

COR-LOK & CUT-LOK FLOORING INSTALLATION INSTRUCTIONS AND GRANDSTAND LAYOUT



36' DIAMETER BINS

PRINTED:

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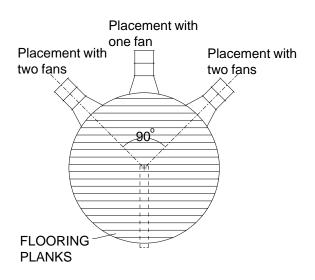
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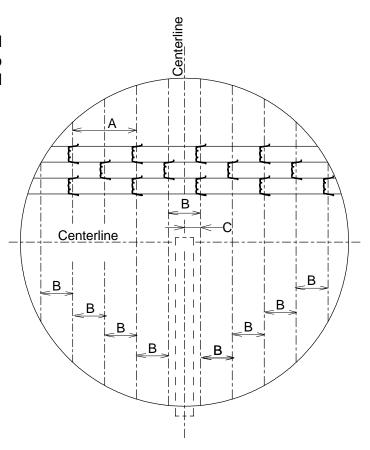
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SEE PAGES 15-16 FOR FLOOR SUPPORT REQUIREMENTS FOR BINS OVER 33' WALL HEIGHT

FAN PLACEMENT DIAGRAM

For most uniform air flow the fan(s) should be located as shown below with respect to the unloading tube. The floor planks should lay perpendicular to the unloading tube.



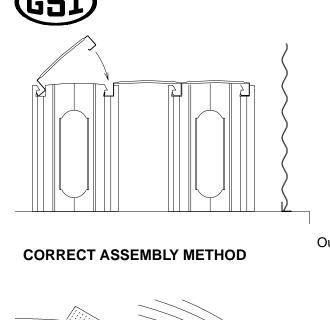


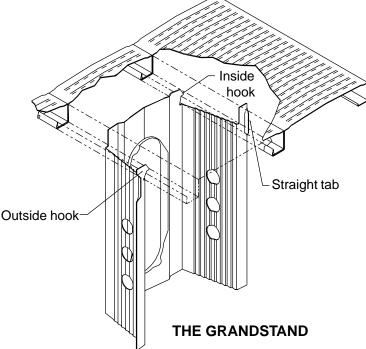
GRAIN SYSTEMS RECOMMENDED METHOD FOR FULL FLOOR INSTALLATION

This method should save floor construction time and eliminate problems of improper installation which could invalidate warranty. 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 "A". Dimension "C" is the distance from the center of unload auger to the nearest rows of supports and is half of "B". Dimensions "A", "B" and "C" are shown on the appropriate Grandstand layout for wall heights under 35 ft. For taller bins, Grandstand quantity as well as dimensions "A" and "B" are given on page #15 & #16.

- Layout center-lines of tank being sure one centerline is in line with the direction of the flooring planks while the other center-line is perpendicular with the flooring planks.
- 2. Measure over "C" dimension from centerline that is perpendicular to the direction of the flooring planks. Do this at each end of the bin. Strike a chalk line here.
- 3. Measure over "B" dimension from the previously (chalked in step #2) and strike a chalk line here. Continue this procedures until the bin wall is reached in both directions.
- 4. When completed there should be a set of parallel lines "B" dimensions apart.







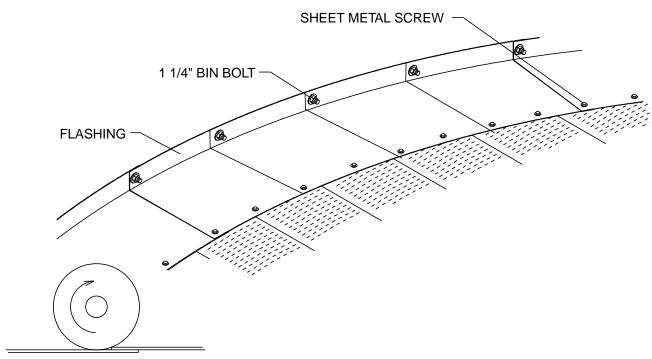
IMPORTANT: First piece of flooring must start the proper distance from centerline of bin. Refer to floor layout of correct bin diameter. First piece may have to be trimmed for proper distance.

