

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



27' DIAMETER BINS

PRINTED:

REVISED: AUGUST 19, 1996



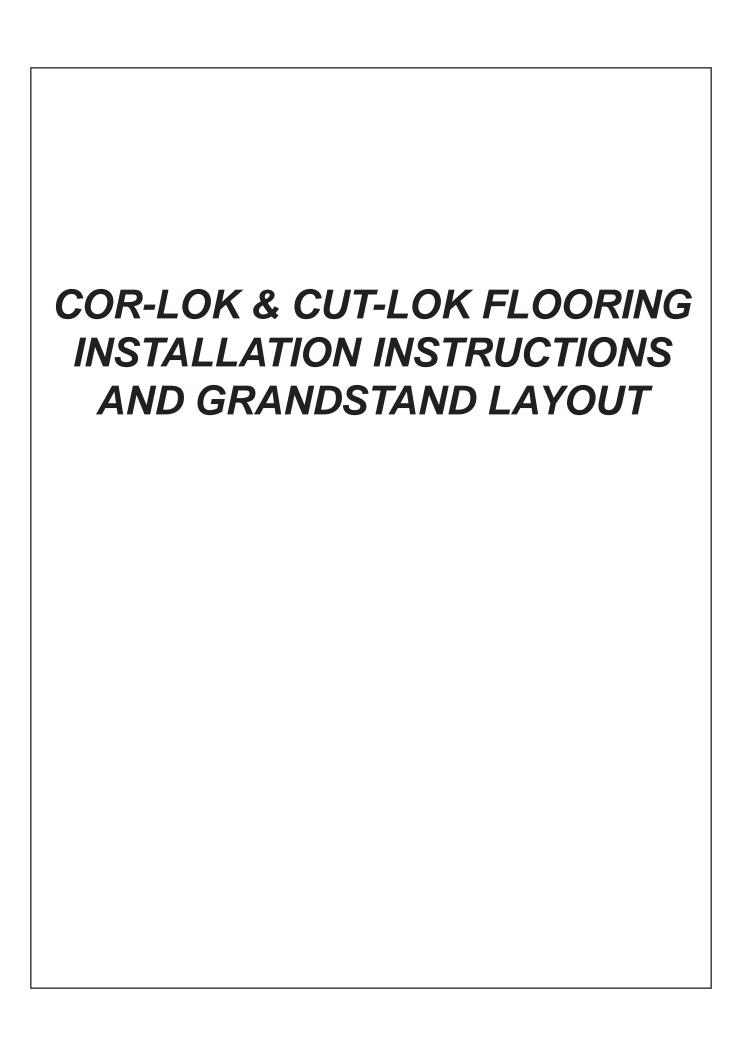


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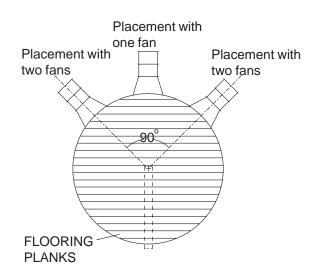
27' Cor-Lok & Cut-Lok Flooring

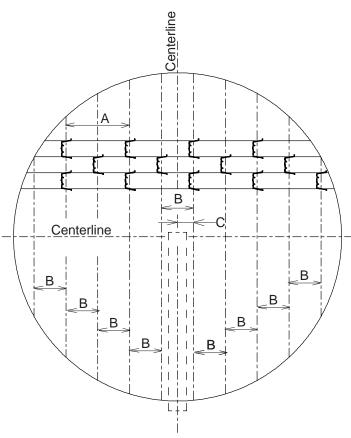
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SEE PAGES 15-16 FOR FLOOR SUPPORT REQUIREMENT S FOR BINS OVER 33' WALL HEIGHT

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.

