ALL SIZE PERFORATING

TRUSS Grain Bin Aeration Flooring System with SYNTIRO Supports

Supplement for SPLICED FLOORS

42' - 54' Diameters



014/26/13

Warranty

All Size Perforating Ltd. warrants each new All Size Flooring Systems, which includes a TRUSS Floor installed with SYTINRO Floor Supports, manufactured by it to be free from defects in material or workmanship for a period of four (4) years from and after the date of initial installation by or for the purchaser. If such a defect is found by the Manufacturer to exist within the applicable warranty period, the Manufacturer will, at its option, (a) replace such product free of charge, F.O.B. the factory of manufacture, or (b) refund to the original purchaser the original purchase price, in lieu of such repair or replacement. The manufacturer does not cover labor costs associated with the replacement of the product.

CONDITIONS AND LIMITATIONS

- 1. The product must be installed and operated in accordance with instructions published by the Manufacturer or Warranty will be void.
- 2. All TRUSS Floors must be properly installed with the SYNTIRO Flooring Supports in order for the four year Warranty period listed above to apply. Otherwise, individual TRUSS Floors and components thereof will only be warranted for a period of 1 year from and after the date of initial installation by or for the original purchaser. The All Size SYNTIRO Support Flooring System is only to be used with the All Size TRUSS Floor. Otherwise, no warranty will apply to the SYNTIRO Flooring Supports.
- 3. This product must be purchased from and installed by an authorized dealer or Certified Representitive thereof or the Warranty will be void.
- 4. Malfuntions or damage resulting from mususe, abuse, negligence, alteration, accident, or lack of proper maintainence shall not be considered defects under this Warranty.
- 5. This Warranty applies only to systems for the care of grain and feed. Other applications in industry or commerce are not covered by this Warranty.

The 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 of operational inefficiencies.

THIS WARRANTY CONSTITUTES THE MANUFACTURER'S ENTIRE AND SOLE WARRANTY AND THE 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 OT HE PRODUCT FRUNISHED HEREUNDER.

All Size Dealers are NOT authorized to modify or extend the terms and conditions of this warranty in any manneror to offer or grant any other warranties for All Size products in addition to those terms expressly stated above.

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We would like to thank you for your recent ALL SIZE purchase. If a problem should arise your ALL SIZE dealer can supply you with the necessary information to help you.

TABLE OF CONTENTS

SPECIAL (Consideration with Larger Spliced Floors	4
	Follow SAFETY instructions	4
	Grain Bins with Sweeps or other Equipment	4
NORMAL	Support Chalkline Spacing Chart	5
	Standard Grain Bins ∼ Recirculating Grain Bins	5
	Marking Support Chalklines on Spliced Floors 42' - 78'	6
	Group A: Floors with NORMAL Chalkline Spacing 18" or greater	7
	Group B: Floors with NORMAL Chalkline Spacing 12" or greater	8
	Group C: Floors with NORMAL Chalkline Spacing 9 - 11"	9
	Start Center Support Rows Under Plank 1A (at Transition)	10
	Add Support Rows at the Center Sump to the Unload	10 & 11
Splices		12
	Support the Splices	12
	Managing Longer Support Rows and Longer Planks	14
Floor Dia	gram	16 - 65
	42' Floor	16 - 19
	48' Floor	20 - 23
	54' Floor	24 - 27
SYNTIRO	Support Count Chart	28

SPECIAL Considerations with Larger Spliced Floors

Spliced Floors are Floors whose diameters dictate that long Planks 42' - 78' come in two pieces, either for shipping or ease in handling.

Floors 42' and 48' diameters are available in either No-Splice or Two-Piece Planks. Floors 54' -78' and larger are available only in spliced planks

FOLLOW SAFETY Instructions

Carefully read all SAFETY messages in this Manual, your base **Construction Manual**, and on your equipment SAFETY signs. Follow recommended precautions and safe operating practives. Keep SAFETY signs in good condition.

IMPORTANT! Check all equipment for SAFETY Decals and their proper placement, BEFORE equipment

is operated. NEVER use equipment if Decals are missing, improperly placed or damaged.

The ALL SIZE TRUSS Floor and SYNTIRO Support System can be used for both commercial and Frm Grain Bins. Improper use of the Floor may cause Floor damage.

Steel SYNTIRO Supports are designed to carry the Floor Load. Any modifications to support or use of other manufacturer's supports on the TRUSS Floor Planks may cause Floor damage and will void Warranty. The ALL SIZE SYNTIRO Floor Support is only to be used with the ALL SIZE TRUSS Floor. Otherwise, the Warranty is void. Refer to the Warranty on the second page of this manual. Grain Bins using RECIRCULATING EQUIPMENT require more Floor Supports. Failure to follow proper procedures for installation may cause Floor Damage.

The Warranty does not cover damage to the TRUSS Floor or SYNTIRO Supports

from the use of another manufacturer's equipment.

Grain Bins with Sweeps or Other Equipment

The warranty does not cover damage to the TRUSS Floor or SYNTIRO Supports from the use of another manufacturer's equipment.

Bin Sweeps in Grain Bins 42' (12,802) and 48' (14,630) diameter:

Sweeps with center wheel supports must have Track Plates in the Floor to prevent point loading damage. (Supplied by Your Dealer)

Bin Sweeps in Grain Bins 54' (16,459) diameter and larger:

Additional Track Plates must be added to spread out the Wheel/Track contact loads at intermediate locations and around the perimeter. (Supplied by Your Dealer)

Failure to follow the above guidelines for additional Track Plates for Sweeps will void the Manufacturer's Warranty.

Failure to follow the above guidelines for additional Track Plates for Sweeps may cause damage to the Floor.









IMPORTANT!

NORMAL Support Chalkline SPACING

= SUPPORT ROW SPACING

	X-100		0)		0 0		0/		y	S	TAN	IDAF	RD Gr	ain Bi	ns	o,			y,					
_	Eave Height	11'		15'	18'		22'	26'	29'		33'	37'	40'	48'	51'	59'	62'	70'	73'	81'	84'	88'	95'	99'
ete	44" Tiers	3	e com	4	5	- 07	6	7	8	373 602 1	9	10	11	12-13	14	15-16	17	18-19	20	21-22	23	24	25-26	27
e	32" Rings	4	5	6	7	8	9	10	11	12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37
E	42' [12 802]	34	30	27	26	25	25	24	23	23	22	21	20	19	18	18	17	16	16	15	15	15	14	14
ā	48' [14 630]	33	29	26	24	23	22	22	21	21	20	20	19	18	17	16	16	15	15	14	14	13	13	13
ō	54' [16 459]	31	27	24	22	21	20	20	19	19	18	18	17	17	16	15	15	14	14	13	13	12	12	12
Ξ	60' 18 288)	29	26	24	22	20	19	18	18	17	17	17	16	15	15	14	14	13	13	13	12	12	11	N.
=	72' [21 946]	27	24	22	20	18	17	16	15	15	15	15	14	14	13	13	12	12	12	11	11	11	10	10
B	75' [22 860]	26	23	21	20	18	17	16	15	15	14	14	14	13	13	12	12	12	11	11	11	10	10	10
	78' [23 774]	25	23	21	19	18	17	16	15	14	14	14	13	13	12	12	12	11	11	11	10	10	10	10
			1									1									1			

See page 8 and Figure 2. use 18" [457] CENTER Spacing Between Plank Splices.

See Page 9 and Figure 3. Use 12" [305] CENTER Spacing Between Plank Splices. See Page 10 and Figure 4 [229] Use 9" [229] CENTER Spacing Between Plank Splices.

		RE	CIRC	ULA	ATIN	G G	rain	Bins	,			
bs.	Eave Height	11'	C 8	15'	18'	S =	22'	26'	29'	0-3	33'	37'
)iameter	44" Tiers	3		4	5		6	7	8		9	10
E	32" Rings	4	5	6	7	8	9	10	11	12	13	14
Ö	42 [12 802]	34	30	27	24	22	20	18	17	16	15	14
Bi	48' [14 630]	32	28	25	23	21	19	18	17	15	15	14
ш	54' [16 459]	30	27	24	22	20	19	17	16	15	14	13

in. = mm	in. = mm	in. = mm	in. = mm
9 [229]	15 /3817	21 /5337	28 [711]
10 [254]	16 [406]	22 [559]	29 [737]
11 [280]	17 [432]	23 [584]	30 [762]
12 [305]	18 [457]	24 [610]	31 [787]
13 [330]	19 [483]	25 [635]	32 [813]
14 [356]	20 [508]	26 [660]	33 [838]
		27 [686]	34 [864]



See page 8 and Figure 2. use 18" [457] CENTER Spacing Between Plank Splices. See Page 9 and Figure 3. Use 12" [305] CENTER Spacing Between Plank Splices.

