



Channel - Lok™

BIN FLOORS & SUPPORTS

Installation & Owner's Manual

MAJOR BIN DIAMETERS

15'	18'	21'
24'	27'	30'
33'	36'	42'
48'	54'	60'
72'	75'	78'
90'	105'	

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<u>DATE</u>	<u>REVISIONS</u>	<u>PAGES</u>
01/10/2019	Updated warranty -----	4
	Updated SuperWave Supports installation instructions & spacing tables -----	18-23
11/13/2018	Updated Super Supports installation instructions -----	13-14
	Updated flashing installation instructions -----	26
	Updated instructions for supporting floor over unload system -----	27-28
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INTRODUCTION

This product was carefully designed to give years of dependable service and was manufactured with the finest materials available. This manual includes information relating to safety and installation and should be thoroughly read prior to installation of Channel-Lok bin floor and supports. Due to the scope of projects involving material handling equipment and the wide variety of situations, this manual cannot cover all aspects. Qualified civil engineers and contractors should be relied upon for site design, layout and construction. This manual is to be used as a guideline only. The reliability, safety and good service life of this product depends to a very large extent on the care taken in installing and otherwise preparing this product for its intended use.

NOTE: This manual is for bin diameters shown on front cover.

RECEIVING AND INSPECTION

Carefully inspect materials for damage as soon as they are received. Verify that quantities of parts or packages received correspond to quantities shown on packing slip. Report any damage or shortage to delivery carrier as soon as possible. Sukup Manufacturing Co.'s responsibility for damage to materials ended with acceptance by delivery carrier. Refer to bill of lading. Save all paperwork and documentation furnished with floor components.

NOTICE: Prior to installation, protect floor from weather.
Do not allow moisture to become trapped between any galvanized parts.

DISCLAIMER: Grain pressure can cause flooring to cup, especially in deeper grain (taller bins). Cupping does not constitute a floor failure, thus is not covered by Sukup Manufacturing Co. warranty.

NOTE: For instructions on installation of flush floor over aeration tunnel(s), see manual L14045, Flush Floor Aeration Installation & Owner's Manual.

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GRAIN HANDLING & MATERIAL HANDLING LIMITED WARRANTY

SUKUP MANUFACTURING CO. (Sukup) warrants to original retail purchaser that within time limits set forth, new equipment shall be free from defects in material and workmanship. A part will not be considered defective if it substantially fulfills performance specifications, such as cosmetic (appearance) issues that will not affect life of product. Should any part prove defective within the warranty period, the part will be replaced without charge F.O.B. Sukup Manufacturing Co., Sheffield, Iowa USA or Distribution Centers - Arcola, Illinois; Aurora, Nebraska; Defiance, Ohio; Jonesboro, Arkansas; Cameron, Missouri; Watertown, South Dakota. To obtain warranty, a copy of original invoice is required, see reverse side.

THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND OF ANY OTHER TYPE, WHETHER EXPRESS OR IMPLIED. Sukup neither assumes nor authorizes anyone to assume for it any other obligation or liability in connection with said part, and will not be liable for incidental or consequential damages. THE REMEDIES STATED HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE UNDER THIS LIMITED WARRANTY.

Sukup reserves the right to change specifications, add improvements or discontinue manufacture of any of its equipment without notice or obligation to purchasers of its equipment. This warranty gives you specific legal rights. You may also have other rights which vary according to state or province.

WARRANTY EXCLUSIONS - Labor, transportation, or any cost related to a service call is not provided by Sukup. This Limited Warranty does not apply to damage resulting from misuse, neglect, normal wear, accident or improper installation or maintenance. ITEMS NOT MANUFACTURED BY SUKUP (e.g. tires, belts, motors) ARE COVERED UNDER WARRANTIES OF THEIR RESPECTIVE MANUFACTURERS AND ARE EXCLUDED FROM COVERAGE UNDER THE SUKUP WARRANTY. Since the stirring down augers are so critical to the successful operation of the stirring machine, Sukup Manufacturing Co. will not warranty any machines unless they are equipped with Sukup down augers. SUKUP MANUFACTURING CO. MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO DOWN AUGERS LONGER THAN 20', INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Upon taking delivery of product, purchaser (dealer and/or end user) assumes responsibility for proper storage of all materials. Proper storage includes dry, temperature and humidity controlled facilities, which eliminate the potential of moisture, including condensation, from causing white rust and/or corrosion of any sort. Warranty does not extend to defects, damage or cosmetic (appearance) issues caused by improper storage, handling or erection.

BASIC WARRANTY - All Sukup manufactured products are warranted for one year from date of purchase. Part(s) must be returned to Sukup within 30 days in event of failure.

EXTENDED STIRRING MACHINE WARRANTY - Sukup warrants stirring machines for two years from date of purchase.

EXTENDED STIRRING AUGER WARRANTY - Sukup warrants stirring down augers for two years from date of purchase. Must return top 18" of down auger to obtain credit.

EXTENDED FAN WARRANTY - Sukup warrants fans for two years from date of purchase.

EXTENDED HEATER CIRCUIT BOARD WARRANTY - Sukup warrants heater circuit boards for three years from date of purchase.

EXTENDED MATERIAL HANDLING WARRANTY - Sukup warrants Material Handling, excluding structural support systems, for two years from date of purchase.

REPLACEMENT PARTS WARRANTY PERIOD - Sukup warrants replacement parts (e.g. belts, sensors, rotating contacts, gearmotors, switches) purchased from Sukup for one (1) full drying season following purchase.

ELECTRIC MOTOR WARRANTY - The manufacturers of electric motors warranty their motors through authorized service centers for a 2 year period from motor date code. Contact motor manufacturer for nearest location. If motor warranty is refused by a service center based upon date of manufacture, use the following procedure: Have motor repair shop fill out warranty report form as if they were providing warranty service. State on report reason for refusal. Send report, motor nameplate, and proof of purchase date (invoice from Sukup and invoice for your customer) to Sukup. If electric motor warranty is not satisfactorily handled by motor service center, contact Sukup for assistance. Sukup will attempt to obtain warranty from motor manufacturer, any credit obtained will be passed on. Warranty may also be obtained by returning motor to Sukup Manufacturing Co. or Distribution Centers with prior authorization. **NOTE:** Sukup will not be responsible for unauthorized motor replacement or repair. Labor for removal of motor from fan not included.

WARRANTY CERTIFICATION - Warranty registration card should be mailed within one month of product delivery to certify warranty coverage.

UNAPPROVED PARTS OR MODIFICATION - All obligations of Sukup under this warranty are terminated if unapproved parts such as stirring augers longer than 20' are used, or if equipment is modified or altered in any way not approved by Sukup.

Safety



Read manual before installing or using product. Failure to follow instructions and safety precautions in manual can result in death or serious injury. Keep manual in a safe location for future reference.



On safety decals, this symbol and the signal words Danger, Warning, Caution and Notice draw your attention to important instructions regarding safety. They indicate potential hazards and levels of intensity.



RED - DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



ORANGE - WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



YELLOW - CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE

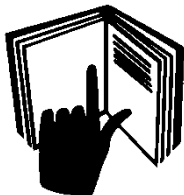
BLUE - NOTICE alerts you to practices unrelated to personal injury, such as messages related to property damage.

IMPORTANT: To prevent serious injury or death to you or your family, it is essential that safety decals are clearly visible, in good condition, and applied to the appropriate equipment.

FOLLOW MANUAL & SAFETY DECAL MESSAGES

Carefully read this manual and all safety decals on your equipment. Safety decals must be kept in good condition. Replace missing or damaged safety decals by contacting Sukup

Manufacturing Co. via mail at PO Box 677, Sheffield, Iowa USA, 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com.



It is the responsibility of the owner/operator to know what specific requirements, precautions, and work hazards exist. It is also the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of hazards and safety precautions that need to be taken to avoid personal injury or death. Always keep children away from bins and vehicles with flowing grain.

Make no unauthorized modifications to machine. Modifications may endanger function and/or safety of unit. Keep unit in good working condition. Keep shields in place. Replace worn or missing shields free of charge by contacting Sukup Manufacturing Co.

GRAIN BIN SAFETY

Owners/operators are responsible for developing site-specific confined space entry procedures. OSHA's confined space entry procedures (29CFR 1910.146) can be found at www.osha.gov.

If you must enter bin for repair or maintenance:

- Use a safety harness, safety line and respirator
- Station another person outside of bin
- Avoid the center of the bin
- Wear appropriate personal protective equipment
- Keep clear of all augers and moving parts



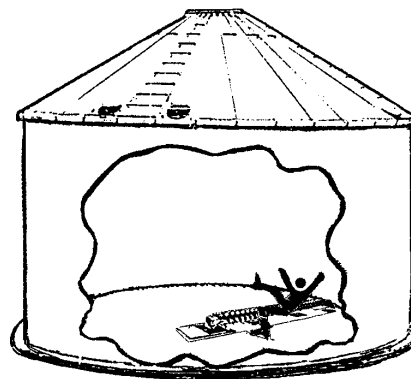
DANGER: Never enter bin unless all power is locked out and another person is present.



Rotating augers can kill or dismember!

NEVER enter bin when augers are running!

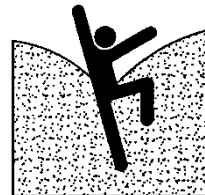
When bin is nearly empty, sweep auger will travel at an increasingly fast speed. Keep away from sweep and sump augers to avoid entanglement.



Failure to follow precautions above will result in death or serious injury.



DANGER: Flowing grain may trap and suffocate. If you enter a bin of flowing grain you can be completely submerged in grain in about 8 seconds.



Failure to heed this warning will result in death or serious injury.

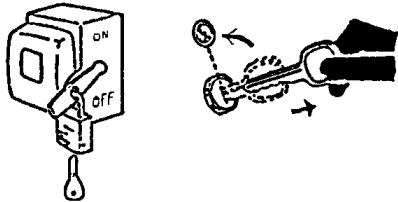
Safety

To avoid electric shock or electrocution, all equipment must be properly wired and grounded according to electrical codes. Have unit wired by qualified electrician.



Have an electrician install a main power disconnect switch capable of being locked only in OFF position. Mark disconnect clearly as to equipment it operates. Always lock out main power disconnect switch whenever equipment is not in use.

Service Disconnect



WARNING: When servicing equipment, never enter bin unless all power is locked out and another person is present. Always LOCK OUT all power and always check with voltage meter before servicing.

Failure to do so could result in death or serious injury.

Owners/operators are responsible for developing site-specific Lockout/Tagout procedures based on equipment at their work site. See OSHA's typical minimal lockout procedures (29CFR 1910.147 App A) at www.osha.gov.

WARNING: KEEP CLEAR OF ALL MOVING PARTS

Keep people (ESPECIALLY YOUTH) away from equipment, particularly during operation.

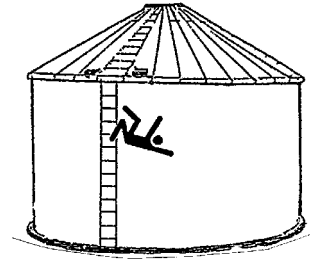
Keep away from all moving parts. Keep all shields in place. **SHUT OFF AND LOCK OUT** all power before servicing.



Failure to follow precautions above could result in death or serious injury.



WARNING: Metal is slippery when wet. To avoid falls, never carry items if climbing on bin. Maintain secure hand and foothold if climbing on bin. Failure to do so could result in death or serious injury.



CAUTION: Metal edges are sharp. To avoid injury, wear protective clothing and handle equipment and parts with care.

Failure to do so may result in minor or moderate injury.

PERSONAL PROTECTIVE EQUIPMENT



Owners/Operators are responsible for developing site-specific personal protective equipment standards. OSHA's personal protective equipment standards (29CFR 1910.132) can be found at www.osha.gov.

EMERGENCIES – KNOW WHAT TO DO

Have emergency numbers and written directions to work site readily available in case of emergency. An area for emergency phone numbers to be recorded is provided below and at end of this manual.

<p>Ambulance • Fire • Police: 9-1-1</p> <p>Bin rescue team: _____</p> <p>Emergency medical squad: _____</p> <p>Address of work site: _____</p> <p>Directions to work site: _____</p>

STORED GRAIN, EQUIPMENT HAZARDS

IMPORTANT: A bin floor itself is not a hazard, but grain stored in bin and unload equipment installed in bin can create hazardous situations. Fig. 1 shows dangers of grain stored in bin, including obstructed flow, bridged grain, and collapse of bridged grain, all of which can engulf a person in bin. Obstructions or bridging should be removed by means other than entering bin.

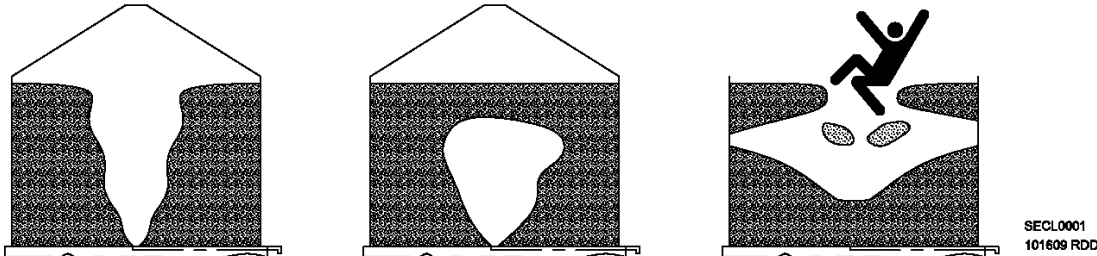


Fig. 1 – Obstructed-flow, bridged grain, collapsed bridge of grain in bin

Basic Safety Rules

1. Learn how to use controls and operate equipment.
2. Do not let anyone operate equipment without thorough training of basic operating and safety procedures. Follow a proper lockout procedure.
3. Do not modify or redesign equipment without first obtaining written approval from Sukup Manufacturing Co. Unauthorized modifications to equipment may impair function and/or safety and affect machine life.
4. Periodically check all mechanical and electrical components. Keep equipment in good working condition.
5. Handle equipment and parts with care. Wear protective clothing to avoid injury from sharp metal edges.

General safety procedures must be followed when working near or on grain bins. Engulfment and burial, falling from heights, dust and mold inhalation, pesticide exposure, electrocution, and injury from augers are hazards associated with grain bins. Refer to the Sukup Bin Operation Manual, L13920, for more specific information.

IMPORTANT: Failure to follow general safety precautions may cause serious injury or death.

SAFETY QUESTIONS OR CONCERNS

Please contact Sukup Manufacturing Co. with specific safety needs regarding this equipment or its use.

NOTICE: Do not run fans unless there is a minimum of 44" of grain over entire aeration floor. Starting fans without enough weight on floor may cause supports to be pushed out of position and cause failure of floor.

NOTICE: If bin is equipped with a sidedraw, do not use at same time sumps are being used to unload grain.



FOLLOW A PROPER LOCK-OUT PROCEDURE

This suggested procedure must be performed **EVERY TIME** your equipment is to be worked on. Following these steps will assist in preventing accidents.

- Each worker must have his/her own lock and the only key to that lock.
- Make sure equipment is not operating before turning off power.
- Notify all affected employees that equipment will be locked out for service.
- Authorized employee shall refer to the facility procedure referencing the power source for the equipment.
- Shut down equipment in a normal manner.
- All energy sources that could activate the equipment must be de-activated.
- Each person who will be working on the equipment must put a lock on any energy sources that could provide any power to the equipment.
- Confirm that power has been deactivated.
- Turn all controls for equipment back to their “off” positions.
- **NO ONE** is to return power to equipment until all work on it has been completed and all locks have been removed.

Facility management needs to proactively train employees to ensure use of proper lockout procedures before working on the equipment. Management also needs to inspect equipment for any covers or guards not in their proper place. It is everyone’s responsibility to report any missing grates, guards, equipment failures or failures to lock out. Make certain that no cover is removed unless power is locked out.

NOTE: Refer to OSHA document 1910.147 App A for a typical minimal lockout procedure.



DANGER: Never enter bin unless all power is locked out and another person is present. Entanglement in rotating auger will cause death or serious injury.

SAFETY DECAL PLACEMENT

Two "**DANGER DO NOT ENTER this bin!**" decals, L0258A-08, are supplied with Sukup bin equipment. Both decals should be placed where people entering bin or storage building will see them.

Install one "**DANGER**" decal on bin sheet next to door, opposite of hinge side.

Install other "**DANGER**" decal next to ladder leading to roof.

One "**WARNING**" decal, L0281-15, is also supplied. It should be placed next to "**DANGER**" decal on bin sheet next to door.

If suggested locations are not in full view, place safety decals in a more suitable location. Be certain not to cover any safety decals that are already there.

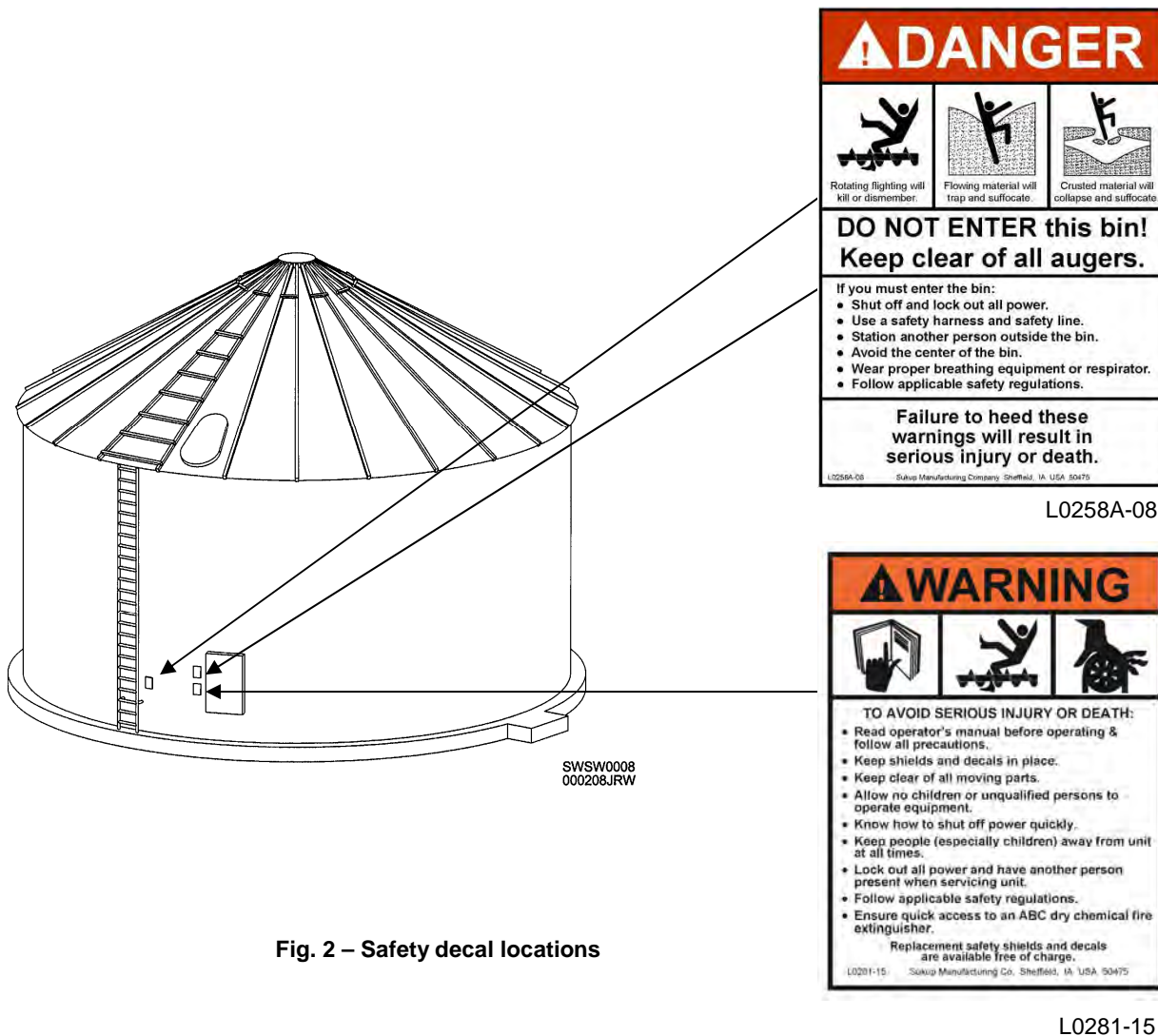


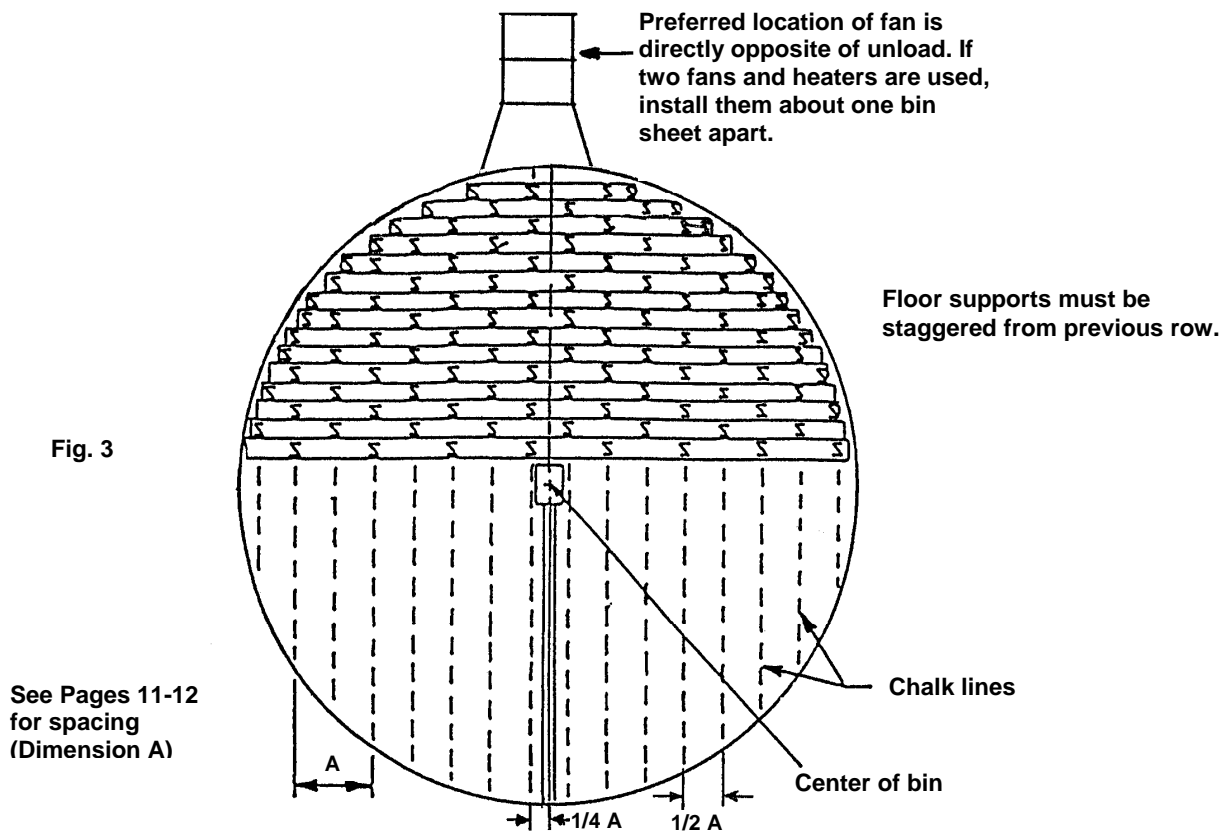
Fig. 2 – Safety decal locations

It is essential that these safety decals be mounted on bin to warn and remind of potential hazards. Decals may need to be replaced if damaged or worn. Order replacement safety decals or shields free of charge by contacting Sukup Manufacturing Co. by mail at PO Box 677, Sheffield, Iowa, USA, 50475; by phone at 641-892-4222; or by e-mail at info@sukup.com. Please specify computer number. Use decal placement drawing to determine location of decals.

Z-POST SUPPORTS INSTALLATION INSTRUCTIONS

NOTE: Z-Post supports can be used in bins up to 16 rings tall.

Placement with one fan



NOTICE: Failure to carefully follow installation instructions will void warranty and may cause floor failure.

NOTE: For floor installation instructions using other supports, see the following pages: Super Supports, Pages 13-17; SuperWave Supports, Pages 18-23; concrete block, Pages 24-25.

1. Determine exact bin diameter and eave height. See applicable table on Pages 11-12 to determine quantity of floor supports and spacing (Dimension A in Fig. 3) required for each plank.
2. Determine exact center of bin. Mark chalk lines at $1/4$ of support spacing (Dim. A) to left and right of centerline. Continue marking parallel lines toward bin walls at $1/2$ of support spacing. See Fig. 3.

NOTICE: It is essential to mark chalk lines on floor to ensure correct support spacing throughout bin. Even a few incorrectly-spaced supports may cause floor failure.

3. Take first plank (shortest) and turn upside down. Place Z-Post floor support into plank. Make sure all upper tabs of support are between channels of floor plank. Insert additional Z-Post supports as needed at required spacing.
4. Place first plank (with supports installed) against bin wall with open channel toward center of bin, ready to receive next plank.

IMPORTANT: Corners of first plank must touch bin wall so flashing will cover gap properly.

5. Position next row of supports at required spacing. Slide each support against open channel of previously installed plank as shown in Fig. 5 so that both notched "T" tabs fit over open channel. See Fig. 6.

NOTE: Do **NOT** hook tab of support under tail of floor plank.

Z SUPPORTS INSTALLATION

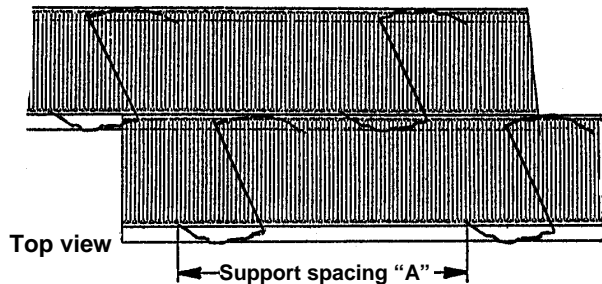


Fig. 4

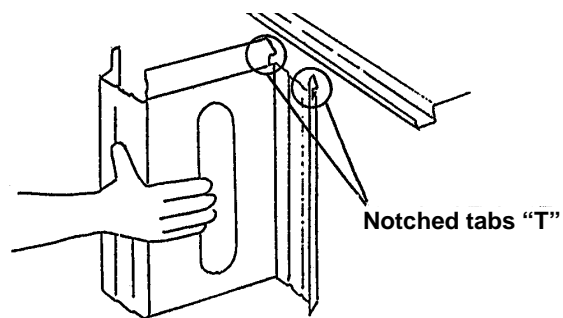


Fig. 5

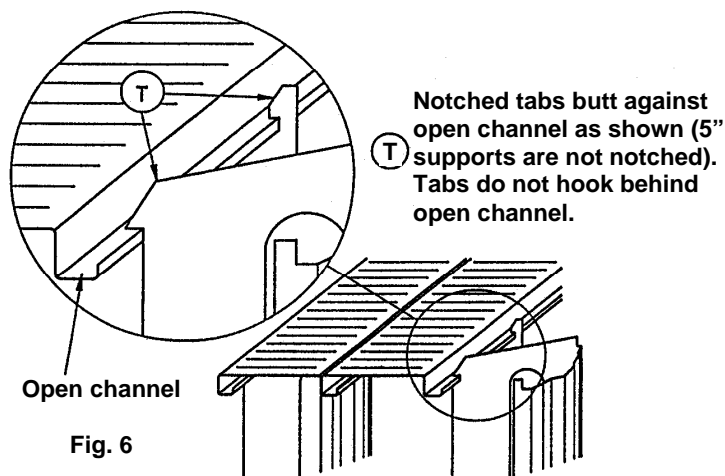


Fig. 6

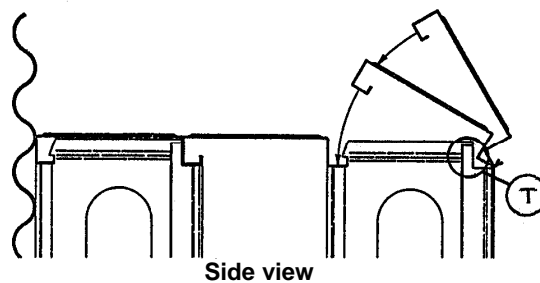


Fig. 7

6. Place an extra support at end of floor plank if there is more than 7" of overhang. Shorter planks used at start and finish usually require an extra support. Each side of support (if possible) should support two floor planks.
 7. Lay open channel of next floor plank on top of row of supports as shown in Fig. 7. Ensure there is an equal distance from each end of plank to bin wall. Snap plank down into place. Check that all upper tabs of support are between channels of floor plank and are not exposed.
 8. Place next row of supports at designated support spacing so they are offset from previous row by one-half the spacing distance. See Fig. 3. Use chalk lines to ensure correct spacing.
 9. Repeat Steps 5-8.
 10. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 26 for flashing installation.
- NOTE:** On smaller bins, flashing may need to be cut across center of perforated section for better fit.
11. Continue floor installation until all supports and planks are installed.
 12. Install remainder of flashing. See Page 26.
 13. Mount "Never Enter Bin" decal and "Safe Operation" decal near bin openings as described in safety packet A3399 (bundled with floor).

IMPORTANT: Make sure concrete is level and floor supports are placed under each floor plank. Stagger supports as shown in Fig. 3.

