5710	14/7 6200	14/7 6710	14/7 8920	12/6 13990	
16				18/9 400	18/9 520	18/9 660	18/9 810	18/9 970	18/9 1160	18/9 1360	18/9 1570	16/8 2000	16/8 2270	16/8 2860	14/7 3970	12/6 6580	12/6 7140	12/6 7730	12/6 10280		
17					16/8 580	16/8 730	16/8 900	16/8 1080	16/8 1290	16/8 1510	16/8 1750	16/8 2000	16/8 2270	14/7 3230	14/7 3970	12/6 6580	12/6 7140	12/6 7730		1	
18					16/8 580	16/8 730	16/8 900	16/8 1080	16/8 1290	16/8 1510	16/8 1750	16/8 2000	14/7 2560	14/7 3230	12/6 4570			ort spa			
19		Cut-	-Lok on	ly		14/7 820	14/7 1010	14/7 1220	14/7 1450	14/7 1700	14/7 1970	14/7 2260	14/7 2560	12/6 3720	12/6 4570	support quantity					
20				bottom	1	12/6 950	12/6 1160	12/6 1410	12/6 1670	12/6 1960	12/6 2270	12/6 2600	12/6 2950	12/6 3720			nonora	ok floor il suppo if diame			
21		unone	adou ai	ou.	•	12/6 950	12/6 1160	12/6 1410	12/6 1670	12/6 1960	12/6 2270	12/6 2600	12/6 2950		1	r	number	of rings	are in		

^{*} For Aeration Systems recessed in the concrete, add one ring for proper spacing.

When using FL-3102-3 or FL-3102-6 (3", 6") Grandstands, increase the listed quantities by 33% (Standard Quantity x 1.33).

Quantities of Grandstands are minimum required for installation - Due to varying conditions and construction techniques at floor and wall penetrations, additional supports may need to be ordered.

Floor styles in order of increasing strength are 18 gauge Cor-Lok, Cut-Lok, Dura-Lok.

How to read the chart: For example, a 12' diameter bin with 5 rings would have spacing of 54/27 (the top numbers). Meaning A=54" and B=27". The number of supports needed would be 62, (the bottom number).

Stiffener Flashing Support Instructions for Internal Universal Stiffeners

- 1. Install the floor and support system, cutting the floor to go around the internal stiffeners as required.
- 2. Break the stiffener flashing support (SS-6984) (A) into its three (3) components.
- 3. Lay the flashing supports (A) on top of the flooring and weld the flashing supports (A) to the stiffener as close as possible. Fasten the flashing to the wall, flashing support (A) and floor. Seal all spaces by welding or caulking.
- 4. Paint all welds with good quality zinc rich paint.
- 5. Stiffener flashing supports (SS-6984) (A) must be ordered separately from the standard floor and flashing.

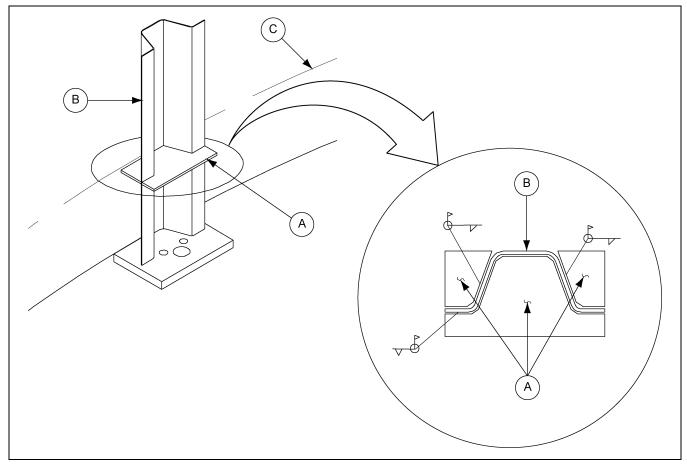


Figure 14A

Ref #	Description
Α	Stiffener Flashing Support (SS-6984)
В	Sidewall Stiffener
С	Top of Floor