- 5. Start at bin wall with shortest floor piece. **POSITION SUPPORTS FOR THIS PIECE AS SHOWN ON SUPPORT LAYOUT FOR CORRECT BIN DIAMETER AND SUPPORT SPACING.** Be sure flat side of floor piece is facing bin wall and is at designated distance from the wall (The open channel edge of floor must be facing the center of the bin.)
- 6. **POSITION THE NEXT ROW OF SUPPORTS ACCORDING TO THE CHALK LINES** and support layout. The straight tab and inside hook 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 under the outside hooks of floor supports. Push down sharply on the outside edge floor piece until it snaps into the previous floor piece.
- 7. Continue this procedure for the rest of the floor.

NOTE: Whenever there is more than B/3 inches of plank unsupported beside the bin wall there should be a support on that plank or a support on each of planks adjacent such that no more than B/3 inches is unsupported.



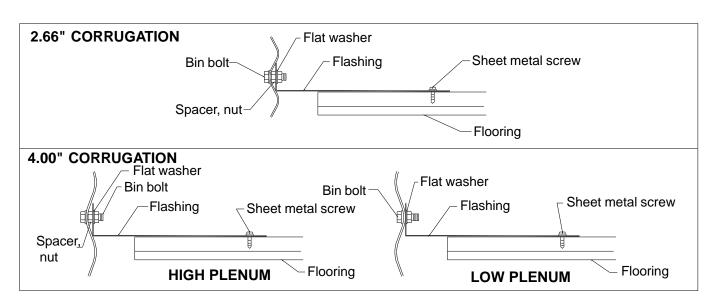
FLASHING INSTALLATION



GRAIN SYSTEMS FORMED FLASHING INSTALLATION

If bin sweep auger is to be used, overlap flashing such that rotation (usually clockwise) of the sweep will climb up on the next flashing section. This will prevent the rotating/slipping outer wheel of the sweep from catching on the flashing edges.

After the floor is in place, lay the flashing pieces on top of the floor place over the 1.1/4" bin bolts. See the details below to determine the correct sequence for placing the nuts and washers. Finger tighten the nuts. While holding flashing flat, fasten the flashing to the floor with sheet metal screws. Now tighten flashing nuts.

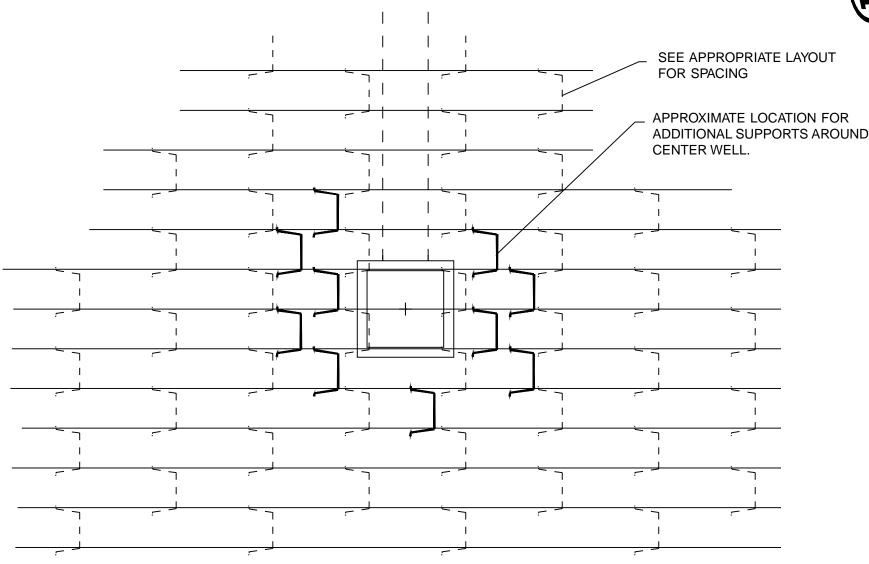


Grain Systems, Inc. Assumption, III.