Z-Post Supports Installation

“Z” POST SUPPORTS & SPACING FOR HAWK CUT FLOORS

TOTAL NUMBER OF “Z” SUPPORTS/SPACING*

BIN DIAMETER	20 GA. Z - POST REQUIREMENTS									18 GA. Z - POST REQUIREMENTS						Cont. Flow Bottom Unload **	Recirc- ulator ***
	# OF RINGS - SUKUP BINS (44" RING HEIGHT)									# OF RINGS - SUKUP BINS (44" RING HEIGHT)							
	3 & 4	5	6	7	8	9	10	11	12	13	14	15	16				
	EAVE HEIGHT (FEET)									EAVE HEIGHT (FEET)							
	16'	17' - 19'	20' - 22'	23' - 26'	27' - 30'	31' - 33'	34' - 37'	38' - 41'	42' - 44'	45' - 48'	49' - 52'	53' - 56'	57' - 59'				
12'	56-50"	56-50"	56-50"	56-50"	58-44"	58-44"	58-44"	62-43"	64-41"	66-40"	68-38"	70-36"	78-32"	86-32"	112-24"		
15'	80-54"	80-54"	86-50"	86-50"	94-44"	94-44"	94-44"	96-43"	101-41"	108-40"	110-38"	114-36"	118-32"	126-32"	159-24"		
16' 5" (5M)	98-54"	98-54"	104-50"	104-50"	118-44"	118-44"	118-44"	120-43"	122-41"	124-40"	130-38"	138-36"	150-32"	153-32"	195-24"		
18'	114-54"	114-54"	124-50"	124-50"	132-44"	132-44"	132-44"	134-43"	138-41"	138-40"	150-38"	156-36"	176-32"	184-32"	230-24"		
18' 7"	118-54"	118-54"	134-50"	134-50"	142-44"	142-44"	142-44"	145-43"	150-41"	156-40"	159-38"	168-36"	183-32"	193-32"	245-24"		
19'	122-54"	122-54"	136-50"	142-44"	142-44"	142-44"	142-44"	156-41"	162-39"	168-36"	182-34"	188-32"	208-29"	198-32"	258-24"		
19' 8" (6M)	140-54"	140-54"	148-50"	156-44"	156-44"	156-44"	156-44"	166-41"	171-39"	194-36"	200-34"	212-32"	225-29"	215-32"	276-24"		
21'	154-54"	154-54"	160-50"	180-44"	180-44"	180-44"	180-44"	187-41"	200-39"	212-36"	216-34"	236-32"	260-29"	238-32"	305-24"		
21' 8"	156-54"	156-54"	162-50"	190-44"	190-44"	190-44"	190-44"	200-41"	210-39"	218-36"	234-34"	244-32"	272-29"	252-32"	328-24"		
22' 11" (7M)	174-54"	186-50"	186-50"	204-44"	204-44"	204-44"	204-44"	226-41"	232-39"	250-36"	260-34"	280-32"	296-29"	290-32"	368-24"		
24'	184-54"	202-50"	202-50"	228-44"	228-44"	228-44"	228-44"	240-41"	246-39"	272-36"	284-34"	298-32"	330-29"	308-32"	394-24"		
24' 9"	206-54"	218-50"	218-50"	242-44"	242-44"	242-44"	242-44"	254-41"	270-39"	286-36"	304-34"	316-32"	346-29"	326-32"	422-24"		
26' 3" (8M)	244-50"	244-50"	244-50"	270-44"	296-40"	296-40"	296-40"	302-39"	320-37"	326-36"	336-34"	360-32"	396-29"	370-32"	482-24"		
27'	260-50"	260-50"	260-50"	282-44"	314-40"	314-40"	314-40"	320-39"	340-37"	344-36"	360-34"	384-32"	420-29"	383-32"	497-24"		
27' 10"	280-50"	280-50"	280-50"	310-44"	340-40"	340-40"	340-40"	354-39"	364-37"	370-36"	390-34"	418-32"	450-29"	417-32"	532-24"		
29' 6" (9M)	300-50"	300-50"	344-44"	344-44"	374-40"	374-40"	374-40"	378-39"	414-35"	456-32"	484-30"	512-28"	544-26"	466-32"	602-24"		
30'	302-50"	302-50"	346-44"	346-44"	376-40"	376-40"	376-40"	390-39"	422-35"	458-32"	496-30"	529-28"	568-26"	468-32"	612-24"		
31'	332-50"	332-50"	378-44"	378-44"	400-40"	400-40"	400-40"	418-39"	460-35"	496-32"	528-30"	560-28"	600-26"	506-32"	662-24"		
33'	380-50"	380-50"	424-44"	472-40"	472-40"	510-36"	510-36"	522-35"	550-33"	562-32"	598-30"	642-28"	684-26"	559-32"	733-24"		
34'	394-50"	394-50"	442-44"	484-40"	484-40"	532-36"	532-36"	556-35"	582-33"	602-32"	638-30"	680-28"	724-26"	612-32"	798-24"		
36'	451-50"	451-50"	490-44"	538-40"	538-40"	594-36"	594-36"	612-35"	642-33"	652-32"	706-30"	744-28"	817-26"	662-32"	878-24"		
36' 1" (11M)	465-50"	465-50"	512-44"	558-40"	558-40"	616-36"	616-36"	638-35"	666-33"	680-32"	730-30"	776-28"	833-26"	676-32"	893-24"		
37' 1"	473-50"	473-50"	524-44"	576-40"	576-40"	632-36"	632-36"	656-35"	692-33"	707-32"	761-30"	804-28"	865-26"	722-32"	938-24"		
42' Split	655-50"	714-44"	714-44"	786-40"	858-36"	970-32"	970-32"	970-32"	970-32"	970-32"	1040-29"	1146-26"	1190-25"	---	---		
42'8"(13M) Split	680-50"	760-44"	760-44"	830-40"	900-36"	1002-32"	1002-32"	1002-32"	1002-32"	1002-32"	1096-29"	1200-26"	1252-25"	---	---		
43' 3" Split	717-50"	793-44"	793-44"	857-40"	940-36"	1039-32"	1039-32"	1039-32"	1039-32"	1039-32"	1141-29"	1257-26"	1307-25"	---	---		
48' Split	848-50"	939-44"	939-44"	1123-36"	1123-36"	1251-32"	1251-32"	1288-31"	1358-29"	1413-28"	---	---	---	---	---		
49'3"(15M) Split	890-50"	1009-44"	1009-44"	1205-36"	1205-36"	1337-32"	1337-32"	1375-31"	1460-29"	1503-28"	---	---	---	---	---		
54' Split	1195-44"	1195-44"	1290-40"	1425-36"	1575-32"	1669-30"	1575-32"	1669-30"	---	---	---	---	---	---	---		
55' 8" Split	1253-44"	1253-44"	1370-40"	1502-36"	1668-32"	1765-30"	1668-32"	1765-30"	---	---	---	---	---	---	---		
59'1"(18M) Split	1408-44"	1408-44"	1538-40"	1684-36"	1872-32"	1992-30"	1872-32"	1992-30"	---	---	---	---	---	---	---		
60' Split	1463-44"	1463-44"	1551-40"	1721-36"	1893-32"	2030-30"	1893-32"	2030-30"	---	---	---	---	---	---	---		
61' 10" Split	1550-44"	1550-44"	1686-40"	1863-36"	2073-32"	2195-30"	2073-32"	2195-30"	---	---	---	---	---	---	---		
72' Split	2248-40"	2467-36"	2757-32"	3119-28"	3119-28"	3119-28"	3119-28"	3255-27"	---	---	---	---	---	---	---		
75' Split	2536-40"	2778-36"	3082-32"	3484-28"	3484-28"	3484-28"	3484-28"	3598-27"	---	---	---	---	---	---	---		
78' Split	2991-36"	2991-36"	3321-32"	3747-28"	3747-28"	3747-28"	3747-28"	3880-27"	---	---	---	---	---	---	---		

*Example: 56-50" indicates a total of 56 supports at 50" spacing on each plank.

**Continuous-flow Bottom Unload: Use 20 ga. supports. Additional supports are required around center sump. Maximum grain depth is 20'.

*** If bin has a recirculating device, use 18ga floor supports with Hawk Cut flooring. Additional supports are placed around center sump. Maximum grain depth is 20'. Stirring machines are not recirculators; therefore, support spacing is based on eave height.

**“Z” POST SUPPORTS & SPACING FOR
.094 (STANDARD) & .050 PERFORATED CHANNEL- LOK FLOORS**

TOTAL NUMBER OF “Z” SUPPORTS/SPACING*

20 GA. PERF. FLOORS - .094 (STD) OR .050 available up to 48' Diameter only							Cont. Flow Bottom Unload **
20 GA. Z - POST REQUIREMENTS							
# OF RINGS - SUKUP BINS (44" RING HEIGHT)							
	3 & 4	5	6	7	8		
BIN DIAMETER	EAVE HEIGHT (FEET)						
	16'	17' - 19'	20' - 22'	23' - 26'	27' - 30'		
12'	56-50"	56-50"	56-50"	56-50"	58-44"	112-24"	
15'	80-54"	80-54"	86-50"	86-50"	94-44"	159-24"	
16' 5" (5M)	98-54"	98-54"	104-50"	104-50"	118-44"	195-24"	
18'	114-54"	114-54"	124-50"	124-50"	132-44"	230-24"	
18' 7"	118-54"	118-54"	134-50"	134-50"	142-44"	245-24"	
19'	122-54"	122-54"	136-50"	142-44"	142-44"	258-24"	
19' 8" (6M)	140-54"	140-54"	148-50"	156-44"	156-44"	276-24"	
21'	154-54"	154-54"	160-50"	180-44"	180-44"	305-24"	
21' 8"	156-54"	156-54"	162-50"	190-44"	190-44"	328-24"	
22' 11" (7M)	174-54"	186-50"	186-50"	204-44"	204-44"	368-24"	
24'	184-54"	202-50"	202-50"	228-44"	228-44"	394-24"	
24' 9"	206-54"	218-50"	218-50"	242-44"	242-44"	422-24"	
26' 3" (8M)	244-50"	244-50"	244-50"	270-44"	296-40"	482-24"	
27'	260-50"	260-50"	260-50"	282-44"	314-40"	497-24"	
27' 10"	280-50"	280-50"	280-50"	310-44"	340-40"	532-24"	
29' 6" (9M)	300-50"	300-50"	344-44"	344-44"	374-40"	602-24"	
30'	302-50"	302-50"	346-44"	346-44"	376-40"	612-24"	
31'	332-50"	332-50"	378-44"	378-44"	400-40"	662-24"	
33'	380-50"	380-50"	424-44"	472-40"	472-40"	733-24"	
34'	394-50"	394-50"	442-44"	484-40"	484-40"	798-24"	
36'	451-50"	451-50"	490-44"	538-40"	538-40"	878-24"	
36' 1" (11M)	465-50"	465-50"	512-44"	558-40"	558-40"	893-24"	
37' 1"	473-50"	473-50"	524-44"	576-40"	576-40"	938-24"	
42' Split	655-50"	714-44"	714-44"	786-40"	858-36"	---	
42'8"(13M) Split	680-50"	760-44"	760-44"	830-40"	900-36"	---	
43' 3" Split	717-50"	793-44"	793-44"	857-40"	940-36"	---	
48' Split	848-50"	939-44"	939-44"	1123-36"	1123-36"	---	

*Example: 56-50" indicates a total of 56 supports at 50" spacing on each plank.

**Continuous-flow Bottom Unload: Use 20 ga. supports. Additional supports are required around center sump. Maximum grain depth is 20'.

NOTE: If bin has a recirculating device, use 18ga floor supports and Hawk Cut flooring. Stirring machines are not recirculators. Therefore, support spacing is based on eave height.

SUPER SUPPORTS INSTALLATION
Includes Standard Super Supports and Flat Top Super Supports

Fig. 8 shows a Full Super Support, which is also available with a flat top. Fig. 9 shows a Double Super Support, which can be used with either standard or flat top Super Support. **NOTE:** Double Super Supports can be cut in half to use as singles.

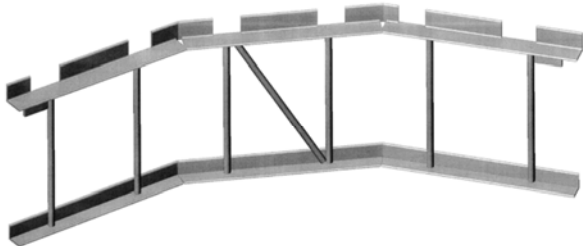


Fig. 8 – Standard Super Support

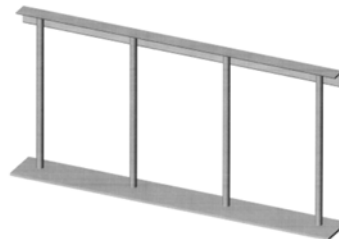


Fig. 9 – Double Super Support

See Super Supports requirements on Page 15:

With recirculation devices, center half of bin is on 11” spacing; outside half is at 22”. Use 20ga Hawk Cut flooring.

NOTE: With Continuous Flow Bottom Unload and Recirculation devices, maximum grain depth is 20’. These specifications are for Hawk Cut floors. Place additional supports around center sump. Stirring machines are not recirculators; therefore, support spacing is based on eave height.

Key:

1	2
3	4

 1 = Number of Full Super Supports 2 = Super Support Spacing in inches
3 = Number of Z Supports (z) 4 = Number of Double Super Supports (d)

See Flat Top Super Supports requirements on Pages 16-17:

With recirculation devices, center half of bin is on 15” spacing; outside half is at 30”. Use only with Heavy Duty Floors.

NOTE: With Continuous Flow Bottom Unload and Recirculation devices, maximum grain depth is 20’. Stirring machines are not recirculators; therefore, support spacing is based on eave height.

Key:

1	2
	3

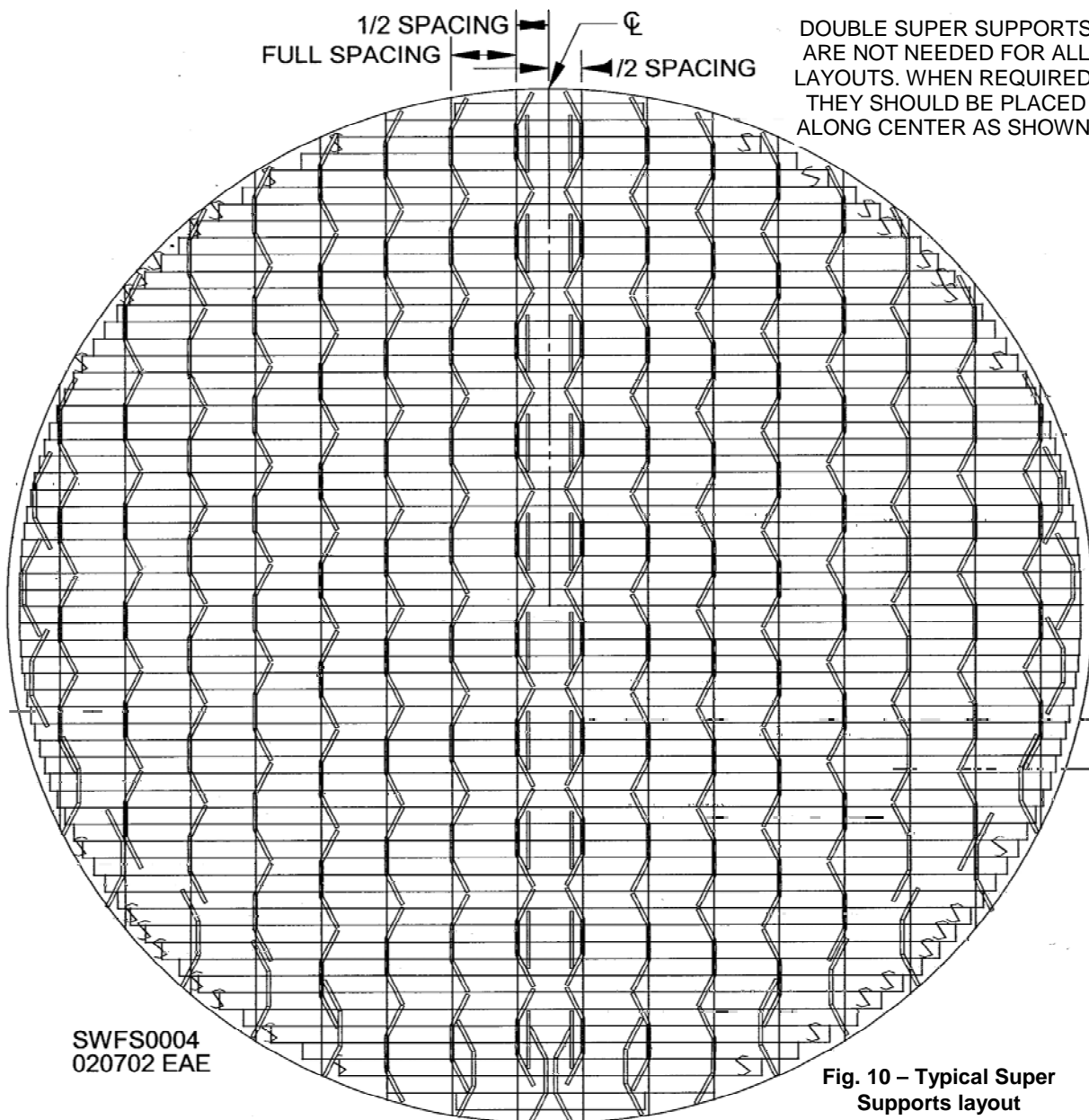
 1 = Number of Full Super Supports 2 = Super Support Spacing in inches
3 = Number of Double Super Supports (d)

Installation Steps for Standard or Flat Top Super Supports

1. Find exact center of bin and mark it.
2. Determine where unload auger or conveyor will be located. Mark a line through center of bin along path where unload will be installed.
3. Mark lines parallel to centerline at 1/2 of spacing given for Super Support. See tables on Pages 15-17. Mark on both sides of centerline.
4. Mark lines parallel from lines at suggested spacing, continuing across floor to bin wall.
5. Start at far side of bin and place Super Supports on three or four lines marked on floor on each side of centerline as shown in Fig. 10. Add Double Super Supports to Super Supports closest to center of bin as shown in Fig. 10 if needed to comply with spacing requirement in applicable table. Run a self-drilling screw through floor plank into Double Super Support to hold support in place.
6. Place first plank in bin. Position supports so plank channel runs through cutouts in supports.
7. Place a Z-Post support at end of plank (at wall or at plank splice) if there is more than 7" of overhang in bin up to 16 rings tall, if there is more than 4" of overhang in bin 17-20 rings tall, or more than 2-1/2" in bin 21 or more rings tall. Shorter planks used at start and finish usually require an extra support.

Super Supports Installation

- Place next plank in bin, adjusting supports as needed to ensure plank channels fit into cutouts in supports. Add extra supports on ends if necessary. Ensure plank is centered in bin and there is an equal distance from each end of plank to bin wall. Make sure supports are spaced correctly and lie on lines marked on floor.
- Install planks until first set of supports is almost covered. Place next support for that spacing so floor plank will rest on ends of each support without supports overlapping.
- Repeat Steps 7-9.
- After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 26 for flashing installation.
- Continue installing remainder of flooring and supports.
- Install remainder of flashing.
- Mount "Never Enter Bin" decal and "Safe Operation" decal near bin openings as described in safety packet, A3399 (bundled with floor).



Super Supports Installation

FLAT TOP SUPER SUPPORT REQUIREMENTS FOR HEAVY DUTY, 20 GA. PERF. FLOORS

BIN DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)														CONT. FLOW BOTTOM UNLOAD	RECIRC. U/LATOR															
	3	4	5	6	7	8	9	10	11	12	13	14	15	16			17	18	19	20	21	22									
	13"	14"-16"	17"-19"	20"-22"	23"-26"	27"-30"	31"-33"	34"-37"	38"-41"	42"-44"	45"-48"	49"-52"	53"-56"	57"-59"	60"-63"	64"-66"	67"-70"	71"-74"	75"-78"	79"-81"											
12"	16	35	31	20	28	25	20	24	21	22	21	24	20	26	17	26	17	28	16	30	15	34	14	34	13	38	12	20	28	22	16,600
15"	46	48	44	34	30	28	27	32	23	34	21	36	20	40	10	44	17	46	16	46	15	50	13	56	13	56	12	28	27	36	15,600
16.5" (5M)	30	33	32	30	34	23	38	23	42	20	46	19	48	16	54	16	56	15	56	14	58	13	64	13	64	12	34	27	44	15,600	
18"	32	33	34	30	36	27	38	25	44	23	44	21	46	20	50	19	50	18	56	16	62	15	70	13	76	12	38	27	46	15,600	
18.7"	36	33	40	29	46	27	46	25	52	23	52	21	56	20	60	19	60	18	64	17	72	16	82	13	88	12	46	37	50	15,600	
19"	34	34	40	29	46	27	46	25	52	23	52	21	56	20	60	19	60	18	64	17	72	16	82	13	88	12	46	37	52	15,600	
19.8" (6M)	38	33	48	29	52	27	52	25	56	23	56	21	60	20	64	19	64	18	68	17	76	16	86	13	92	12	52	42	60	15,600	
21"	46	32	52	28	58	25	64	23	66	21	68	20	72	19	76	18	76	17	80	16	84	15	92	14	96	13	48	38	66	15,600	
21.8"	46	32	46	28	58	25	64	23	66	21	68	20	72	19	76	18	76	17	80	16	84	15	92	14	96	13	48	38	66	15,600	
22.11" (7M)	58	32	62	28	66	25	74	23	76	21	78	20	84	19	88	17	92	16	96	15	104	14	116	11	124	10	64	54	76	15,600	
24"	80	32	64	28	64	25	76	23	76	21	84	20	84	19	88	17	92	16	96	15	108	14	124	13	136	12	64	54	78	15,600	
24.9"	80	32	68	28	68	25	76	23	88	21	88	20	88	19	92	17	106	17	116	15	122	14	144	12	154	11	68	58	82	15,600	
26.3" (8M)	88	32	76	28	76	25	86	23	94	21	100	20	108	19	118	17	124	16	132	15	138	14	164	12	180	11	76	68	94	15,600	
27"	88	32	82	28	82	25	90	23	100	21	104	20	108	19	118	17	128	16	138	15	150	14	184	12	200	11	82	74	100	15,600	
27.10"	76	32	88	28	96	25	100	24	104	23	114	21	120	20	126	19	132	17	142	16	150	15	188	12	208	11	86	78	104	15,600	
29.6" (9M)	82	32	92	28	108	25	110	22	118	21	126	20	130	19	138	17	144	16	156	15	180	14	216	12	236	11	90	82	110	15,600	
30"	90	32	106	28	114	25	116	22	132	21	132	20	142	19	148	17	156	16	174	15	186	14	228	12	252	11	94	86	114	15,600	
31"	108	30	110	27	124	25	126	22	138	21	142	20	150	19	154	17	162	16	182	15	196	14	244	12	272	11	98	90	124	15,600	
33"	108	30	124	27	132	25	132	22	148	21	152	20	162	19	168	17	172	16	202	15	222	14	272	12	308	11	102	94	132	15,600	
34"	122	28	144	24	146	23	154	21	154	21	168	20	170	19	182	18	204	16	214	15	232	14	292	12	332	11	104	96	144	15,600	
36"	140	28	166	22	166	22	184	21	198	20	198	20	202	19	216	18	240	16	250	15	268	14	344	12	400	11	108	100	156	15,600	
36.1" (11M)	142	28	166	22	190	21	198	20	198	20	216	19	216	18	234	17	264	15	276	14	294	13	384	12	456	11	110	102	160	15,600	
37.1"	146	28	176	22	194	21	200	20	200	20	210	19	210	18	230	17	264	15	276	14	302	13	396	12	480	11	112	104	164	15,600	
42" Split	192	28	200	26	220	22	242	21	250	20	266	19	286	18	302	17	314	16	330	15	358	14	456	12	540	11	114	106	170	15,600	
42.8" (13M)	196	28	226	24	248	22	256	21	270	20	276	19	294	18	302	17	326	16	348	15	372	14	480	12	576	11	116	108	176	15,600	
43.3" Split	202	28	246	24	248	22	256	21	294	18	302	17	326	16	348	15	372	14	398	13	436	12	540	12	648	11	118	110	180	15,600	
48" Split	244	28	292	23	292	22	326	20	342	19	342	18	366	17	386	16	426	15	454	14	494	13	630	12	756	11	120	112	184	15,600	
49.3" (15M)	250	28	278	23	308	22	338	20	354	19	354	18	374	17	402	16	444	15	480	14	514	13	660	12	792	11	122	114	188	15,600	
54" Split	310	27	330	29	368	23	388	21	406	20	426	19	446	18	472	17	504	16	534	15	576	14	720	12	864	11	124	116	192	15,600	
55.8" Split	334	27	360	29	386	23	416	21	440	20	458	19	488	18	518	17	550	16	580	15	626	14	792	12	936	11	126	118	196	15,600	
56.1" (16M)	412	28	460	28	494	24	530	22	556	21	586	19	616	18	650	17	690	16	732	15	780	14	972	12	1176	11	128	120	200	15,600	
60" Split	418	28	482	28	496	24	536	22	562	21	592	19	622	18	666	17	702	16	744	15	792	14	1008	12	1224	11	130	122	204	15,600	
61.10" Split	452	28	486	28	532	24	566	22	592	21	626	19	656	18	696	17	744	16	792	15	840	14	1056	12	1272	11	132	124	208	15,600	
72" Split	626	34	670	27	706	27	738	20	784	18	816	17	854	16	902	15	950	14	1000	13	1050	12	1320	12	1584	11	134	126	212	15,600	
75" Split	654	34	712	27	746	27	780	20	812	18	858	17	906	16	954	15	1004	14	1054	13	1104	12	1368	12	1632	11	136	128	216	15,600	
78 Double Split	784	33	828	27	874	27	918	20	958	18	1000	17	1042	16	1084	15	1126	14	1168	13	1210	12	1474	12	1738	11	138	130	220	15,600	
88 Double Split	1080	21	1118	20	1182	22	1246	18	1310	17	1374	16	1438	15	1502	14	1566	13	1630	12	1694	11	2022	11	2358	10	140	132	224	15,600	
90 Double Split	1538	1636	1636	1636	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844	1844

Super Supports Installation

FLAT TOP SUPER SUPPORT REQUIREMENTS FOR HEAVY DUTY, 18 GA. PERF. FLOORS

BIN DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																			RECOR. FLOW ULATOR																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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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"	38"	39"	40"	41"	42"	43"	44"	45"	46"	47"	48"	49"	50"	51"	52"	53"	54"	55"	56"	57"	58"	59"	60"	61"	62"	63"	64"	65"	66"	67"	68"	69"	70"	71"	72"	73"	74"	75"	76"	77"	78"	79"	80"	81"	82"	83"	84"	85"	86"	87"	88"	89"	90"	91"	92"	93"	94"	95"	96"	97"	98"	99"	100"	101"	102"	103"	104"	105"	106"	107"	108"	109"	110"	111"	112"	113"	114"	115"	116"	117"	118"	119"	120"	121"	122"	123"	124"	125"	126"	127"	128"	129"	130"	131"	132"	133"	134"	135"	136"	137"	138"	139"	140"	141"	142"	143"	144"	145"	146"	147"	148"	149"	150"	151"	152"	153"	154"	155"	156"	157"	158"	159"	160"	161"	162"	163"	164"	165"	166"	167"	168"	169"	170"	171"	172"	173"	174"	175"	176"	177"	178"	179"	180"	181"	182"	183"	184"	185"	186"	187"	188"	189"	190"	191"	192"	193"	194"	195"	196"	197"	198"	199"	200"	201"	202"	203"	204"	205"	206"	207"	208"	209"	210"	211"	212"	213"	214"	215"	216"	217"	218"	219"	220"	221"	222"	223"	224"	225"	226"	227"	228"	229"	230"	231"	232"	233"	234"	235"	236"	237"	238"	239"	240"	241"	242"	243"	244"	245"	246"	247"	248"	249"	250"	251"	252"	253"	254"	255"	256"	257"	258"	259"	260"	261"	262"	263"	264"	265"	266"	267"	268"	269"	270"	271"	272"	273"	274"	275"	276"	277"	278"	279"	280"	281"	282"	283"	284"	285"	286"	287"	288"	289"	290"	291"	292"	293"	294"	295"	296"	297"	298"	299"	300"	301"	302"	303"	304"	305"	306"	307"	308"	309"	310"	311"	312"	313"	314"	315"	316"	317"	318"	319"	320"	321"	322"	323"	324"	325"	326"	327"	328"	329"	330"	331"	332"	333"	334"	335"	336"	337"	338"	339"	340"	341"	342"	343"	344"	345"	346"	347"	348"	349"	350"	351"	352"	353"	354"	355"	356"	357"	358"	359"	360"	361"	362"	363"	364"	365"	366"	367"	368"	369"	370"	371"	372"	373"	374"	375"	376"	377"	378"	379"	380"	381"	382"	383"	384"	385"	386"	387"	388"	389"	390"	391"	392"	393"	394"	395"	396"	397"	398"	399"	400"	401"	402"	403"	404"	405"	406"	407"	408"	409"	410"	411"	412"	413"	414"	415"	416"	417"	418"	419"	420"	421"	422"	423"	424"	425"	426"	427"	428"	429"	430"	431"	432"	433"	434"	435"	436"	437"	438"	439"	440"	441"	442"	443"	444"	445"	446"	447"	448"	449"	450"	451"	452"	453"	454"	455"	456"	457"	458"	459"	460"	461"	462"	463"	464"	465"	466"	467"	468"	469"	470"	471"	472"	473"	474"	475"	476"	477"	478"	479"	480"	481"	482"	483"	484"	485"	486"	487"	488"	489"	490"	491"	492"	493"	494"	495"	496"	497"	498"	499"	500"	501"	502"	503"	504"	505"	506"	507"	508"	509"	510"	511"	512"	513"	514"	515"	516"	517"	518"	519"	520"	521"	522"	523"	524"	525"	526"	527"	528"	529"	530"	531"	532"	533"	534"	535"	536"	537"	538"	539"	540"	541"	542"	543"	544"	545"	546"	547"	548"	549"	550"	551"	552"	553"	554"	555"	556"	557"	558"	559"	560"	561"	562"	563"	564"	565"	566"	567"	568"	569"	570"	571"	572"	573"	574"	575"	576"	577"	578"	579"	580"	581"	582"	583"	584"	585"	586"	587"	588"	589"	590"	591"	592"	593"	594"	595"	596"	597"	598"	599"	600"	601"	602"	603"	604"	605"	606"	607"	608"	609"	610"	611"	612"	613"	614"	615"	616"	617"	618"	619"	620"	621"	622"	623"	624"	625"	626"	627"	628"	629"	630"	631"	632"	633"	634"	635"	636"	637"	638"	639"	640"	641"	642"	643"	644"	645"	646"	647"	648"	649"	650"	651"	652"	653"	654"	655"	656"	657"	658"	659"	660"	661"	662"	663"	664"	665"	666"	667"	668"	669"	670"	671"	672"	673"	674"	675"	676"	677"	678"	679"	680"	681"	682"	683"	684"	685"	686"	687"	688"	689"	690"	691"	692"	693"	694"	695"	696"	697"	698"	699"	700"	701"	702"	703"	704"	705"	706"	707"	708"	709"	710"	711"	712"	713"	714"	715"	716"	717"	718"	719"	720"	721"	722"	723"	724"	725"	726"	727"	728"	729"	730"	731"	732"	733"	734"	735"	736"	737"	738"	739"	740"	741"	742"	743"	744"	745"	746"	747"	748"	749"	750"	751"	752"	753"	754"	755"	756"	757"	758"	759"	760"	761"	762"	763"	764"	765"	766"	767"	768"	769"	770"	771"	772"	773"	774"	775"	776"	777"	778"	779"	780"	781"	782"	783"	784"	785"	786"	787"	788"	789"	790"	791"	792"	793"	794"	795"	796"	797"	798"	799"	800"	801"	802"	803"	804"	805"	806"	807"	808"	809"	810"	811"	812"	813"	814"	815"	816"	817"	818"	819"	820"	821"	822"	823"	824"	825"	826"	827"	828"	829"	830"	831"	832"	833"	834"	835"	836"	837"	838"	839"	840"	841"	842"	843"	844"	845"	846"	847"	848"	849"	850"	851"	852"	853"	854"	855"	856"	857"	858"	859"	860"	861"	862"	863"	864"	865"	866"	867"	868"	869"	870"	871"	872"	873"	874"	875"	876"	877"	878"	879"	880"	881"	882"	883"	884"	885"	886"	887"	888"	889"	890"	891"	892"	893"	894"	895"	896"	897"	898"	899"	900"	901"	902"	903"	904"	905"	906"	907"	908"	909"	910"	911"	912"	913"	914"	915"	916"	917"	918"	919"	920"	921"	922"	923"	924"	925"	926"	927"	928"	929"	930"	931"	932"	933"	934"	935"	936"	937"	938"	939"	940"	941"	942"	943"	944"	945"	946"	947"	948"	949"	950"	951"	952"	953"	954"	955"	956"	957"	958"	959"	960"	961"	962"	963"	964"	965"	966"	967"	968"	969"	970"	971"	972"	973"	974"	975"	976"	977"	978"	979"	980"	981"	982"	983"	984"	985"	986"	987"	988"	989"	990"	991"	992"	993"	994"	995"	996"	997"	998"	999"	1000"