Installation of Air Flow Supports

- 1. Determine the spacing and quantity of air flow supports required from the chart *on Page 39*. Make sure that the correct supports have been ordered for use with the proper depth of plank (either 1-1/8" or 1-3/8" deep).
- 2. Mark center of bin.
- 3. Install discharge auger.
- 4. Mark spacing lines parallel to discharge auger.
- 5. Start on the side of the bin opposite from the discharge auger and place the first two (2) rows of supports on the spacing lines. Note that air flow supports are installed at an angle in an overlapping pattern so the ends will overlap. See floor layouts in *Figure 15B on Page 40*.
- 6. Install the channel lock flooring on the first two (2) rows of supports and secure in place with bin wall flashing.
- 7. Finish placing supports on the spacing lines and installing floor planks.
 - a. Single supports are used next to the bin wall and at the ends of split floor planks in order to maintain the floor manufacturer's recommended minimum distance from the end of a plank to a support.
 - b. Double supports are used at the sump and along the sides of the discharge auger for spacing of 16" or less and for recirculating bin equipment.
 - c. Full supports may have to be overlapped or angled to provide support at walls and to maintain spacing and flashing requirements.

15. Air Flow Support Instructions

The following *Figure 15A* show methods of support placement to achieve the necessary spacing close to discharge augers and sumps.

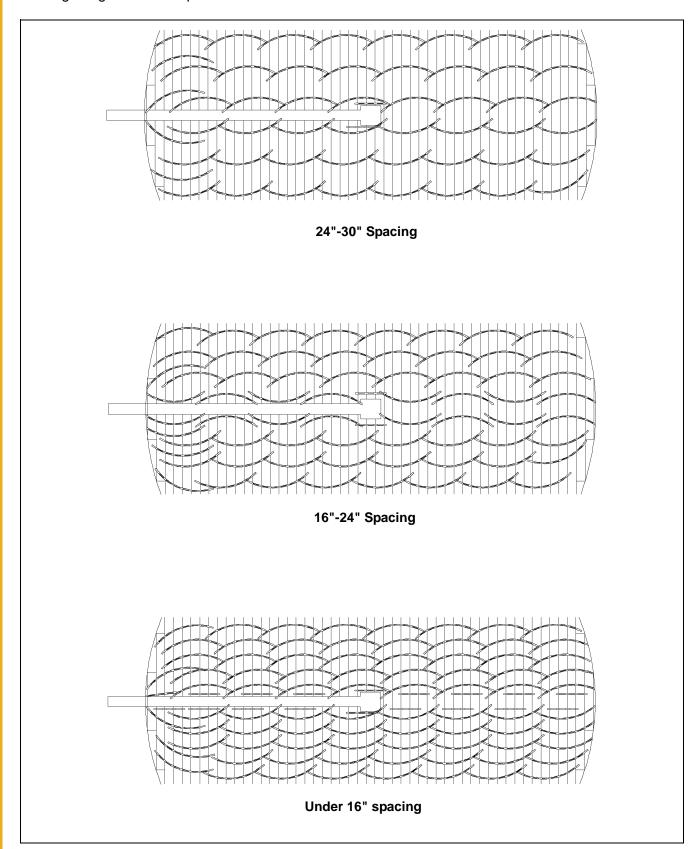


Figure 15A

*Installation, Spacing and Quantities of Air Flow Supports Under Channel Lock Floors

					Bii	n Diamete	er - Num	ber of	Support	s 						
Grain Depth at	Spacing	18 Ft. Dia.			21 Ft. Dia.			24 Ft. Dia.				27 Ft. Di	a.	30 Ft. Dia.		
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single
18'	30"	34	2	8	48	2	10	60	2	12	84	2	14	88	2	14
24'	26"	36	2	8	56	2	10	74	2	12	92	2	14	104	2	14
27'	24"	44	2	8	62	2	10	76	2	12	92	2	14	112	2	14
32'	20"	54	2	10	64	2	12	84	2	14	106	2	16	130	2	18
40'	16"	58	10	14	80	12	16	104	14	18	128	16	20	160	18	22
48'	13"	72	10	16	98	12	20	126	14	22	158	16	24	190	18	28
53'	12"	76	10	18	106	12	22	140	14	24	172	16	28	210	18	30
68'	10"	86	10	22	116	12	26	156	14	28	212	16	32	250	18	36
16'	24" and 12"	68	10	8	82	12	10	104	14	12	120	16	14	140	18	14