CENTER WELL GRANDSTAND LAYOUT FOR RECIRCULATING SYSTEM

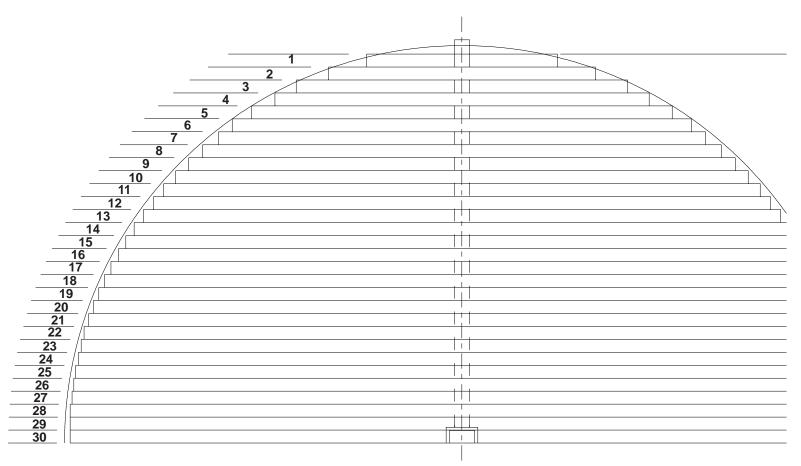


36' Cor-Lok & Cut-Lok Flooring



36' CUT-LOK/COR-LOK PLANK ORDER



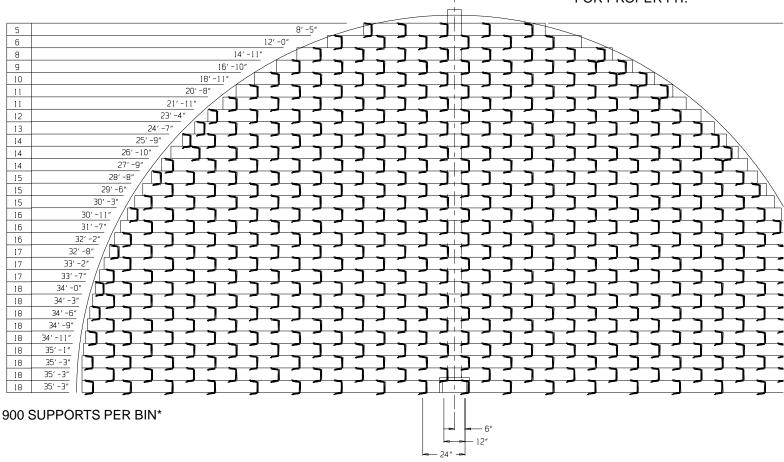


36' GRANDSTAND LAYOUT FOR RECIRCULATING SYSTEM **CUT-LOK OR 18 GA. COR-LOK FLOORS** 2.66" CORRUGATED BINS 8 RINGS MAX. 4.00" CORRUGATED BINS 6 RINGS MAX.



Cor-Lok & Cut-Lok Flooring

IMPORTANT: FIRST PIECE OF FLOORING MUST START THE PROPER DISTANCE FROM CENTER OF BIN. FIRST FEW PIECES MAY HAVE TO BE TRIMMED FOR PROPER FIT.



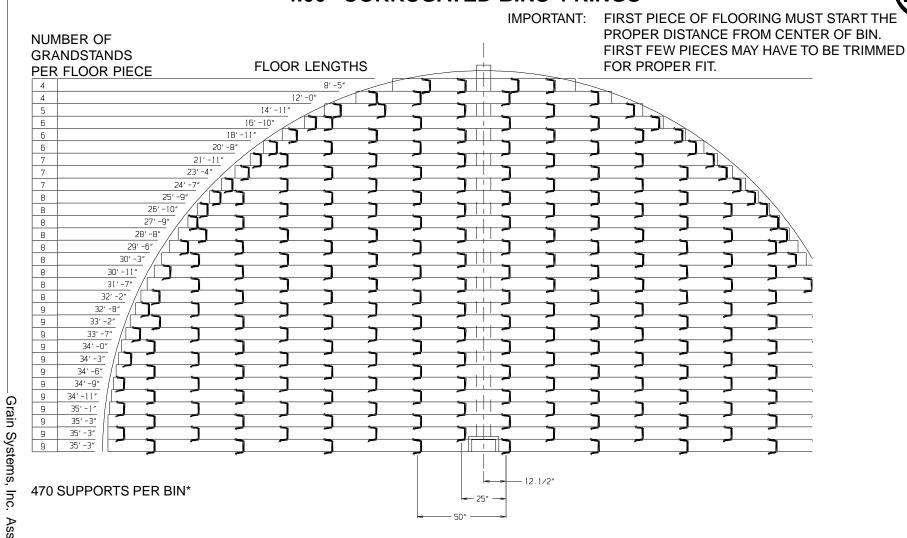
NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 6 INCHES.