©5/27/11

SUPERWAVE SUPPORTS INSTALLATION

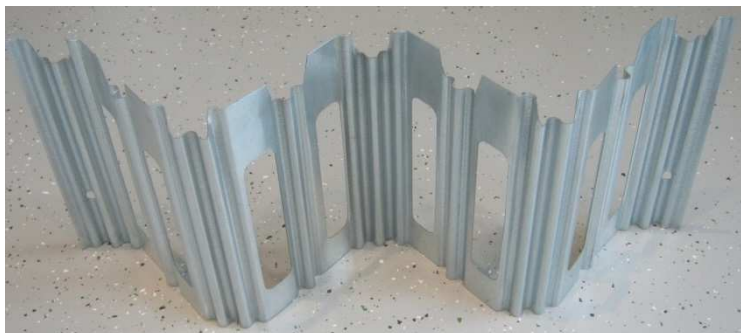


Image 1 – Full SuperWave Support



Image 2 – Half SuperWave Support

NOTE: Start floor installation on opposite side of bin from where unload auger or conveyor exits bin.

1. Find exact center of bin and mark it.
2. Determine where unload auger or conveyor will be located. Mark a line through center of bin along path where unload will be installed. Extend line to far end of bin and upward to top of sidewall sheet.
3. Mark lines on floor parallel to centerline at 1/2 of support spacing given for SuperWave Supports. See applicable table on following pages.
4. Draw parallel lines at suggested spacing, continuing across floor to bin walls.
5. Start at far side of bin and place SuperWave Supports on three or four lines marked on floor on each side of centerline. See Image 3. Middle two supports should be positioned up against bin wall or as close to it as possible to allow for perpendicular installation of flooring.



Image 3 – Positioning SuperWave Supports



Image 4 – Marking bin wall, installing first plank

6. Mark center of shortest floor plank. Position plank as shown in Image 4 so middle of plank lines up with mark on bin wall.
7. Tilting plank upward, place channel of plank into cutout of SuperWave Support as shown in Image 5. Ensure channel is between second and third tab of all SuperWave Supports, then lower plank into place until seated firmly. If using heavy-duty perforated flooring as shown in Image 6, every void between tabs in SuperWave Supports will be filled.
8. Place a Half SuperWave Support or other support under end of plank if there is more than 7" of overhang in bin up to 16 rings tall; more than 4" of overhang in bin 17-20 rings tall; or more than 2-1/2" in bin 21 or more rings tall. Shorter planks used at start and finish usually require an extra support.
9. Place next plank in bin, adjusting supports as necessary to ensure plank channels fit into cutouts in supports. Tamp plank into place. Ensure plank is centered in bin and there is an equal distance from end of each plank to bin wall. Make sure supports are on lines marked on floor.

SuperWave Supports Installation

10. Install planks until first set of supports is almost covered. Place next SuperWave Support.



Images 5 & 6 – Positioning Heavy-Duty Perforated floor plank on SuperWave Supports

11. After installing first few rows of flooring and supports, install a few pieces of flashing to hold floor in place. See Page 26 for flashing installation.

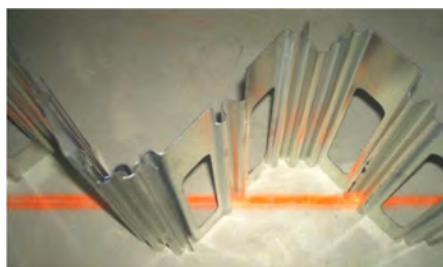


Image 7 – Ensuring alignment

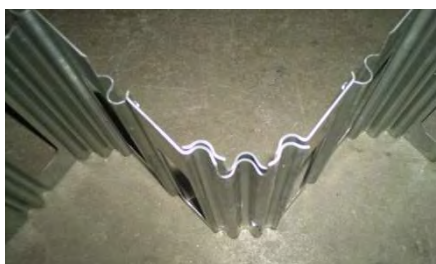


Image 8 – Nesting for Hawk Cut



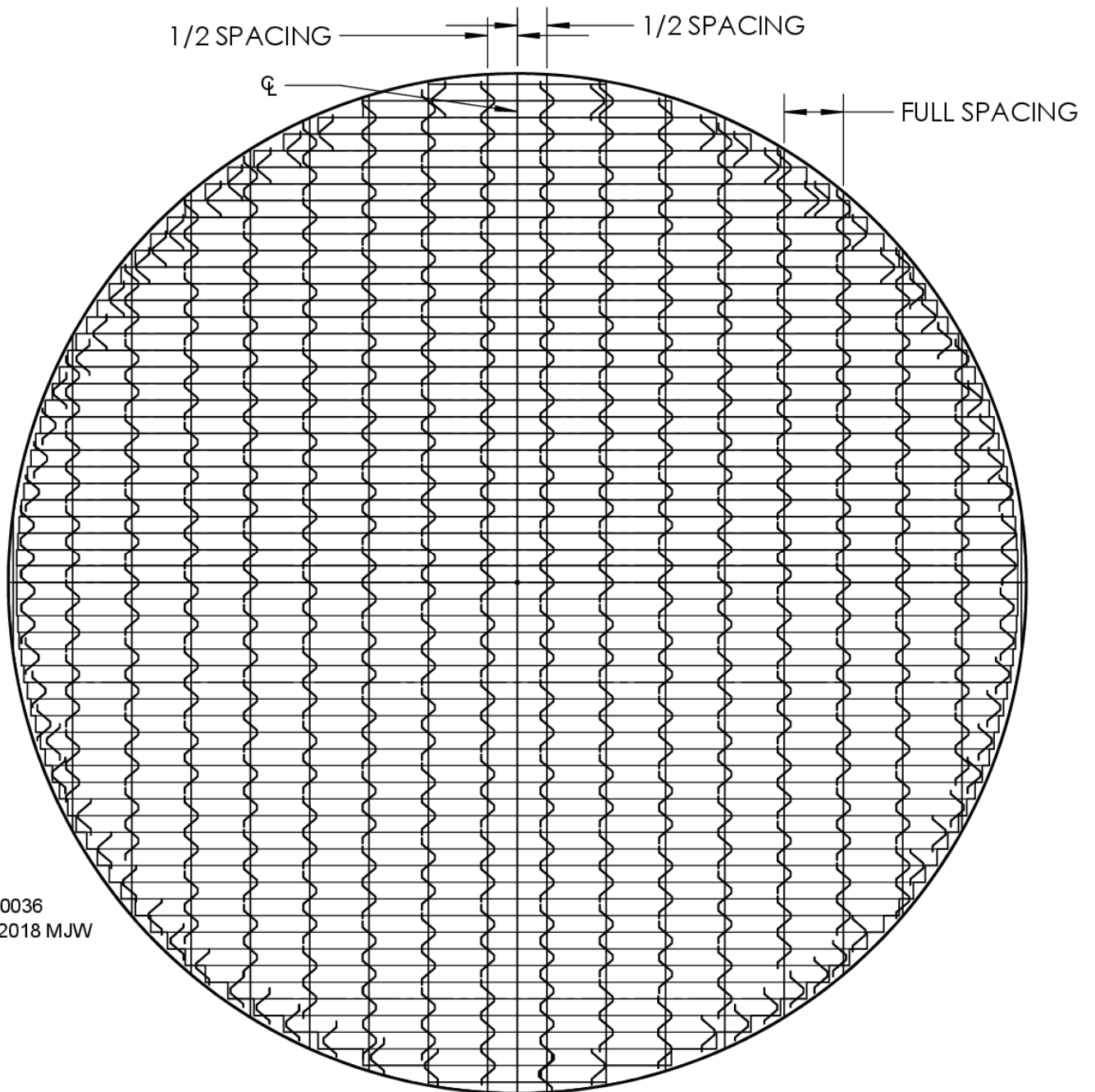
Image 9 – Slight gap for HD Perf.

12. Continue adding SuperWave Supports as installation of flooring moves toward center of bin. **NOTICE:** Ensure that supports stay centered on floor lines. **SuperWave Supports must be nested end-to-end as shown in Image 8 when used under Hawk Cut flooring. For Heavy-Duty Perforated flooring there can be end-to-end gaps between SuperWave supports as shown in Image 9. In all cases, each rib of floor plank must be supported.** Edge of subsequent nested support can be on either side of preceding support, but it is best to be consistent. If installing long planks – 30 feet or longer – have three people putting each plank into place, one near each end and one in middle. If planks are 40 feet long, a fourth crew member will be helpful.

NOTES: Use Double Super Supports instead of SuperWave Supports directly in front of aeration fan inlet to allow better airflow. When approaching a sump and where there is not enough space to use a SuperWave Support, use Half SuperWave Supports or use Double Super Supports. Fig. 11 shows Half SuperWave Supports along sidewalls.

13. Install sump(s) as directed in appropriate unload manual. Position Double Super Supports (as opposed to SuperWave Supports) along sides of sump(s) to support ends of floor planks. Use bridge over sump gate if required. See Pages 27-28. Use SuperWave Supports for rest of floor away from sump(s) and unload system.
14. Continue installing remainder of flooring and supports.
15. Install remainder of flashing.
16. Mount “Never Enter Bin” decal and “Safe Operation” decal near bin openings as described in safety packet, A3399 (bundled with floor).

IMPORTANT: Ensure supports do not block sump gate(s) from opening.



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08/15/2018 MJW

Fig. 11 – Typical SuperWave spacing in 36' dia. bin

SUPERWAVE™ SUPPORT REQUIREMENTS FOR HAWK CUT FLOORS

HAWK CUT AVAILABLE IN ALL SIZES 20 GA. PERF. AVAILABLE UP TO 48" DIA ONLY		HAWK CUT ONLY																							
BIN	DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																							
		3 & 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
		EAVE HEIGHT (FEET)																							
15	16"	17' 19"	20' 22"	23' 26"	27' 30"	31' 33"	34' 37"	38' 41"	42' 44"	45' 48"	49' 52"	53' 56"	57' 59"	60' 63"	64' 66"	67' 70"	71' 74"	75' 77"	78' 81"	82' 85"	86' 88"				
36	30"	36	30"	40	28"	42	22"	46	19"	60	16"	60	15"	60	14"	66	14"	72	13"	78	12"	78	12"		
12z	12z	12z	12z	28z	32z	32z	32z	16z	20z	20z	10z	22z	10z	24z	10z	28z	10z	28z	10z	28z	10z	24z	10z		
18"	44"	30"	44"	30"	26"	68	22"	64	20"	78	18"	88	16"	86	15"	92	14"	100	13"	100	13"	112	12"		
34z	34z	34z	34z	34z	38z	38z	20z	16z	10z	32z	10z	34z	10z	36z	10z	32z	10z	32z	10z	32z	10z	24z	10z		
21"	64"	30"	64	30"	68	28"	80	22"	82	20"	108	18"	116	15"	116	15"	130	13"	138	13"	152	12"	152		
30z	30z	30z	30z	50z	40z	40z	20z	12z	20z	12z	20z	12z	20z	12z	20z	12z	34z	12z	34z	12z	40z	12z	40z		
24"	74"	30"	74	30"	88	26"	104	22"	104	22"	134	17"	148	16"	164	14"	164	14"	180	13"	180	13"	194	12"	
52z	52z	52z	52z	50z	48z	48z	20z	14z	20z	14z	24z	14z	36z	14z	34z	14z	40z	14z	40z	14z	42z	14z	42z		
27"	100	30"	116	26"	136	22"	136	22"	174	18"	174	17"	198	15"	214	14"	214	14"	232	13"	232	13"	256	12"	
30"	122	30"	136	26"	160	22"	218	18"	232	17"	232	16"	242	15"	256	14"	256	14"	282	13"	282	13"	304	12"	
48z	48z	48z	48z	66z	66z	66z	20z	18z	20z	18z	24z	18z	44z	18z	60z	18z	60z	18z	60z	18z	52z	18z	52z		
146	30"	146	30"	166	26"	200	22"	258	18"	282	17"	282	16"	286	15"	320	14"	320	14"	346	13"	382	12"	382	
56z	60z	60z	60z	68z	68z	68z	20z	20z	20z	20z	50z	20z	50z	20z	52z	20z	54z	20z	54z	20z	44z	20z	44z		
166	30"	166	30"	196	26"	232	22"	298	18"	336	17"	336	16"	336	15"	378	14"	378	14"	406	13"	440	12"	440	
236	30"	268	26"	318	22"	368	19"	478	17"	498	16"	498	15"	508	15"	510	14"	510	14"	558	13"	606	12"	606	
132z	132z	152z	152z	130z	72z	72z	128z	24z	32z	24z	32z	24z	106z	24z	130z	24z	130z	24z	110z	24z	110z	24z	110z		
350	26"	350	26"	424	22"	522	18"	600	17"	632	16"	632	16"	680	14"	680	14"	738	13"	738	13"	806	12"	806	
152z	152z	152z	152z	138z	28z	28z	138z	28z	132z	28z	132z	28z	116z	28z	116z	28z	116z	28z	116z	28z	140z	28z	140z		
450	26"	450	26"	532	22"	622	19"	782	16"	806	15"	806	15"	850	14"	850	14"	922	13"	922	13"	1018	12"	1018	
164z	164z	194z	194z	162z	32z	32z	162z	32z	28z	32z	22z	32z	78z	32z	78z	32z	82z	32z	82z	32z	64z	32z	64z		
560	26"	560	26"	660	22"	768	19"	818	18"	942	16"	942	15"	1018	15"	1072	14"	1072	14"	1158	13"	1260	12"	1260	
200z	200z	208z	208z	174z	34z	34z	174z	34z	32z	34z	32z	34z	100z	34z	112z	34z	112z	34z	112z	34z	154z	34z	154z		
818	26"	976	22"	1202	18"	1202	18"	1346	16"	1448	15"	1448	15"	1570	14"	1570	14"	1702	13"	1702	13"	1854	12"	1854	
240z	240z	212z	212z	220z	42z	42z	210z	42z	192z	42z	144z	42z	162z	42z	162z	42z	174z	42z	174z	42z	150z	42z	150z		
880	26"	1046	22"	1290	18"	1290	18"	1440	16"	1534	15"	1688	14"	1826	13"	1826	13"	1998	12"	1998	12"	2194	11"	2194	
232z	240z	240z	240z	208z	44z	44z	176z	44z	150z	44z	220z	44z	220z	44z	200z	44z	200z	44z	164z	44z	164z	44z	164z		
960	26"	1142	22"	1410	18"	1410	18"	1552	16"	1654	15"	1842	14"	1996	13"	1996	13"	2176	12"	2176	12"	2388	11"	2388	
318z	310z	310z	310z	270z	46z	46z	220z	46z	188z	46z	270z	46z	238z	46z	238z	46z	248z	46z	248z	46z	248z	46z	248z		
1650	20"	1820	19"	1942	17"	1942	17"	2060	16"	2176	15"	2280	14"	2464	13"	2464	13"	2728	12"	2958	11"	2958	11"	2958	
400z	400z	400z	400z	400z	52z	52z	350z	52z	326z	52z	326z	52z	306z	52z	306z	52z	306z	52z	306z	52z	326z	52z	326z		
105	Dial	2326	18"	2464	18"	2596	17"	2740	16"	2956	15"	3166	14"	3362	13"	3362	13"	3648	12"	4004	11"	4004	11"	4004	
450z	450z	450z	450z	450z	60d	60d	450z	60d	426z	60d	426z	60d	426z	60d	426z	60d	426z	60d	426z	60d	450z	60d	450z		

NOTE: These specifications are for standard 7" plank Hawk Cut and Perforated floors.

Key: 1 = Number of SuperWave Supports 2 = SuperWave Support Spacing in inches
 3 = Number of Z Supports (z) 4 = Number of Double Super Supports (d)

SUPERWAVE™ SUPPORT REQUIREMENTS FOR HEAVY DUTY, 20 GA. PERF. FLOORS

BIN DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																							
	3 & 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
15'	17" - 19"	20" - 22"	23" - 26"	27" - 30"	31" - 33"	34" - 37"	38" - 41"	42" - 44"	45" - 48"	49" - 52"	53" - 56"	57" - 59"	60" - 63"	64" - 66"	67" - 70"	71" - 74"	75" - 78"	79" - 81"	82" - 85"	86" - 88"				
34	35" 38	31" 40	28" 44	27" 48	25" 48	24" 48	23" 48	22" 48	22" 48	22" 48	21" 50	21" 50	21" 52	20" 52	19" 52	18" 52	18" 52	18" 52	18" 52	18" 52	18" 52	18" 52		
18'	34" 48	31" 52	28" 54	26" 54	25" 62	23" 62	22" 62	22" 62	21" 68	21" 68	20" 72	20" 72	19" 74	19" 74	18" 74	18" 74	18" 74	18" 74	18" 74	18" 74	18" 74	18" 74		
21'	33" 72	30" 72	28" 74	26" 76	25" 78	23" 80	22" 80	22" 80	21" 86	21" 86	20" 86	20" 86	19" 88	19" 88	18" 96	18" 96	18" 96	18" 96	18" 96	18" 96	18" 96	18" 96		
24'	33" 86	30" 90	28" 90	26" 102	24" 102	23" 112	22" 112	22" 112	21" 118	21" 118	20" 120	20" 120	19" 128	19" 128	18" 136	18" 136	17" 136	17" 136	17" 136	17" 136	17" 136	17" 136		
27'	32" 116	29" 114	27" 114	26" 132	24" 134	23" 134	22" 148	22" 148	21" 148	21" 148	20" 150	20" 150	19" 150	19" 150	18" 158	18" 158	17" 160	17" 160	17" 160	17" 160	17" 160	17" 160		
30'	32" 130	29" 148	27" 148	25" 150	24" 166	23" 166	22" 182	22" 182	21" 182	21" 182	20" 190	20" 190	19" 190	19" 206	18" 224	17" 224	17" 224	17" 224	17" 224	17" 224	17" 224	17" 224		
33'	31" 160	29" 162	27" 188	25" 188	24" 208	23" 210	22" 214	22" 214	21" 230	21" 230	20" 230	19" 230	19" 230	18" 242	18" 242	17" 260	17" 260	17" 260	17" 260	17" 260	17" 260	17" 260		
36'	31" 204	28" 202	27" 220	25" 222	24" 222	23" 244	22" 244	22" 244	21" 262	21" 262	20" 262	19" 262	19" 292	18" 310	17" 310	17" 310	16" 310	16" 310	16" 310	16" 310	16" 310	16" 310		
42' Split	30" 282	28" 308	26" 310	24" 330	23" 338	22" 338	22" 368	22" 368	21" 390	21" 390	20" 390	19" 390	18" 408	18" 408	17" 438	17" 438	17" 460	17" 460	17" 460	17" 460	17" 460	17" 460		
48' Split	29" 360	27" 388	26" 412	24" 412	23" 452	22" 452	22" 478	22" 478	21" 478	21" 478	20" 500	19" 500	18" 526	18" 526	17" 552	17" 552	16" 578	16" 578	16" 578	16" 578	16" 578	16" 578		
54' Split	29" 452	27" 480	25" 486	24" 518	23" 558	22" 558	22" 598	22" 598	21" 626	21" 626	20" 626	19" 626	18" 668	18" 668	17" 720	17" 720	16" 720	16" 720	16" 720	16" 720	16" 720	16" 720		
60' Split	28" 576	26" 576	25" 646	23" 646	22" 678	21" 678	21" 714	21" 714	20" 750	20" 750	19" 798	18" 798	18" 836	17" 866	16" 866	16" 866	15" 954	15" 954	15" 954	15" 954	15" 954	15" 954		
72' Split	27" 826	25" 852	24" 906	23" 952	22" 952	21" 980	20" 1082	20" 1082	19" 1124	19" 1124	18" 1154	17" 1154	17" 1154	16" 1242	16" 1242	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304		
75' Split	27" 894	25" 936	24" 936	23" 986	22" 1026	21" 1062	20" 1178	20" 1178	19" 1200	19" 1200	18" 1238	17" 1238	17" 1238	16" 1344	16" 1344	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422		
78' Double Split	26" 1014	25" 1014	24" 1096	22" 1096	21" 1144	21" 1192	20" 1286	20" 1286	19" 1340	19" 1340	18" 1372	17" 1372	17" 1372	16" 1468	16" 1468	15" 1556	15" 1556	15" 1556	15" 1556	15" 1556	15" 1556	15" 1556		
90' Double Split	25" 1326	24" 1396	23" 1466	22" 1558	21" 1608	20" 1660	19" 1660	19" 1660	18" 1802	18" 1802	17" 1872	17" 1872	17" 1872	16" 2000	16" 2000	15" 2082	15" 2082	15" 2082	15" 2082	15" 2082	15" 2082	15" 2082		
105' Double Split	1794	24" 1854	23" 1912	22" 2042	21" 2106	20" 2238	19" 2370	19" 2370	18" 2490	18" 2490	17" 2490	17" 2490	16" 2606	16" 2606	15" 2786	15" 2786	15" 2964	15" 2964	15" 2964	15" 2964	15" 2964	15" 2964		

NOTE: These specifications are for 20 ga. heavy duty Perforated floors.

Key:

1	2	4
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1 = Number of SuperWave Supports
 2 = SuperWave Support Spacing in inches
 4 = Number of Double Super Supports (d)

SUPERWAVE™ SUPPORT REQUIREMENTS FOR HEAVY DUTY, 18 GA. PERF. FLOORS

BIN DIA.	# OF RINGS - SUKUP BINS (44" RING HEIGHT)																							
	3 & 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
15'	17' - 19'	20' - 22'	23' - 26'	27' - 30'	31' - 33'	34' - 37'	38' - 41'	42' - 44'	45' - 48'	49' - 52'	53' - 56'	57' - 59'	60' - 63'	64' - 66'	67' - 70'	71' - 74'	75' - 78'	79' - 81'	82' - 85'	86' - 88'				
32	39" 34	35" 38	33" 38	30" 38	29" 38	27" 44	26" 48	25" 48	24" 48	23" 48	23" 48	23" 48	23" 48	23" 48	21" 50	21" 50	20" 52	20" 52	20" 52	20" 52	19" 52	19" 52		
18'	38" 42	35" 48	32" 50	30" 52	28" 54	27" 54	26" 58	24" 62	23" 62	22" 62	21" 68	21" 68	21" 68	21" 68	21" 72	20" 72	20" 72	20" 72	20" 72	20" 72	19" 74	19" 74		
42	4d	4d	4d	30d	28d	8d	8d	8d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	8d	8d		
21'	38" 72	34" 72	32" 72	30" 72	28" 72	27" 76	25" 78	24" 78	23" 78	23" 80	22" 80	22" 86	21" 86	21" 86	21" 86	20" 86	20" 86	19" 88	19" 88	19" 88	19" 88	19" 88		
4d	4d	4d	4d	4d	4d	27d	4d	8d	8d	8d	10d	10d	8d	8d	8d	8d	8d	12d	12d	12d	12d	12d		
24'	37" 80	34" 82	32" 86	30" 90	28" 90	26" 102	25" 102	24" 102	23" 102	23" 112	22" 112	22" 118	21" 118	21" 118	21" 120	20" 128	19" 128	18" 136	18" 136	18" 136	18" 136	18" 136		
4d	4d	4d	4d	4d	4d	4d	4d	8d	8d	8d	8d	12d	12d	12d	12d	12d	16d	16d	16d	16d	26d	26d		
27'	37" 96	34" 96	31" 116	29" 118	28" 118	26" 120	25" 132	24" 134	23" 134	22" 134	22" 148	21" 148	21" 148	21" 150	20" 150	19" 150	18" 158	18" 158	18" 158	18" 158	18" 158	18" 158		
8d	8d	8d	8d	12d	12d	26d	8d	8d	8d	8d	8d	8d	8d	8d	12d	12d	12d	12d	12d	12d	26d	26d		
30'	36" 110	33" 128	31" 130	29" 148	27" 148	26" 148	25" 150	24" 166	23" 166	23" 166	22" 182	21" 182	21" 182	21" 188	20" 190	19" 190	18" 206	18" 206	18" 206	18" 206	18" 206	18" 206		
8d	8d	8d	12d	12d	27d	24d	14d	14d	16d	16d	20d	20d	20d	20d	20d	12d	12d	12d	12d	12d	30d	30d		
33'	36" 136	33" 148	31" 160	29" 162	27" 188	26" 188	25" 188	24" 208	23" 210	22" 214	21" 214	21" 214	21" 230	20" 230	19" 242	18" 242	18" 242	18" 242	18" 242	18" 242	18" 242	18" 242		
12d	8d	20d	20d	20d	27d	27d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	32d	32d		
36'	35" 178	33" 178	30" 180	29" 202	27" 204	26" 220	25" 222	24" 222	23" 244	22" 244	21" 244	21" 244	21" 262	20" 262	19" 262	18" 292	18" 292	18" 292	18" 292	18" 292	18" 292	18" 292		
16d	12d	12d	29d	27d	27d	16d	16d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	12d	32d	32d		
42' Split	34" 254	32" 254	30" 282	28" 282	27" 308	25" 310	24" 330	23" 338	22" 338	22" 368	21" 390	20" 390	19" 390	18" 408	18" 408	18" 438	17" 438	17" 438	17" 438	17" 438	17" 438	17" 438		
16d	16d	16d	16d	16d	27d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	16d	50d	50d		
48' Split	34" 320	31" 350	29" 350	28" 388	26" 388	25" 412	24" 412	23" 452	22" 478	21" 478	20" 478	20" 500	19" 500	18" 526	18" 526	18" 552	17" 552	17" 552	17" 552	17" 552	17" 552	17" 552		
16d	16d	16d	16d	16d	26d	16d	16d	16d	16d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	44d	44d		
54' Split	33" 390	31" 424	29" 452	27" 452	26" 480	25" 486	24" 518	23" 558	22" 558	21" 558	20" 626	19" 626	18" 626	17" 668	17" 668	17" 668	17" 668	17" 668	17" 668	17" 668	17" 668	17" 668		
20d	20d	20d	27d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	44d	44d		
60' Split	32" 496	30" 542	28" 544	27" 576	25" 610	24" 646	23" 646	22" 678	21" 714	20" 714	20" 750	19" 750	18" 798	18" 836	17" 836	17" 866	16" 954	15" 954	15" 954	15" 954	15" 954	15" 954		
20d	20d	20d	27d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	20d	44d	44d		
72' Split	31" 736	29" 770	27" 826	26" 826	25" 852	24" 906	23" 952	22" 952	21" 980	20" 1082	19" 1082	18" 1124	18" 1124	18" 1154	17" 1242	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304	15" 1304		
22d	20d	27d	20d	20d	28d	24d	28d	28d	28d	28d	28d	28d	28d	28d	28d	28d	28d	28d	28d	28d	74d	74d		
75' Split	31" 750	29" 832	27" 846	26" 894	25" 894	24" 936	23" 982	22" 1026	21" 1026	20" 1178	19" 1178	18" 1200	18" 1200	18" 1238	17" 1344	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422	15" 1422		
28d	28d	24d	26d	26d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	24d	60d	60d		
78' Double Split	30" 932	28" 932	27" 960	26" 1014	25" 1014	24" 1054	23" 1096	22" 1144	21" 1192	20" 1286	19" 1286	18" 1340	18" 1372	17" 1372	17" 1468	16" 1556	15" 1556	15" 1556	15" 1556	15" 1556	15" 1556	15" 1556		
20d	20d	20d	24d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	60d	60d		
90' Double Split	29" 1176	28" 1294	26" 1280	25" 1326	24" 1396	23" 1466	22" 1558	21" 1608	20" 1608	19" 1660	18" 1660	17" 1802	17" 1802	17" 2000	16" 2082	15" 2176	14" 2176	14" 2176	14" 2176	14" 2176	14" 2176	14" 2176		
28d	28d	28d	32d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	36d	52d	52d		
105' Double Split	1542	28" 1600	27" 1732	25" 1794	24" 1854	23" 1912	22" 2042	21" 2106	20" 2106	19" 2238	18" 2238	17" 2490	17" 2490	17" 2606	16" 2786	15" 2964	14" 2964	14" 2964	14" 2964	14" 2964	14" 2964	14" 2964		
42d	42d	40d	40d	40d	30d	24d	24d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	32d	60d	60d		

NOTE: These specifications are for 18 ga. heavy duty Perforated floors.