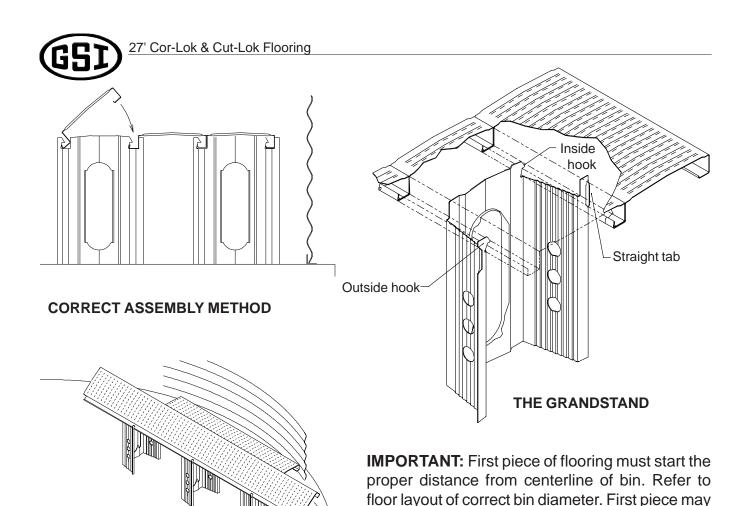




GRAIN SYSTEMS RECOMMENDED METHOD FOR FULL FLOOR INSTALLATION

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 #14 & #15.

- 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.



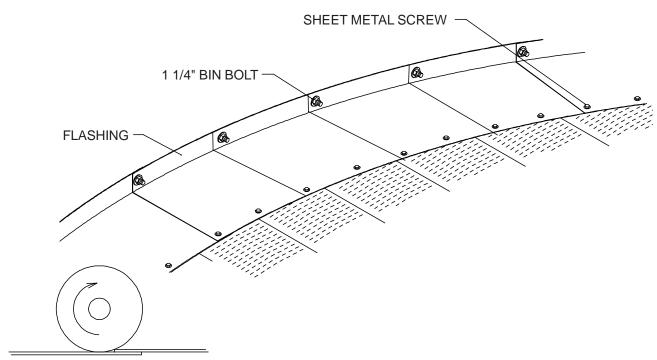
5. Start at bin wall with shortest floor piece. **POSITION SUPPORTS FOR THIS PIECE AS SHOWN ON SUPPORT LAYOUT FOR CORRECT BIN DIAMETER AND SUPPORT SPACING.** Be sure flat side of floor piece is facing bin wall and is at designated distance from the wall (The open channel edge of floor must be facing the center of the bin.)

have to be trimmed for proper distance.

- 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.

