

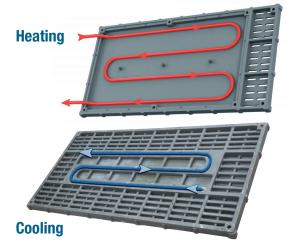
INTEGRA FARROWING FLOORING





GENERAL INFORMATION

- · Compressed fiberglass.
- Non-corrosive.
- Flame resistant.
- All fastening/maintenance can be completed from top of floor.
- Integrated heating and cooling
- North American measurements.
- Excellent traction for both sows and staff.
- Simple to install.
- Easy to clean and maintain.
- · Sows can walk on all pieces.
- · Multiple configurations available.





Flame Resistant

The Integra Farrowing Floor has been given a Class A Flame Resistance rating. Constructed of compressed fiberglass, the Integra floor will dramatically slow the spread of fire if one were to break out.



Integrated Heating & Cooling

Keep your animals comfortable with our temperature controlled flooring option. Water is routed through the floor to heat or cool without the use of electrical components. When your pigs are at a comfortable temperature you can expect the sow to eat more, increasing weaning weight.



Quality Design

Designed for longevity and ease of use. The Integra floor can be installed and removed from the top making maintenance quick and easy. Quality construction makes the floor strong enough to handle the sows weight, yet gentle on their skin.

- Easy installation & maintenance
- Excellent traction
- Non-corrosive compressed fiberglass
- Easy to clean



15 Year Warranty

Our flooring is strong, durable and built to last. We are confident in the durability of the Integra floor and back that up with a 15 year warranty.



Printed in Canada

CANARM LTD. - Corporate Office PO Box 367 2157 Parkedale Ave., Brockville, ON

Canada K6V 5V6 Tel: (613) 342-5424 Fax: 1-800-263-4598 **Arthur Manufacturing Facility**

#7686 Concession 16, RR 4 Arthur, ON Canada N0G 1A0 Tel: (519) 848-3910 Fax: (519) 848-3948 Montréal Warehouse

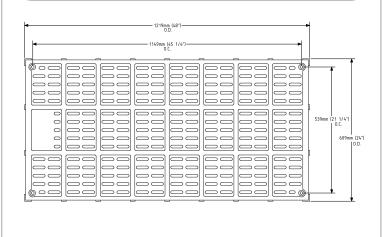
2555 Rue Bernard Lefebvre Laval PC Canada H7C 0A5 Tel: (450) 655-2535 Fax: (450) 665-0910 CANARM LTD. - USA Warehouse 808 Commerce Park Drive Ogdensburg, New York, USA 13669

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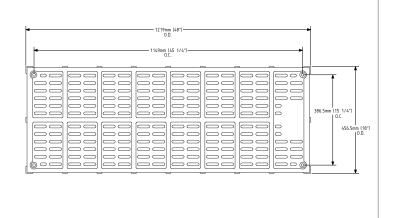