Key: 1 2 4

1 = Number of SuperWave Supports
 2 = SuperWave Support Spacing in inches
 4 = Number of Double Super Supports (d)

FLOOR INSTALLATION USING CONCRETE BLOCKS FOR STIR DRYING BINS AND STORAGE BINS

1. Refer to Concrete Block Spacing and Quantity Recommendation Chart before beginning assembly.

IMPORTANT: When using a recirculating device or continuous-flow bottom unload system, floor supported by concrete blocks requires intermediate support braces below floor. Check with recirculator or continuous flow unload system manufacturer and purchase intermediate braces from them. Otherwise, Z-Post floor supports are recommended when installing recirculator or continuous flow bottom unload system. Maximum grain depth with recirculator or continuous flow bottom unload system is 20'.

Stirring machines are not recirculators; therefore, support spacing is based on eave height.

2. Chalk-mark centerline of bin pad in same direction unloading tube will run.

3. Measure one-half of "B" dimension on either side of centerline and chalk-mark another line. Continue to measure "B" dimension from this line until reaching bin walls.

4. Place concrete blocks around perimeter of bin, staying 2-3 inches from bin wall. Place rows of concrete blocks so they are centered on chalk lines and so air will flow horizontally through holes in blocks. See Fig. 12.

IMPORTANT: If installing a split-plank floor, ensure splices are supported by concrete blocks. It may be necessary to move those blocks 1" off of center of chalk lines to ensure proper support of plank splices. See plank splicing instructions on Page 31.

NOTICE: Be sure center sump is supported adequately by concrete blocks. It may be necessary to stagger blocks around center sump to provide proper support. Be sure no blocks will interfere with travel of center sump slide gate.

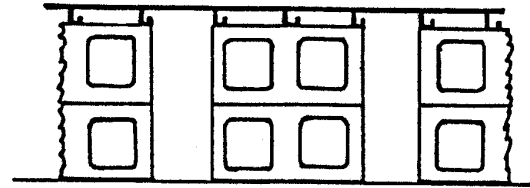
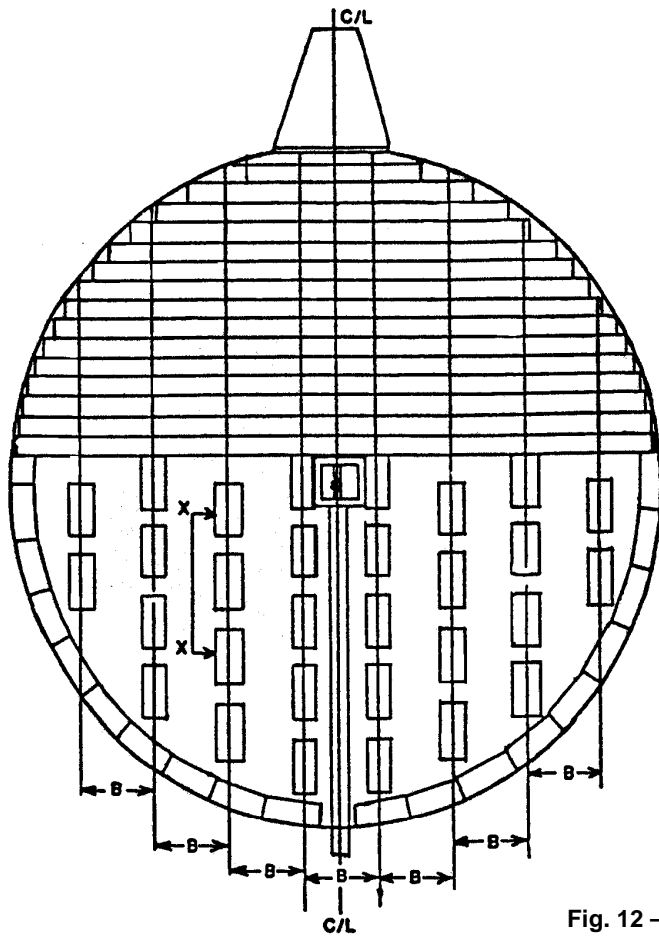
5. Start laying floor by using shortest floor plank first. Open-channel edge of floor must face center of bin. Second piece of floor may be snapped into place by pushing down on inside edge of floor. Refer to proper bin diameter Channel-Lok floor layout page to find specified floor plank lengths and order in which they are assembled.

6. Continue this procedure with remainder of floor. On longer pieces it may be necessary to snap floor pieces together starting at one end and gradually move toward other end.

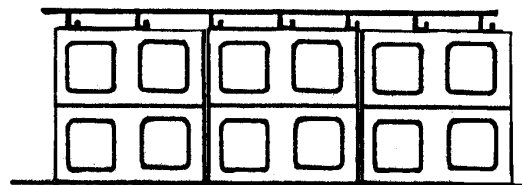
7. When floor has been installed, see Page 26 for instructions on installing floor flashing.

WARRANTY VALID ONLY WHEN CONCRETE IS LEVEL AND FLOORING IS INSTALLED ACCORDING TO CHANNEL-LOK SPECIFICATIONS AND INSTRUCTIONS.

CONCRETE BLOCK SPACING AND QUANTITY RECOMMENDATIONS



Section X-X
Typical block spacing 8" x 8" x 16" blocks.



Section X-X
Typical block spacing for recirculating and continuous flow bottom unload systems.

NOTE: Due to high temperatures and airflows required for continuous flow drying, concrete blocks are not recommended.

Fig. 12 – Concrete block floor supports

IMPORTANT: See previous page for plank installation instructions.
Maximum peak grain depth on concrete (with no steel supports) is:

Hawk Cut floor - 40'
20 gauge Round Hole Perforated Floor - 20'

CHART BELOW (QUANTITIES) IS FOR TWO HIGH BLOCK

BIN DIA	EAVE HEIGHT						RECIRCULATOR (1)	
	Up to 20		21'-30'		31'-34'			
	Qty.	"B"	Qty.	"B"	Qty.	"B"	Qty.	"B"
15'	120	26"	---	---	---	---	---	---
18'	180	24"	235	17"	23	17"	276	18"
21'	270	22"	330	17"	330	17"	370	18"
24'	340	22"	400	17"	500	13"	500	18"
27'	410	22"	560	16"	640	13"	626	18"
30'	500	22"	675	16"	785	13"	755	18"
33'	610	22"	790	16"	1010	13"	936	18"
36'	725	22"	936	16"	1200	13"	1110	18"
42'	1080	20"	1300	16"	1570	13"	1510	18"
48'	1330	20"	1640	16"	NR	NR	NR	NR

(1) Maximum eave height 20'. Recirculator requires use of intermediate support brace centered under each plank. See previous page.

Flashing Installation

FLASHING INSTALLATION

If sweep auger will be used in bin, flashing must be overlapped as shown in Fig. 13 so that sweep wheel will "climb up" flashing sections as sweep travels clockwise around bin. This will prevent wheel from catching on edges of flashing. Reverse overlap if sweep will run counterclockwise.

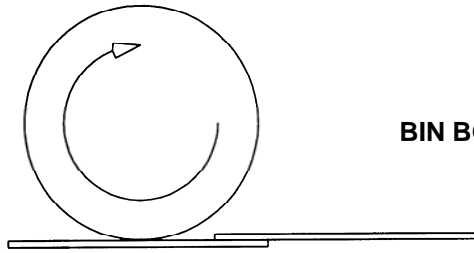
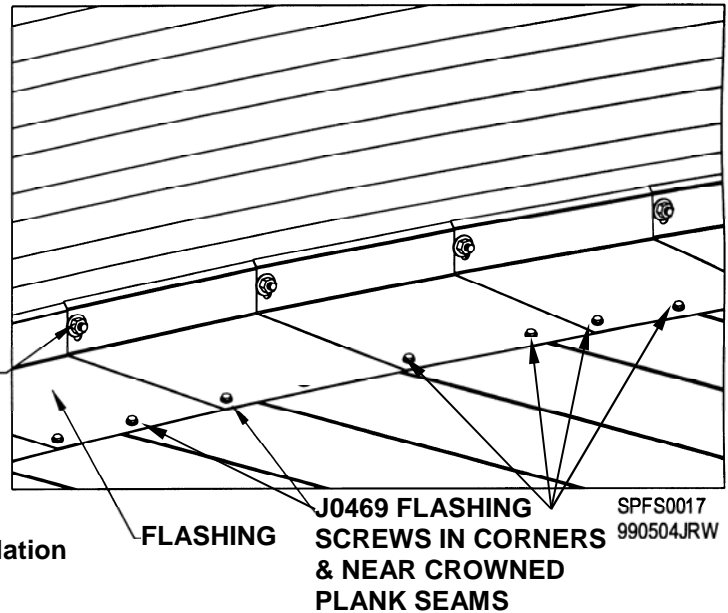


Fig. 13 – Flashing installation



Install a #10 x 3/4" flashing screw (J0469) at corner of each piece of flashing so screw goes through two pieces of flashing and into flooring. See Fig. 13. Install an additional screw if two crowned planks meet more than 2" from seam between flashing pieces.

See Fig. 14 or Fig. 15 to properly bolt flashing to side of bin. Use pre-punched plenum holes if present. If not, drill holes in sidewall. **IMPORTANT:** Use 5/16" bolts for bins 15' to 54' diameter; 3/8" bolts for bins 60' dia. or larger. **NOTE:** If flashing was ordered pre-punched for Airways, pieces that are not pre-punched go under bin door.

Fig. 14 – Bolting on hill

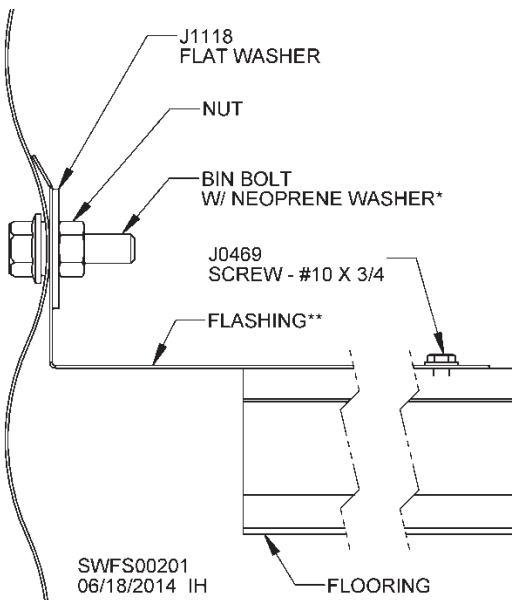
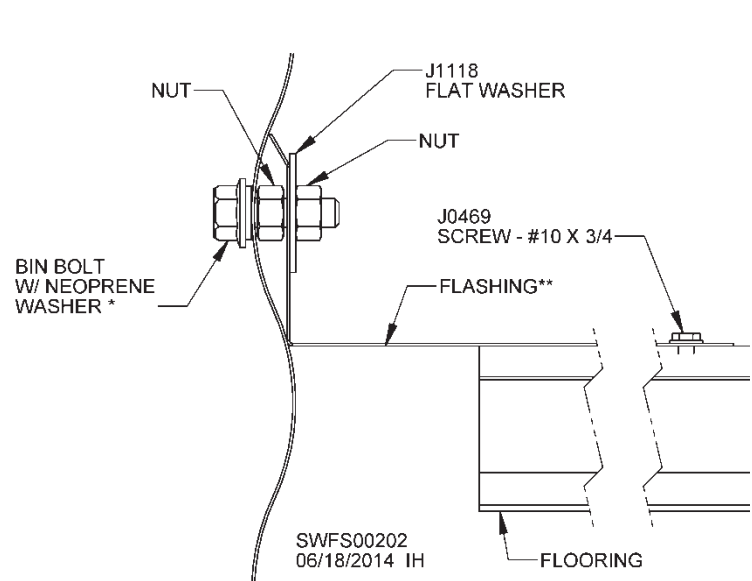


Fig. 15 – Bolting in valley



***Bin bolts with neoprene washers not included with flashing.**

SUPPORTING FLOOR OVER UNLOAD SYSTEM

DISCLAIMER: It shall not be the responsibility of Sukup Manufacturing Co. to determine suitable support system for flooring over unload system. Customer (or customer’s retained engineer or construction supervisor) is responsible. Consideration should include, but not be limited to, live loads, dead loads and seismic zone. Sukup Manufacturing Co. will not be responsible for any damage to a product, including, but not limited to, any damage that results from inadequate or improper support methods and materials.

Table below shows locations where bridging is needed and shows bridging kits (P5110 or P5111) offered by Sukup Manufacturing Co.

Bridging locations & kits	CENTER SUMP GATE WIDTH	INDEPENDENT INTERMEDIATE SUMP WIDTH	INTERMEDIATE SUMP WIDTH	UNLOAD WIDTH
6" Sweepway	16" (P5110)	N/A	N/A	6" (P5110)
8" Sweepway	23 1/2" (P5111)	13 1/2" (P5110)	N/A	8" (P5110)
10" Sweepway	23 1/2" (P5111)	13 1/2" (P5110)	N/A	10" (P5110)
10" U-trough	N/A	N/A	N/A	10 1/2" (P5110)
8" Loop w/Powersweep	16" (P5110)	N/A	14" (P5110)	8" (P5110)
10" Loop w/Powersweep	16" (P5110)	N/A	14" (P5110)	10" (P5110)
12" Loop w/Powersweep	20" (P5111)	N/A	20" (P5111)	12" (P5110)
9" wide Conveyor w/Powersweep	N/A	N/A	N/A	13 1/2" (P5110)
12" wide Conveyor w/Powersweep	N/A	N/A	N/A	16 1/2" (P5110)
16" wide Conveyor w/Powersweep	N/A	N/A	N/A	20 1/2" (P5111)
21" wide Conveyor w/Powersweep	N/A	N/A	N/A	25" (P5111)

*NOTE: 14" wide at splices.

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If applicable table elsewhere in this manual (for type of supports used under floor) says supports should be placed closer than allowed by width of sump gate and/or unload system, then bridging is needed to support floor planks at sump(s) and/or along unload auger or conveyor. Use tables below to determine if one or two bridge tubes are required per floor plank. If two are required, then Heavy Duty Double Super Supports must be used. **NOTE:** Double Super Supports may be used along unload if other supports are too wide.

18" SPAN (P5110 BRIDGE)							
Single bridge tube per plank & Standard Double Super Supports				Two bridge tubes per plank & HD Double Super Supports			
	≤ 48' dia.	54-78'	90-105'		≤ 48' dia.	54-78'	90-105'
7" Hawk Cut or Perf.	21	19	17	7" Hawk Cut or Perf.	No limit	No limit	No limit
20ga HD Perf.	21	19	17	20ga HD Perf.	No limit	No limit	No limit
18ga HD Perf.	21	19	17	18ga HD Perf.	No limit	No limit	No limit

P5110 (18") bridging limits by bin diameter, number of rings & flooring type

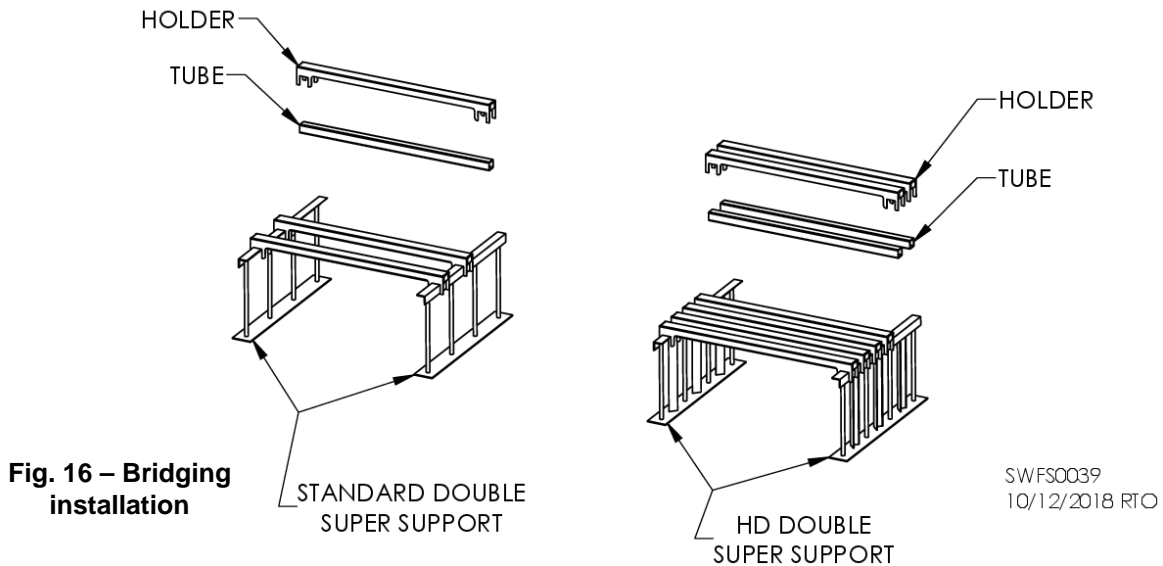
26" SPAN (P5111 BRIDGE)							
Single bridge tube per plank & Standard Double Super Supports				Two bridge tubes per plank & HD Double Super Supports			
	≤ 48' dia.	54-78'	90-105'		≤ 48' dia.	54-78'	90-105'
7" Hawk Cut or Perf.	12	9	7	7" Hawk Cut or Perf.	22	20	18
20ga HD Perf.	17	15	13	20ga HD Perf.	29	27	25
18ga HD Perf.	20	18	16	18ga HD Perf.	30	27	26

P5111 (26") bridging limits by bin size (dia. & # of rings) & flooring type

Bridging supports by others should at minimum be made of 1-1/4 x 1-1/4" high-strength steel tube with a thickness of 1/8", or material of similar strength, and must be kept from sliding off of supports using tabs, screws or other means.

IMPORTANT: Supports used for bridging do not diminish need to abide by required spacing of other supports used under floor.

Supporting Floor over Unload System



To install Sukup bridging, place Double Super Supports (Standard or Heavy-Duty) on each side of unload tube or conveyor. Place tube on top of supports and place holder on top of tube. Ensure that fingers of holders “grip” tops of Double Super Supports. See Fig. 16.

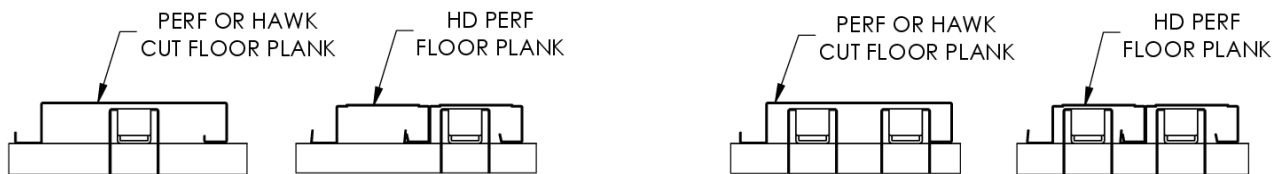


Fig. 17 – Centering bridges under planks

Fig. 17 shows side view of bridging under various floor plank types. Bridging must be at center of each plank. **IMPORTANT:** If only one bridge is required under a Heavy Duty plank, it must be under the same channel of each plank.

Fig. 18 shows dimensions of bridge kits P5110 and P5111.

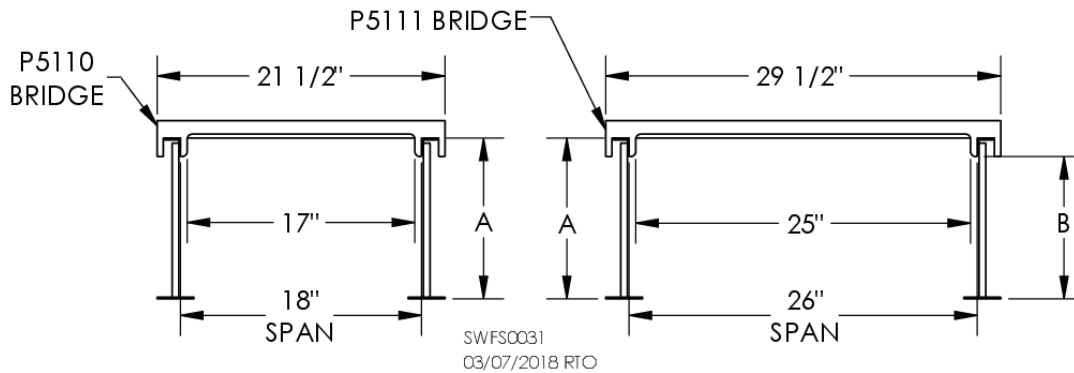


Fig. 18 – Bridge kit dimensions

SUPPORT HEIGHT	5 1/4"	13 1/4"	15 7/8"	17"
A =	4"	12"	14 5/8"	17 1/8"
B =	2 5/8"	10 5/8"	13 1/4"	15 3/4"

SUPPORTING FLOOR PLANKS AT SPLICES

Ends of floor planks must not extend more than 7” beyond floor supports in bins up to 16 rings tall; more than 4” in bins 17 to 20 rings tall; or more than 2-1/2” in bins 21 or more rings tall. If either floor plank at splice has a longer unsupported overhang, additional supports will be needed. See Fig. 19.

NOTE: If bin has 21 or more rings, a support must be placed 2”, plus or minus 1/2”, from edge of each plank at splice, no matter which type of supports are used in bin.

NOTE: No floor support should be closer than 1-1/2” from end of a plank at splice.

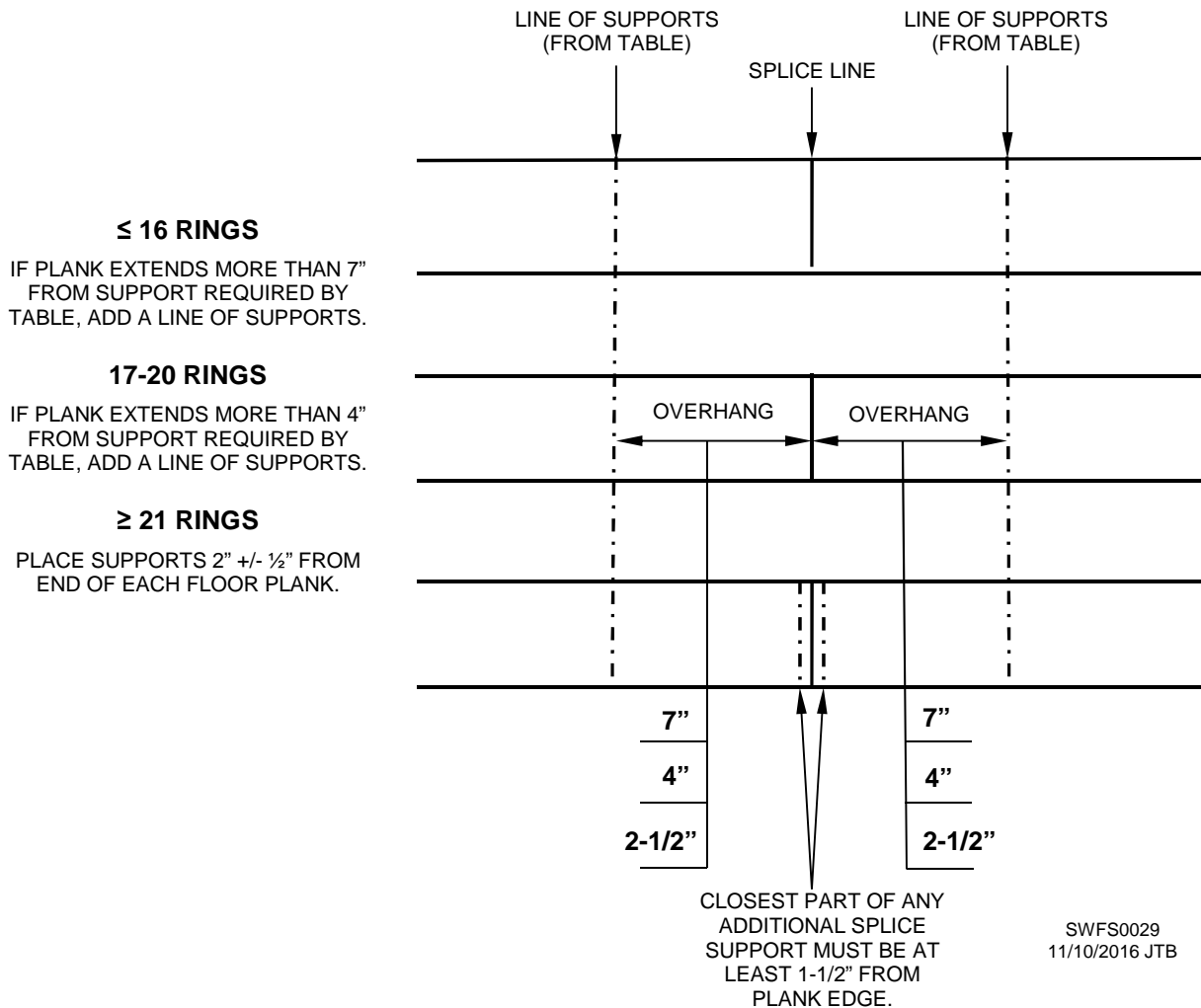


Fig. 19 – Supporting floor planks at splices

INSTALLING SPLIT PLANKS AT CENTER SUMP

To limit use of short pieces of flooring that can be difficult to support, follow instructions below for split-plank floors in bins 36' to 75' dia. Split lines on each side of center sump will be farther apart than original split lines. Beginning at center sump, cut planks as follows:

1. Cut "A" plank in half. Use halves as outermost segments of split plank. See Fig. 20.
2. Measure distances between sump and inner ends of "A" planks. Cut "B" plank to fit between sump and ends of "A" plank segments just installed.
3. For next plank, cut "B" plank in half. Use halves as outermost segments of split plank.
4. Measure distances between sump and inner ends of "B" planks. Cut "A" plank to fit between sump and ends of "B" plank segments just installed.
5. Repeat Steps 1-4 until past sump, then install planks as usual.