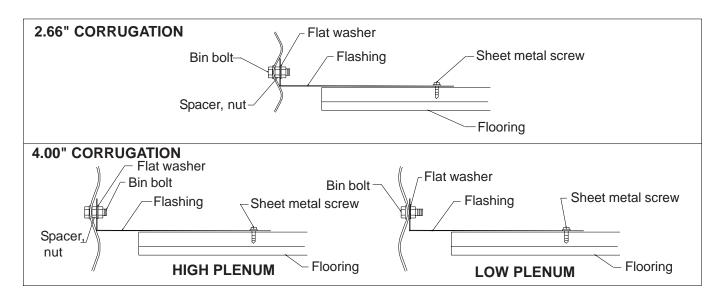
FLASHING INSTALLATION



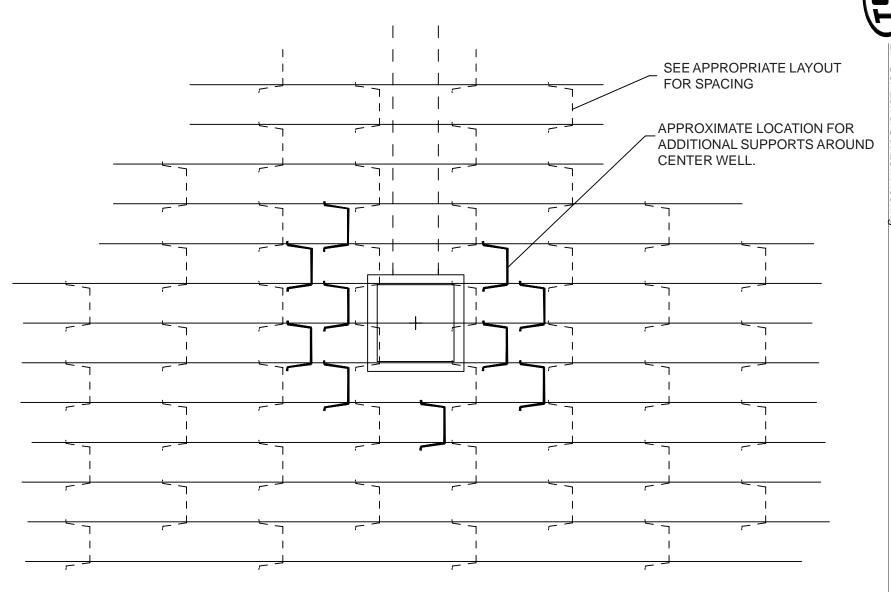
GRAIN SYSTEMS FORMED FLASHING INSTALLATION

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/flipping 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.

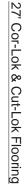


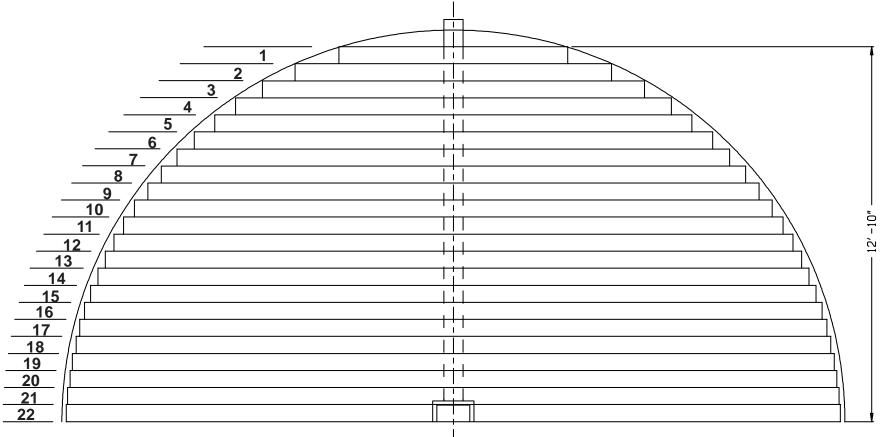
CENTER WELL GRANDSTAND LAYOUT FOR RECIRCULATING SYSTEM



27' CUT-LOK/COR-LOK PLANK ORDER



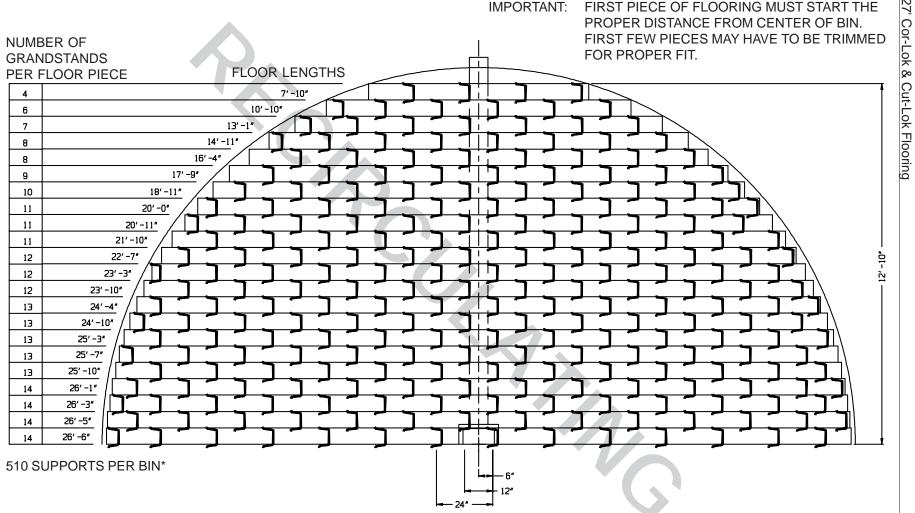




27' GRANDSTAND LAYOUT FOR RECIRCULATING SYSTEM **CUT-LOK OR 18 GA. COR-LOK FLOORS** 2.66" CORRUGATED BINS 8 RINGS MAX. 4.00" CORRUGATED BINS 6 RINGS MAX.