* 10 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(SEE CENTER WELL GRANDSTAND LAYOUT ON PAGE 4)

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 5 RINGS 4.00" CORRUGATED BINS 4 RINGS



NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 8 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

35' -3"

490 SUPPORTS PER BIN*

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 6 RINGS

IMPORTANT: FIRST PIECE OF FLOORING MUST START THE

36

Cor-Lok & Cut-Lok Flooring

PROPER DISTANCE FROM CENTER OF BIN. NUMBER OF FIRST FEW PIECES MAY HAVE TO BE TRIMMED **GRANDSTANDS** FOR PROPER FIT. PER FLOOR PIECE FLOOR LENGTHS 12' -0" 5 6 16' -10" 18' -11' 6 20' -8" 21' -11" 23' -4" 24' -7" 8 25' -9" 8 26' -10" 8 27' -9" 8 28' -8" 8 29' -6" 30′ -3″ 9 30' -11" 9 9 31' -7" 9 32' -2" 9 32' -8" 33' -2" 9 33′ -7″ 34"-0" 9 34' -3" 9 9 34' -6" 9 34' -9" 34'-11" 35' -1" 35′ -3″ 35' -3"

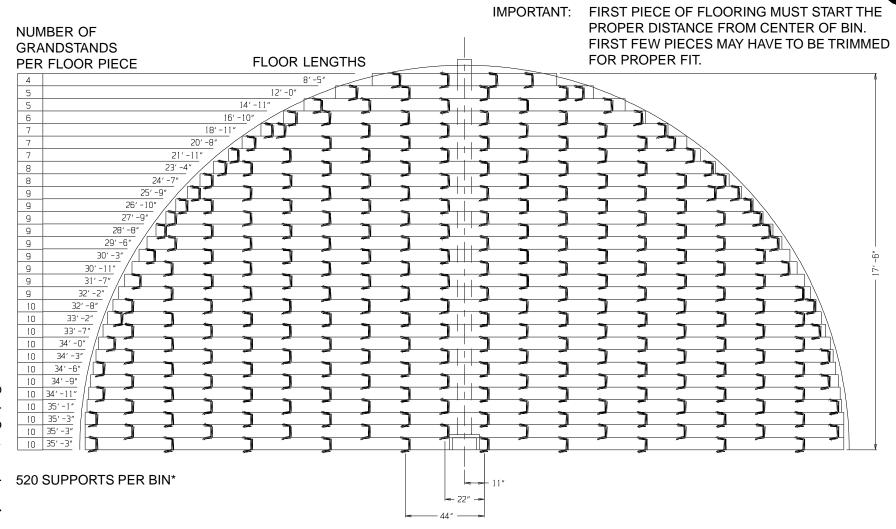
NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 8 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

2.66" CORRUGATED BINS 7 & 8 RINGS 4.00" CORRUGATED BINS 5 & 6 RINGS



NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 7 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

36

2.66" CORRUGATED BINS 9 RINGS 4.00" CORRUGATED BINS 7 RINGS

IMPORTANT: FIRST PIECE OF FLOORING MUST START THE PROPER DISTANCE FROM CENTER OF BIN. NUMBER OF FIRST FEW PIECES MAY HAVE TO BE TRIMMED **GRANDSTANDS** FOR PROPER FIT. PER FLOOR PIECE FLOOR LENGTHS 8' -5" 12' -0" 14' -11" 6 16' -10" 18' -11" 7 8 8 8 23' -4" 9 25' -9" 26' -10" 9 27' -9" 9 28' -8" 10 10 29' -6" 30' -3" 10 30' -11" 31′ -7" 10 10 32' -2" 32' -8" 10 11 33' -2" 33′ -7″ 11 34' -0" 34' -3" 11 34' -6" 34′ -9" 1.1 34'-11" 35' -1" 35′ -3″ 11 35′ -3″ 11 35′ -3″ 560 SUPPORTS PER BIN*