IMPORTANT!

Marking Support Chalklines on Spliced Floors 42' - 78'
Snap parallel Support Chalklines according to the instructions below and the Support Chalkline Spacing Chart on the next page.

Spliced Floors have a "Center lane" - from the Fan Transition to the Unload - where a SPECIAL Chalkline spacing will usually differ form the NORMAL Chalkline spacing outside that area. This SPECIAL spacing positions **Support Rows on either side of the splice Plank.**

CAUTION!



Spacing increments for Chalklines in this area will be at 9, 12 and under splice at 14 and 22 inches From Center chalkline Because Plank Splices are 36" apart. There should be a row of supports on either side of the spliced plank 4 Inches from spliced line and one row of supports 4 inches past the spliced line

When 9" or 18" spacing is used, a row of Supports will fall **directly on the Centerline** between the Fan Transition and Center Sump.

Refer to the **Support Chalkline Spacing Chart** on the next page. It shows which spacing group (A,B or C) your Spliced Floor falls in. Locate that spacing group on page 8, 9 or 10. Follow the instructions there.

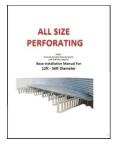
Between the Center Sump to the Unload Sidewall, a row of Supports is set as close as possible on each side of the Unload Auger.

After you have marked the SPECIAL Chalklines in the above "Center lane" area: Resume marking Chalklines according to NORMAL spacing outside the Splice area. Use the NORMAL distance shown on the Support Chalkline Spacing Chart. Do this until you have marked the entire Floor area from sidewall to sidewall. It is very important that the spacing specifications be followed. Failure to follow this instruction could result in Floor damage.

CAUTION!



When all Chalklines are drawn correctly according to the above guidelines and either Figure 2, 3 or 4, you are then ready to install Floor Supports as shown in the Base Floor Manual.





FLOOR INSTALLTION MANUAL UPDATE



When Installing Floors With Spliced Planks

CAUTION!

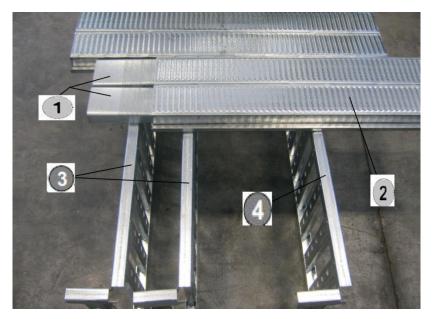


When there is a spliced plank be sure to place another Row 16" From center Chalkline and another Row 20" from the center Chalkine. These rows help support the spliced plank use the NORMAL chalkline spacing from there on.

See Figure 1 on this page. Failure to do so can cause damage to floor and auger

Figure 1.

1	Splices
2	Split Plank
3	Syntiro support spaced 4" apart
4	Syntiro spaced at NORMAL
	Spacing From Closest Row
	at Splice Line

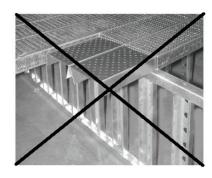


CAUTION!



<u>**DO NOT**</u> place the supports with only one row under the spliced board as in **Figure 2** of this page.

Figure 2.



Group A

Floors with NORMAL Chalkline Spacing 18" (457) or greater:

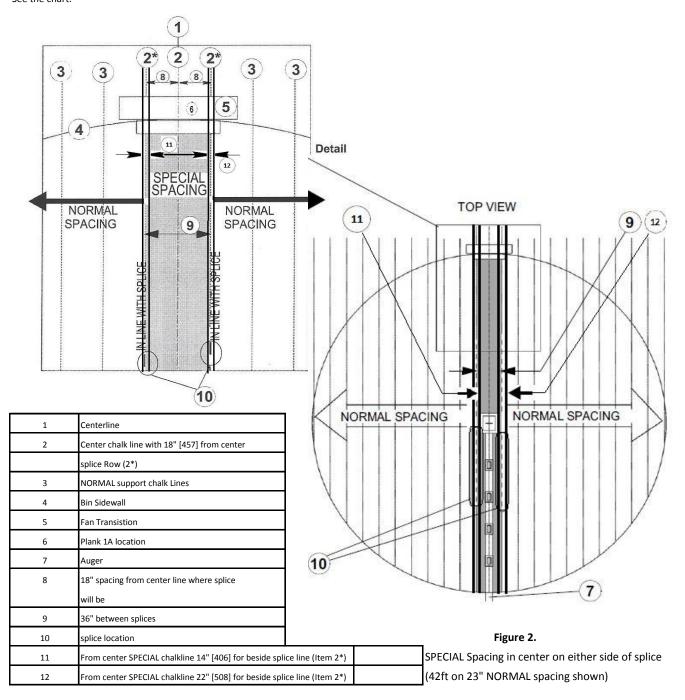
Requires one (1) Support Row on the Centerline (from the Transition

to the Center Sump), and on Chalkline on either side at 14" [406] (item 11) and at 22"[508] (item 12)

this locates two (2) Support Rows (Item 2*) on either side of the splice plank 4 inches before the Splice line and 4 inches after the splice line.

See Figure 2.

From the Center Sump to the Unload exit, on most of these Floors there will be two (2) additional rows of supports one on each side of the unload See the chart.



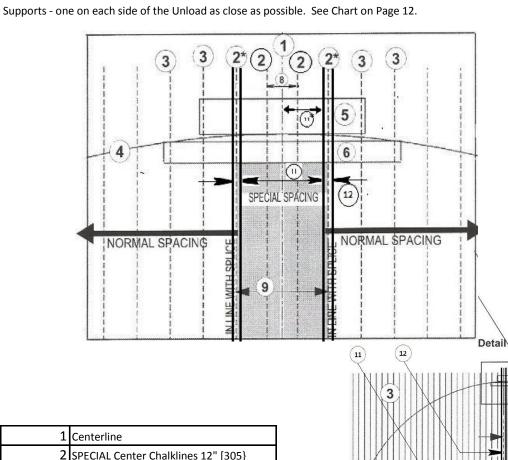
Group B

Floors with NORMAL Chalkline spacing 12" - 17" (305 - 432):

require two (2) center Support Rows spaced 12" apart and two (2) rows spaced at 14" [355] (Item 11) from centre line. two (2) rows spaced at 22" [559] (Item 12) from centre line

This locates two (2) Support rows (Item 2*) directly beside the Spliced planks 2" on either side of the splice plank

See Figure 3 below. From the Center Sump to the Unload exit, there will be two (2) additional rows of



1	Centerline
2	SPECIAL Center Chalklines 12" [305}
	apart; * these chalklines support
	splices at 14" [355] and 22" [559] from
	centerline
3	NORMAL Support chalk lines
4	Bin Sidewall
5	Fan Transition
6	Plank 1A location
7	Auger
8	12" [305] between SPECIAL chalklines
9	36" [914] between Splices
10	Splice location
11	28" Special Spacing between splices
	14" [355] From Centerline * these
	chalklines support splices
12	22" [559] support spacing from center
	line

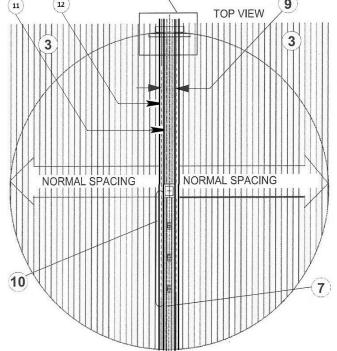


Figure 3.SPECIAL spacing in center on either side of splice 60ft on 13" spacing shown

Group C

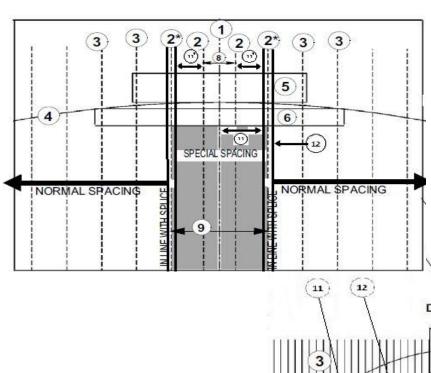
Floors with NORMAL Chalkline spacing 9" - 11" (229 - 280):

require **five** (5) **center** Chalkline Support Rows spaced 9" apart. One row will be down

the Centerline from the Fan Transition to the Center Sump. From chalkine (Item 2) measure 5" for the next support row (Item 2*) under the Splices 2" on either side See **Figure 4** below.