Cor-Lok &



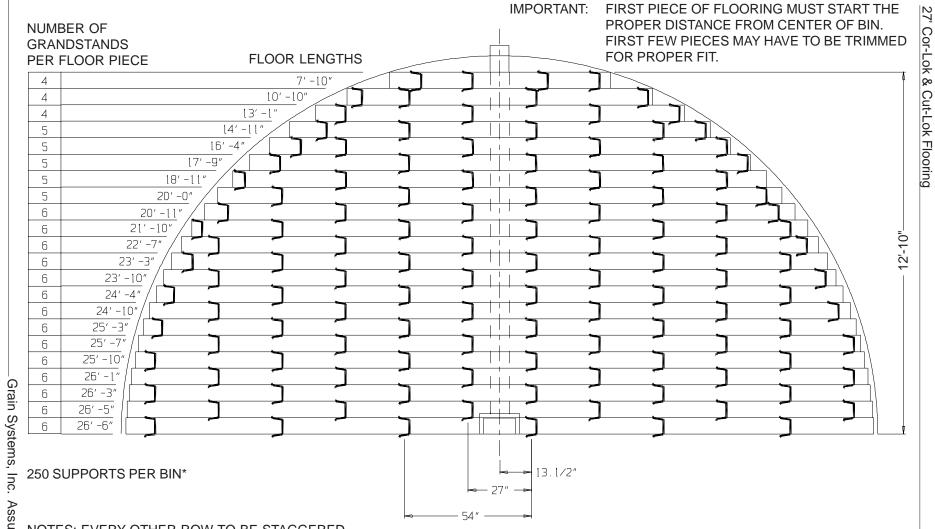
NOTES: EVERY OTHER ROW TO BE STAGGERED.

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)

27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 5 RINGS 4.00" CORRUGATED BINS 3 RINGS



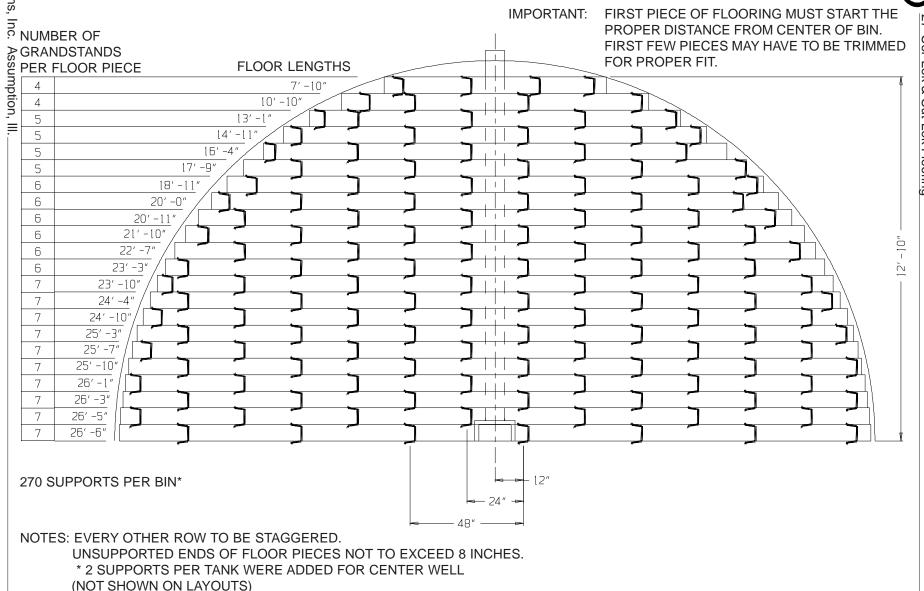


NOTES: EVERY OTHER ROW TO BE STAGGERED.