INTEGRA FLOORING

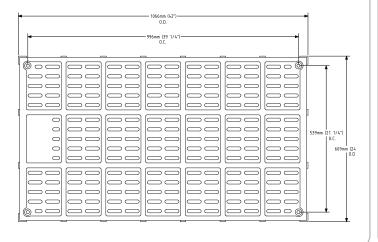
2099505-48 - 24" x 48" HD SOW INTEGRA



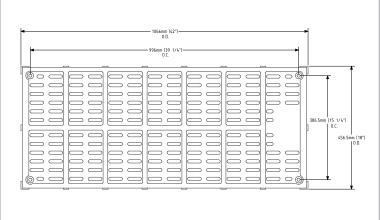
2099507-48 - 18" X 48" HD SOW INTEGRA



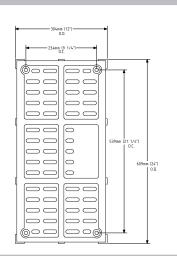
2099505-42 - 24" x 42" HD SOW INTEGRA



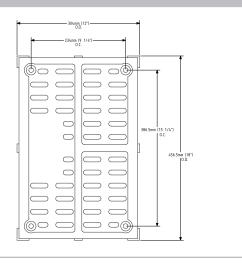
2099507-42 - 18" X 42" HD SOW INTEGRA



2099505-12 - 24" x 12" HD SOW INTEGRA



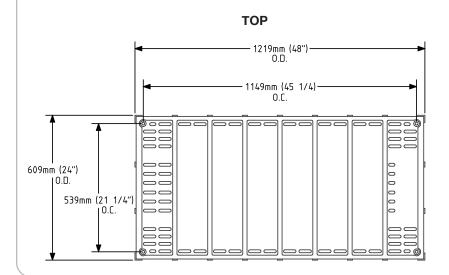
2099507-12 - 18" X 12" HD SOW INTEGRA



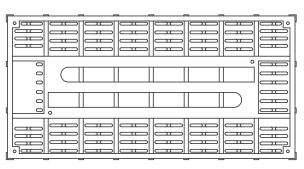


INTEGRA FLOORING

2099506-48 24" X 48" HD INTEGRA HEAT / COOL PAD



BOTTOM



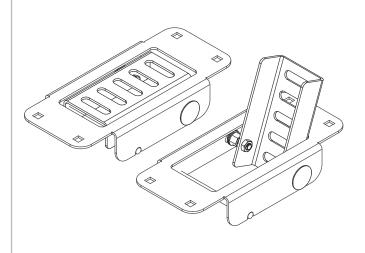
BENEFITS OF INTEGRA WATER HEATING

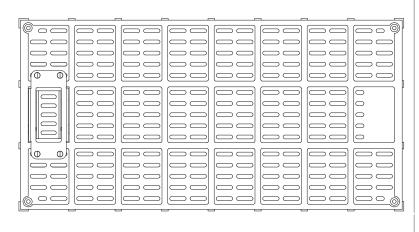
- When compared to electric heat pads:
 - More reliable.
 - No electrical components to fail.
 - No external wires
- Same height as the other flooring pieces.
 - No access points for manure and other bacteria to hide.
- Sow can walk on it.
- · Keep piglets warm at source.
- Easy to maintain 4 bolts to remove floor piece.

BENEFITS OF INTEGRA WATER COOLING

- Keep sows cool when ambient temperatures are too high.
- Reduce respiration rate with floor cooling.
- Higher sow feed intake:
 - Increase milk production.
 - Higher weaning weight.
 - Sows leave the crates in better physical condition.
- Sows spend more time nursing.
- Easy to maintain 4 bolts to remove floor piece.

CUSTOM SS CLEAN-OUT OPTIONS AVAILABLE

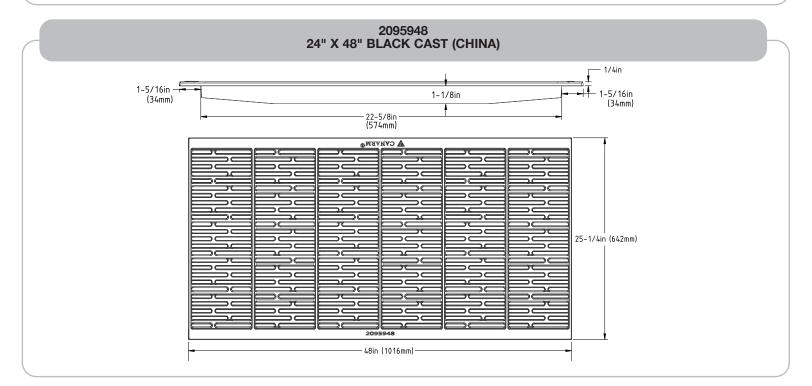


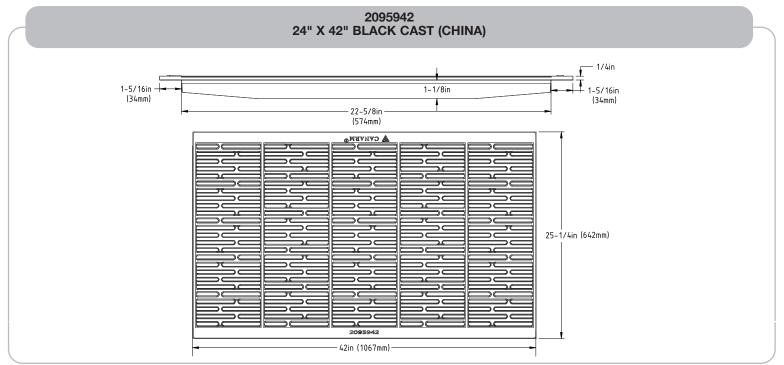




FEATURES

- Black ductile cast.
- Traction bars every 8" and along the outside edge.
 - Reduces sow slipping.
 - Increased stability reduces crushing.
- Cool under sow, also reduces crushing.
- Holes on the ends to bolt cast together (prevents cast from separating.)