From the Center Sump to the Unload exit, there will be two (2) additional rows of

Supports - one on each side of the Unload. See Details on Page 12.



1	Centerline
2	Special Center chalkline 9" [229]
	apart; * These Chalklines support
	Splices
3	NORMAL Support Chalklines
4	Bin sidewall
5	Fan Transition
6	Plank 1A Location
7	Auger
8	9" Between special Chalklines
9	36" [914] between Splices
11	SPECIAL center chalkline 14" [355]
	from center line; * 5" from Item 8
	Chalkline these chalklines support
	splice planks
12	22" [508] support spacing from center
	chalkline

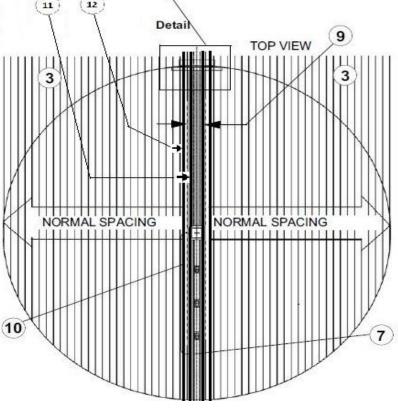


Figure 4.

SPECIAL spacing in Center: Chalklines 9" apart
72' on 11" Standard Spacing Shown

Start Center Support Rows under Plank 1A (at Transition)

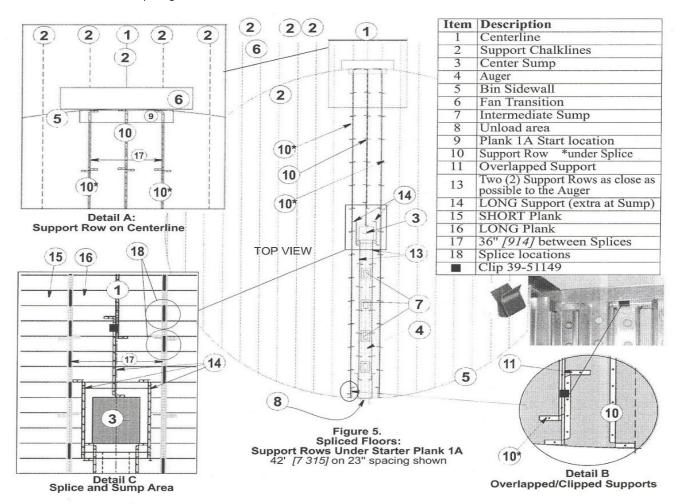
Tilt the Support Row upright and set it on one of the Chalklines in the "center lane." Extend this row wall-to-wall. **Refer to your diameter Diagram** on Pages 16-60 of this Supplement.

All Center rows under Plank #1A will be full-length from bin wall to bin wall, with the exception of those which stop at the Center Sump. **Clip overlapped Supports** together at the top as shown in Details B and C, **Figure 5.**

IMPORTANT!

Finish ALL SUPPORT ROWS in the "Center lane." Finish any additional rows that fall under Plank 1A.

Extend the middle Support Rows to the Center Sump. Between the Center Sump and Unload, the amount of extra support needed is determined the NORMAL Chalkline Spacing of the floor.



CAUTION!

Add Support Rows at the Center Sump to the Unload



Additional Auger Support is required on larger Spliced Floors. Use the following Chart to determine additional Auger Support Row treatments according to your Floor's NORMAL Support Spacing. Failure to follow this instruction could cause damage to the floor and/or Auger.

Sump/Auger Support Rows determined by NORMAL Support Row Spacing

H	ave eight	11'		15'	18'		22'	26'	29'		33'	37'	40'	48'	51'	55' - 59'	62'	66'	70' - 73'	77'	81' - 84'	88'	92' - 95'	99'
44'	' Tiers	3		4	5		6	7	8		9	10	11	12-13	14	15-16	17	18	19-20	21	22-23	24	25-26	27
32"	Rings	4	5	6	7	8	9	10	11	12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37
42'	[12 802]	34	30	27	26	25	25	24	23	23	22	21	20	19	18	18	17	16	16	15	15	15	14	14
48'	[14 630]	33	29	26	24	23	22	22	21	21	20	20	19	18	17	16	16	15	15	14	14	13	13	13
54'	[16 459]	31	27	25	22	21	20	20	19	19	18	18	17	17	16	15	15	14	14	13	13	12	12	12
60'	18 288]	29	26	24	22	20	19	18	18	17	17	17	16	15	15	14	14	13	13	13	12	12	11	11
72'	[21 946]	27	24	22	20	18	17	16	15	15	15	15	14	14	13	13	12	12	12	11	11	11	10	10
75'	[22 860]	26	23	21	20	18	17	16	15	15	14	14	14	13	13	12	12	12	11	11	11	10	10	10
78'	[23 774]	25	23	21	19	18	17	16	15	14	14	14	13	13	12	12	12	11_	_11	. 11	10	10	10	10

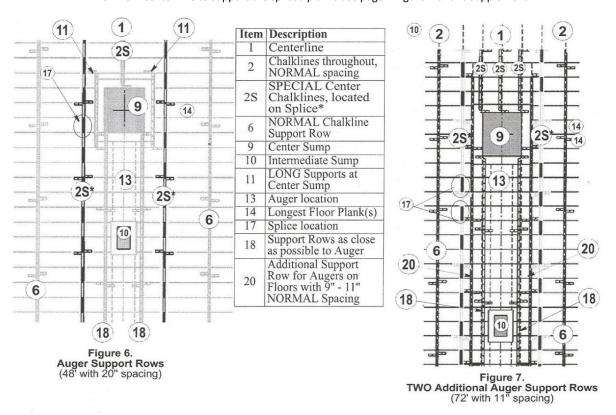
If your floor falls within the **WHITE** (unshaded) area of Spacing 18" (457) or greater, refer to **Figures 28-29** on Page 26 of the Base Floor Manual.

If your floor falls within the middle **SHADED** area of Spacing 12" - 17"(305-432) place a full row of Supports along each side of the Auger (Item 18), as close as possible to the Auger, from the Center Sump to the Unload area. See **Figure 6.**

If your Floor falls within the **DARK** area with Spacing 11" (279) or less, place a full row of Supports along each side of the Auger (Item 18), as close as possible to the Auger.

Also place another full row of Supports **between** that row and the next Chalkline row.

See Item 20. **Figure 7** Make sure there is one row placed 16" from center line and one row placed 20" From center line to support the spliced planks see page 7 Figure 1 of this supplement



When you have assembled Support Rows for all the Chalklines under Plank 1A, running from the Fan Transition Sidewall to the Unload Sidewall, proceed to **Step 4: Set two(2) Support Half Circles around the Sidewall"** on Pages 17-19 in the Base Manual.

Splices

IMPORTANT!

ALTERNATE (STAGGER) Two-Piece Long and Short Planks (36" from one side of the Grain Bin to the other) so the Splices are not next to each other. Failure to do this could cause damage to the Floor. See Figures 8 and 9.

CAUTION!

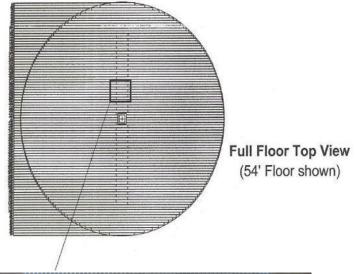
SUPPORT THE SPLICES



Under Two-Piece Planks, place 1 row of Supports 16" from center chalkline and 1 Row at 20" (where ends of the Short and Long Plank butt together). See Figure 8.

Failure to follow this rule will result in Floor damage.

1	Splices
2	spliced plank
3	Syntiro Support
4	Syntiro support under each spliced plank
	one at 16" from center chalkline and one at
	20" from center chalkline





Wrong Installation: ---->

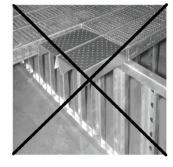


Figure 8.Support Row Under Splice

A Floor **Splice Channel** is 11 7/8" long. At **all** Splice points, center a pair of Floor Splice Channels **inside** the Planks to **join** the butted Floor Planks. See **Figure 9**.