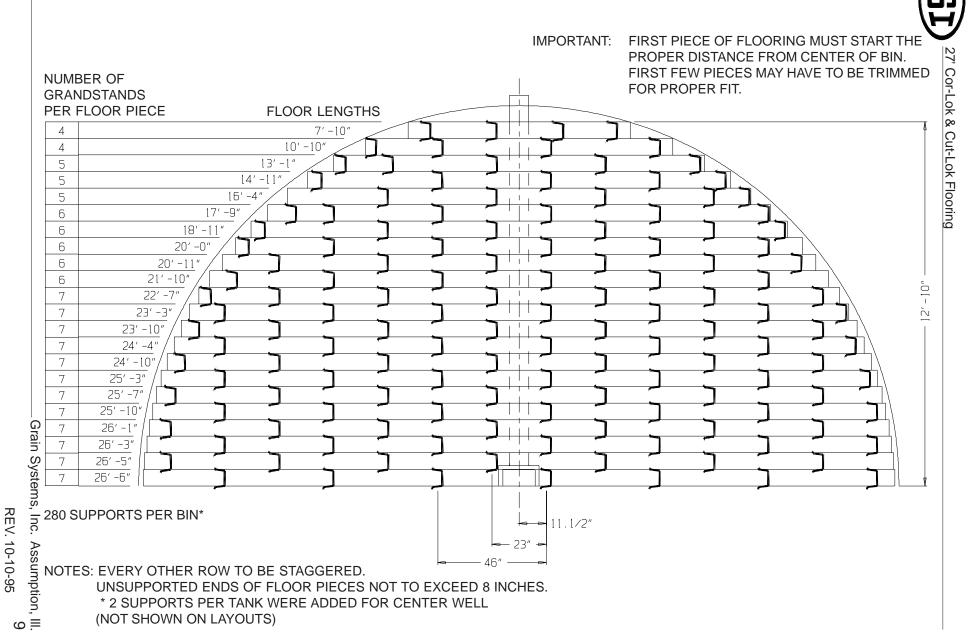
UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 9 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 6 & 7 RINGS 4.00" CORRUGATED BINS 4 & 5 RINGS

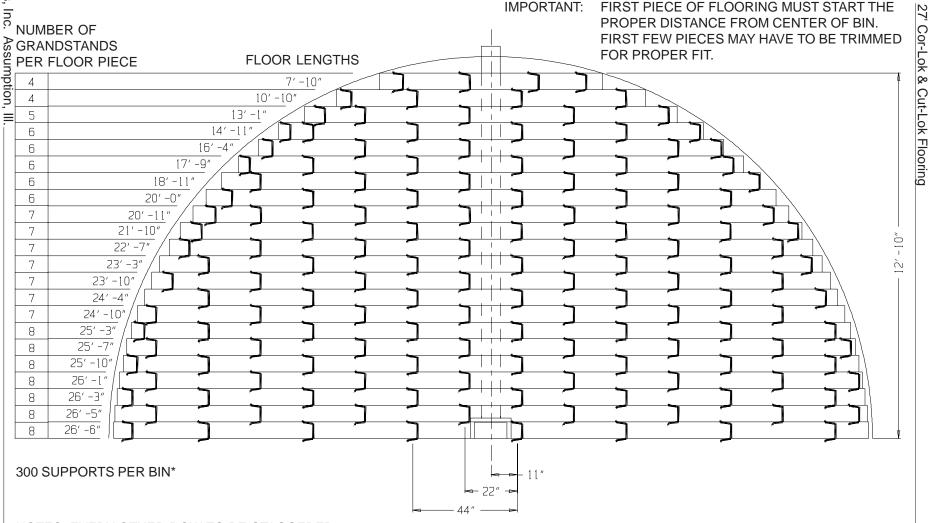


27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 8 RINGS



27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 9 RINGS 4.00" CORRUGATED BINS 6 RINGS