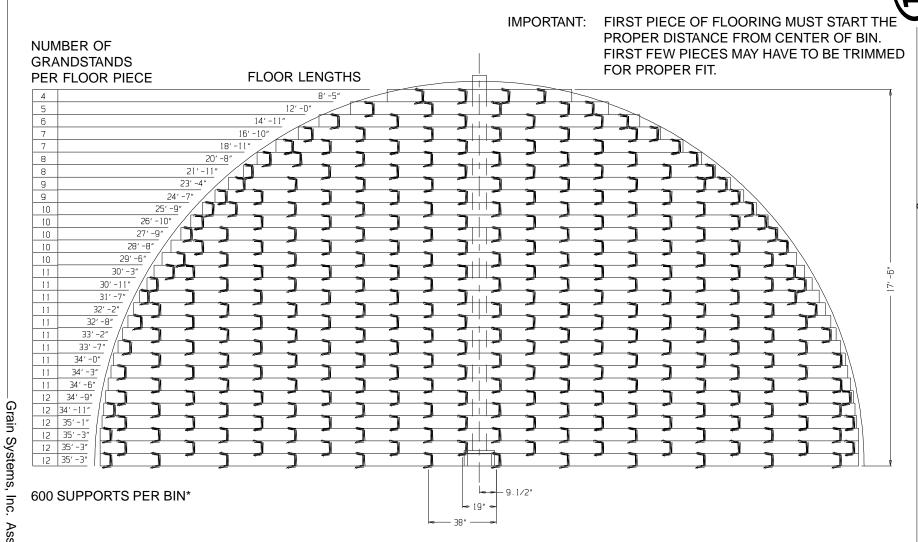
NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 7 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 10 RINGS



NOTES: EVERY OTHER ROW TO BE STAGGERED. UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 6 INCHES. * 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL (NOT SHOWN ON LAYOUTS)

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 11 RINGS 4" CORRUGATED BINS 8 RINGS

IMPORTANT: FIRST PIECE OF FLOORING MUST START THE PROPER DISTANCE FROM CENTER OF BIN.
FIRST FEW PIECES MAY HAVE TO BE TRIMMED

Cor-Lok & Cut-Lok Flooring

NUMBER OF FOR PROPER FIT. **GRANDSTANDS** PER FLOOR PIECE FLOOR LENGTHS 8' -5" 5 12" -0" 6 14'-11" 16' -10" 18' -11" 20' -8" 9 23' -4" 10 24' -7" 25' -9" 10 26' -10" 10 27' -9" 11 28' -8" 11 29' -6" 11 30′ -3" 11 11 30' -11" 31'-7" 11 32' -2" 11 32' -8" 12 33' -2" 12 33' -7" 12 34' -0" 12 12 34' -3" 12 34′ -6″ 34' -9" 12 34'-11" 12 12 35′ -1″ 35′ -3″ 12 35' -3" 12 620 SUPPORTS PER BIN*

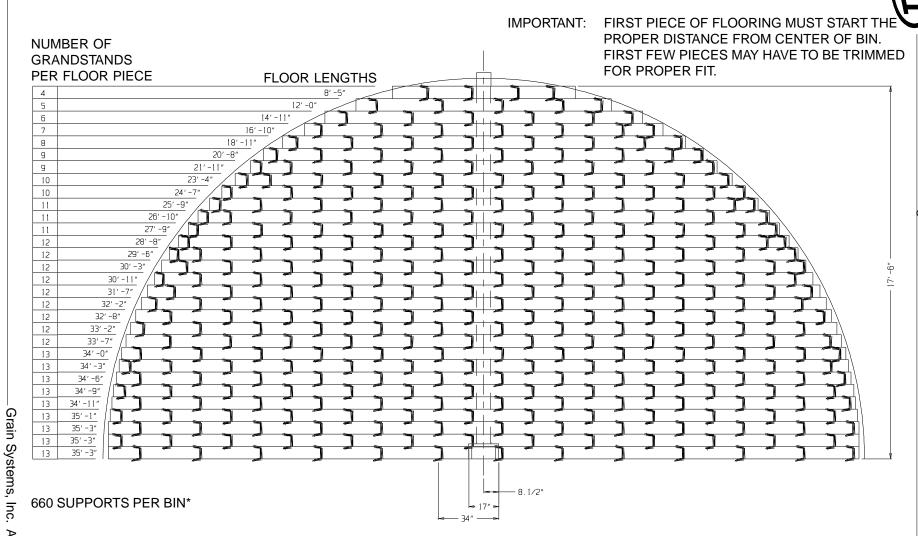
NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 6 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 12 RINGS