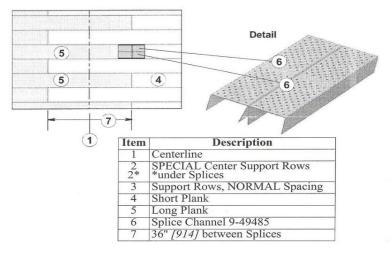


Figure 9.
Splice Channel Placement in Typical Staggered Splice (Top View)

IMPORTANT!

ALTERNATE (STAGGER) Two-Piece Long and Short Planks (36" from one splice to the other) so the Splices are not next to each other. Failure to do this could cause damage to the Floor.

Floor Drill Screws per Plank are used from above to secure each Splice Channel. See **Figure 10.**

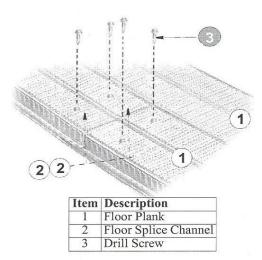
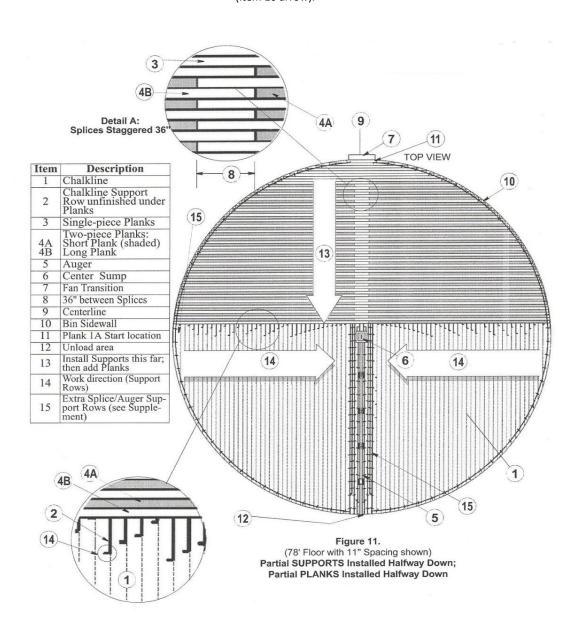


Figure 10. Secure the Splice

Managing Longer Support Rows and Longer Planks

It may be beneficial to install **only the first half** of each Support row running toward the Unload end **before** starting Plank installation. Installing the first half of the Planks onto the Supports is also an option. See **Figure 11**.

Avoid getting "walled in" by finished Support rows at the Sidewall. It is recommended that you assemble and stand Support Rows from the outside and move toward the center (Item 16 arrow).



42' FLOOR

Total Planks per Grain Bin = See Figure 12.

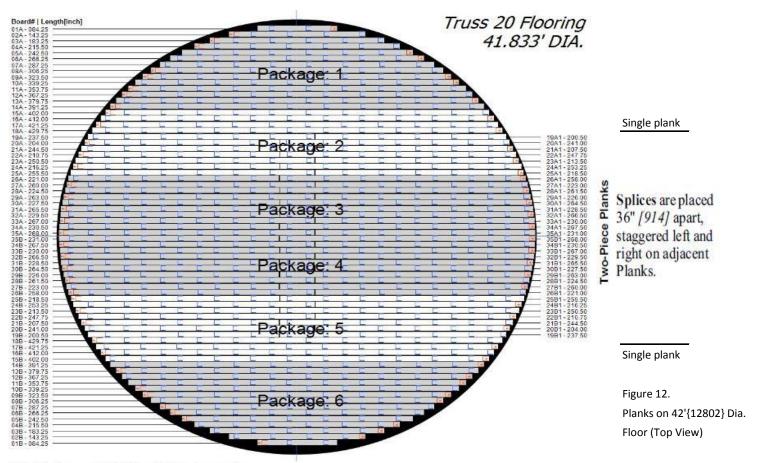
Floor Screw Kit Part Number: 9-15994

The last three digits of the Plank Part No. indicate length of the Plank

in inches. Plank Numbers 19 thru 35 are two pieces.

IMPORTANT!

Study and follow the steps for Support installation (Pages 13-22) and the steps for Plank installation (Pages 23-27) of the Base Floor Manual.



Note: All edge supports MUST be within 6 inches of wall.

				NC	RI	MA	L	Ch	alk	lin	e S	up	poi	t Sp	aci	ng							
Eave	Height (feet)	11'		15'	18'		22'	26'	29'		33'	37'	40'	44'- 48'	51'	55'- 59'	62'	66'	70'- 73'	77'	81'- 84'	88'	92'- 95'
Measurements in	44" TIERS	3	1	4	5		6	7	8		9	10	11	12-13	14	15-16	17	18	19-20	21	22-23	24	25-26
INCHES	32" RINGS	4	5	6	7	8	9	10	11	12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36
	Standard Bin	34	30	27	26	25	25	24	23	23	22	21	20	19	18	18	17	16	16	15	15	15	14
A	C-C	8.9			G	roup	A: 18	"SPI	CIAL	Cen	ter Sp	pading	(Page	6).			Grou	p B: 12	"SPEC	AL Ce	nter Spa	cing (P	age 7).
	2 2 22	34	30	27	24	22	20	18	17	16	15	14				-	570						
	Recirculating Bin	G	roup	A: 18 Spacir	" SPE	CIAL age 6	Cent).	er	CIA	up B: L Cer ng (P	nter S	pac-											
	25							Su	pp	ori	C	oui	nts										
STANDARD	LONG	221	237	257	263	265	265	277	285	285	295	305	315	329	343	343	368	382	382	402	402	402	426
Bin	SHORT	6	12	12	8	12	12	14	14	14	14	12	16	12	16	16	14	16	16	14	14	14	16
RECIRCULATING	LONG	221	237	257	277	295	315	343	368	382	402	426											
Bin	SHORT	6	12	12	14	14	16	16	14	16	14	16											

42' Diameter Floor Numbers and Plank Measurements

Package #1	#2	#3	#4	#5	#6	A
1 of 6	2 of 6	3 of 6	4 of 6	5 of 6	6 of 6	/(2S) 1
Length	Length	Length	Length	Length	Length	28
18A - 429.75					18B - 429.75	
17A - 421.25					17B - 421.25	
16A - 412.00					16B - 412.00	
15A - 402.00					15B - 402.00	
14A - 391.25	25A - 255.50	35A - 268.00	35B1- 268.00	25B1- 255.50	14B - 391.25	
13A - 379.75	25A1- 218.50	35A1- 231.00	35B - 231.00	25B - 218.50	13B - 379.75	- C
12A - 367.25	24A - 216.25	34A - 230.50	34B1- 230.50	24B1- 216.25	12B - 367.25	B = =
11A - 353.75	24A1- 253.25	34A1- 267.50	34B - 267.50	24B - 253.25	11B - 353.75	- 07
10A - 339.25	23A - 250.50	33A - 267.00	33B1- 267.00	23B1- 250.50	10B - 339.25	-
9A - 323.50	23A1- 213.50	33A1- 230.00	33B - 230.00	23B - 213.50	9B - 323.50	
8A - 306.25	22A - 210.75	32A - 229.50	32B1- 229.50	22B1- 210.75	8B - 306.25	
7A - 287.25	22A1- 247.75	32A1- 266.50	32B - 266.50	22B - 247.75	7B - 287.25	
6A - 266.25	21A - 244.50	31A - 265.50	31B1- 265.50	21B1- 244.50	6B - 266.25	
5A - 242.50	21A1- 207.50	31A1- 228.50	31B - 228.50	21B - 207.50	5B - 242.50	9
4A - 215.50	20A - 204.00	30A - 227.50	30B1- 227.50	20B1- 204.00	4B - 215.50	
3A - 183.25	20A1- 241.00	30A1- 264.50	30B - 264.50	20B - 241.00	3B - 183.25	
2A - 143.25	19A - 237.50	29A - 263.00	29B1- 263.00	19B1- 237.50	2B - 143.25	(13)
1A - 84.25	19A1- 200.50	29A1- 226.00	29B - 226.00	19B - 200.50	1B - 84.25	18
		28A - 224.50	28B1- 224.50			
		28A1- 261.50	28B - 261.50			
		27A - 260.00	27B1- 260.00			0
		27A1- 223.00	27B - 223.00			
		26A - 221.00	26B1- 221.00			
		26A1- 258.00	26B - 258.00			
Pkg. length [ft]	(Total length 273	24.50 inch / 227	7.04 ft)			
323.60	405.50	409.42	409.42	405.50	323.60	0
Pkg. weight [lb]	(Total weight 352)	9.41 lb)				
501.59	628.53	634.60	634.60	628.53	501.59	
Splice qty. (Tota	l splices 34)					
0	7	10	10	7	0	
APCalc 2.9.5						