					Bin	Diamete	er - Num	ber of	Support	ts						
Grain Depth at	Spacing		33 Ft. Di	a.		36 Ft. Di	a.	42 Ft. Dia.				48 Ft. Di	a.		60 Ft. Di	a.
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single
18'	30"	116	2	16	136	2	18	172	2	20	Us	se 24" Spa	acing	Us	se 24" Spa	acing
24'	26"	124	2	16	144	2	18	200	2	20	Us	se 24" Spa	acing	Use 24" Spacing		
27'	24"	136	2	16	154	2	18	212	2	20	274	2	22	422	2	30
32'	20"	150	2	20	184	2	22	242	2	26	326	2	28	498	2	36
40'	16"	192	20	24	234	22	28	314	24	32	410	28	36	620	34	46
48'	13"	238	20	30	278	22	34	368	24	38	488	28	44	762	34	56
53'	12"	262	20	34	306	22	36	416	24	42	534	28	48	838	34	60
68'	10"	296	20	40	356	22	44	478	24	50	652	28	58	1024	34	72
16'	24" and 12"	168	20	16	188	20	18	264	24	20	350	28	20	N/A	N/A	N/A
(for Grain Flow)																

NOTES:

- 1. Use a maximum spacing of 16" for perforated corrugated flooring.
- 2. The number of supports listed is based on the maximum peaked capacity of each bin.
- 3. Use extra single supports for split floors.
- 4. Extra supports are required for grain recirculating equipment. Use the manufacturer's recommendation for the number and spacing of extra supports. **NOTE:** For grain flows, air flow supports are doubled in a 14' diameter in the center of the floor.
- 5. Contact a representative for air flow supports required for larger bins and deeper grain depths.
- 6. *Increase the number of supports by 5% when used with 6-3/4" wide mfs floor planks.

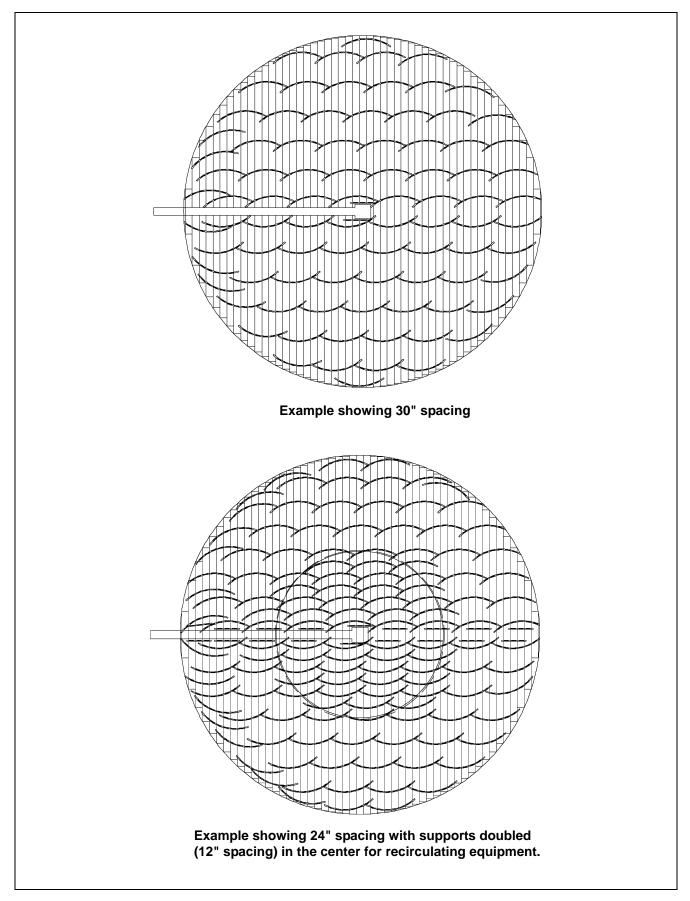


Figure 15B

Installation, Spacing and Quantities of Air Flow Supports Under Channel Lock Floors York and Chief Bins