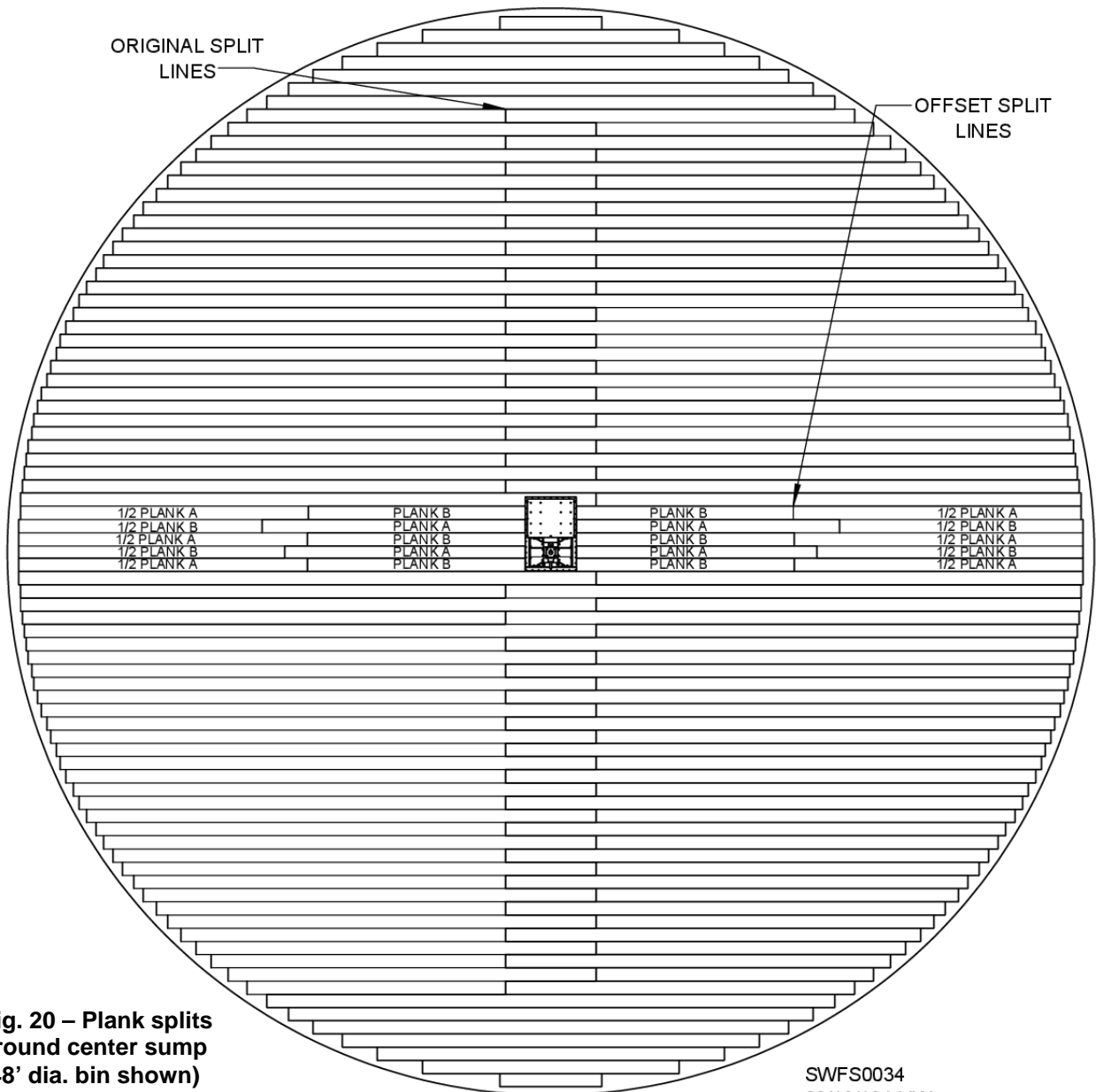


Fig. 20 – Plank splits around center sump (48' dia. bin shown)

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FLOOR PLANK SPLICING

If bin floor plank is made up of two or more pieces, each joint must be spliced.

Using self-drilling screws, join two pieces of floor plank by fastening perforated splice as shown in Fig. 21.

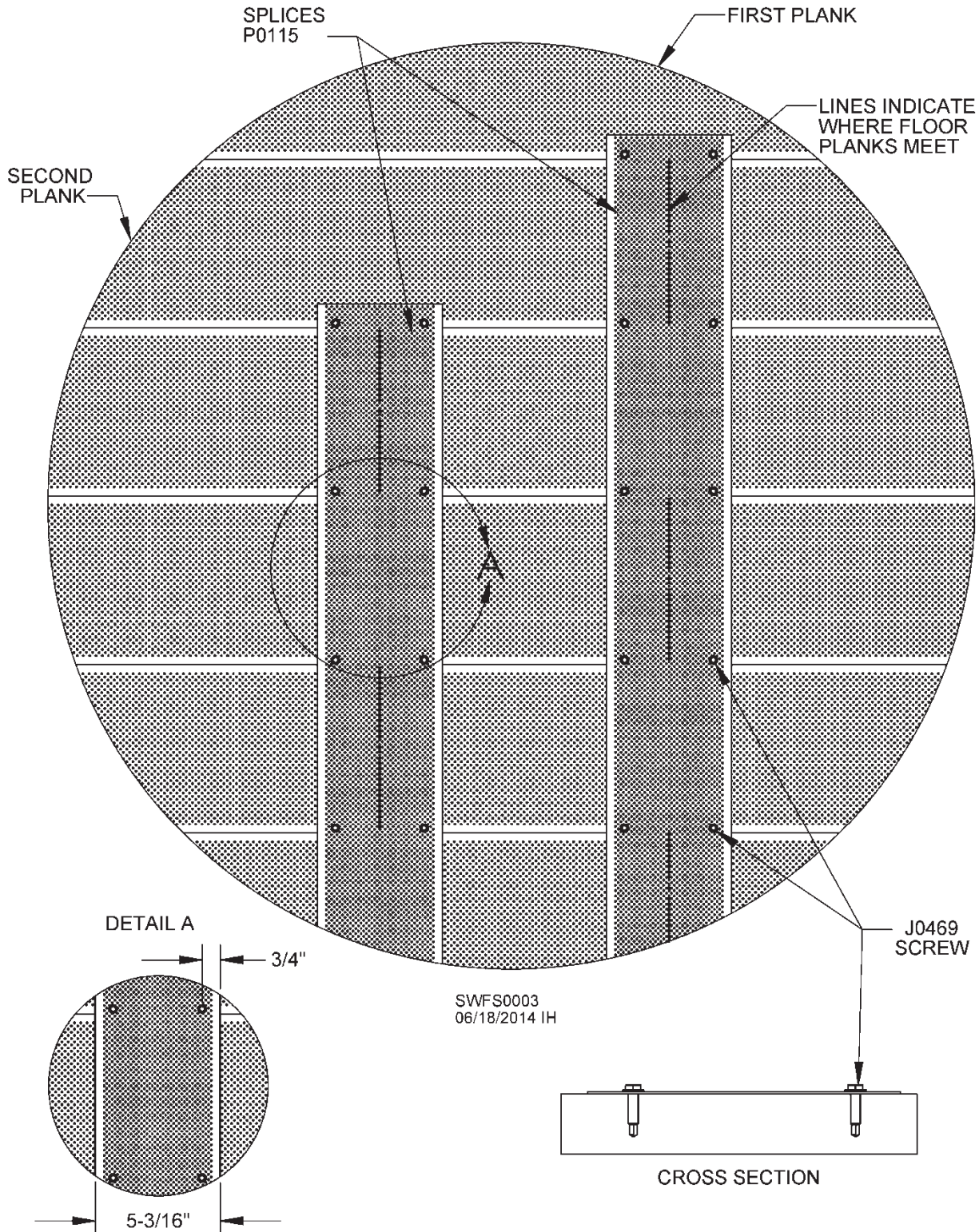


Fig. 21 – Splicing floor planks

Layout & Location of Floor Planks

Locating & Installing Floor Planks

Included with each of the following floor plank layouts are instructions for locating planks. Please read them carefully before beginning floor assembly. Instructions apply to all Channel-Lok planks.

See applicable floor support table for spacing and total number of supports based on bin eave height. Tables for Z-Post Supports are on Pages 11-12; for Super Supports are on Pages 15-17; and for SuperWave Supports are on Pages 21-23.

Place supports under each plank and install according to applicable instructions. Ends of floor planks must not extend more than 7" beyond floor supports in bins up to 16 rings tall; more than 4" in bins 17-20 rings tall; or more than 2-1/2" in bins 21 or more rings tall. Ensure that support closest to end of each plank also supports both adjacent planks.

Floors in 36', 42' and 48' dia. bins can be ordered split or non-split. Floors in bins larger than 48' in diameter are all split-plank floors.

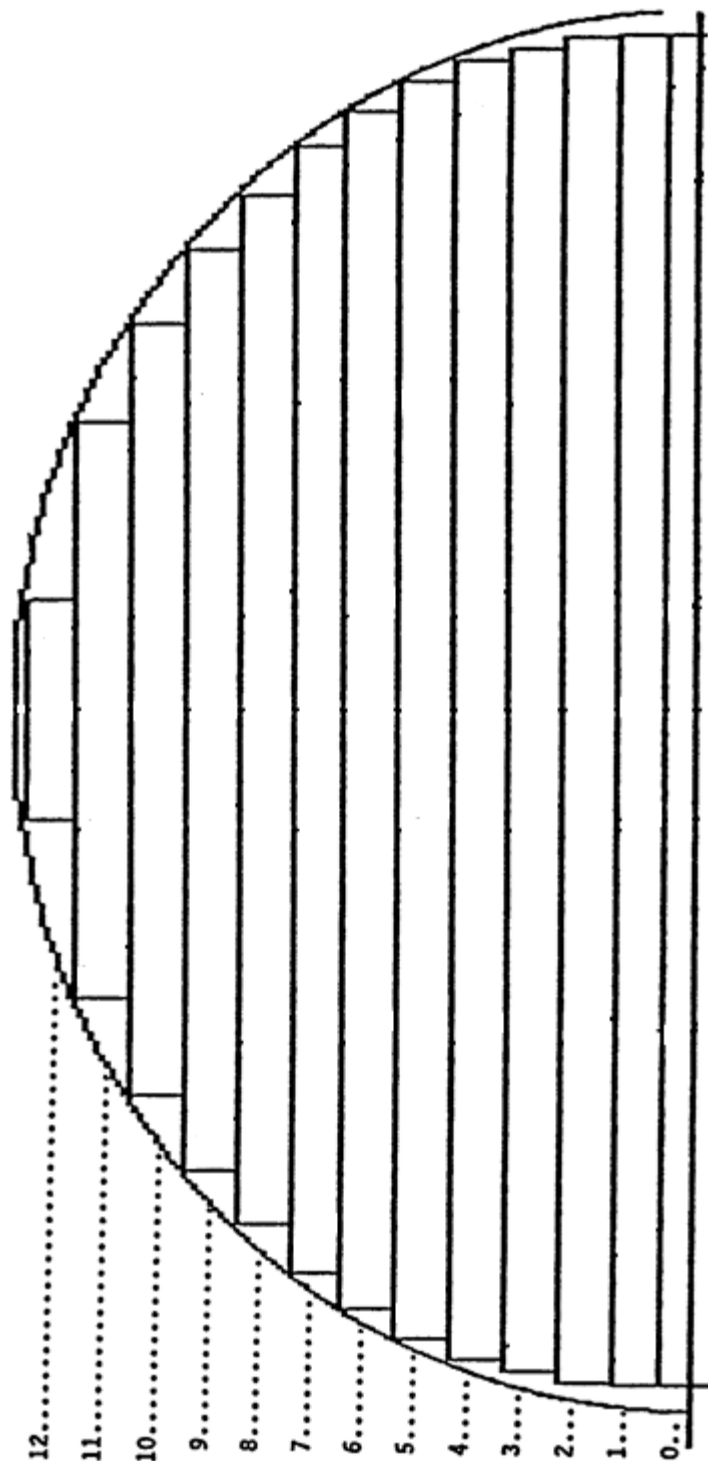
The following notes apply to split-plank floors in bins 36' diameter and larger:

- Lengths of split pieces are shown for each plank number.
- Locations of end-to-end seams in split planks must alternate as shown in plank layout drawing for bin. See Page 30 for moving split lines farther from center sump.
- Ensure there is adequate support under end of each plank at splice. See Page 29.
- See Page 31 for plank splicing instructions.

There is only one plank "0" and two of all others (one on each side of centerline) for floors in bins 15', 21', 27', 33', 36' (split), 48', 60', 72', 75' and 78' diameter:

LAYOUT & LOCATION OF FLOOR PLANKS

15' DIA. BIN PLANK LAYOUT



ONLY 1 OF PLANK "0" AND 2 OF ALL OTHERS. PLANK "0" SPLITS CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING PLANKS FOR 15' DIA. BIN

A 15' floor is shipped in one bundle. It contains two stacks of flooring.

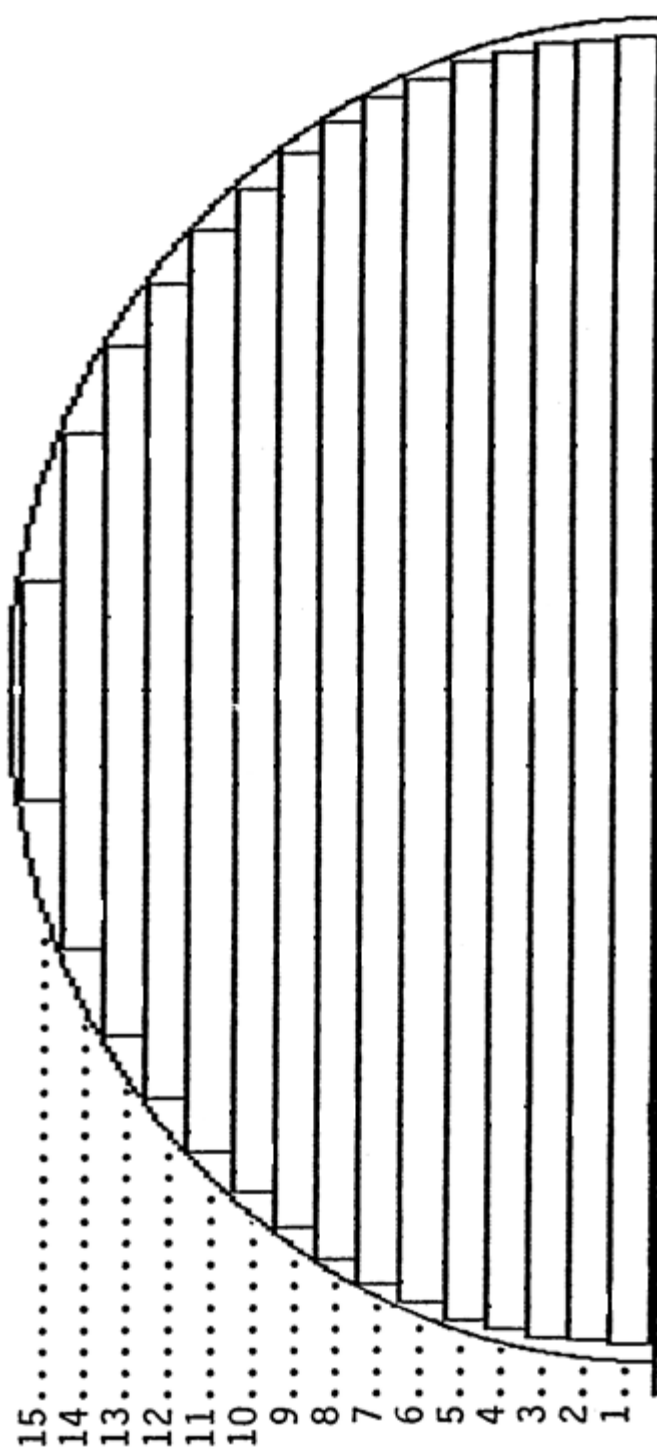
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (plank #12, measuring 2' 4") is starter plank.
3. Lay out remaining planks of stack No. 1. Install in descending order from plank #12 to plank #0, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

15' FLOOR

Stack No. 1		Stack No. 2	
Plank #	Length	Plank #	Length
Top of stack			
12	2' 4"	12	2' 4"
11	6' 1"	11	6' 1"
10	8' 2"		
		10	8' 2"
9	9' 9"	9	9' 9"
8	10' 11"		
		8	10' 11"
7	11' 11"	7	11' 11"
6	12' 8"		
		6	12' 8"
5	13' 4"	5	13' 4"
4	13' 9"		
		4	13' 9"
3	14'	3	14"
2	14' 3"		
		2	14' 3"
1	14' 4"	1	14' 4"
0	14' 4"		
Bottom of stack			

18' DIA. BIN PLANK LAYOUT



LOCATING PLANKS FOR 18' DIA. BIN

An 18' floor is shipped in one bundle. It contains two identical stacks of flooring.

1. See layout on previous page. Plank closest to sidewall (plank #15, measuring 2' 11") is starter plank.
2. Lay out remaining planks of stack No. 1. Install in descending order from plank #15 to plank #1, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

18' FLOOR

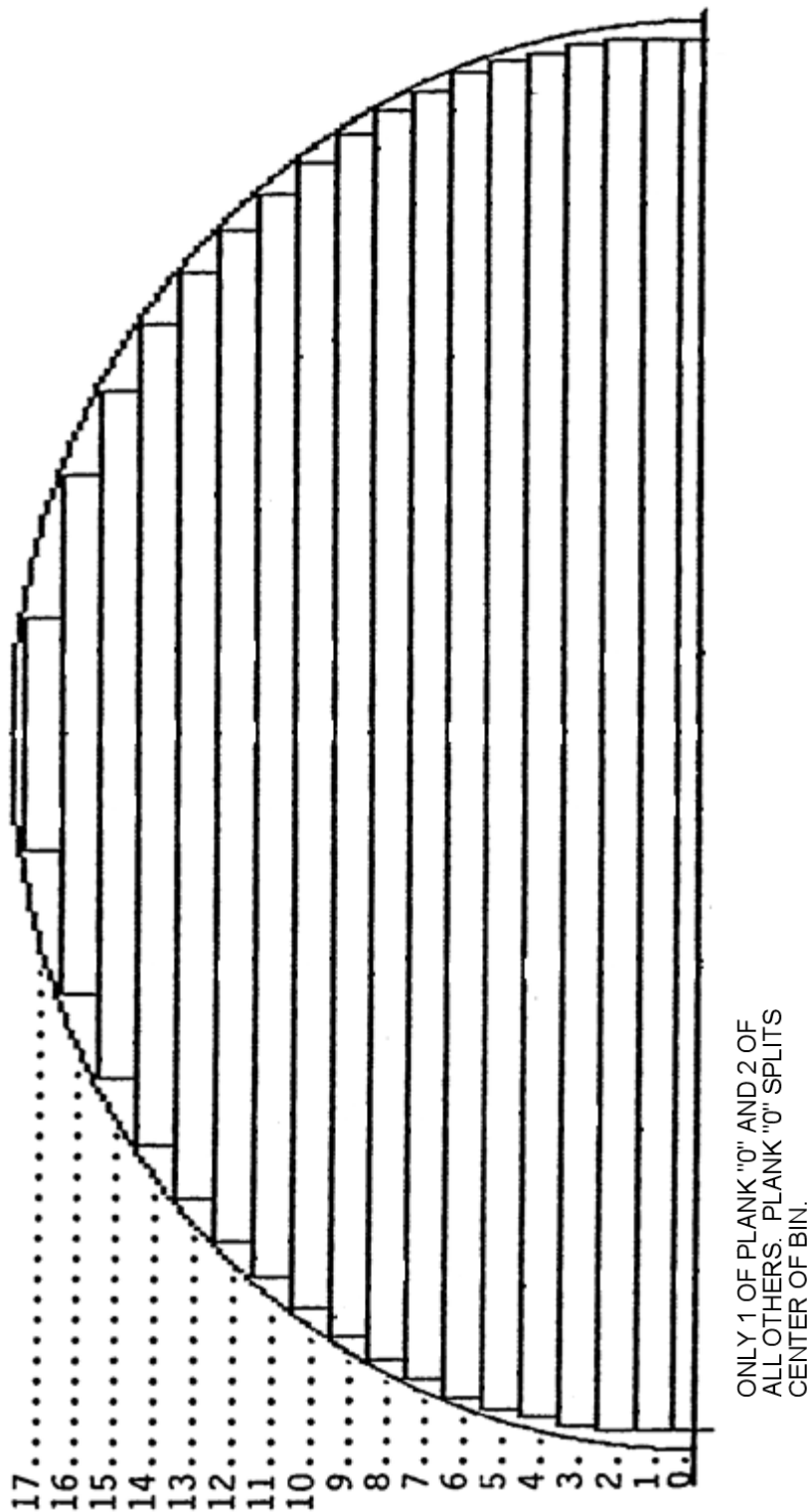
Stacks No. 1 & No. 2
Plank # Length

Top of Stack

15	2' 11"
14	6' 10"
13	9' 2"
12	10' 10"
11	12' 3"
10	13' 4"
9	14' 3"
8	15' 1"
7	15' 9"
6	16' 3"
5	16' 8"
4	16' 11"
3	17' 2"
2	17' 3"
1	17' 4"

Bottom of Stack

21' DIA. BIN PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING PLANKS FOR 21' DIA. BIN

A 21' floor is shipped in one bundle. It contains two stacks of flooring.

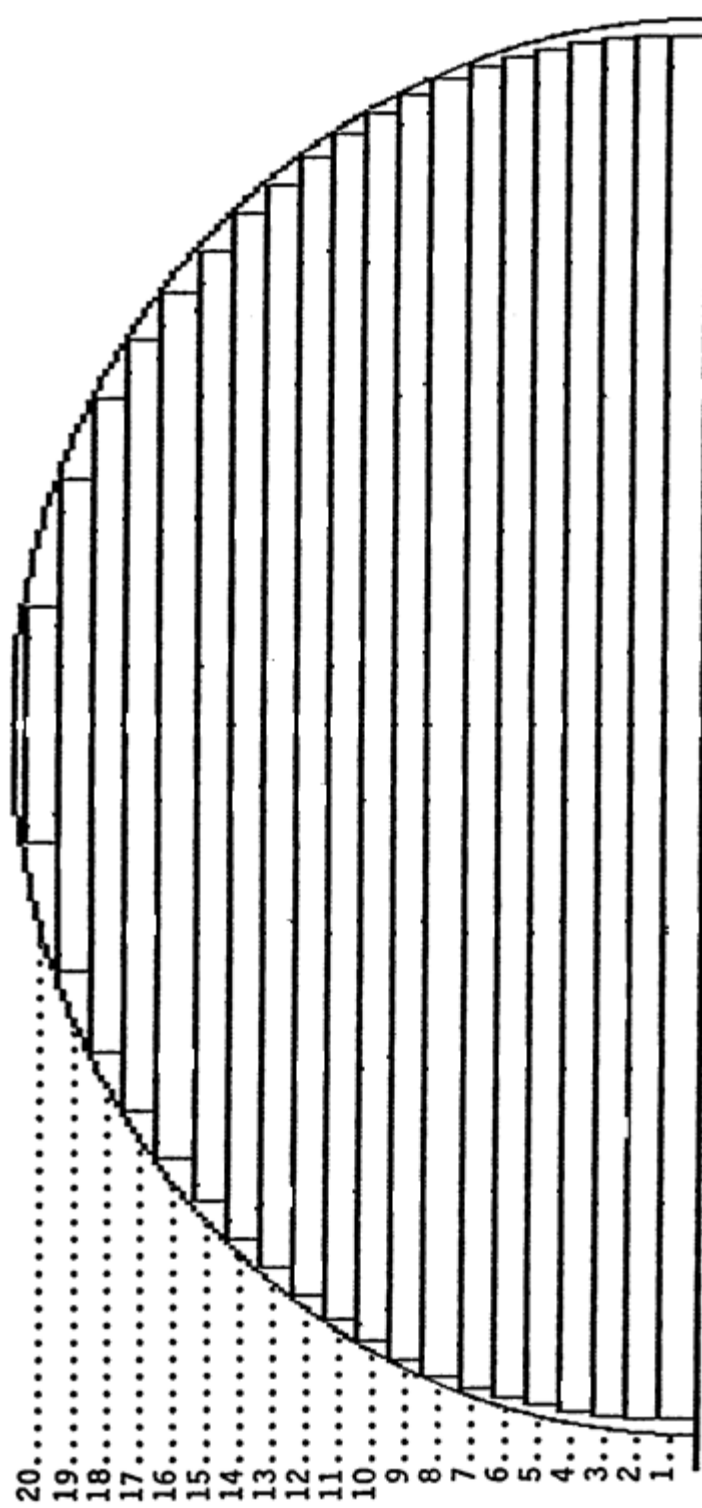
1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (plank #17, measuring 3' 5") is starter plank.
3. Lay out remaining planks of stack No. 1. Install in descending order from plank #17 to plank #0, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

21' FLOOR

Stack No. 1		Stack No. 2	
Plank #	Length	Plank #	Length
Top of Stack			
13	13' 5"	15	10'
12	14' 8"	14	11' 11"
17	3' 5"	17	3' 5"
14	11' 11"	16	7' 7"
11	15' 9"	13	13' 5"
10	16' 8"	12	14' 8"
9	17' 6"	11	15' 9"
8	18' 2"	10	16' 8"
7	18' 9"	9	17' 6"
6	19' 3"	8	18' 2"
5	19' 7"	7	18' 9"
4	19' 10"	6	19' 3"
3	20' 1"	5	19' 7"
2	20' 3"	4	19' 10"
1	20' 3"	3	20' 1"
16	7' 7"	2	20' 3"
15	10'	1	20' 3"
0	20' 3"		
Bottom of Stack			

24' DIA. BIN PLANK LAYOUT



LOCATING PLANKS FOR 24' DIA. BIN

A 24' floor is shipped in one bundle. It contains two identical stacks of flooring.

1. See layout on previous page. Plank closest to sidewall (plank #20, measuring 4') is starter plank.
2. Lay out remaining planks of stack No. 1. Install in descending order from plank #20 to plank #1, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

24' FLOOR

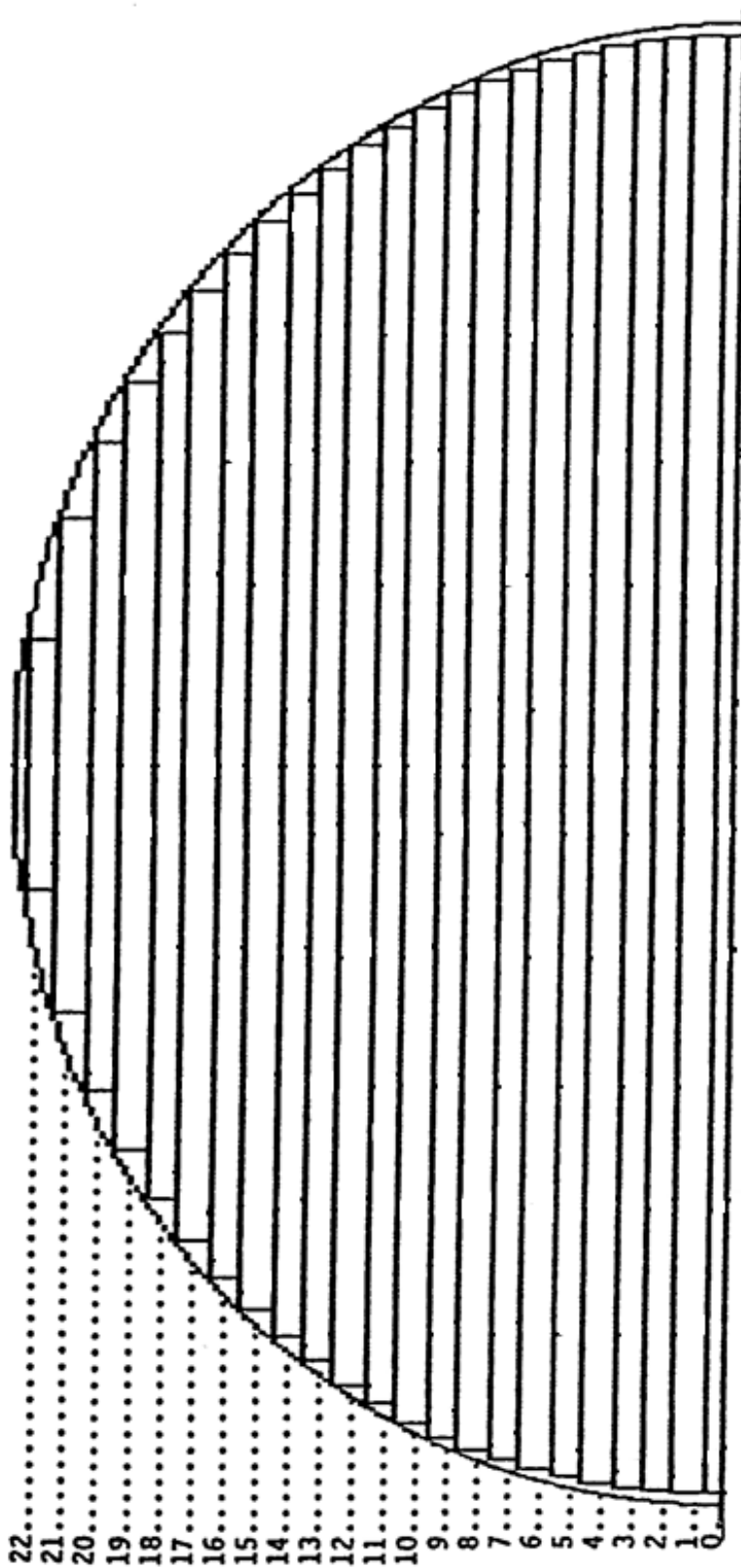
Stacks No. 1 & No. 2
Plank #r Length

Top of Stack

16	14' 6"
15	15' 11"
20	4'
17	12' 11"
14	17' 2"
13	18' 2"
12	19' 1"
19	8' 3"
18	10' 11"
11	19' 11"
10	20' 7"
9	21' 3"
8	21' 9"
7	22' 2"
6	22' 6"
5	22' 9"
4	23'
3	23' 2"
2	23' 3"
1	23' 3"

Bottom of Stack

27' DIA. BIN PLANK LAYOUT



ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

LOCATING PLANKS FOR 27' DIA. BIN

A 27' floor is shipped in one bundle. It contains two stacks of flooring.