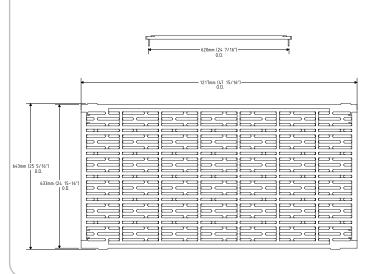
SCHONLAU CAST

FEATURES - SCHOLAU CAST

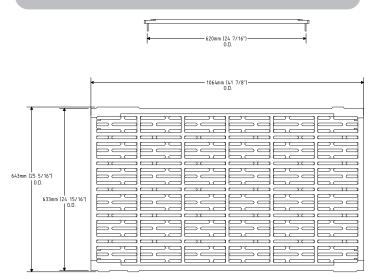
- Schonlau is a premium German cast.
- Adaptable Can be combined with all Canarm AgSystems flooring applications.
- 2 traction levels for extreme horizontal foothold on wet surfaces.
- Smooth surface No sharp fins or edges.
- Manufactured with the worldwide unique "Open Mold Technology."
- Rounded bars prevent squeezing and cutting of teats.
- Cool under sow, reduces crushing.



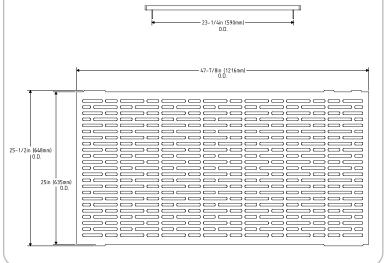
2099548 - 24" X 48" SCHONLAU CAST (TABS 619.73MM OD) JET BLACK RAL 9005



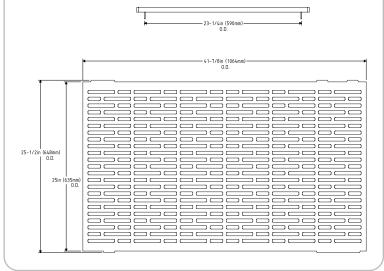
2099542 - 24" X 42" SCHONLAU CAST (TABS 619.73 MM OD)



2096948 - 24" X 48" CAST C/W TABS - RED



2096942 - 24" X 42" CAST C/W TABS - RED





FIBERGLASS RAILS

FEATURES

- Heavy duty "adjustable" post support system
- Triangular shaped, heavy duty plastic end bracket enhances stability and protects the beam from the concrete
- Corrosion resistant fiberglass rail provides an excellent alternative to stainless steel.
- Rail is 5 5/16" high for added strength
- · Light weight and strong
- Easy to install
- 3/16" rail can be used with all Canarm flooring





ACCESSORIES

• Available accessories: Post, End Caps, Mid & End Plates







CANARM LTD. - Corporate OfficePO Box 367 2157 Parkedale Ave.,
Brockville, ON
Canada K6V 5V6
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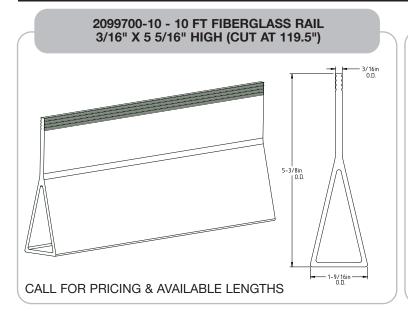
Arthur Manufacturing Facility #7686 Concession 16, RR 4 Arthur, ON Canada N0G 1A0 Tel: (519) 848-3910 Fax: (519) 848-3948

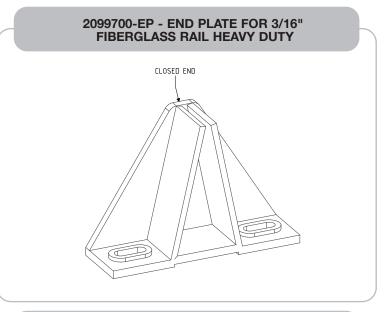
Montréal Warehouse 2555 Rue Bernard Lefebvre Laval, PC Canada H7C 0A5 Tel: (450) 655-2535 Fax: (450) 665-0910