					Bi	n Diame	ter - Nun	nber o	f Suppor	ts						
Grain Depth at	Spacing		15' 6"			18' 7"		21' 8" 24' 9"					27' 10"			
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single
18'	30"	26	2	8	36	2	8	50	2	10	64	2	12	80	2	14
24'	26"	30	2	8	42	2	8	56	2	10	74	2	12	92	2	14
27'	24"	32	2	8	44	2	8	60	2	10	78	2	12	98	2	14
32'	20"	38	2	10	52	2	10	72	2	12	92	2	14	116	2	16
40'	16"	46	10	14	64	12	14	86	14	16	114	14	18	142	16	20
48'	13"	54	10	16	78	12	16	106	14	20	136	14	22	172	16	24
53'	12"	58	10	18	84	12	18	114	14	22	148	14	24	184	16	28
68'	10"	70	10	22	98	12	22	134	14	26	174	14	28	220	16	32
16'	24" and 12"	60	10	8	72	12	8	88	14	10	106	14	12	126	16	14
(for Grain Flow)																

					Bin	Diamete	r - Numb	er of	Supports	5						
Grain Depth at	Spacing		31'			34'		37" 1" 40" 3"						43' 4"		
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single
18'	30"	98	2	14	116	2	16	136	2	18	160	2	20	182	2	22
24'	26"	112	2	14	132	2	16	154	2	18	182	2	20	208	2	22
27'	24"	120	2	14	142	2	16	166	2	18	196	2	20	224	2	22
32'	20"	140	2	18	168	2	20	198	2	22	232	2	26	260	2	26
40'	16"	174	18	22	208	20	24	244	22	28	286	24	32	330	26	32
48'	13"	210	18	28	252	20	30	298	22	34	350	24	38	402	26	38
53'	12"	228	18	30	272	20	34	316	22	36	378	24	42	434	26	42
68'	10"	270	18	36	324	20	40	384	22	44	450	24	50	520	26	50
16'	24" and 12"	148	18	14	170	20	16	194	22	18	224	24	20	252	26	22
(for Grain Flow)																

			Bin Dia	ameter - N	umber o	of Supports	i			
Grain Depth at	Spacing		49' 6"			55' 8"			61' 10"	
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single
18'	24"	288	2	28	362	2	32	444	2	36
24'	20"	346	2	28	436	2	32	536	2	36
27'	20"	346	2	28	436	2	32	536	2	36
32'	20"	346	2	28	436	2	32	536	2	36
40'	16"	428	28	36	540	32	42	664	36	46
48'	13"	524	28	44	660	32	52	812	36	56
53'	12"	566	28	48	714	32	54	878	36	60
68'	10"	676	28	58	852	32	68	1050	36	72

15. Air Flow Support Instructions

Installation, Spacing and Quantities of Air Flow Supports Under Channel Lock Floors Behlen Bins

				Bin Di	ameter	- Number	of Suppor	ts							
Grain Depth at	Spacing		16' 5"			19' 8"			22' 11"			26' 3"	26' 3"		
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single		
18'	30"	30	2	8	42	2	10	56	2	12	70	2	14		
24'	26"	32	2	8	46	2	10	64	2	12	80	2	14		
27'	24"	36	2	8	50	2	10	68	2	12	86	2	14		
32'	20"	42	2	10	60	2	12	80	2	14	102	2	16		
40'	16"	50	10	14	72	12	16	98	14	18	124	16	20		
48'	13"	60	10	16	88	12	20	118	14	22	152	16	24		
53'	12"	66	10	18	94	12	22	126	14	24	164	16	28		
68'	10"	78	10	22	110	12	26	150	14	28	194	16	32		
16'	24" and 12"	64	10	8	78	12	10	96	14	12	114	16	14		
for Grain Flow)															

				Bin D	iamete	r - Number	of Suppo	rts						
Grain Depth at	Spacing		29' 6"			36' 1"			42' 8"			49' 3"		
Bin Wall (ft.)	(in.)	Full	Double	Single	Full	Double	Single	Full	Double	Single	Full	Double	Single	
18'	30"	90	2	14	130	2	18	178	2	20	* 286	2	28	
24'	26"	102	2	14	148	2	18	202	2	20	* 286	2	28	
27'	24"	108	2	14	160	2	18	218	2	20	**344	2	28	
32'	20"	128	2	18	188	2	22	260	2	26	344	2	28	
40'	16"	158	18	22	232	22	28	320	24	32	426	28	36	
48'	13"	192	18	28	282	22	34	390	24	38	520	28	44	
53'	12"	206	18	30	306	22	36	422	24	42	562	28	48	
68'	10"	246	18	36	364	22	44	504	24	50	670	28	58	
16'	24" and 12"	136	18	14	188	22	18	246	24	20	N/A	N/A	N/A	
(for Grain Flow)														