1. Label stacks as shown below by measuring top plank of each stack.
2. See layout on previous page. Plank closest to sidewall (plank #22, measuring 4' 7") is starter plank.
3. Lay out remaining planks of stack No. 1. Install in descending order from plank #22 to plank #0, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

27' FLOOR

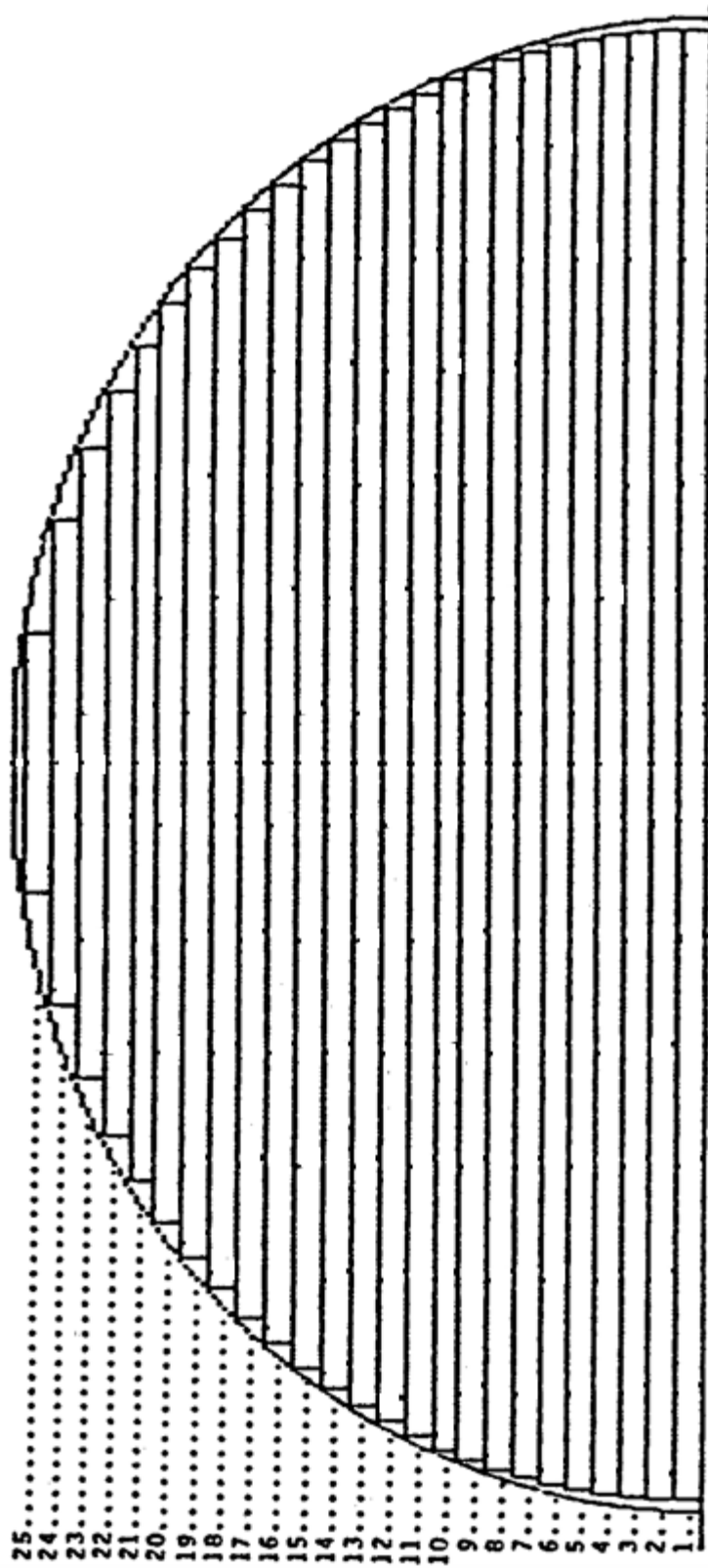
Stack No. 1	Stack No. 2
Plank # Length	Plank # Length

Top of Stack

22	4' 7"		
21	8' 11"	22	4' 7"
20	11' 8"	21	8' 11"
19	13' 10"	20	11' 8"
18	15' 7"	19	13' 10"
17	17' 1"	18	15' 7"
16	18' 5"	17	17' 1"
15	19' 7"	16	18' 5"
14	20' 7"	15	19' 7"
13	21' 6"	14	20' 7"
12	22' 4"	13	21' 6"
11	23'	12	22' 4"
10	23' 8"	11	23'
9	24' 3"	10	23' 8"
8	24' 8"	9	24' 3"
7	25' 1"	8	24' 8"
6	25' 5"	7	25' 1"
5	25' 8"	6	25' 5"
4	25' 11"	5	25' 8"
3	26' 1"	4	25' 11"
2	26' 2"	3	26' 1"
1	26' 3"	2	26' 2"
0	26' 3"	1	26' 3"

Bottom of Stack

30' DIA. BIN PLANK LAYOUT



LOCATING PLANKS FOR 30' DIA. BIN

A 30' floor is shipped in one bundle. It contains two identical stacks of flooring.

1. See layout on previous page. Plank closest to sidewall (plank #25, measuring 5' 2") is starter plank.
2. Lay out remaining planks of stack No. 1. Install in descending order from plank #25 to plank #1, then open stack No. 2 and work in ascending order on other side of bin.

See Page 32 for important notes.

30' FLOOR

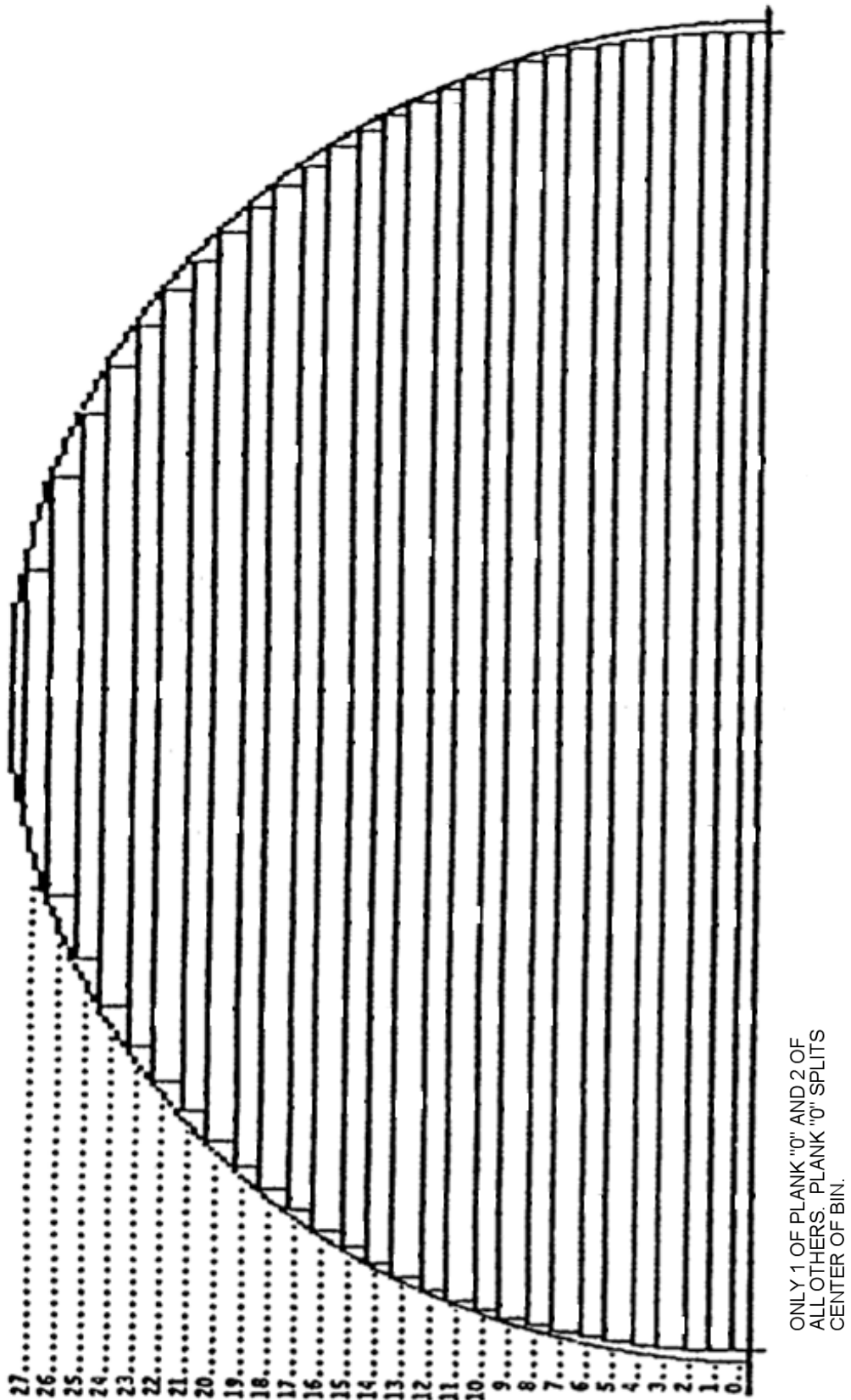
Stacks No. 1 & No. 2
Plank # Length

Top of Stack

25	5' 2"
24	9' 7"
23	12' 6"
22	14' 9"
21	16' 7"
20	18' 3"
19	19' 7"
18	20' 10"
17	22'
16	23'
15	23' 11"
14	24' 9"
13	25' 5"
12	26' 1"
11	26' 8"
10	27' 3"
9	27' 8"
8	28'
7	28' 4"
6	28' 7"
5	28' 10"
4	29'
3	29' 1"
2	29' 2"
1	29' 3"

Bottom of Stack

33' DIA. BIN PLANK LAYOUT



Layout & Location of Floor Planks

LOCATING PLANKS FOR 33' DIA. BIN

A 33' floor is shipped in two large bundles. Each contains two stacks of flooring.

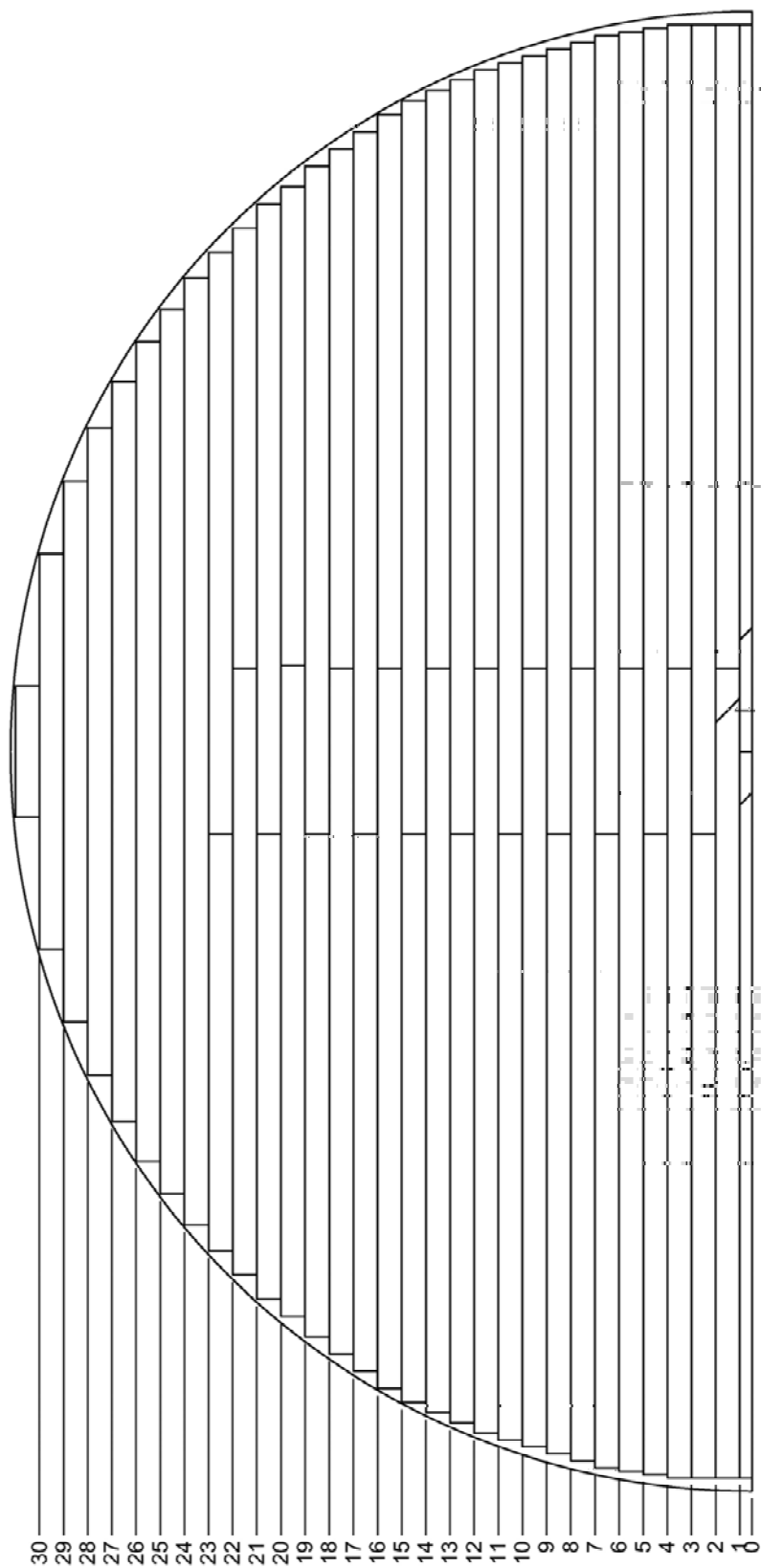
1. Label these four stacks as shown below by measuring top plank of each stack. There will be two different stacks for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #27, measuring 5' 9") is starter plank. Find it in stack No. 1. It is shortest plank in stack.
3. Lay out planks of stacks No. 1 & No. 2. Install in descending order from plank #27 to plank #0, then work in ascending order on other side of bin.

See Page 32 for important notes.

33' FLOOR

Stacks No. 1 & 4				Stacks No. 2 & 3			
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
23	17' 7"			13	28' 6"	14	27' 10"
22	19' 3"	25	13' 3"	12	29" 2"	13	28' 6"
		24	15' 7"				
27	5' 9"			11	29' 9"	12	29' 2"
24	15' 7"	27	5' 9"	10	30' 2"	11	29' 9"
21	20' 9"	26	10' 3"				
		23	17' 7"	9	30' 7"	10	30' 2"
26	10' 3"			8	30' 11"	9	30' 7"
25	13' 3"	22	19' 3"				
20	22' 1"	21	20' 9"	7	31' 3"	8	30' 11"
				6	31' 6"	7	31' 3"
19	23' 4"	20	22' 1"				
18	24' 5"	19	23' 4"	5	31' 9"	6	31' 6"
				4	31' 11"	5	31' 9"
17	25' 5"	18	24' 5"				
16	26' 4"	17	25' 5"	3	32'	4	31' 11"
				2	32' 2"	3	32'
15	27' 1"	16	26' 4"				
14	27' 10"	15	27' 1"	1	32' 2"	2	32' 2"
				0	32' 2"	1	32' 2"
Bottom of Stack							

36' DIA. BIN SPLIT PLANK LAYOUT



ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

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Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 36' DIA. BIN

A 36' split-plank floor is shipped in two large bundles. One bundle contains four stacks of flooring, the other contains two.

1. Label these six stacks as shown below by measuring top plank of each stack. There will be three different stacks – 1 through 3 – for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #30, measuring 3' 2") is starter plank. It is in stack No. 3 and is shortest plank in stack.
3. Lay out remaining planks. Install in descending order from plank #30 to plank #0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

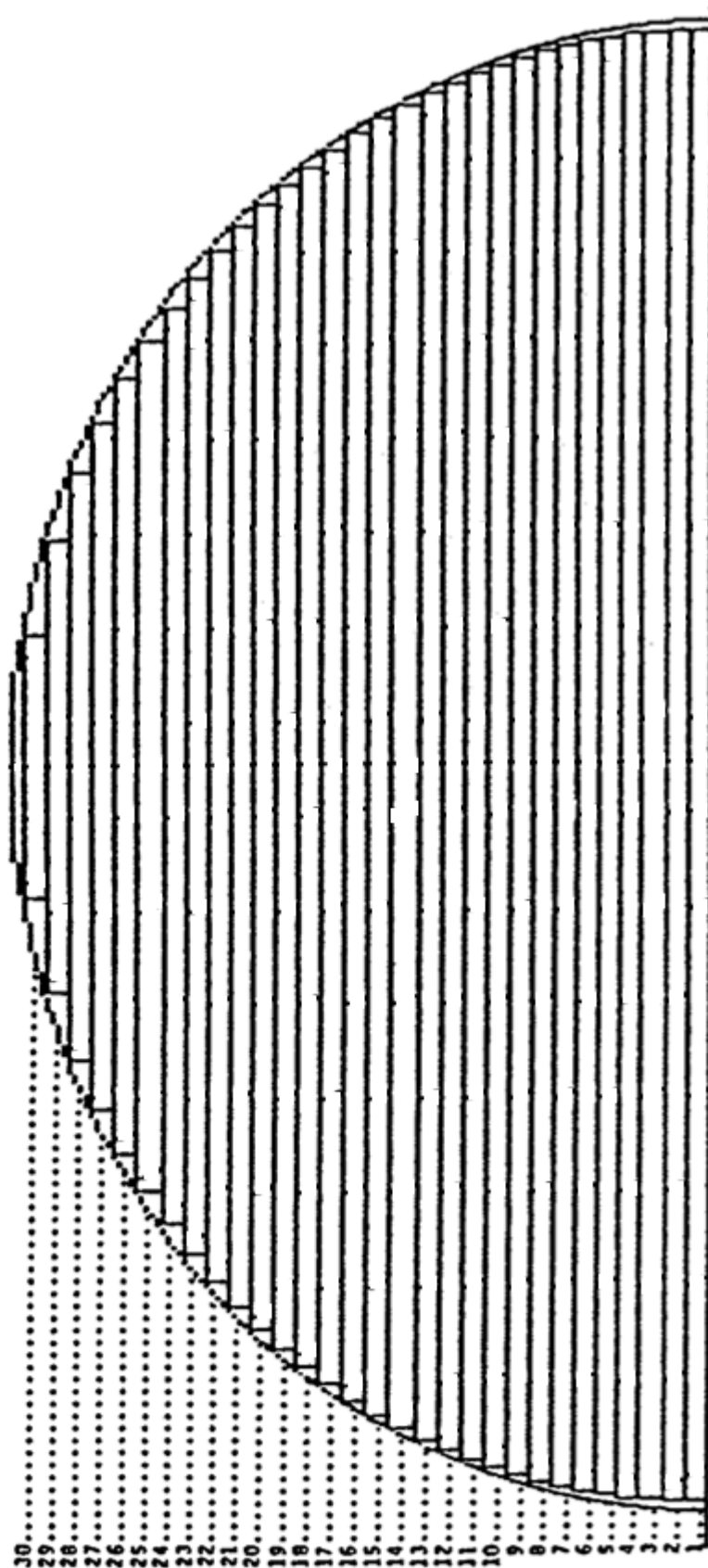
See Page 32 for important notes.

36' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3	
Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack					
9A	18'10"	18A	16' 2"	28	13' 1"
9B	14'10"	18B	12' 2"	29	9' 7"
8A	19' 0"	17A	16' 7"	22A	14' 1"
8B	15' 0"	17B	12' 7"	22B	10' 1"
7A	19' 2"	16A	17' 0"	21A	14' 8"
7B	15' 2"	16B	13' 0"	21B	10' 8"
6A	19' 4"	15A	17' 5"	20A	15' 3"
6B	15' 4"	15B	13' 5"	20B	11' 3"
5A	19' 5"	14A	17' 9"	19A	15' 9"
5B	15' 5"	14B	13' 9"	19B	11' 9"
4A	19' 6"	13A	18' 0"	26	17'11"
4B	15' 6"	13B	14' 0"	27	15' 8"
3A	19' 7"	12A	18' 3"	24	21' 5"
3B	15' 7"	12B	14' 3"	25	19'10"
2A	19' 7"	11A	18' 6"	23	22'11"
2B	15' 7"	11B	14' 6"	0A	17' 7"
				30	3' 2"
1A	19' 7"	10A	18' 8"		
1B	15' 7"	10B	14' 8"		

Bottom of Stack

36' DIA. BIN NON-SPLIT PLANK LAYOUT



LOCATING NON-SPLIT PLANKS FOR 36' DIA. BIN

A 36' non-split floor is shipped in two large bundles. Each contains two stacks of flooring.

1. **Label these four stacks as shown below by measuring top plank of each stack.** There will be two different stacks for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #30, measuring 6' 3") is starter plank. Find it in stack No. 1. It is shortest plank in stack.
3. Lay out planks of stacks No. 1 & 2. Install in descending order from plank #30 to plank #1, then work in ascending order on other side of bin.

See Page 32 for important notes.

36' FLOOR (NON-SPLIT)

Stacks No. 1 & 4 Stacks No. 2 & 3
 Plank # Length Plank # Length

<i>Top of Stack</i>			
26	18' 6"	14	31' 7"
25	20' 4"	13	32' 2"
24	21' 11"	12	32' 8"
23	23' 4"	11	33' 2"
30	6' 3"	10	33' 6"
27	16' 5"	9	33' 10"
22	24' 7"	8	34' 2"
29	10' 10"	7	34' 5"
28	14'	6	34' 8"
21	25' 9"	5	34' 10"
20	26' 10"	4	35'
19	27' 10"	3	35' 1"
18	28' 8"	2	35' 2"
17	29' 6"	1	35' 2"
16	30' 3"		
15	31'		
<i>Bottom of Stack</i>			

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 42' DIA. BIN

A 42' split-plank floor is shipped in two large bundles. Each contains four stacks of flooring.

1. Label these eight stacks as shown below by measuring top plank of each stack. There will be two of each number, with four different stacks for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #35, measuring 7' 5") is starter plank. Find it in stack No. 2. It is shortest plank in stack.
3. Lay out planks of stacks No. 1 through 4. Install in descending order from plank #35 to plank #1. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

42' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
8A	22' 2"	22A	18' 4"	16A	20' 7"	30A	13' 2"
8B	18' 2"	22B	14' 4"	16B	16' 7"	30B	9' 2"
7A	22' 3"	21A	18' 9"	15A	20' 10"	29A	14' 0"
7B	18' 3"	21B	14' 9"	15B	16' 10"	29B	10' 0"
6A	22' 4"	20A	19' 2"	14A	21' 1"	28A	14' 10"
6B	18' 4"	20B	15' 2"	14B	17' 1"	28B	10' 10"
5A	22' 5"	19A	19' 7"	13A	21' 4"	27A	15' 6"
5B	18' 5"	19B	15' 7"	13B	17' 4"	27B	11' 6"
4A	22' 6"	18A	19' 11"	12A	21' 6"	26A	16' 2"
4B	18' 6"	18B	15' 11"	12B	17' 6"	26B	12' 2"
3A	22' 6"	17A	20' 3"	11A	21' 9"	25A	16' 9"
3B	18' 6"	17B	16' 3"	11B	17' 9"	25B	12' 9"
2A	22' 7"	33	15' 5"	10A	21' 10"	24A	17' 4"
2B	18' 7"	34	12' 1"	10B	17' 10"	24B	13' 4"
		35	7' 5"				
1A	20' 7"	31	20' 4"	9A	22' 0"	23A	17' 10"
1B	20' 7"	32	18' 1"	9B	18' 0"	23B	13' 10"
Bottom of Stack							

LOCATING NON-SPLIT PLANKS FOR 42' DIA. BIN

A 42' non-split floor is shipped in two large bundles. Each contains two stacks of flooring.

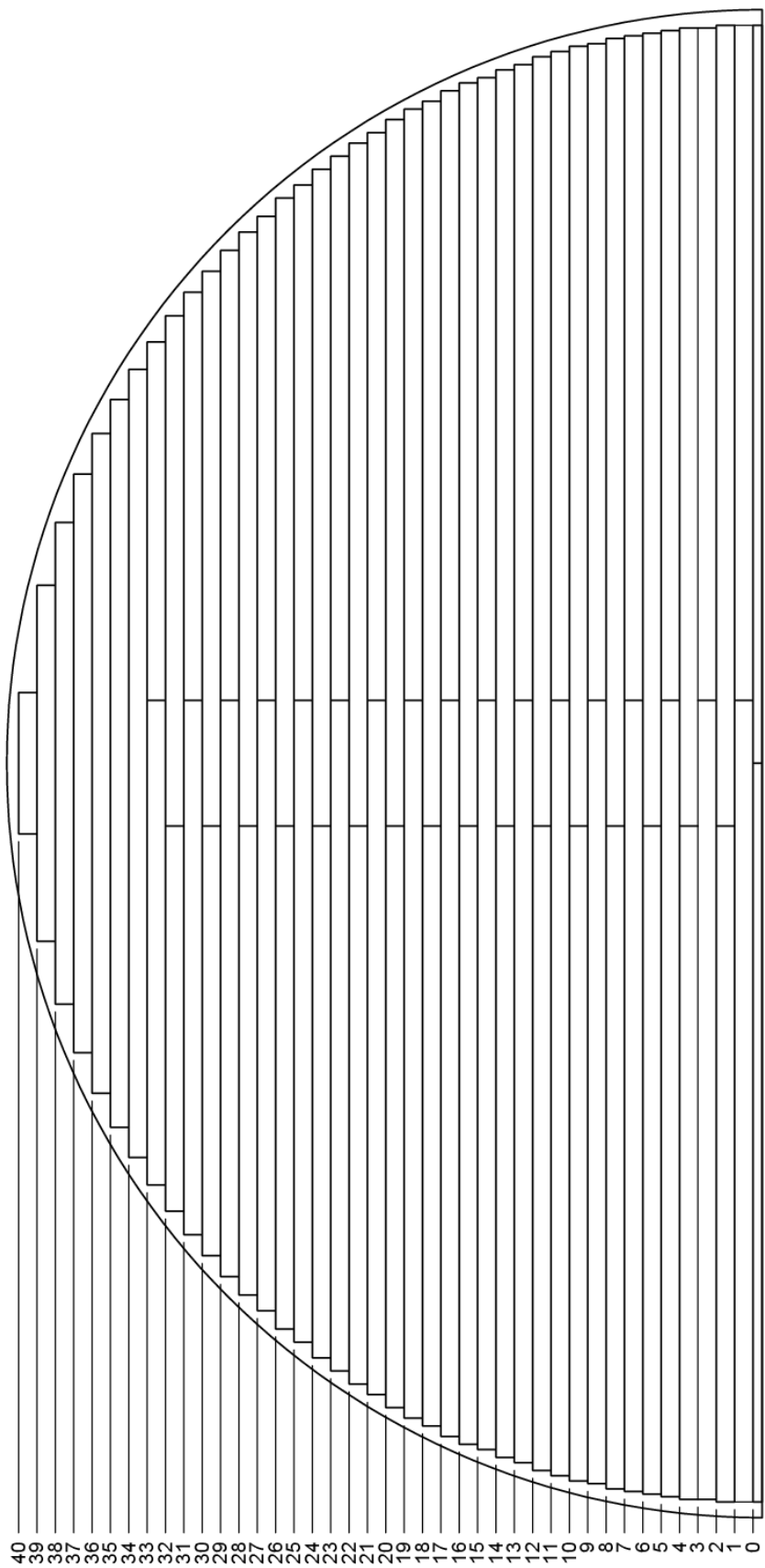
1. **Label these four stacks as shown below by measuring top plank of each stack.** There will be two different stacks for each half of bin.
2. See layout on Page 51, ignoring split lines. Plank closest to sidewall (plank #35, measuring 7' 5") is starter plank. Find it in stack No. 2. It is shortest plank in stack.
3. Lay out planks in stacks No. 1 & 2. Install in descending order from plank #35 to plank #1, then work in ascending order on other side of bin.

See Page 32 for important notes.

42' FLOOR (NON-SPLIT)

Stacks No. 1 & 4		Stacks No. 2 & 3	
Plank #	Length	Plank #	Length
Top of Stack			
17	36' 6"	32	18' 1"
18	35' 10"	33	15' 5"
15	37' 8"	31	20' 4"
16	37' 1"	34	12' 1"
		35	7' 5"
13	38' 7"	29	24' 0"
14	38' 2"	30	22' 3"
11	39' 5"	27	27' 0"
12	39' 0"	28	25' 7"
9	40' 0"	25	29' 6"
10	39' 8"	26	28' 4"
7	40' 6"	23	31' 8"
8	40' 3"	24	30' 7"
5	40' 10"	21	33' 6"
6	40' 8"	22	32' 7"
3	41' 0"	19	35' 1"
4	40' 11"	20	34' 4"
1	41' 1"		
2	41' 1"		
Bottom of Stack			

48' DIA. BIN SPLIT PLANK LAYOUT



SWFS0009
11/07/18 MJW

ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 48' DIA. BIN

A 48' split-plank floor is shipped in two large bundles. Each contains four stacks of flooring.

1. Label these eight stacks as shown below by measuring top plank of each stack. There will be two of each number, with four different stacks for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #40, measuring 4' 6") is starter plank. Find it in stack No. 4. It is shortest plank in stack.
3. Lay out remaining planks of stacks No. 1 through No. 4. Install in descending order from plank #40 to plank #0.
NOTE: Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

48' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
9A	24' 11"	18A	23' 1"	27A	19' 5"	38	15' 4"
9B	20' 11"	18B	19' 1"	27B	15' 5"	39	11' 4"
						40	4' 6"
8A	25' 1"	17A	23' 5"	26A	20' 0"	32B	16' 3"
8B	21' 1"	17B	19' 5"	26B	16' 0"	33B	15' 5"
7A	25' 2"	16A	23' 8"	25A	20' 5"	31A	17' 0"
7B	21' 2"	16B	19' 8"	25B	16' 5"	31B	13' 0"
6A	25' 3"	15A	23' 10"	24A	20' 11"	30A	17' 8"
6B	21' 3"	15B	19' 10"	24B	16' 11"	30B	13' 8"
5A	25' 4"	14A	24' 1"	23A	21' 4"	29A	18' 4"
5B	21' 4"	14B	20' 1"	23B	17' 4"	29B	14' 4"
4A	25' 5"	13A	24' 3"	22A	21' 9"	28A	18' 11"
4B	21' 5"	13B	20' 3"	22B	17' 9"	28B	14' 11"
3A	25' 5"	12A	24' 6"	21A	22' 1"	36	21' 0"
3B	21' 5"	12B	20' 6"	21B	18' 1"	37	18' 5"
2A	25' 6"	11A	24' 8"	20A	22' 6"	34	25' 1"
2B	21' 6"	11B	20' 8"	20B	18' 6"	35	23' 2"
1A	25' 6"	10A	24' 10"	19A	22' 10"	0	23' 6"
1B	21' 6"	10B	20' 10"	19B	18' 10"	32A	12' 3"
						33A	11' 5"
Bottom of Stack							

Layout & Location of Floor Planks

LOCATING NON-SPLIT PLANKS FOR 48' DIA. BIN

A 48' non-split floor is shipped in two large bundles. Each contains two stacks of flooring.