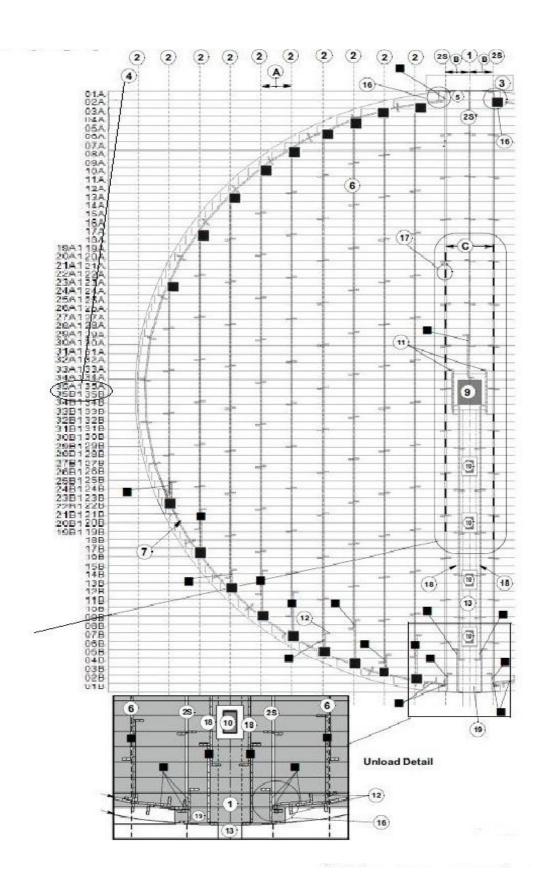
Figure 13. Splice and sump detail

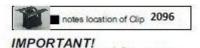
25

CAUTION!



Make sure there are a row of supports under each spliced plank 16" from center chalk line and 24" from center chalk line on both sides of the auger. Refer to Page 7, 8, 9 and 10 on the Install update page





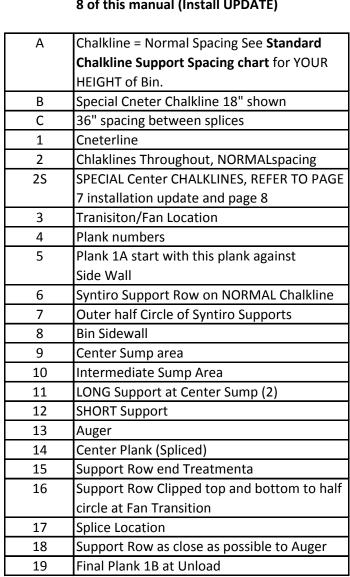
IMPORTANT! Clip overlapped Supports together at the top, as far back as possible on the Support Leg.



CAUTION!

ALTERNATE (STAGGER)
Long and Short Planks
(from one side of the
Grain Bin to the other) so
the Splices are not next to
each other. Failure to do
this could cause damage
to the Floor.

Place a Row of supports at 16" and 20" from Centerline so that the splice is supported on both sides of the plank. Refer to page 7 and 8 of this manual (Install UPDATE)



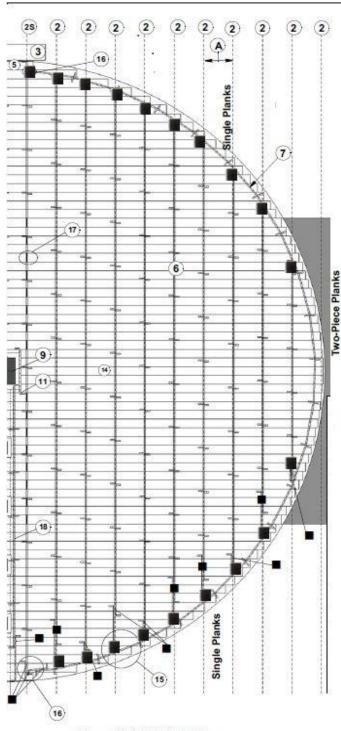


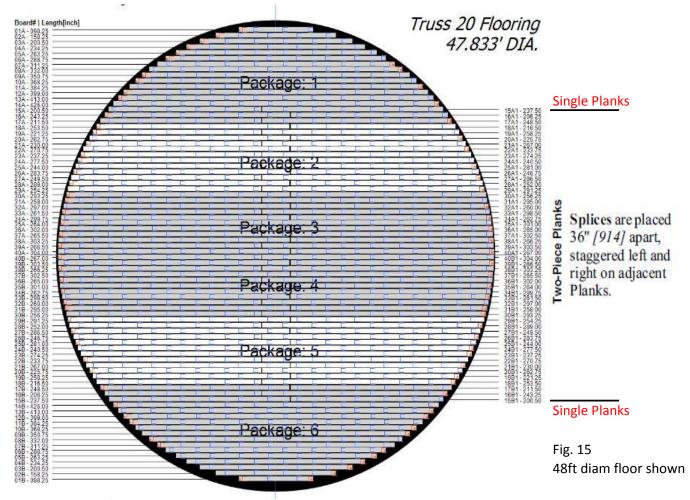
Figure 14. 42' [12 802] Dia.
Floor Overview, Top View, Right Half
23" [584] Support Spacing Example shown (12-Ring Bin);
See the Chart on Page 5 or 16 of this Manual
for Support Spacing for your height Bin

48' Floor

Total Planks per Grain Bin = 80. See Figure 15. Plank Numbers 15 thru 40 are two pieces Planks

IMPORTANT!

Study and follow the steps for Support installation (Pages 13-22) and the steps for Plank installation (Pages 23-27) of the Base Floor Manual.



Note: All edge supports MUST be within 6 inches of wall.

				NC	RI	MΑ	L	Ch	alk	lin	e S	up	poi	t Sp	aci	ng							
Eave	Height (feet)	11'		15'	18'		22'	26'	29'		33'	37'	40'	44'- 48'	51'	55'- 59'	62'	66'	70'- 73'	77'	81'- 84'	88'	92'- 95'
Measurements in	44" TIERS	3	1	4	5		6	7	8		9	10	11	12-13	14	15-16	17	18	19-20	21	22-23	24	25-26
INCHES	32" RINGS	4	5	6	7	8	9	10	11	12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36
	Standard Bin	34	30	27	26	25	25	24	23	23	22	21	20	19	18	18	17	16	16	15	15	15	14
A	C-C	0.00			G	roup	A: 18	"SPI	ECIAL	Cen	iter Sp	ading	(Page	6).		- 3	Grou	p B: 12	"SPECI	AL Ce	nter Spa	cing (P	age 7).
		34	30	27	24	22	20	18	17	16	15	14					200						
	Recirculating Bin	G	roup /			CIAL ge 6)		er	CIA	L'Cer	12" S nter S age 7	pac-											
	2							Su	pp	ori	C	oui	nts										
STANDARD	LONG	221	237	257	263	265	265	277	285	285	295	305	315	329	343	343	368	382	382	402	402	402	426
Bin	SHORT	6	12	12	8	12	12	14	14	14	14	12	16	12	16	16	14	16	16	14	14	14	16
RECIRCULATING	LONG	221	237	257	277	295	315	343	368	382	402	426	8										
Bin	SHORT	6	12	12	14	14	16	16	14	16	14	16											

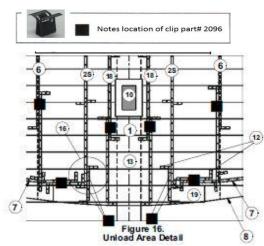
48' Diameter Floor Numbers and Plank Measurements detail