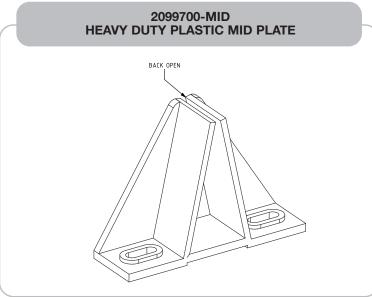
CANARM LTD. - USA Warehouse 808 Commerce Park Drive Ogdensburg, New York, USA 13669 Tel: 1-800-267-4427 Fax: 1-800-263-4598



FIBERGLASS RAILS















DELTA RAILS

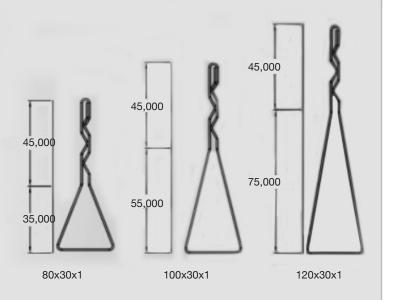
SS DELTA RAILS

Height and thickness specified per project:

- Available in 3 heights 80mm, 100mm, 120mm
- Available in different gauge material 1.0mm, 1.2mm, 1.5mm







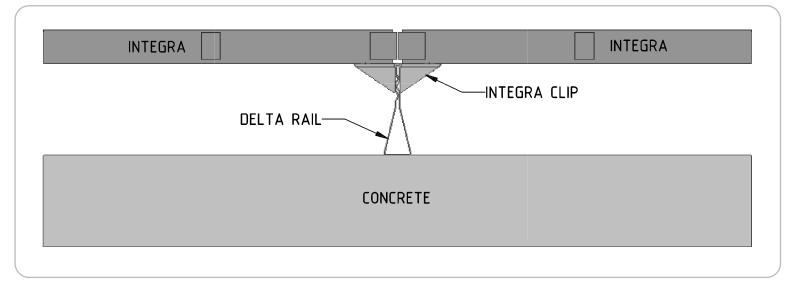
STANDARD STOCK 100MM X 1.2MM X 2450MM LONG

SPECIAL ORDER SIZES - CALL FOR PRICING AND SPECIFICATIONS

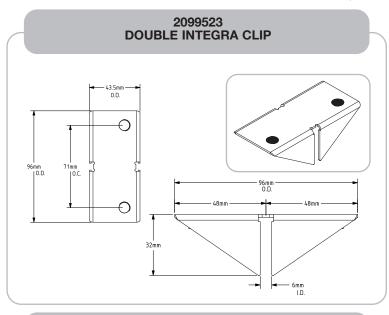
DELTA-i		MAX LENGTH (SPAN) IN mm			
HEIGHT	THICKNESS	WEANERS SLAT 600 MM	WEANERS SLAT 800 MM	SOWS	
80 mm	0.8 mm	1600	1500		
80 mm	1 mm	2000	1800	1500	
80 mm	1.2 mm	2400	2200	2000	
80 mm	1.5 mm	2800	2600	2500	
100 mm	0.8 mm	2000	1800	1600	
100 mm	1 mm	2500	2500	2000	
100 mm	1.2 mm	3000	3000	2500	
100 mm	1.5 mm	3250	3250	2750	
120 mm	0.8 mm	2500	2500	2000	
120 mm	1 mm	3000	3000	2600	
120 mm	1.2 mm	3500	3500	3000	
120 mm	1.5 mm	3750	3750	3250	