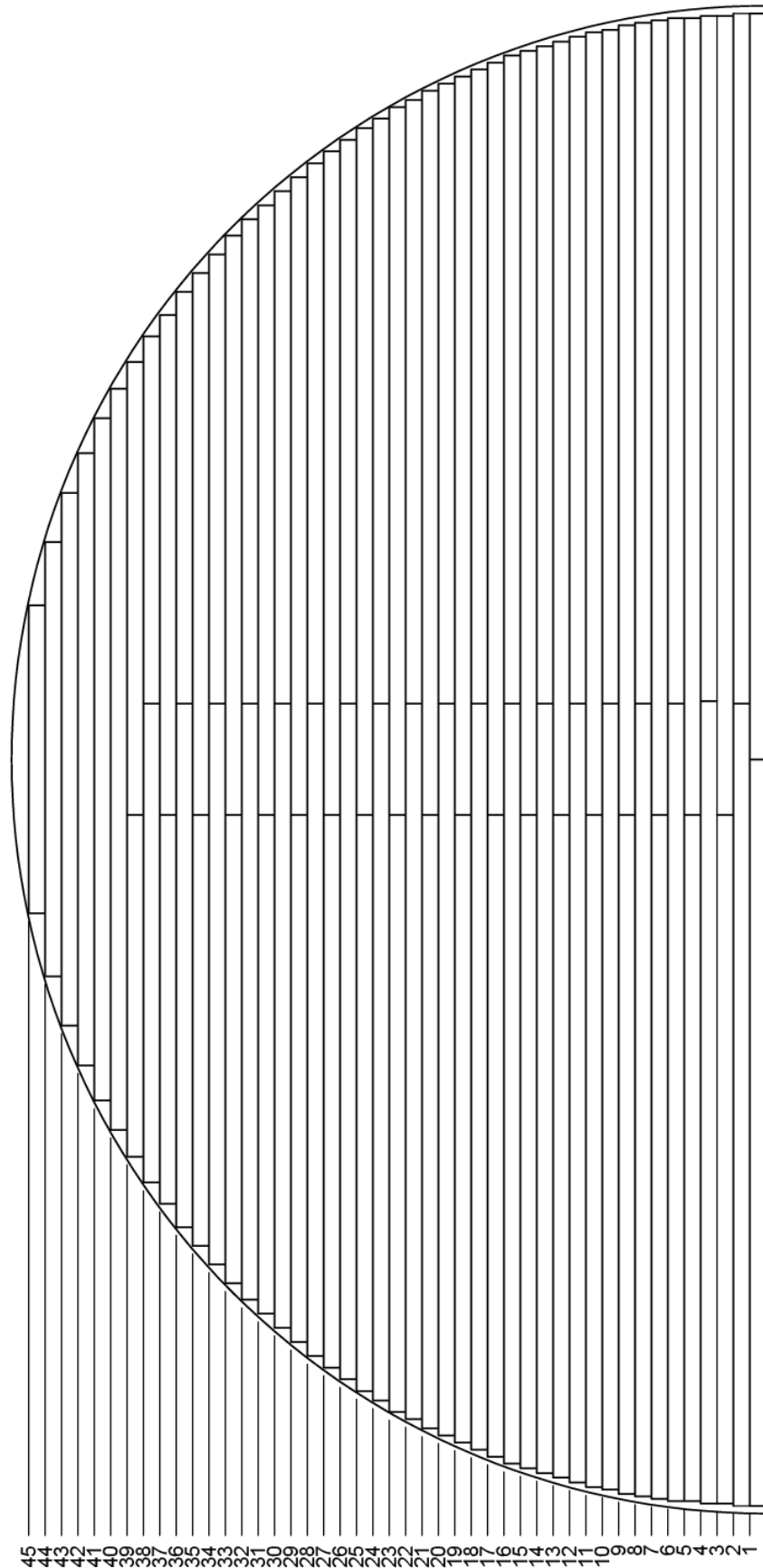
1. Label these four stacks as shown below by measuring top plank of each stack.
2. See layout on Page 54, ignoring split lines. Plank closest to sidewall (plank #40, measuring 4' 4") is starter plank. Find it in stack No. 3 or 4. It is shortest plank in stack.
3. Lay out planks in stacks No. 1 through No. 4. Work in descending order from plank #40 to plank #0, then work in ascending order on other side of bin.

See Page 32 for important notes.

48' FLOOR (NON-SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
18	42' 3"	19	41' 8"	40	4' 4"	39	11' 2"
19	41' 8"	20	41' 0"	38	15' 2"	40	4' 4"
				39	11' 2"		
16	43' 5"	17	42' 10"			37	18' 3"
17	42' 10"	18	42' 3"			38	15' 2"
				36	20' 10"		
14	44' 3"	15	43'	37	18' 3"	35	23' 1"
15	43' 10"	16	43' 5"			36	20' 10"
				34	25' 1"		
12	45' 1"	13	44' 8"	35	23' 1"	33	26' 10"
13	44' 8"	14	44' 3"			34	25' 1"
				32	28' 6"		
10	45' 8"	11	45' 5"	33	26' 10"	31	30' 0"
11	45' 5"	12	45' 1"			32	28' 6"
				30	31' 4"		
8	46' 2"	9	46' 0"	31	30' 0"	29	32' 8"
9	46' 0"	10	45' 8"			30	31' 4"
				28	33' 10"		
6	46' 7"	7	46' 5"	29	32' 8"	27	34' 11"
7	46' 5"	8	46' 2"			28	33' 10"
				26	36' 0"		
4	46' 10"	5	46' 9"	27	34' 11"	25	36' 11"
5	46' 9"	6	46' 7"			26	36' 0"
				24	37' 10"		
2	47' 0"	3	46'	25	36' 11"	23	38' 9"
3	46' 11"	4	46'			24	37' 10"
				22	39' 6"		
0	47' 0"	1	47' 0"	23	38' 9"	21	40' 3"
1	47' 0"	2	47' 0"			22	39' 6"
				20	41' 0"		
Bottom of Stack							
				21	40' 3"		

54' DIA. BIN SPLIT PLANK LAYOUT



SWFS0010
11/07/18 MJW

44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

LOCATING SPLIT PLANKS FOR 54' DIA. BIN

A 54' floor is shipped in two large bundles. Each contains four stacks of flooring.

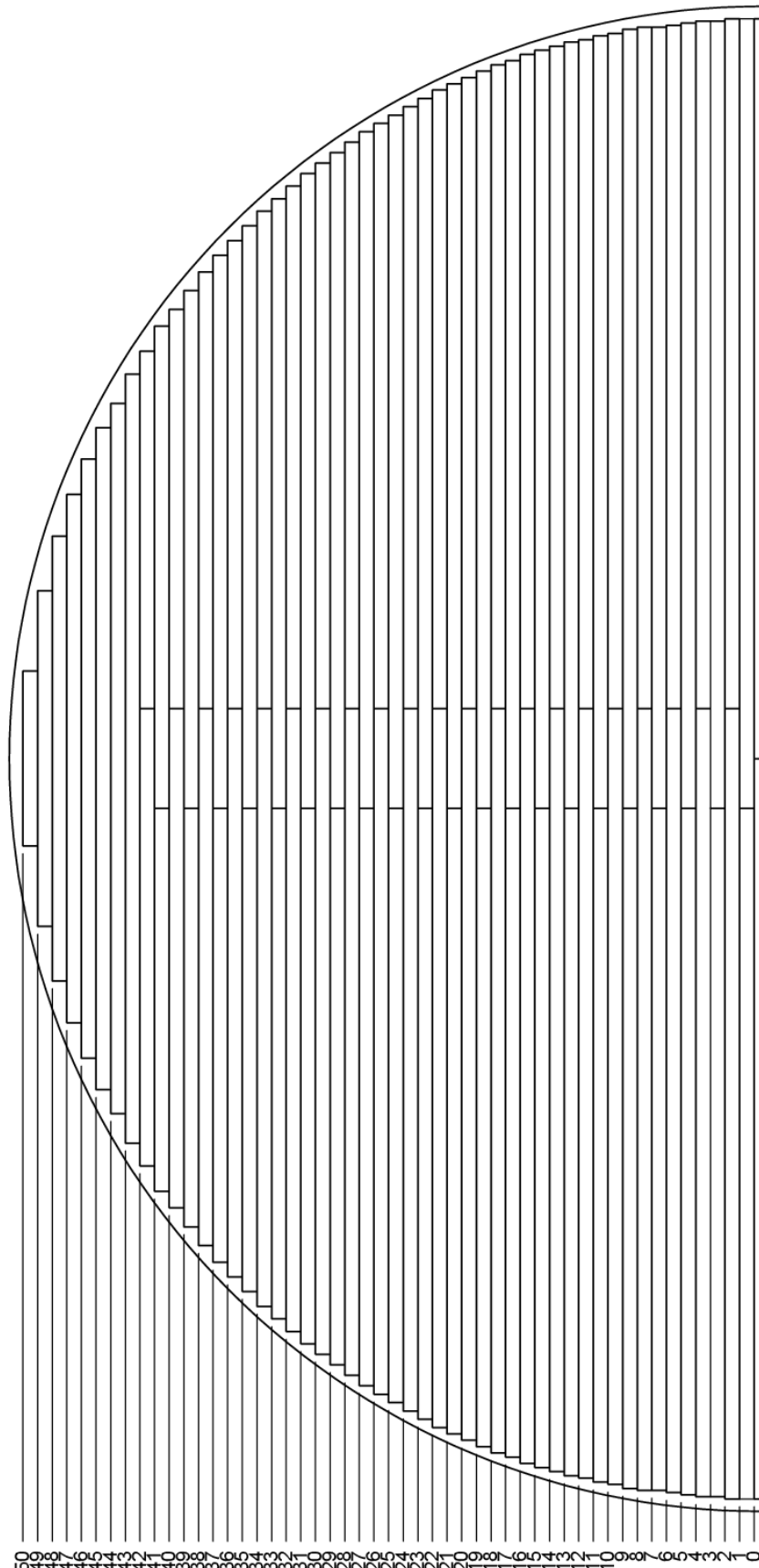
1. **Label these eight stacks as shown below by measuring top plank of each stack.** There will be two of each number, with four different stacks for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #45, measuring 11' 0") is starter plank. Find it in stack No. 4. It is shortest plank in stack.
3. Lay out remaining planks of stacks No. 1 through No. 4. Install in descending order from plank #45 to plank #1.
NOTE: Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

54' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
11A	27' 11"	22A	25' 6"	32A	21' 3"	44	15' 6"
11B	23' 11"	22B	21' 6"	32B	17' 3"	45	11' 0"
10A	28' 0"	21A	25' 10"	31A	21' 9"	39A	16' 2"
10B	24' 0"	21B	21' 10"	31B	17' 9"	39B	12' 2"
9A	28' 2"	20A	26' 1"	30A	22' 3"	38A	17' 1"
9B	24' 2"	20B	22' 1"	30B	18' 3"	38B	13' 1"
8A	28' 3"	19A	26' 4"	29A	22' 9"	37A	17' 10"
8B	24' 3"	19B	22' 4"	29B	18' 9"	37B	13' 10"
7A	28' 4"	18A	26' 7"	28A	23' 3"	36A	18' 8"
7B	24' 4"	18B	22' 7"	28B	19' 3"	36B	14' 8"
6A	28' 5"	17A	26' 10"	27A	23' 8"	35A	19' 4"
6B	24' 5"	17B	22' 10"	27B	19' 8"	35B	15' 4"
5A	28' 5"	16A	27' 1"	26A	24' 1"	34A	20' 0"
5B	24' 5"	16B	23' 1"	26B	20' 1"	34B	16' 0"
4A	28' 6"	15A	27' 3"	25A	24' 6"	33A	20' 8"
4B	24' 6"	15B	23' 3"	25B	20' 6"	33B	16' 8"
3A	28' 6"	14A	27' 5"	24A	24' 10"	42	21' 10"
3B	24' 6"	14B	23' 5"	24B	20' 10"	43	19' 0"
2A	28' 7"	13A	27' 7"	23A	25' 3"	40	26' 5"
2B	24' 7"	13B	23' 7"	23B	21' 3"	41	24' 4"
1A	26' 7"	12A	27' 9"				
1B	26' 7"	12B	23' 9"				
Bottom of Stack							

60' DIA. BIN SPLIT PLANK LAYOUT



SWFS0016
11/07/18 MJW

ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 60' DIA. BIN

A 60' floor is shipped in three large bundles. Two contain four stacks of flooring; one contains two stacks.

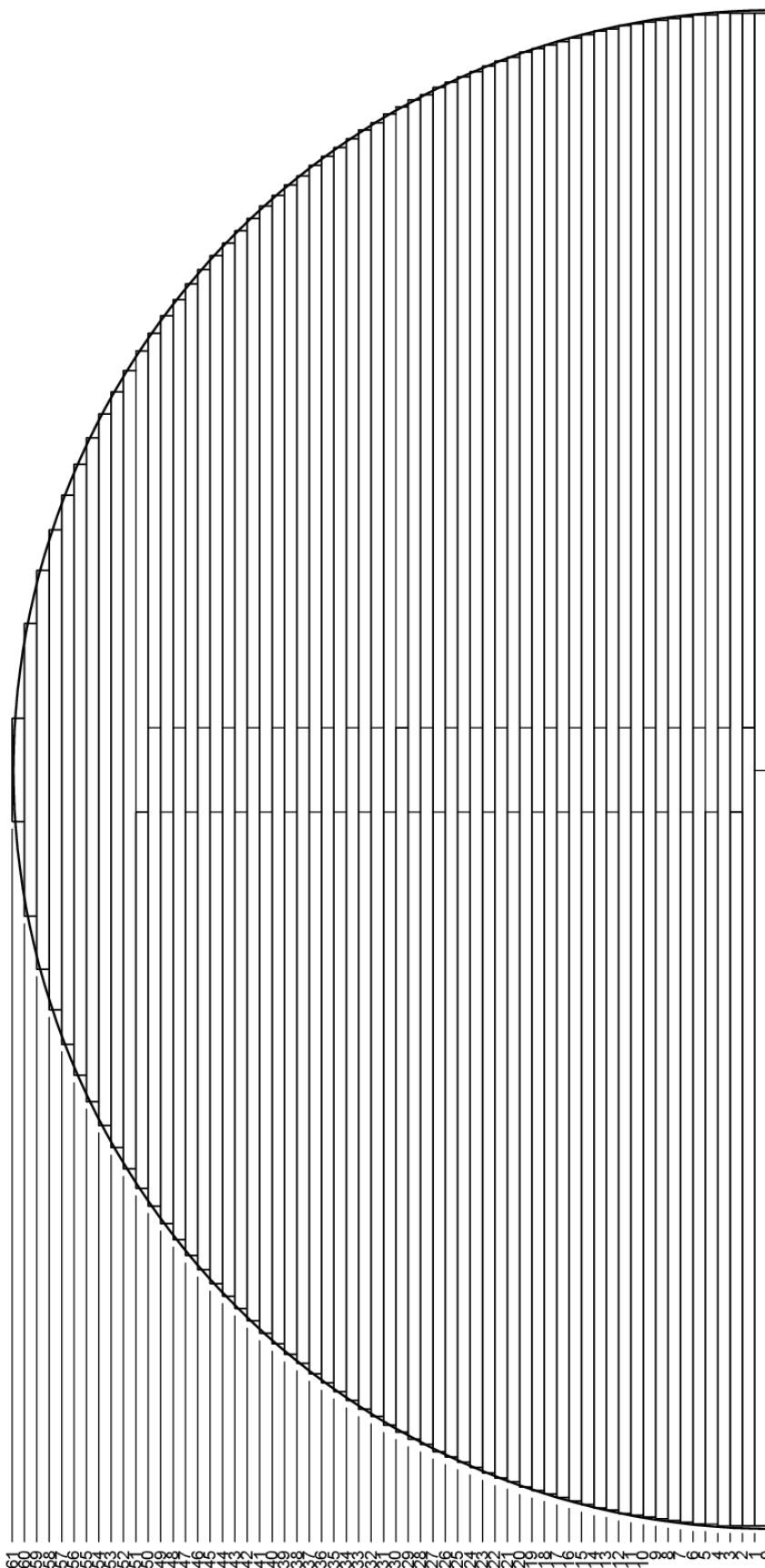
1. Label these 10 stacks as shown below by measuring top plank of each stack. There will be two stacks No. 1 through No. 4, one for each half of bin. Label remaining two stacks No. 5 and No. 6.
2. See layout on previous page. Plank closest to sidewall (plank #50, measuring 7' 0") is starter plank. It is in stack No. 6 and is shortest plank in stack.
3. Lay out remaining planks. Install in descending order from plank #50 to plank #0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

60' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4		Stack No. 5		Stack No. 6	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
10A	30' 11"	20A	29' 2"	30A	25' 9"	40A	19' 11"	42B	14' 3"	41B	15' 3"
10B	26' 11"	20B	25' 2"	30B	21' 9"	40B	15' 11"	42B	14' 3"	41B	15' 3"
9A	31' 1"	19A	29' 5"	29A	26' 2"	39A	20' 8"	42A	18' 3"	48	17' 9"
9B	27' 1"	19B	25' 5"	29B	22' 2"	39B	16' 8"	42A	18' 3"	48	17' 9"
8A	31' 2"	18A	29' 8"	28A	26' 7"	38A	21' 5"	41A	19' 2"	47	21' 1"
8B	27' 2"	18B	25' 8"	28B	22' 7"	38B	17' 5"	41A	19' 2"	49	13' 5"
										50	7' 0"
7A	31' 2"	17A	29' 10"	27A	27' 0"	37A	22' 1"	47	21' 1"		
7B	27' 2"	17B	25' 10"	27B	23' 0"	37B	18' 1"	49	13' 5"	46	23' 11"
								50	7' 0"	46	23' 11"
6A	31' 3"	16A	30' 1"	26A	27' 4"	36A	22' 8"				
6B	27' 3"	16B	26' 1"	26B	23' 4"	36B	18' 8"	44	28' 4"	45	26' 5"
								44	28' 4"	45	26' 5"
5A	31' 4"	15A	30' 3"	25A	27' 8"	35A	23' 3"				
5B	27' 4"	15B	26' 3"	25B	23' 8"	35B	19' 3"	0A	29' 6"	43	30' 8"
								0B	29' 6"	43	30' 8"
4A	31' 5"	14A	30' 5"	24A	28' 0"	34A	23' 10"				
4B	27' 5"	14B	26' 5"	24B	24' 0"	34B	19' 10"				
3A	31' 5"	13A	30' 7"	23A	28' 4"	33A	24' 4"				
3B	27' 5"	13B	26' 7"	23B	24' 4"	33B	20' 4"				
2A	31' 6"	12A	30' 8"	22A	28' 8"	32A	24' 10"				
2B	27' 6"	12B	26' 8"	22B	24' 8"	32B	20' 10"				
1A	31' 6"	11A	30' 10"	21A	28' 11"	31A	25' 4"				
1B	27' 6"	11B	26' 10"	21B	24' 11"	31B	21' 4"				
Bottom of Stack											

72' DIA. BIN SPLIT PLANK LAYOUT



SWFS0018
11/07/18 MJW

ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 72' DIA. BIN

A 72' floor is shipped in six large bundles. Each contains two stacks of flooring.

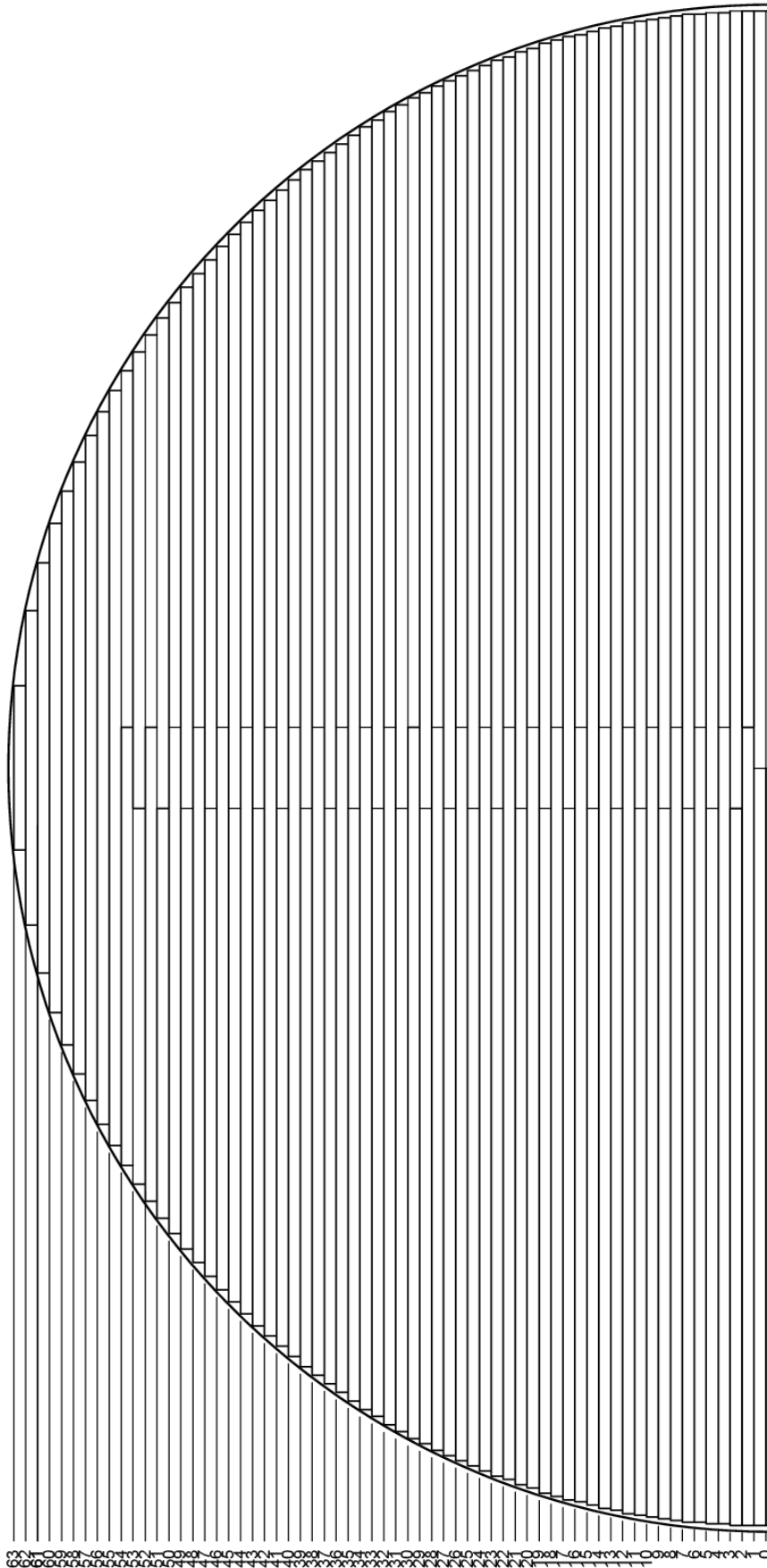
1. Label these 12 stacks as shown below by measuring top plank of each stack. There will be two stacks No. 1 through No. 6, one for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #61, measuring 4' 11") is starter plank. It is in stack No. 6 and is shortest plank in stack.
3. Lay out remaining planks. Work in descending order from plank #61 to plank #0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

72' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4		Stack No. 5		Stack No. 6			
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length		
Top of Stack													
10A	33' 3"	20A	31' 10"	30A	29' 3"	40A	25' 1"	48A	20' 2"	59	18' 10"		
10B	37' 3"	20B	35' 10"	30B	33' 3"	40B	29' 1"	48B	24' 2"	60	13' 10"		
										61	4' 11"		
9A	33' 4"	19A	32' 0"	29A	29' 7"	39A	25' 7"	47A	20' 11"			51A	17' 9"
9B	37' 4"	19B	36' 0"	29B	33' 7"	39B	29' 7"	47B	24' 11"			51B	21' 9"
8A	33' 5"	18A	32' 2"	28A	29' 10"	38A	26' 0"	46A	21' 7"			50A	18' 7"
8B	37' 5"	18B	36' 2"	28B	33' 10"	38B	30' 0"	46B	25' 7"			50B	22' 7"
7A	33' 6"	17A	32' 4"	27A	30' 2"	37A	26' 6"	45A	22' 3"			49A	19' 5"
7B	37' 6"	17B	36' 4"	27B	34' 2"	37B	30' 6"	45B	26' 3"			49B	23' 5"
6A	33' 7"	16A	32' 6"	26A	30' 5"	36A	26' 11"	44A	22' 10"			57	25' 11"
6B	37' 7"	16B	36' 6"	26B	34' 5"	36B	30' 11"	44B	26' 10"			58	22' 8"
5A	33' 7"	15A	32' 8"	25A	30' 8"	35A	27' 4"	43A	23' 5"			55	31' 4"
5B	37' 7"	15B	36' 8"	25B	34' 8"	35B	31' 4"	43B	27' 5"			56	28' 10"
4A	33' 8"	14A	32' 10"	24A	30' 11"	34A	27' 9"	42A	24' 0"			53	35' 8"
4B	37' 8"	14B	36' 10"	24B	34' 11"	34B	31' 9"	42B	28' 0"			54	33' 7"
3A	33' 8"	13A	32' 11"	23A	31' 2"	33A	28' 2"	41A	24' 7"			52	37' 8"
3B	37' 8"	13B	36' 11"	23B	35' 2"	33B	32' 2"	41B	28' 7"			0A	35' 8"
2A	33' 8"	12A	33' 1"	22A	31' 5"	32A	28' 6"						
2B	37' 8"	12B	37' 1"	22B	35' 5"	32B	32' 6"						
1A	35' 8"	11A	33' 2"	21A	31' 7"	31A	28' 11"						
1B	35' 8"	11B	37' 2"	21B	35' 7"	31B	32' 11"						
Bottom of Stack													

75' DIA. BIN SPLIT PLANK LAYOUT



SWFS0019
11/07/2018 MJW

ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 75' DIA. BIN

A 75' floor is shipped in six large bundles. Each contains two stacks of flooring.