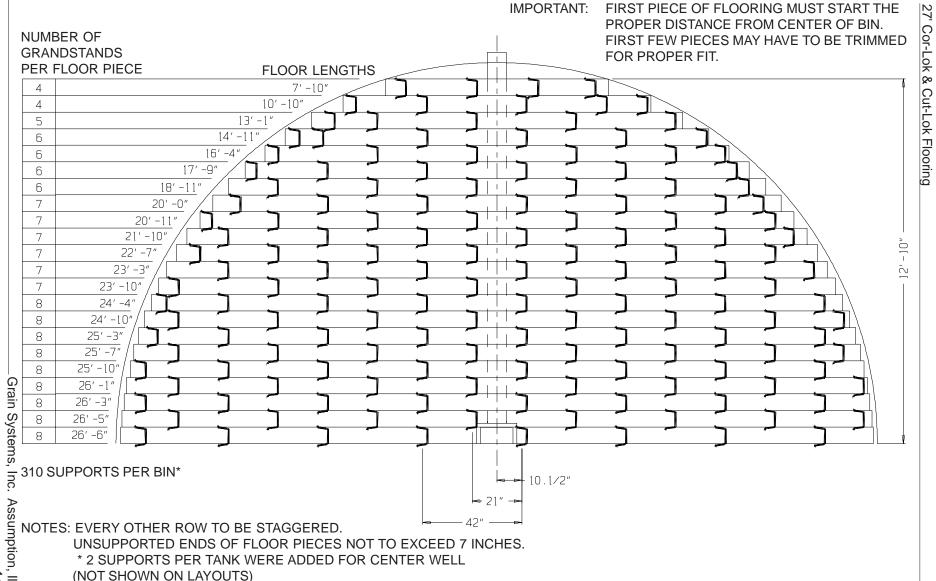
NOTES: EVERY OTHER ROW TO BE STAGGERED.

UNSUPPORTED ENDS OF FLOOR PIECES NOT TO EXCEED 7 INCHES.

* 2 SUPPORTS PER TANK WERE ADDED FOR CENTER WELL

27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 10 RINGS 4.00" CORRUGATED BINS 7 RINGS

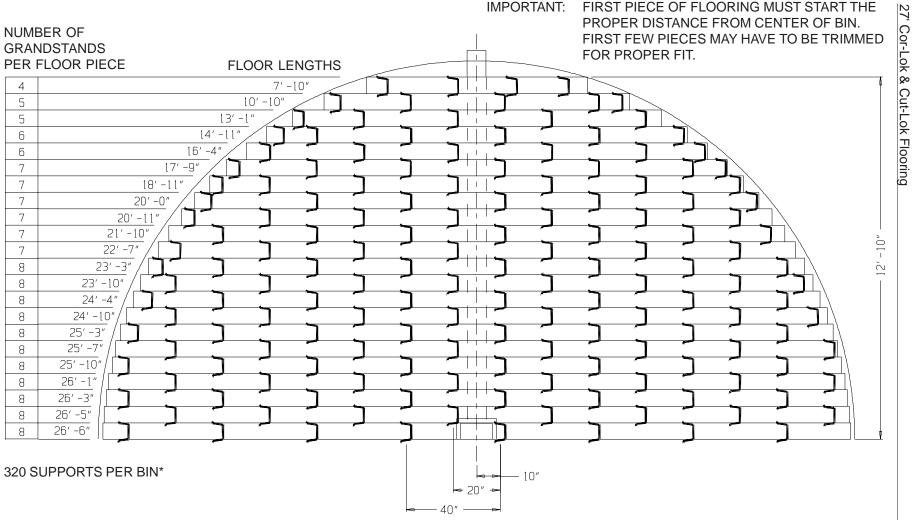




REV. 10-10-95

27' COR/CUT-LOK AND GRANDSTAND LAYOUT 2.66" CORRUGATED BINS 11 RINGS 4.00" CORRUGATED BINS 8 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

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

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. NUMBER OF **GRANDSTANDS** FLOOR LENGTHS PER FLOOR PIECE 7'-10" 10'-10" 5 13' -1" Я 14' -11" 6 7 16' -4" 7 17' -9" 7 18' -11" 8 20' -0" 8 20' -11" 21' -10" 8 - 10" 22' -7" 8 23' -3" 8 23' -10" 8 24' -4" 8 24' -10" 8 9 25' -3" 25' -7" 9 25′ -10′ 9 26' -1" 9 9 26' -3" 26' -5" 9 9 26' -6" 340 SUPPORTS PER BIN* 9.1/2" 19" →