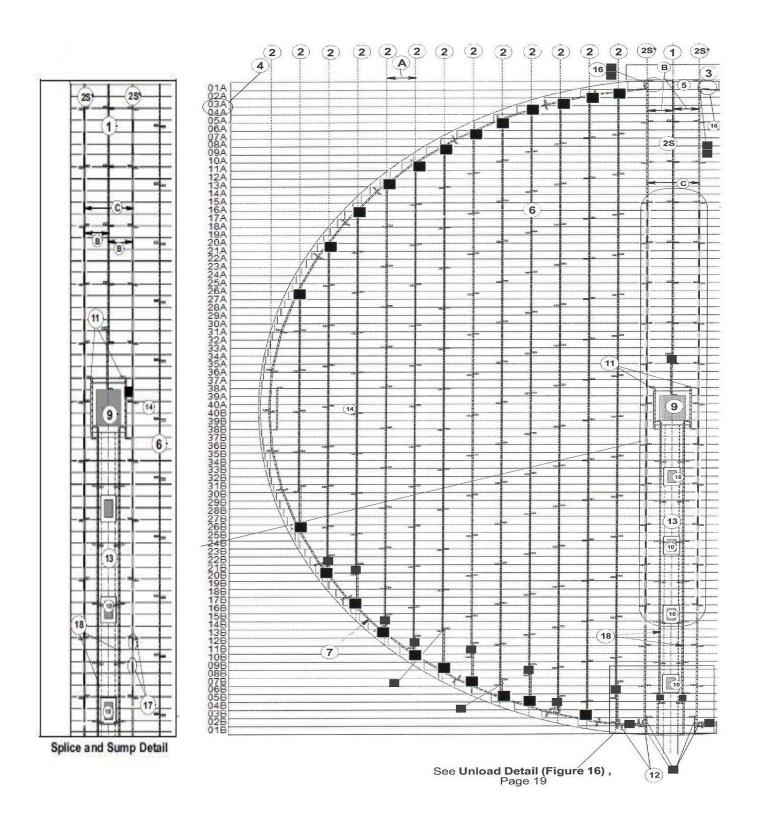
Package #1 1 of 6	#2 2 of 6	#3 3 of 6	#4 4 of 6	#5 5 of 6	#6 6 of 6
1 01 0	2 01 0	3 01 0	4 01 0	5 01 0	0 01 0
Length	Length	Length	Length	Length	Length
17A - 211.50		40A - 304.00	40B1- 304.00	29B1- 254.25	17B1- 211.50
17A1- 248.50		40A1- 267.00	40B - 267.00	29B - 291.25	17B - 248.50
16A - 243.25		39A - 266.50	39B1- 266.50	28B1- 289.00	16B1- 243.25
16A1- 206.25		39A1- 303.50	39B - 303.50	28B - 252.00	16B - 206.25
15A - 200.50		38A - 303.25	38B1- 303.25	27B1- 249.50	
15A1- 237.50		38A1- 266.25	38B - 266.25	27B - 286.50	
14A - 426.00		37A - 265.50	37B1- 265.50	26B1- 283.75	
13A - 413.00	26A1- 246.75	37A1- 302.50	37B - 302.50	26B - 246.75	13B - 413.00
12A - 399.00		36A - 302.00	36B1- 302.00	25B1- 244.00	12B - 399.00
11A - 384.25	25A1- 281.00	36A1- 265.00	36B - 265.00	25B - 281.00	11B - 384.25
10A - 368.25	24A - 277.50	35A - 264.00	35B1- 264.00	24B1- 277.50	10B - 368.25
9A - 350.75	24A1- 240.50	35A1- 301.00	35B - 301.00	24B - 240.50	9B - 350.75
8A - 332.00	23A - 237.25	34A - 299.75	34B1- 299.75	23B1- 237.25	8B - 332.00
7A - 311.25	23A1- 274.25	34A1- 262.75	34B - 262.75	23B - 274.25	7B - 311.25
6A - 288.75	22A - 270.75	33A - 261.50	33B1- 261.50	22B1- 270.75	6B - 288.75
5A - 263.25	22A1- 233.75	33A1- 298.50	33B - 298.50	22B - 233.75	5B - 263.25
4A - 234.25	21A - 230.00	32A - 297.00	32B1- 297.00	21B1- 230.00	4B - 234.25
3A - 200.50	21A1- 267.00	32A1- 260.00	32B - 260.00	21B - 267.00	3B - 200.50
2A - 158.25	20A - 262.75	31A - 258.00	31B1- 258.00	20B1- 262.75	2B - 158.25
1A - 98.25	20A1- 225.75	31A1- 295.00	31B - 295.00	20B - 225.75	1B - 98.25
	19A - 221.25	30A - 293.25	30B1- 293.25	19B1- 221.25	
	19A1- 258.25	30A1- 256.25	30B - 256.25	19B - 258.25	
	18A - 253.50			18B1- 253.50	
	18A1- 216.50			18B - 216.50	
Pkg length [ft]	(Total length 358	29 50 inch / 298	5 79 Ft)		
464.60	512.25	516.04	516.04	512.25	464.60
404,00	312.23	310.04	310.04	312.23	404.00
	(Total weight 604				
941.29	1037.82	1045.50	1045.50	1037.82	941.29
Splice qty. (Tota	al splices 52)				
3	12	11	11	12	3

Flashing Oty: 97

APCalc 2.9.5

g
at





48' Floor

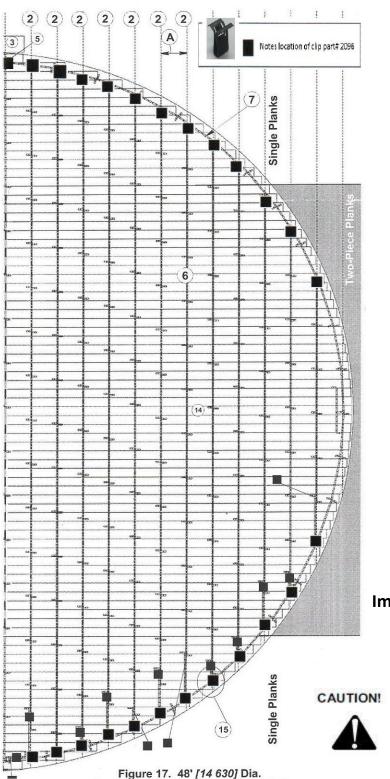


Figure 17. 48' Diam

20" Support spacing example shown(for 33-37ft high bin)

See the chart on page 5 or 20 of this Manual for Support Spacing for YOUR HEIGHT of bin.

Α	Chlakline = NORMAL Spacing: See
	Standard Chalkline Support Spacing
	Chart for YOUR HEIGHT of Bin.
В	SPECIAL Center Chalkline shown
	Refer to update page & double row
	under Splice plank. page 7
С	36" Spacing between splices.
1	Centerline
2S	Refer to Page 7 for Update on spacing
	under spliced planks
3	Transition/Fan location
4	Plank Numbers
5	Plank 1A: Start with thei plank against
	the bin Wall
6	SYNTIRO Support Row on NORMAL
	Chalkline Spacing
7	Outer Half Circle of SYNTIRO Supports
8	Bin Sidewall
9	Center Sump Area
10	Intermediate Sump Area
11	LONG Support at Center Sump (2)
12	SHORT Support
13	Auger
14	Center Splice Plank
15	Support Row end Treatments to be clipped
16	Support Row clipped (top and bottom)
	to Half Circle at Fan Tranisiton
17	Splice Location
18	Support Row as close as possible to auger
19	Final Plank 1B at Unload

Important!

Clip overlapped Supports together at the top, as far back as possible on the Support Leg.

ALTERNATE (STAGGER) Long and Short planks (from one side of the Bin to the other) so the Splices are not next to each other. Failure to do so could cause damage to the Floor.

<u>Place a row of Supports on each side of the splices</u> as on the update page 7 of this manual.

54' Floor

Total Floor planks per 54' Bin = 90

see Figure 18.

Plank numbers 13 through 45 are two pce planks.

IMPORTANT!

Study and follow the steps for Support Installation (pages 13-22) and the steps for Plank Installation (pages 23-27) of the Base Floor Manual.