NOTES: EVERY OTHER ROW TO BE STAGGERED. UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 6 INCHES. * 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL (NOT SHOWN ON LAYOUTS)

36' COR/CUT-LOK AND GRANDSTAND LAYOUT 4.00" CORRUGATED BINS 9 RINGS

IMPORTANT: FIRST PIECE OF FLOORING MUST START THE PROPER DISTANCE FROM CENTER OF BIN. NUMBER OF FIRST FEW PIECES MAY HAVE TO BE TRIMMED **GRANDSTANDS** FOR PROPER FIT. FLOOR LENGTHS PER FLOOR PIECE 12' -0" 6 7 14' -11" 16' -10" 18' -11" 8 20' -8" 9 10 21'-11" 23' -4" 11 25' -9" 11 26' -10" 12 27' -9" 12 28' -8" 12 12 29' -6" 30′ -3″ 12 12 30'-11" 31' -7" 12 32' -2" 13 13 32' -8" 33' -2" 13 33' -7" 13 13 34' -0" 34′ -3" 13 14 34' -6" 14 34′-9" 14 34'-11" 14 35' -1" 14 35' -3" 35′ -3" 35' -3" 690 SUPPORTS PER BIN*

NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 5 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

(NOT SHOWN ON LAYOUTS)

FLOOR SUPPORT REQUIREMENTS FOR BINS OVER 33' WALL HEIGHT

				OLLI	LOOR SI	51 1 OK 1			GATION		LOON						
Rings	12	15	18	21	24	27	30	33	36	42	48	60	72	75	78	90	105
	ALL FL	OOR ST	YLES O	K FOR E	BIN												
		N UPPE	R SHAD	ED ARE	A												
3	54/27 60								 ,,,	l OOB ST	VI ES O	K EOD E	 BIN SIZE				
4	54/27	58/29	SUPPO	RT SPA	CING					ER SHAI			DIN SIZE I	ა 			
•	60		SUPPO						""			_, 					
5	54/27	58/29	54/27	52/26	56/28	54/27	54/27	50/25	50/25	50/25	48/24	46/23					
	60	80	120	160	200	250	310	390	470	640	870	1380					
6	54/27	54/27	54/27	52/26	52/26	48/24	50/25	50/25	48/24	46/23	46/23	44/22			yles Lis	t	
7	60 54/27	90 52/26	120 48/24	160 50/25	210 48/24	270 48/24	330 48/24	390 46/23	490 44/22	690 44/22	910 44/22	1430 42/21		In Orde	r of ing Stre	nath	
,	60	100	140	170	220	270	350	40/23		730	930	1480			COR-LO		
8	48/24	48/24	48/24	46/23	46/23	46/23	44/22	44/22	44/22	42/21	42/21	40/20			COR-LC		
	70	100	140	180	230	280	360	430	520	750	980	1540		CUT-LC	K		
9	48/24	48/24	42/21	42/21	44/22	44/22	42/21	42/21	40/20	40/20	40/20	36/18					
10	70	100	140 42/21	190 42/21	240	300	390	460	560 38/19	790	1020	1700 34/17					
10	42/21 80	42/21 110	42/21 140	42/21 190	42/21 250	42/21 310	40/20 400	40/20 480		38/19 820	36/18 1110		18 ga (K of CLIT	I OK IE	. DIV
11	42/21	42/21	42/21	42/21	40/20	40/20	38/19	36/18	36/18	34/17	34/17	32/16				N MIDD	
	80	110	140	190	260	320	420	520		900	1160			UNSHAE			Ī
12	38/19	40/20	40/20	40/20	38/19	38/19	36/18	34/17	34/17	32/16	32/16	30/15	26/13	26/13	26/13	24/12	22/
10	80	120	150	200	280	340	440	550	660	950	1230	1990		3580	3870	5520	