- 38" -

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

27' 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. 27' Cor-Lok & Cut-Lok Flooring FIRST FEW PIECES MAY HAVE TO BE TRIMMED NUMBER OF FOR PROPER FIT. **GRANDSTANDS** FLOOR LENGTHS PER FLOOR PIECE 7'-10" 10'-10" 5 13' -1" 6 14'-11" 6 7 16' -4" 17' -9" 7 18' -11" 8 20' -0" 8 8 20' -11" 21' -10" 8 -10" 8 9 23' -3" 9 23' -10" 24' -4" 9 24' -10' 9 25' -3" 9 25' -7" 9 25' -10' 9 9 26' -1" 26' -3" 9 9 26' -5" 26' -6" 9 350 SUPPORTS PER BIN* - 36"

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

FLOOR SUPPORT REQUIREMENTS FOR BINS OVER 33' WALL HEIGHT

				OLLI	LOOK O	DEFORT			OR PLAN			(IIVO					
Rings	12	15	18	21	24	27	30	33	36	42	48	60	72	75	78	90	105
				K FOR E													
3	-	N UPPE	R SHAD	ED ARE	A												
3	54/27 60								ALL FL	OOR ST	YI ES O	K FOR F	I BIN SIZE	l :s			
4	54/27	58/29	SUPPO	RT SPA	CING					ER SHAI]	Ĭ			
	60	80	SUPPO	RT QUA	NTITY												
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					
G	60	80	120	160	200	250	310	390	470	640	870	1380		 _			
6	54/27 60	54/27 90	54/27 120	52/26 160	52/26 210	48/24 270	50/25 330	50/25 390	48/24 490	46/23 690	46/23 910	44/22 1430		In Orde	yles Lis	t	
7	54/27	52/26	48/24	50/25	48/24	48/24	48/24	46/23	44/22	44/22	44/22	42/21			ing Stre	nath	
-	60	100	140	170	220	270	350	420	520	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		18 GA.	COR-LO	ĸ	
_	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 42/21	100 42/21	140 42/21	190 42/21	240 42/21	300 42/21	390 40/20	460 40/20	560 38/19	790 38/19	1020 36/18	1700 34/17					
.0	80	110	140	190	250	310	400	480	600	820	1110		18 ga (I COR-LO	K of CUT	I -LOK IF	DIA.
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 MIDDI	
	80	110	140	190	260	320	420	520	620	900	1160	1880		UNSHAD			<u> </u>
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	22/1
13	80 38/19	120 38/19	150 38/19	200 36/18	280 36/18	340 36/18	440 34/17	550 32/16	660 32/16	950 30/15	1230 28/14	1990 26/13	3300 24/12	3580 24/12	3870 24/12	5520 22/11	81 20/1
13	36/19	120	170	36/16 220	36/18 290	36/16	34/1/ 470	32/16 600	710	1010	1390	2300	3540		4150	22/11 5960	20/1
14	34/17	34/17	34/17	34/17	34/17	34/17	32/16	30/15	30/15	28/14	26/13	24/12	22/11	22/11	22/11	20/10	18/
	90	130	180	230	300	380	500	630	750	1070	1480	2460	3820	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	18/9
40	100	140	190	250	320	400	520	670	790	1140	1590				4870	7120	96
16	30/15 100	30/15 150	30/15 210	30/15 260	28/14 360	28/14 450	28/14 550	28/14 670	26/13 840	24/12 1220	22/11 1710	20/10 2880	20/10 4150	20/10 4500	18/9 5340	18/9 7120	16/0 107
17	28/14	28/14	28/14	26/13	26/13	26/13	26/13	26/13	24/12	22/11	20/10	20/10	18/9	18/9	18/9	16/8	16/
••	110	160	220	290	380	480	590	710	900	1320	1860	2880	4550		5340	7910	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	5060	5500	5940	7910	121
19		24/12 180	24/12 240	22/11 340	22/11 440	22/11	22/11	22/11	22/11	20/10	18/9	16/8	16/8	16/8	16/8	14/7	14/
20		22/11	240 22/11	22/11	22/11	550 22/11	680 20/10	820 20/10	970 20/10	1430 20/10	2040 18/9	3520 16/8	5060 14/7	5500 14/7	5940 14/7	8920 14/7	121
20		190	260	340	440	550	740	890	1060	1430	2040	3520	5710	6200	6710	8920	139
21	CUT-LO			20/10	20/10	20/10	20/10	20/10	20/10	18/9	16/8	14/7	14/7	14/7	14/7	12/6	12/
	Dia. and			370	470	600	740	890	1060	1570	2270	3970	5710		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	
23	shaded	areas.		400	520	660 16/9	810 16/9	970	1160	1570	2270	3970	6580	7140	7730	10280	l
23				18/9 400	18/9 520	16/8 730	16/8 900	16/8 1080	16/8 1290	16/8 1740	16/8 2270	14/7 3970	12/6 6580	12/6 7140	12/6 7730		
24				16/8	16/8	16/8	16/8	16/8	16/8	16/8	14/7	12/6	12/6	12/6		<u>l</u>	
				450	580	730	900	1080	1290	1740	2560	4570	6580	7140			
25				14/7	14/7	14/7	14/7	14/7	14/7	14/7	14/7	12/6	_				
26				500	650	820	1010	1220	1450	1960	2560		Corruga Monorai				
20						14/7 820	14/7 1010	14/7 1220	14/7 1450	14/7 1960	14/7 2560		reg'd. if			as	
27						12/6	12/6	12/6	12/6	12/6	12/6	12/6		uia. ariu tom unsh		J	
						950	1160	1410	1670	2260	2950	4570					
28						12/6	12/6	12/6	12/6	12/6	12/6		•				
						950	1160	1410	1670	2260	2950						
29						12/6	12/6	12/6		SUPPO							
						950	1160	1410	1670 ase the	SUPPO							