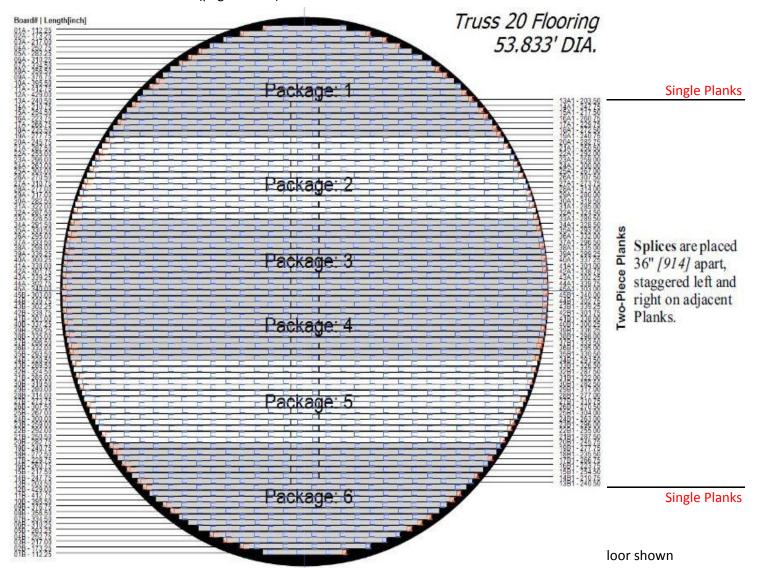


Figure 18. 54' diam floor planks (Top View)

				NC	RI	MA	L	Ch	alk	lin	e S	ur	poi	rt Sp	aci	ng							
Eave	Height (feet)	11'		15'	18'		22'	26'	29'		33'	37'	40'	44'- 48'	51'	55'- 59'	62'	66'	70'- 73'	77'	81'- 84'	881	92'- 95'
Measurements in	44" TIERS	3	1	4	5		6	7	8	1	9	10	11	12-13	14	15-16	17	18	19-20	21	22-23	24	25-26
INCHES	32" RINGS	4	5	6	7	8	9	10	11	12	13	14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36
	Standard Bin	34	30	27	26	25	25	24	23	23	22	21	20	19	18	18	17	16	16	15	15	15	14
A	C-C	100			G	roup	A: 18	SPI	CIAL	Cen	nter S	pading	(Page	6).			Grou	p B: 12	SPEC	IAL Ce	nter Spa	cing (P	age 7).
	2 7 70	34	30	27	24	22	20	18	17	16	15	14					-						
	Recirculating Bin	G	roup /	A: 18' pacir	SPE	CIAL age 6	Cent	ter	CIA	L'Cer	12" S nter S age 7	pac-											
								Su	pp	or	t C	ou	nts										
STANDARD	LONG	221	237	257	263	265	265	277	285	285	295	305	315	329	343	343	368	382	382	402	402	402	426
Bin	SHORT	6	12	12	8	12	12	14	14	14	14	12	16	12	16	16	14	16	16	14	14	14	16
RECIRCULATING	LONG	221	237	257	277	295	315	343	368	382	402	426	8										
Bin	SHORT	6	12	12	14	14	16	16	14	16	14	16	8										

54' Floor Numbers and Plank Measurements

ackage #1	#2	#3	#4	#5	#6
1 of 6	2 of 6	3 of 6	4 of 6	5 of 6	6 of 6
Length	Length	Length	Length	Length	Length
19A - 277.75	33A - 326.50	45A - 340.00	45B1- 340.00	33B1- 326.50	19B1- 277.75
19A1- 240.75	33A1- 289.50	45A1- 303.00	45B - 303.00	33B - 289.50	19B - 240.75
18A - 235.50	32A - 287.50	44A - 302.75	44B1- 302.75	32B1- 287.50	18B1- 235.50
18A1- 272.50	32A1- 324.50	44A1- 339.75	44B - 339.75	32B - 324.50	18B - 272.50
17A - 266.75	31A - 322.00	43A - 339.25	43B1- 339.25	31B1- 322.00	17B1- 266.75
17A1- 229.75	31A1- 285.00	43A1- 302.25	43B - 302.25	31B - 285.00	17B - 229.75
16A - 223.75	30A - 282.50	42A - 301.75	42B1- 301.75	30B1- 282.50	16B1- 223.75
16A1- 260.75	30A1- 319.50	42A1- 338.75	42B - 338.75	30B - 319.50	16B - 260.75
15A - 254.50	29A - 317.00	41A - 338.00	41B1- 338.00	29B1- 317.00	15B1- 254.50
15A1- 217.50	29A1- 280.00	41A1- 301.00	41B - 301.00	29B - 280.00	15B - 217.50
14A - 210.75		40A - 300.25	40B1- 300.25	28B1- 277.00	14B1- 210.75
14A1- 247.75		40A1- 337.25	40B - 337.25	28B - 314.00	14B - 247.75
13A - 240.50		39A - 336.25	39B1- 336.25	27B1- 310.75	13B1- 240.50
13A1- 203.50	27A1- 273.75	39A1- 299.25	39B - 299.25	27B - 273.75	13B - 203.50
12A - 429.00		38A - 298.00	38B1- 298.00	26B1- 270.50	12B - 429.00
11A - 412.75	26A1- 307.50	38A1- 335.00	38B - 335.00	26B - 307.50	11B - 412.75
10A - 395.50		37A - 333.50	37B1- 333.50	25B1- 304.00	10B - 395.50
9A - 376.75	25A1- 267.00	37A1- 296.50	37B - 296.50	25B - 267.00	9B - 376.75
8A - 356.50	24A - 263.00	36A - 295.00	36B1- 295.00	24B1- 263.00	8B - 356.50
7A - 334.50	24A1- 300.00	36A1- 332.00	36B - 332.00	24B - 300.00	7B - 334.50
6A - 310.25	23A - 296.00	35A - 330.50	35B1- 330.50	23B1- 296.00	6B - 310.25
5A - 283.25	23A1- 259.00	35A1- 293.50	35B - 293.50	23B - 259.00	5B - 283.25
4A - 252.75	22A - 255.00	34A - 291.50	34B1- 291.50	22B1- 255.00	4B - 252.75
3A - 217.00	22A1- 292.00	34A1- 328.50	34B - 328.50	22B - 292.00	3B - 217.00
2A - 173.25	21A - 287.50		A. 37-34V . 37-344 A. A.	21B1- 287.50	2B - 173.25
1A - 112.25	21A1- 250.50			21B - 250.50	1B - 112.25
	20A - 245.75			20B1- 245.75	
	20A1- 282.75			20B - 282.75	
			w		
	Total length 45478.50			C74 17	EOC 01
586.31	674.17	634.46	634.46	674.17	586.31
	Total weight 7678.29				
1187.87	1365.86	1285.41	1285.41	1365.86	1187.87
plice qty. (Total	splices 66)				
7	14	12	12	14	7

Flashing Qty: 109

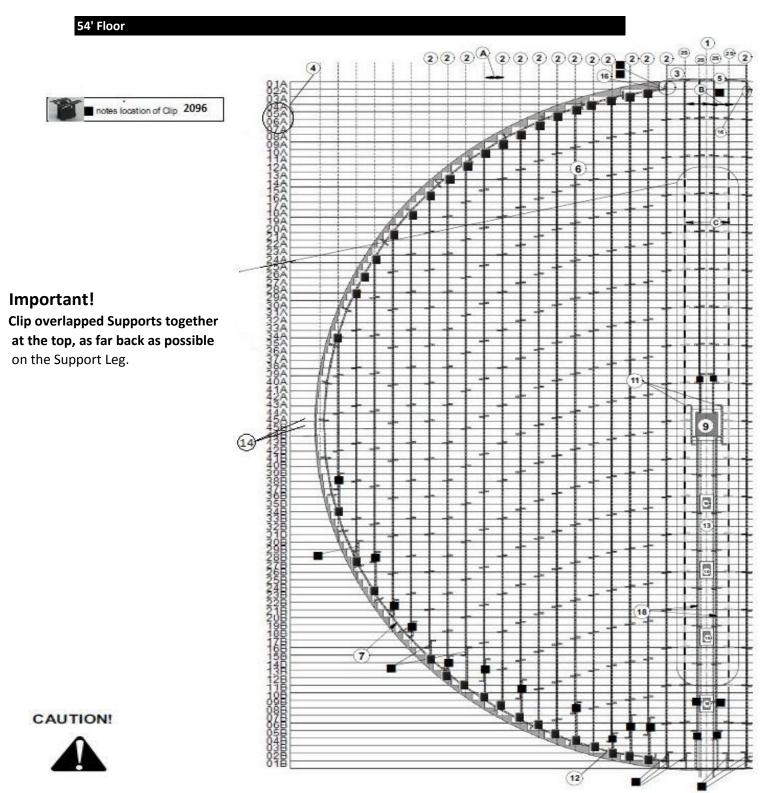


CAUTION!