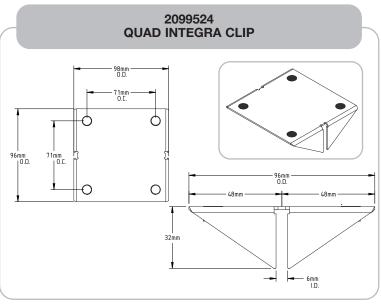


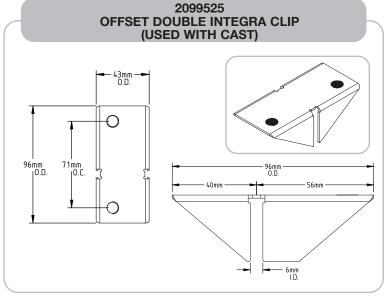
INTEGRA CLIPS

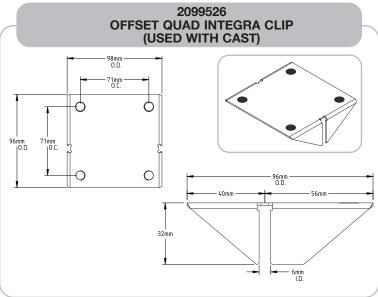


FOR STANDARD INTEGRA INSTALLATION, USE 8MM X 40MM SS BOLTS + 8MM WASHERS



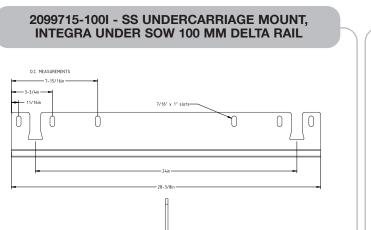


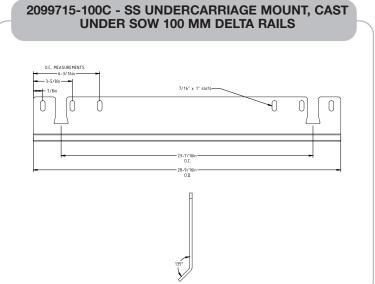


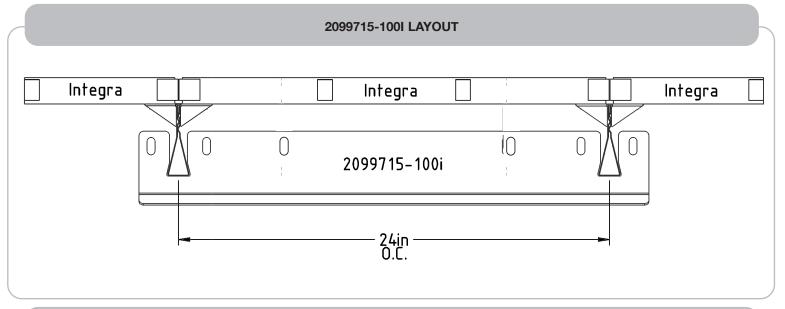