^{*} Use 24" Spacing

^{**} Use 20" Spacing

GSI Group, LLC Limited Warranty

The GSI Group, LLC ("GSI") warrants products which it manufactures to be free of defects in materials and workmanship under normal usage and conditions for a period of 12 months after sale to the original end-user or if a foreign sale, 14 months from arrival at port of discharge, whichever is earlier. The end-user's sole remedy (and GSI's only obligation) is to repair or replace, at GSI's option and expense, products that in GSI's judgment, contain a material defect in materials or workmanship. Expenses incurred by or on behalf of the end-user without prior written authorization from the GSI Warranty Group shall be the sole responsibility of the end-user.

Warranty Extensions:

The Limited Warranty period is extended for the following products:

<u>-</u>	Product	Warranty Period
	Performer Series Direct Drive Fan Motor	3 Years
AP Fans and Flooring	All Fiberglass Housings	Lifetime
	All Fiberglass Propellers	Lifetime
AP and Cumberland	Flex-Flo/Pan Feeding System Motors	2 Years
	Feeder System Pan Assemblies	5 Years **
Cumberland	Feed Tubes (1-3/4" and 2.00")	10 Years *
Feeding/Watering Systems	Centerless Augers	10 Years *
•	Watering Nipples	10 Years *
Grain Systems	Grain Bin Structural Design	5 Years
Grain Systems	Portable and Tower Dryers	2 Years
Farm Fans Zimmerman	Portable and Tower Dryer Frames and Internal Infrastructure †	5 Years

- Warranty prorated from list price:
 0 to 3 years no cost to end-user
 3 to 5 years end-user pays 25%
 5 to 7 years end-user pays 50%
 7 to 10 years end-user pays 75%
- ** Warranty prorated from list price: 0 to 3 years - no cost to end-user 3 to 5 years - end-user pays 50%
- Motors, burner components and moving parts not included. Portable dryer screens included. Tower dryer screens not included.

GSI further warrants that the portable and tower dryer frame and basket, excluding all auger and auger drive components, shall be free from defects in materials for a period of time beginning on the twelfth (12th) month from the date of purchase and continuing until the sixtieth (60th) month from the date of purchase (extended warranty period). During the extended warranty period, GSI will replace the frame or basket components that prove to be defective under normal conditions of use without charge, excluding the labor, transportation, and/or shipping costs incurred in the performance of this extended warranty.

Conditions and Limitations:

THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION SET FORTH ABOVE. SPECIFICALLY, GSI MAKES NO FURTHER WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE IN CONNECTION WITH: (I) PRODUCT MANUFACTURED OR SOLD BY GSI OR (II) ANY ADVICE, INSTRUCTION, RECOMMENDATION OR SUGGESTION PROVIDED BY AN AGENT, REPRESENTATIVE OR EMPLOYEE OF GSI REGARDING OR RELATED TO THE CONFIGURATION, INSTALLATION, LAYOUT, SUITABILITY FOR A PARTICULAR PURPOSE, OR DESIGN OF SUCH PRODUCTS.

GSI shall not be liable for any direct, indirect, incidental or consequential damages, including, without limitation, loss of anticipated profits or benefits. The sole and exclusive remedy is set forth in the Limited Warranty, which shall not exceed the amount paid for the product purchased. This warranty is not transferable and applies only to the original end-user. GSI shall have no obligation or responsibility for any representations or warranties made by or on behalf of any dealer, agent or distributor.

GSI assumes no responsibility for claims resulting from construction defects or unauthorized modifications to products which it manufactured. Modifications to products not specifically delineated in the manual accompanying the equipment at initial sale will void the Limited Warranty.

This Limited Warranty shall not extend to products or parts which have been damaged by negligent use, misuse, alteration, accident or which have been improperly/inadequately maintained. This Limited Warranty extends solely to products manufactured by GSI.

Prior to installation, the end-user has the responsibility to comply with federal, state and local codes which apply to the location and installation of products manufactured or sold by GSI.

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This equipment shall be installed in accordance with the current installation codes and applicable regulations, which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.



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GSI is a worldwide brand of AGCO Corporation.