13	38/19	38/19	38/19	36/18	36/18	36/18	34/17	32/16	32/16	30/15 1010	28/14	26/13	24/12 3540	24/12 3840	24/12	22/11	20/
14	80 34/17	120 34/17	170 34/17	220 34/17	290 34/17	360 34/17	470 32/16	600 30/15	710 30/15	28/14	1390 26/13	2300 24/12	22/11	22/11	4150 22/11	5960 20/10	88 18/
14	90	130	180	230	300	34/17	500	630	750	1070	1480	2460	-	4140	4480	6480	96
15	32/16	32/16	32/16	32/16	32/16	32/16	30/15	28/14	28/14	26/13	24/12	22/11	22/11	20/10	20/10	18/9	18/
	100	140	190	250	320	400	520	670	790	1140	1590	2650	3820	4500	4870	7120	96
16	30/15	30/15	30/15	30/15	28/14	28/14	28/14	28/14	26/13	24/12	22/11	20/10	20/10	20/10	18/9	18/9	16/
17	100 28/14	150 28/14	210 28/14	260 26/13	360 26/13	450 26/13	550	670	840 24/12	1220	1710	2880		4500	5340	7120	
17	28/14 110	28/14 160	28/14	290	380	480	26/13 590	26/13 710		22/11 1320	20/10 1860	20/10 2880	18/9 4550	18/9 4950	18/9 5340	16/8 7910	16/ 107
18	26/13	26/13	24/12	24/12	24/12	24/12	24/12	24/12	24/12	22/11	20/10	18/9	16/8	16/8	16/8	16/8	14/
	110	170	240	310	400	510	630	760	900	1320	1860	3170		5500		7910	
19		24/12	24/12	22/11	22/11	22/11	22/11	22/11	22/11	20/10	18/9	16/8	16/8	16/8	16/8	14/7	14/
-		180	240	340	440	550	680	820	970	1430	2040	3520	5060	5500	5940	8920	121
20		22/11	22/11	22/11	22/11	22/11	20/10	20/10	20/10	20/10	18/9	16/8	14/7	14/7	14/7	14/7	12/
21	CUT-LC	190	260 f	340 20/10	440 20/10	550 20/10	740 20/10	890 20/10	1060 20/10	1430 18/9	2040 16/8	3520 14/7	5710 14/7	6200 14/7	6710 14/7	8920 12/6	139
۷.	Dia. and	. ,		370	470	600	740	890	1060	1570	2270	3970		6200	6710	10280	139
22	Rings is		om	18/9	18/9	18/9	18/9	18/9	18/9	18/9	16/8	14/7	12/6	12/6	12/6	12/6	
	shaded	areas.		400	520	660	810	970	1160	1570	2270	3970	6580	7140	7730	10280	
23				18/9	18/9	16/8	16/8	16/8	16/8	16/8	16/8	14/7	12/6	12/6	12/6		
24				400	520	730	900	1080		1740	2270	3970		7140	7730		
24				16/8 450	16/8 580	16/8 730	16/8 900	16/8 1080	16/8 1290	16/8 1740	14/7 2560	12/6 4570	12/6 6580	12/6 7140			
25				14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	12/6	0000	. 140	l		
				500	650		1010	1220			2560		Corruga	ted floors	s and		
26						14/7	14/7	14/7	14/7	14/7	14/7		Monorai				
						820	1010	1220	1450	1960	2560		req'd. if			•	
27						12/6	12/6	12/6	12/6	12/6	12/6	12/6		tom unsh	naded are	eas.	
28						950	1160	1410		2260	2950	4570					
20						12/6 950	12/6 1160	12/6 1410	12/6 1670	12/6 2260	12/6 2950						
29						12/6	12/6	12/6		SUPPO							
_0						950	1160	1410		SUPPO							
30	+ 10/1		2102.2	or FL-3	102 (/2												