Make sure there are a row of supports under each spliced plank 16" from center chalk line and 20" from center chalk line on both sides of the auger. Refer to Page 7, 8, 9 and 10 on the Install update page

25



ALTERNATE (STAGGER) Long and Short planks (from one side of the Bin to the other) so the Splices are not next to each other. Failure to do so could cause damage to the Floor.

<u>Place a row of Supports on each side of the splices</u> as on the update page 7 of this manual.

54' Floor

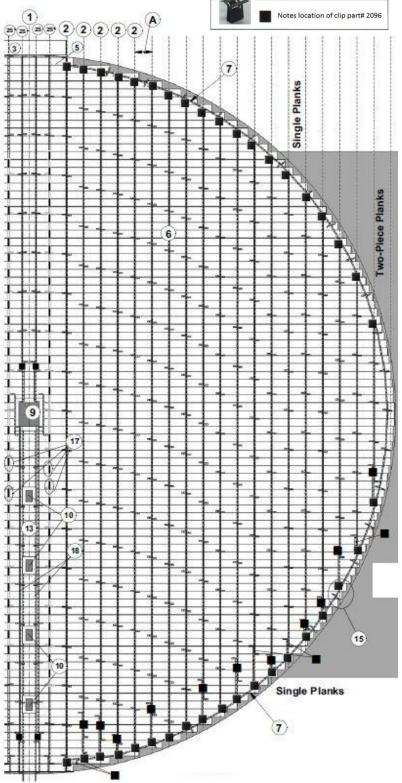


Figure 20. 54' Diam. Floor Overview, (top view)
15" Support Spacing Example shown (for 55'-59' high Bin)

Α	Chlakline = NORMAL Spacing: See
	Standard Chalkline Support Spacing
	Chart for YOUR HEIGHT of Bin.
В	SPECIAL Center Chalkline shown
	Refer to update page & double row
	under Splice plank. page 7
С	36" Spacing between splices.
1	Centerline
2	Chalkline Through out NORMAL Spacing
2S	Refer to Page 7 for Update on spacing
	under spliced planks for 2 Rows under splice
3	Transition/Fan location
4	Plank Numbers
5	Plank 1A: Start with thei plank against
	the bin Wall
6	SYNTIRO Support Row on NORMAL
	Chalkline Spacing
7	Outer Half Circle of SYNTIRO Supports
8	Bin Sidewall
9	Center Sump Area
10	Intermediate Sump Area
11	LONG Support at Center Sump (2)
12	SHORT Support
13	Auger
14	Center Splice Plank
15	Support Row end Treatments to be clipped
16	Support Row clipped (top and bottom)
	to Half Circle at Fan Tranisiton
17	Splice Location
18	Support Row as close as possible to auger
19	Final Plank 1B at Unload

CAUTION!



ALTERNATE (STAGGER) Long and Short planks (from one side of the Bin to the other) so the Splices are not next to each other. Failure to do so could cause damage to the Floor.

<u>Place a row of Supports on each side of the splices</u> <u>as on the update page 7 of this manual.</u>

Support Quantities L = LONG Supports S = SHORT Supports

					STA	STANDARD Bins	Sins			RECIR	RECIRCULATING Bins	G Bins
35	Eave	44	45,	48,	54'	,09	72'	75'	.87	45'	48.	54'
Rings	Height	Tiers	[12 802]	[14 630]	[16 459]	[18 288]	[21 946]	[22 860]	[23 774]	[12 802]	[14 630]	[16 459]
4	.11	3	221L+6S	278L+12S	365L+12S	464L+14S	690L+15S	773L+16S	869L+19S	221L+6S	288L+14S	369L+16S
2			237L+12S	306L+10S	L+10S 399L+16S	502L+16S	760L+19S	869L+14S	925L+13S	237L+12S	237L+12S 318L+10S	399L+16S
9	12.	4	257L+12S	330L+16S	441L+18S	536L+16S	822L+19S	927L+10S	991L+17S	257L+12S	257L+12S 344L+14S	441L+18S
7	.81	5	263L+8S	354L+10S	473L+14S	576L+18S	890L+17S	961L+20S	1085L+23S	277L+14S	366L+16S	473L+14S
80			265L+12S	366L+16S	L+16S 489L+20S	_	620L+24S 970L+29S 1057L+16S	1057L+16S	1137L+21S	295L+14S	295L+14S 396L+10S 507L+18S	507L+18S
6	.77.	9	265L+12S	374L+18S	L+18S 507L+18S	652L+16S	652L+16S 1030L+24S 1120L+18S 1202L+36S	1120L+18S	1202L+36S	315L+16S	426L+14S	529L+22S
10	.92	7	277L+14S	374L+18S	L+18S 507L+18S	684L+16S	684L+16S 1084L+34S 1182L+16S 1270L+34S	1182L+16S	1270L+34S	343L+16S	343L+16S 446L+12S	594L+16S
11	.62	8	285L+14S	396L+10S	5291-528	684L+16S	684L+16S 1152L+24S 1246L+28S 1350L+24S	1246L+28S	1350L+24S	368L+14S	472L+18S	620L+20S
12			285L+14S	396L+10S	529L+22S	724L+22S	724L+22S 1152L+24S 1246L+28S 1428L+34S	1246L+28S	1428L+34S	382L+16S	382L+16S 522L+18S	656L+20S
13	33.	9	295L+14S	406L+16S	+16S 563L+22S	724L+22S	724L+22S 1152L+24S 1330L+18S 1428L+34S	1330L+18S	1428L+34S	402L+14S	402L+14S 522L+18S	692L+24S
14	37.	9	305L+12S	406L+16S	+16S 553L+22S	724L+22S	724L+22S 1152L+24S 1330L+18S 1428L+34S	1330L+18S	1428L+34S	426L+16S	426L+16S 552L+16S	738L+24S
15.16	.01	11	315L+16S	426L+14S	.+14S 594L+16S	760L+26S	760L+26S 1222L+30S 1330L+18S 1526L+38S	1330L+18S	1526L+38S			
17.18	44.48.	12-13	329L+12S	446L+12S	594L+16S	800L+26S	800L+26S 1222L+30S 1418L+26S 1526L+38S	1418L+26S	1526L+38S			
19.20	51.	14	343L+16S	472L+18S	620L+20S	800L+26S	800L+26S 1306L+30S 1418L+26S 1642L+34S	1418L+26S	1642L+34S			
21.22	21.22 55:59"	15-16	343L+16S	494L+20S	L+20S 656L+20S	854L+20S	854L+20S 1306L+30S 1528L+24S 1642L+34S	1528L+24S	1642L+34S			
23.24	.79	17	368L+14S	494L+20S	L+20S 656L+20S	854L+20S	854L+20S 1398L+34S 1528L+24S 1642L+34S	1528L+24S	1642L+34S			
25.26	.99	18	382L+16S	522L+18S	.+18S 692L+24S	908L+24S	908L+24S 1398L+34S 1528L+24S 1813L+41S	1528L+24S	1813L+41S			
27-28	70.73.	19.20	382L+16S	522L+18S	692L+24S	-	908L+24S 1398L+34S 1681L+40S 1813L+41S	1681L+40S	1813L+41S			
2930	.11	21	402L+14S	552L+16S	738L+24S	908L+24S	908L+24S 1550L+39S 1681L+40S 1813L+41S	1681L+40S	1813L+41S			
3132	81.84.	22-23	402L+14S	562L+16S	L+16S 738L+24S	972L+32S	972L+32S 1550L+39S 1681L+40S 1979L+41S	1681L+40S	1979L+41S			
33.34	.88	24	402L+14S	586L+22S	790L+26S	972L+32S	972L+32S 1550L+39S 1837L+32S 1979L+41S	1837L+32S	1979L+41S			
35.36	95.36	25-26	426L+16S	586L+22S	790L+26S	1084L+30S	L+22S 790L+26S 1084L+30S 1694L+31S 1837L+32S 1979L+41S	1837L+32S	1979L+41S			
37	.66	27	426L+16S	586L+22S	790L+26S	1084L+30S	L+22S 790L+26S 1084L+30S 1694L+31S 1837L+32S 1979L+41S	1837L+32S	1979L+41S		98	350