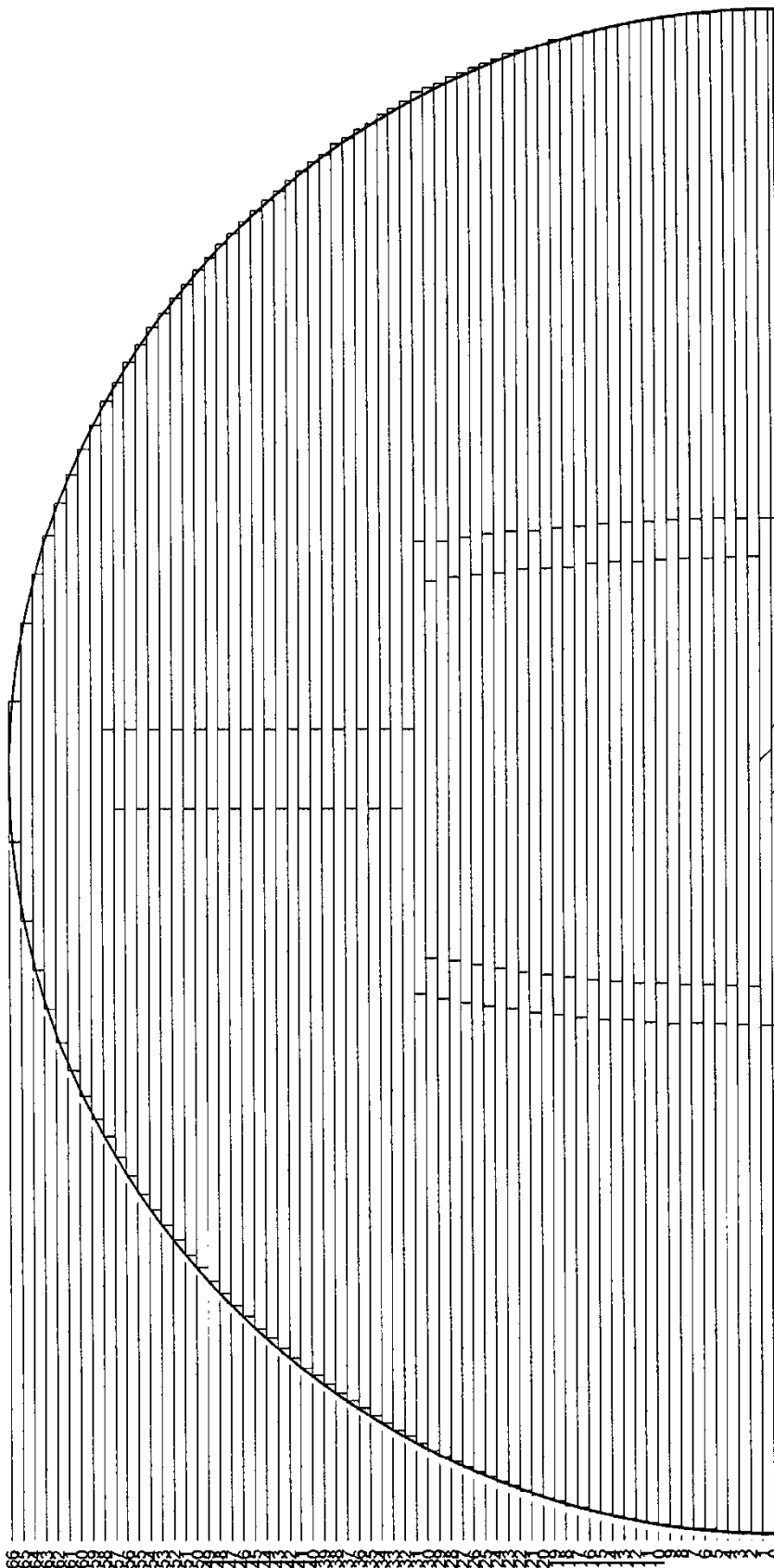
1. Label these 12 stacks as shown below by measuring top plank of each stack. There will be two stacks No. 1 through No. 6, one for each half of bin.
2. See layout on previous page. Plank closest to sidewall (plank #63, measuring 8' 1") is starter plank. It is in stack No. 6 and is shortest plank in stack.
3. Lay out remaining planks. Work in descending order from plank #63 to plank #0. **NOTE:** Most planks are split, with sections A and B. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

75' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4		Stack No. 5		Stack No. 6	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
10A	34' 7"	20A	33' 2"	30A	30' 9"	40A	26' 9"	50A	20' 9"	62	15' 5"
10B	38' 7"	20B	37' 2"	30B	34' 9"	40B	30' 9"	50B	24' 9"	63	8' 1"
9A	34' 8"	19A	33' 5"	29A	31' 0"	39A	27' 3"	49A	21' 6"	54A	17' 5"
9B	38' 8"	19B	37' 5"	29B	35' 0"	39B	31' 3"	49B	25' 6"	54B	21' 5"
8A	34' 9"	18A	33' 7"	28A	31' 4"	38A	27' 8"	48A	22' 2"	53A	18' 4"
8B	38' 9"	18B	37' 7"	28B	35' 4"	38B	31' 8"	48B	26' 2"	53B	22' 4"
7A	34' 10"	17A	33' 9"	27A	31' 7"	37A	28' 1"	47A	22' 10"	52A	19' 2"
7B	38' 10"	17B	37' 9"	27B	35' 7"	37B	32' 1"	47B	26' 10"	52B	23' 2"
6A	34' 10"	16A	33' 10"	26A	31' 10"	36A	28' 6"	46A	23' 6"	51A	20' 0"
6B	38' 10"	16B	37' 10"	26B	35' 10"	36B	32' 6"	46B	27' 6"	51B	24' 0"
5A	34' 11"	15A	34' 0"	25A	32' 1"	35A	28' 11"	45A	24' 1"	60	23' 11"
5B	38' 11"	15B	38' 0"	25B	36' 1"	35B	32' 11"	45B	28' 1"	61	20' 1"
4A	34' 11"	14A	34' 2"	24A	32' 4"	34A	29' 4"	44A	24' 8"	58	29' 11"
4B	38' 11"	14B	38' 2"	24B	36' 4"	34B	33' 4"	44B	28' 8"	59	27' 1"
3A	35' 0"	13A	34' 3"	23A	32' 7"	33A	29' 8"	43A	25' 3"	56	34' 10"
3B	39' 0"	13B	38' 3"	23B	36' 7"	33B	33' 8"	43B	29' 3"	57	32' 6"
2A	35' 0"	12A	34' 5"	22A	32' 9"	32A	30' 1"	42A	25' 9"	55	36' 11"
2B	39' 0"	12B	38' 5"	22B	36' 9"	32B	34' 1"	42B	29' 9"	0A	37' 0"
1A	37' 0"	11A	34' 6"	21A	33' 0"	31A	30' 5"	41A	26' 3"		
1B	37' 0"	11B	38' 6"	21B	37' 0"	31B	34' 5"	41B	30' 3"		
Bottom of Stack											

78' DIA. BIN SPLIT PLANK LAYOUT



SWFS0020
08/25/2009 EAB

ONLY 1 OF PLANK "0" AND 2 OF
ALL OTHERS. PLANK "0" SPLITS
CENTER OF BIN.

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 78' DIA. BIN

A 78' floor is shipped in five large bundles. Three contain four stacks of flooring, one contains two stacks and one contains three stacks.

1. Label these 17 stacks as shown below and on next page by measuring top plank of each stack. There will be two each of stacks No. 1 through No. 8, one for each half of bin. Label the remaining stack No. 9.
2. See layout on previous page. Plank closest to sidewall (plank #66, measuring 7' 2") is starter plank. It is in stack No. 9 and is shortest plank in stack.
3. Lay out remaining planks. Work in descending order from plank #66 to plank #0. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

Page 32 for important notes.

78' FLOOR (SPLIT)

Stack No. 1		Stack No. 2		Stack No. 3		Stack No. 4		Stack No. 5	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack									
6C	27' 9"	12C	27' 6"	18C	26' 11"	24C	26' 2"	30C	25' 1"
6B	27' 9"	12B	27' 5"	18B	26' 11"	24B	26' 2"	30B	25' 2"
6A	21' 8"	12A	21' 5"	18A	20' 10"	24A	20' 1"	30A	19' 2"
5C	25' 9"	11C	25' 6"	17C	25' 0"	23C	24' 3"	29C	23' 3"
5B	25' 9"	11B	25' 6"	17B	25' 0"	23B	24' 4"	29B	23' 4"
5A	25' 10"	11A	25' 6"	17A	25' 0"	23A	24' 4"	29A	23' 4"
4C	27' 10"	10C	27' 7"	16C	27' 1"	22C	26' 5"	28C	25' 6"
4B	27' 10"	10B	27' 7"	16B	27' 1"	22B	26' 5"	28B	25' 6"
4A	21' 9"	10A	21' 6"	16A	21' 2"	22A	20' 6"	28A	19' 6"
3C	25' 9"	9C	25' 7"	15C	25' 3"	21C	24' 6"	27C	23' 8"
3B	25' 10"	9B	25' 7"	15B	25' 2"	21B	24' 7"	27B	23' 8"
3A	25' 10"	9A	25' 8"	15A	25' 2"	21A	24' 7"	27A	23' 8"
2C	27' 10"	8C	21' 8"	14C	27' 3"	20C	26' 8"	26C	25' 10"
2B	27' 10"	8B	27' 8"	14B	27' 3"	20B	26' 8"	26B	25' 10"
2A	21' 10"	8A	27' 8"	14A	21' 4"	20A	20' 8"	26A	19' 10"
1C	25' 10"	7C	25' 8"	13C	25' 4"	19C	24' 9"	25C	24' 0"
1B	25' 10"	7B	25' 8"	13B	25' 5"	19B	24' 10"	25B	24' 0"
1A	25' 10"	7A	25' 9"	13A	25' 5"	19A	24' 10"	25A	24' 0"
Bottom of Stack									

See next page for Stacks 6-9

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 78' DIA. BIN

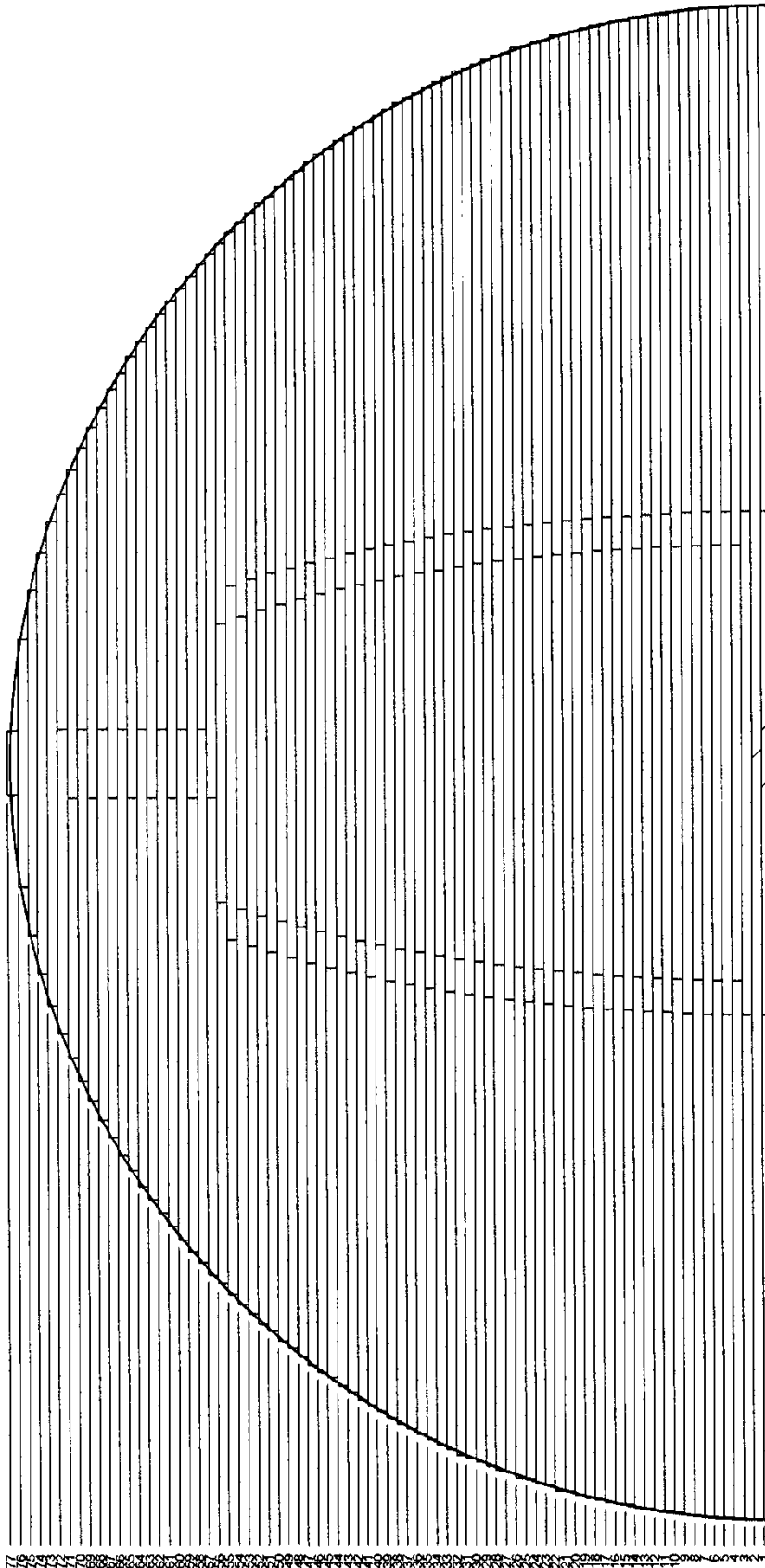
78' FLOOR (SPLIT)

Stack No. 6		Stack No. 7		Stack No. 8		Stack No. 9	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack							
38B	29' 10"	47B	25' 4"	57B	17' 9"	65	15' 2"
38A	33' 10"	47A	29' 4"	57A	21' 9"	65	15' 2"
37B	30' 2"	46B	25' 11"	56B	18' 9"	58B	16' 9"
37A	34' 2"	46A	29' 11"	56A	22' 9"	58A	20' 9"
36B	30' 7"	45B	26' 6"	55B	19' 8"	58B	16' 9"
36A	34' 7"	45A	30' 6"	55A	23' 8"	58A	20' 9"
35B	30' 11"	44B	27' 0"	54B	20' 6"	63	24' 1"
35A	34' 11"	44A	31' 0"	54A	24' 6"	63	24' 1"
34B	31' 4"	43B	27' 6"	53B	21' 3"	66	7' 2"
34A	35' 4"	43A	31' 6"	53A	25' 3"	66	7' 2"
						0C	25' 10"
33B	31' 8"	42B	28' 0"	52B	22' 0"		
33A	35' 8"	42A	32' 0"	52A	26' 0"	0B	25' 10"
						0A	25' 10"
32B	32' 0"	41B	28' 6"	51B	22' 9"		
32A	36' 0"	41A	32' 6"	51A	26' 9"	62	27' 6"
						62	27' 6"
64	20' 2"	40B	28' 11"	50B	23' 5"		
31C	23' 0"	40A	32' 11"	50A	27' 5"	61	30' 5"
						61	30' 5"
31B	22' 11"	39B	29' 4"	49B	24' 1"		
31A	22' 11"	39A	33' 4"	49A	28' 1"	60	33' 0"
						60	33' 0"
				48B	24' 9"		
				48A	28' 9"	59	35' 5"
						59	35' 5"

Bottom of Stack

See Page 32 for important notes.

90' DIA. BIN SPLIT PLANK LAYOUT



SWFS0021
08/26/2009 EAB

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 90' DIA. BIN

A 90' floor is shipped in six large bundles. Five contain four stacks of flooring and one contains three.

1. Label these 23 stacks as shown below and on next page by measuring top plank of each stack. There will be two stacks No. 1 through No.11, and two stacks No. 13 through No. 23 – one for each half of bin. Label remaining stack No. 12.
2. See layout on previous page. Plank closest to sidewall (plank #77, measuring 3' 10") is starter plank. It is in stack No. 12 and is shortest plank in stack.
3. Lay out remaining planks. Work in descending order from plank #77 to plank #1. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

90' FLOOR (SPLIT)

Stacks 1 & 23		Stacks 2 & 22		Stacks 3 & 21		Stacks 4 & 20		Stacks 5 & 19		Stacks 6 & 18	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
6A	25' 9"	12A	25' 6"	18A	25' 1"	24A	24' 5"	30A	23' 7"	36A	22' 5"
6B	31' 10"	12B	31' 6"	18B	31' 1"	24B	30' 5"	30B	29' 7"	36B	28' 6"
6C	29' 9"	12C	31' 6"	18C	31' 1"	24C	30' 5"	30C	29' 7"	36C	28' 6"
5A	31' 10"	11A	29' 6"	17A	29' 2"	23A	28' 6"	29A	27' 9"	35A	26' 8"
5B	29' 9"	11B	29' 6"	17B	29' 2"	23B	28' 6"	29B	27' 9"	35B	26' 8"
5C	29' 9"	11C	29' 6"	17C	29' 2"	23C	28' 6"	29C	27' 9"	35C	26' 8"
4A	25' 9"	10A	25' 7"	16A	25' 3"	22A	24' 8"	28A	23' 11"	34A	22' 10"
4B	31' 10"	10B	31' 7"	16B	31' 3"	22B	30' 9"	28B	29' 11"	34B	28' 11"
4C	29' 10"	10C	31' 7"	16C	31' 3"	22C	30' 9"	28C	29' 11"	34C	28' 11"
3A	31' 10"	9A	29' 8"	15A	29' 3"	21A	28' 9"	27A	28' 0"	33A	27' 1"
3B	29' 10"	9B	29' 8"	15B	29' 3"	21B	28' 9"	27B	28' 0"	33B	27' 1"
3C	29' 10"	9C	29' 8"	15C	29' 3"	21C	28' 9"	27C	28' 0"	33C	27' 1"
2A	31' 10"	8A	25' 8"	14A	25' 4"	20A	24' 10"	26A	24' 2"	32A	23' 3"
2B	31' 10"	8B	31' 9"	14B	31' 5"	20B	30' 11"	26B	30' 3"	32B	29' 4"
2C	25' 10"	8C	31' 9"	14C	31' 5"	20C	30' 11"	26C	30' 3"	32C	29' 4"
1A	29' 10"	7A	29' 9"	13A	29' 5"	19A	29' 0"	25A	28' 3"	31A	27' 5"
1B	29' 10"	7B	29' 9"	13B	29' 5"	19B	29' 0"	25B	28' 3"	31B	27' 5"
1C	29' 10"	7C	29' 9"	13C	29' 5"	19C	29' 0"	25C	28' 3"	31C	27' 5"
Bottom of Stack											

See next page for Stacks 7-17

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 90' DIA. BIN

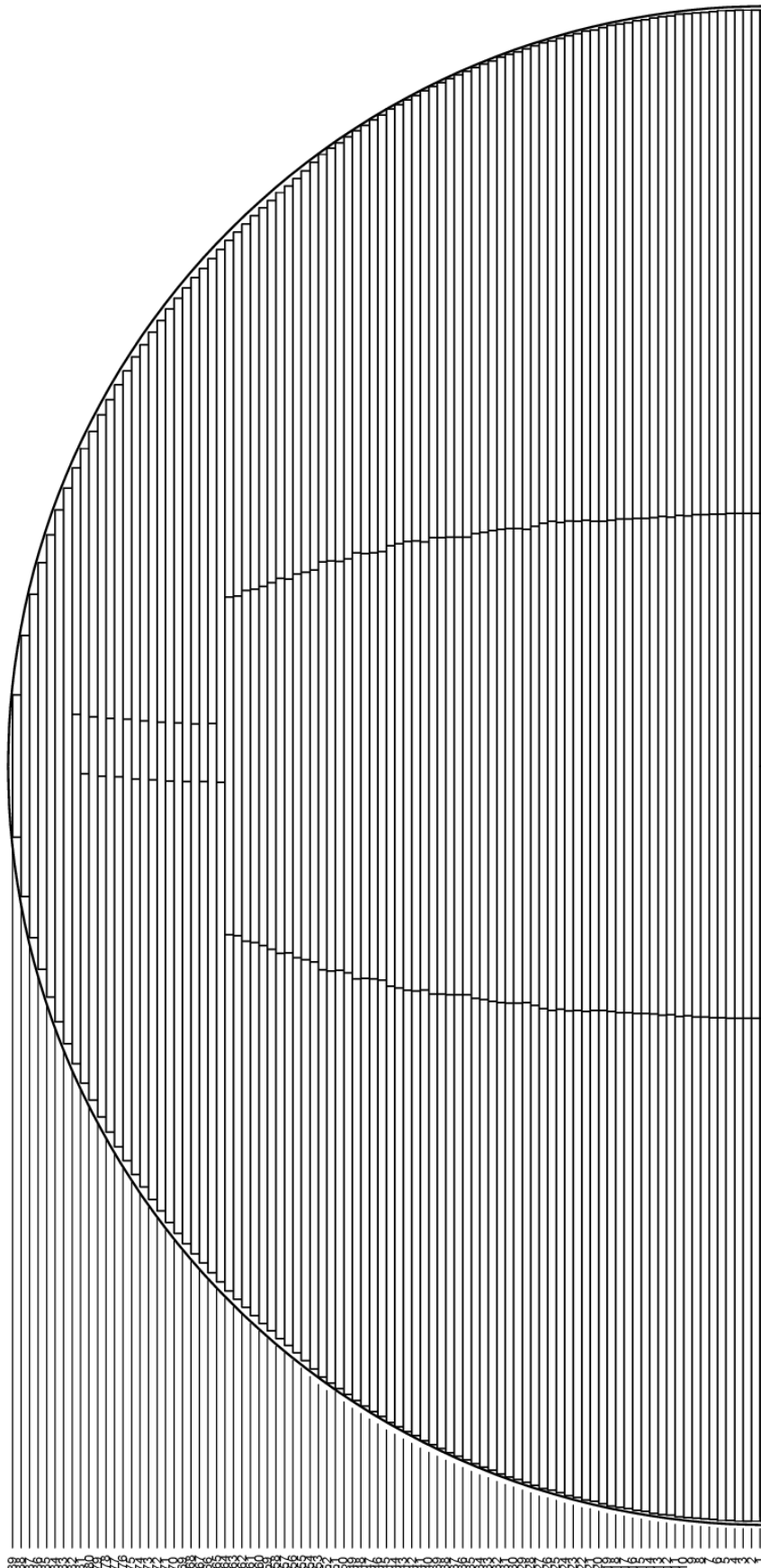
90' FLOOR (SPLIT)

Stacks 7 & 17		Stacks 8 & 16		Stacks 9 & 15		Stacks 10 & 14		Stacks 11 & 13		Stack 12	
Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length	Plank #	Length
Top of Stack											
42A	21' 1"	48A	19' 5"	54A	17' 4"	62A	24' 8"	56C	22' 7"	72A	14' 0"
42B	27' 2"	48B	25' 5"	54B	23' 5"	62B	28' 8"	55A	21' 0"	72B	18' 0"
42C	27' 2"	48C	25' 5"	54C	23' 5"	61A	25' 5"	55B	21' 0"	77	3' 10"
41A	25' 4"	47A	23' 9"	53A	21' 9"	61B	29' 6"	55C	21' 0"	76	14' 8"
										75	20' 6"
41B	25' 4"	47B	23' 9"	53B	21' 9"	60A	26' 2"	71A	15' 5"	56A	16' 6"
41C	25' 4"	47C	23' 9"	53C	21' 9"	60B	30' 3"	71B	19' 6"	56B	22' 7"
40A	21' 7"	46A	20' 0"	52A	18' 1"	59A	26' 11"	70A	16' 9"	72A	14' 0"
40B	27' 7"	46B	26' 1"	52B	24' 2"	59B	30' 11"	70B	20' 10"	72B	18' 0"
40C	27' 7"	46C	26' 1"	52C	24' 2"	58A	27' 7"	69A	18' 0"	77	3' 10"
39A	25' 10"	45A	24' 3"	51A	22' 5"	58B	31' 7"	69B	22' 0"	76	14' 8"
39B	25' 10"	45B	24' 3"	51B	22' 5"	57A	32' 3"	68A	19' 1"	75	20' 6"
39C	25' 10"	45C	24' 3"	51C	22' 5"	57B	28' 3"	68B	23' 2"	56A	16' 6"
38A	28' 1"	44A	20' 7"	50A	18' 9"	64A	23' 0"	67A	20' 2"	56B	22' 7"
38B	28' 1"	44B	26' 7"	50B	24' 10"	64B	27' 1"	67B	24' 3"		
38C	22' 1"	44C	26' 7"	50C	24' 10"	63A	23' 10"	66A	21' 2"		
37A	26' 3"	43A	24' 10"	49A	23' 1"	63B	27' 11"	66B	25' 3"		
37B	26' 3"	43B	24' 10"	49B	23' 1"	74	25' 0"	65A	22' 1"		
37C	26' 3"	43C	24' 10"	49C	23' 1"	73	28' 9"	65B	26' 2"		

Bottom of Stack

See Page 32 for important notes.

105' DIA. BIN SPLIT PLANK LAYOUT



SWFS0022
11/07/2018 MJW

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 105' DIA. BIN

A 105' floor is shipped in 14 large bundles. Twelve contain two stacks flooring and two contain one.

1. Label these 26 stacks as shown below and on next page by measuring top plank of each stack. There will be two stacks No. 1 through 10, as well as No. 12, No. 13, and Nos. 15 through 26 – one for each half of bin. Label two remaining stacks No. 11 and No. 14.
2. See layout on previous page. Plank closest to sidewall (plank #89, measuring 10' 6") is starter plank. It is the shortest plank in stack No. 14.
3. Lay out remaining planks. Work in descending order from plank #89 to plank #1. **NOTE:** Most planks are split, with sections A, B and, in some cases, C. Make sure to offset splices as shown on previous page. After reaching center of bin, install planks in ascending order on other side of bin.

See Page 32 for important notes.

105' FLOOR (SPLIT)

Stacks 1 & 26		Stacks 2 & 25		Stacks 3 & 24		Stacks 4 & 23		Stacks 5 & 22		Stacks 6 & 21		Stacks 7 & 20	
Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length
Top of Stack													
6A	34' 7"	12A	34' 5"	18A	34' 0"	24A	33' 3"	30A	32' 7"	36A	32' 0"	42A	30' 4"
6B	34' 8"	12B	34' 4"	18B	34' 0"	24B	34' 0"	30B	33' 0"	36B	31' 9"	42B	31' 6"
6C	34' 7"	12C	34' 4"	18C	34' 0"	24C	33' 3"	30C	32' 7"	36C	31' 9"	42C	30' 4"
5A	34' 8"	11A	34' 6"	17A	34' 2"	23A	34' 0"	29A	33' 0"	35A	32' 0"	41A	31' 8"
5B	34' 7"	11B	34' 5"	17B	34' 0"	23B	33' 4"	29B	32' 9"	35B	32' 0"	41B	30' 7"
5C	34' 7"	11C	34' 6"	17C	34' 0"	23C	33' 4"	29C	32' 9"	35C	32' 0"	41C	30' 7"
4A	34' 7"	10A	34' 6"	16A	34' 1"	22A	33' 6"	28A	33' 0"	34A	32' 0"	40A	31' 0"
4B	34' 9"	10B	34' 6"	16B	34' 3"	22B	34' 0"	28B	33' 0"	34B	32' 6"	40B	31' 5"
4C	34' 7"	10C	34' 5"	16C	34' 1"	22C	33' 6"	28C	33' 0"	34C	32' 0"	40C	31' 0"
3A	34' 9"	9A	34' 6"	15A	34' 3"	21A	34' 0"	27A	33' 5"	33A	32' 7"	39A	31' 11"
3B	34' 7"	9B	34' 6"	15B	34' 2"	21B	33' 7"	27B	33' 0"	33B	32' 2"	39B	31' 0"
3C	34' 7"	9C	34' 6"	15C	34' 2"	21C	33' 7"	27C	33' 0"	33C	32' 2"	39C	31' 0"
2A	34' 7"	8A	34' 6"	14A	34' 4"	20A	33' 9"	26A	33' 0"	32A	32' 3"	38A	31' 3"
2B	34' 9"	8B	34' 7"	14B	34' 3"	20B	34' 0"	26B	33' 8"	32B	33' 0"	38B	32' 0"
2C	34' 7"	8C	34' 6"	14C	34' 3"	20C	33' 9"	26C	33' 0"	32C	32' 3"	38C	31' 3"
1A	34' 9"	7A	34' 8"	13A	34' 4"	19A	34' 0"	25A	34' 0"	31A	33' 0"	37A	32' 0"
1B	34' 7"	7B	34' 6"	13B	34' 4"	19B	33' 11"	25B	33' 0"	31B	32' 5"	37B	31' 6"
1C	34' 7"	7C	34' 6"	13C	34' 4"	19C	33' 11"	25C	33' 0"	31C	32' 5"	37C	31' 6"

Bottom of Stack

See next page for Stacks 8-19

Layout & Location of Floor Planks

LOCATING SPLIT PLANKS FOR 105' DIA. BIN

105' FLOOR (SPLIT)

Stacks 8 & 19		Stacks 9 & 18		Stacks 10 & 17		Stack 11		Stacks 12 & 16		Stacks 13 & 15		Stack 14	
Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length	Plank #	Plank Length
Top of Stack													
48A	29' 0"	54A	28' 0"	60A	26' 1"	63A	24' 6"	72A	32' 11"	81A	24' 1"	89	10' 6"
48B	30' 0"	54B	27' 7"	60B	25' 8"	63B	24' 6"	72B	28' 11"	81B	20' 1"	89	10' 6"
48C	29' 0"	54C	27' 7"	60C	25' 8"	63C	24' 6"	71A	33' 8"	80A	25' 4"	88	18' 8"
47A	30' 0"	53A	28' 1"	59A	26' 5"	63A	25' 1"	71B	29' 8"	80B	21' 4"	88	18' 8"
47B	29' 5"	53B	28' 0"	59B	26' 0"	63B	25' 1"	70A	34' 5"	79A	26' 5"	82A	22' 10"
47C	29' 5"	53C	28' 0"	59C	26' 0"	63C	24' 6"	70B	30' 5"	79B	22' 5"	82B	18' 10"
46A	30' 0"	52A	28' 0"	58A	26' 3"	62A	25' 2"	69A	35' 2"	78A	27' 6"	82A	22' 10"
46B	29' 9"	52B	28' 11"	58B	27' 0"	62B	25' 0"	69B	31' 2"	78B	23' 6"	82B	18' 10"
46C	29' 9"	52C	28' 0"	58C	26' 3"	62C	25' 0"	68A	35' 10"	77A	28' 6"	87	24' 4"
45A	30' 4"	51A	29' 10"	57A	27' 1"	61A	26' 0"	68B	31' 10"	77B	24' 6"	87	24' 4"
45B	30' 0"	51B	28' 4"	57B	26' 6"	61B	25' 2"	67A	36' 6"	76A	29' 6"	86	28' 8"
45C	30' 0"	51C	28' 4"	57C	26' 6"	61C	25' 2"	67B	32' 6"	76B	25' 6"	86	28' 8"
44A	30' 0"	50A	29' 0"	56A	27' 0"	62A	25' 2"	66A	37' 2"	75A	30' 5"	85	32' 6"
44B	30' 11"	50B	28' 9"	56B	27' 5"	62B	25' 0"	66B	33' 2"	75B	26' 5"	85	32' 6"
44C	30' 0"	50C	28' 9"	56C	27' 0"	62C	25' 0"	65A	37' 10"	74A	31' 3"	84	35' 11"
43A	31' 3"	49A	29' 4"	55A	28' 0"	61A	26' 0"	65B	33' 10"	74B	27' 3"	84	35' 11"
43B	30' 2"	49B	29' 0"	55B	27' 2"	61B	25' 2"	64A	38' 5"	73A	32' 1"	83	38' 11"
43C	30' 2"	49C	29' 0"	55C	27' 2"	61C	25' 2"	64B	34' 5"	73B	28' 1"	83	38' 11"
Bottom of Stack													

See Page 32 for important notes.

Contact Information

CONTACT INFORMATION

Owner's manuals are available from Sukup and additional copies can be requested at address, phone number, or e-mail address shown below. Please indicate manual number L1417 when requesting the *Channel-Lok* Bin Floors & Supports Owner's Installation Manual for major bin diameters.

SUKUP DEALER INFORMATION

Dealer name: _____
Address: _____
Cell phone: _____
Office phone: _____
Fax: _____

EMERGENCIES – KNOW WHAT TO DO

Have emergency numbers and written directions to your location near your telephone in case of emergency. Spaces for emergency phone numbers to be recorded have been provided below.

Ambulance • Fire • Police: 9-1-1
Bin rescue team: _____
Emergency medical squad: _____
Address of work site: _____
Directions to work site: _____

**Sukup Manufacturing Co.**

1555 255th Street, Box 677

Sheffield, Iowa, USA 50475-0677

Phone: 641-892-4222

Fax: 641-892-4629

Website: www.sukup.com

Email: info@sukup.com