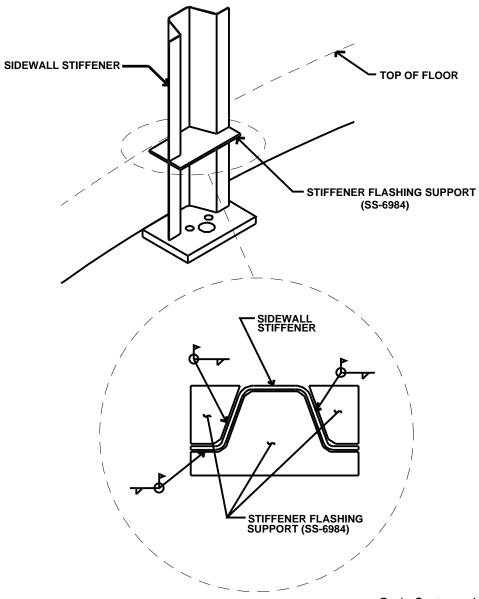
FLOOR SUPPORT REQUIREMENTS FOR BINS OVER 33' WALL HEIGHT

			FULL FL	OOR SU	PPORTS	REQUIR	ED FOR	PLANK T	YPE FLC	ORING					
4.00" CORRUGATION															
Rings	12	15	18	21	24	27	30	33	36	42	48				
rungo	ALL FLO									72	-10				
		_		_											
	SIZES IN				F0/00	E 4 (0=	011000	T 00 4 0	110						
3	54/27	58/29	54/27	52/26	56/28		SUPPORT SPACING SUPPORT QUANTITY					A 11 51 01 1 01/			
1	60	80	120	160	200					40/00	10/01	All Floor Styles OK			
4	54/27	54/27	54/27	52/26	52/26	48/24	50/25	50/25	50/25	46/23	48/24				
E	60	90	120	160	210	270	330	390	_	690		Upper Shaded Area.			
5	54/27	52/26	48/24	50/25	48/24	48/24	48/24	46/23	44/22	46/23	44/22	F1 01 1 11 1			
	60	100	140	170	220	270		420		690	930	,			
6	48/24	48/24	48/24	46/23	46/23	44/22	44/22	44/22	44/22	42/21	42/21	in order of			
	70	100	140	180	230	300		430		750	980	3 3			
1	42/21	42/21	42/21	42/21	42/21	42/21	42/21	40/20	40/20	38/19	38/19	20 GA. COR-LOK			
_	80	110	140	190	250	310	390	480	560	820	1060				
8	42/21	42/21	42/21	42/21	40/20	40/20	38/19	36/18	36/18	34/17	34/17	CUT-LOK			
	80	110	140	190	260	320	420	520		900	1160				
9	38/19	40/20	38/19	38/19	38/19	36/18	34/17	34/17	32/16	32/16		18 Ga. COR-LOK or s			
	80	120	170	220	280	350		550		950		stronger if Dia. and No.			
10			34/17	34/17	34/17	34/17	32/16	32/16	30/15	30/15		of Rings is in middle			
			180	230	300	380	500	600	750	1010		unshaded area.			
11			32/16	32/16	32/16	32/16	30/15	30/15	28/14	26/13	24/12				
			190	250	320	400		630		1140	1590	CUT-LOK only if Dia.			
12			28/14	28/14	28/14	28/14	28/14	28/14	26/13	24/12	22/11	and No. of Rings is in			
			210	280	360	450	550	670	840	1220	1710	bottom shaded area.			

^{*} When using FL-3102-3 or FL-3102-6 (3",6") Grandstand, increase the listed quantities by 33% (std. quantity x 1.33).

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) INTO IT'S THREE COMPONENTS.
- 3). LAY THE FLASHING SUPPORTS ON TOP OF THE FLOORING AND WELD THE FLASHING SUPPORTS TO THE STIFFENER AS CLOSE AS POSSIBLE. FASTEN THE FLASHING TO THE WALL, FLASHING SUPPORT, 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) MUST BE ORDERED SEPARATELY FROM THE STANDARD FLOOR AND FLASHING.



Major Changes from the last printing Are Listed Below:

Revised Format (Added Text Top & Bottom)

Added Cor-Lok/Cut-Lok Plank Order



1004 E. Illinois St., Box 20 Assumption, IL 62510-0020 phone: 217-226-4421 fax: 217-226-4420