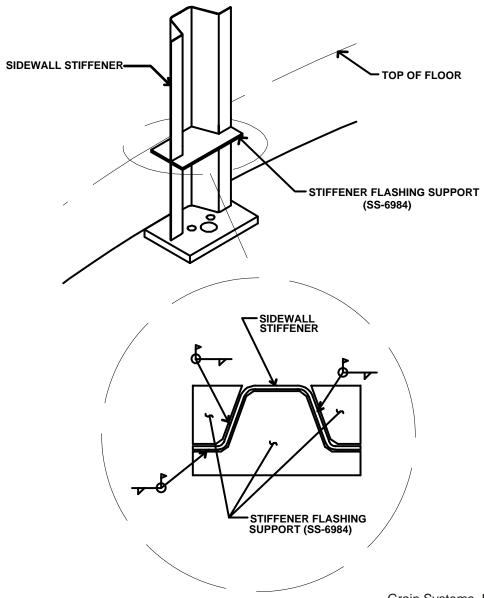
FLOOR SUPPORT REQUIREMENTS FOR BINS OVER 33' WALL HEIGHT

			FULL FL	OOR SU			ED FOR		YPE FLC	ORING		
					4.0	U" CORR	UGATIO	N				
Rings	12	15	18	21	24	27	30	33	36	42	48	
	ALL FLO	OR STY	LES OK I	OR BIN								
	SIZES IN	UPPER	SHADED	AREA.								
3	3 54/27 58/29 54/27 52/26 56/28					54/27 SUPPORT SPACING						
	60	80	120	160	200	250	SUPPOR	T QUAN	TITY			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	For Bin Sizes in
	60	90	120	160	210	270	330	390	470	690	870	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	
	60	100	140	170	220	270	350	420	520	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	360	430	520	750	980	
7	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	620	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	470	550	690	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		600	750	1010		unshaded area.
11			32/16	32/16	32/16	32/16	30/15	30/15	28/14	26/13	24/12	
40	ĺ	ļ	190	250	320	400		630		1140		CUT-LOK only if Dia.
12			28/14	28/14	28/14	28/14	28/14	28/14	26/13	24/12		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



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