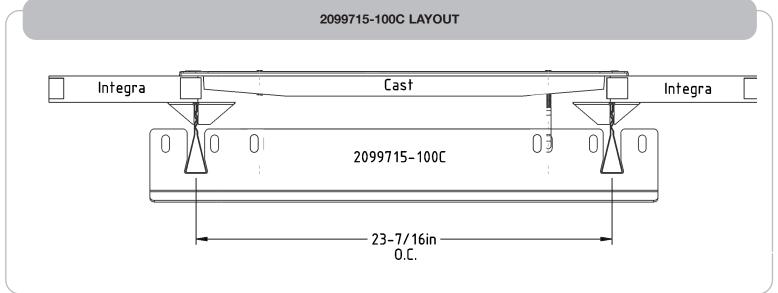


UNDERCARRIAGE MOUNT



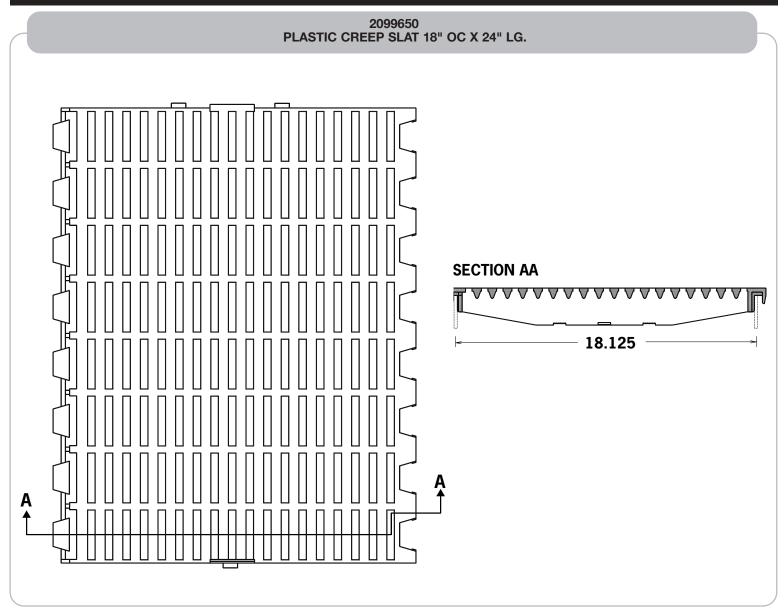


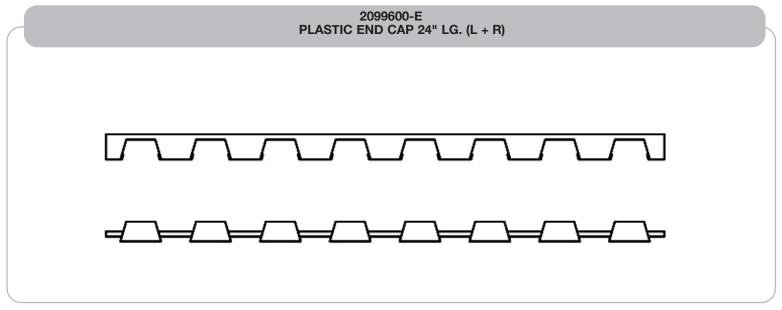






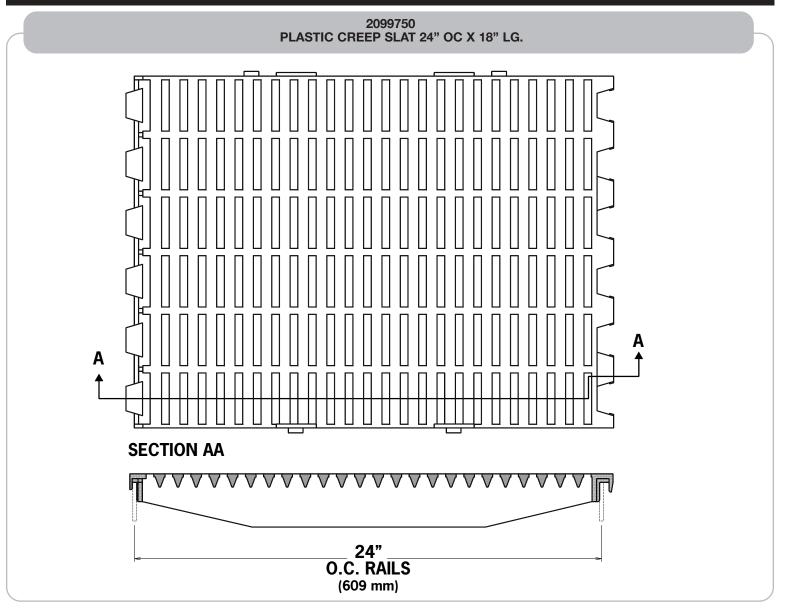
18" X 24" PLASTIC CREEP FLOORING

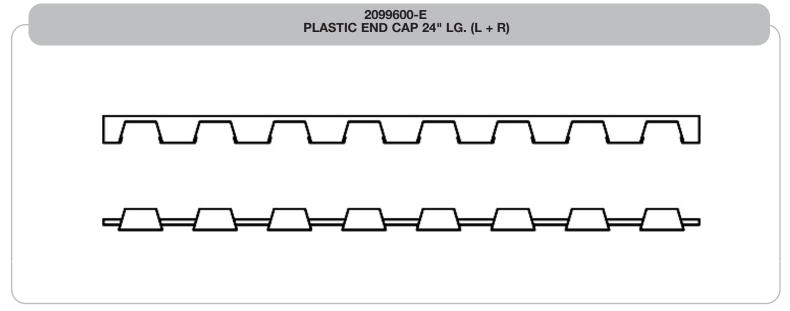






24" X 18" PLASTIC CREEP FLOORING

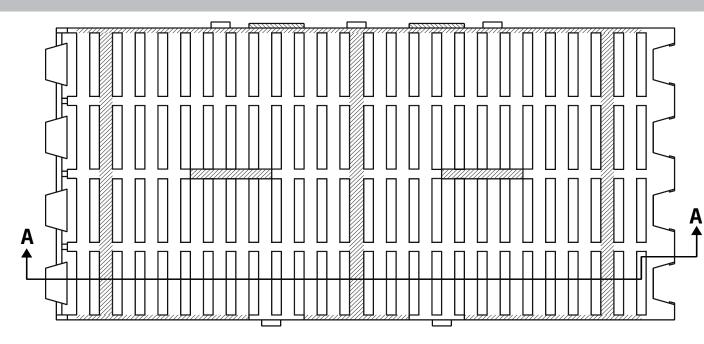




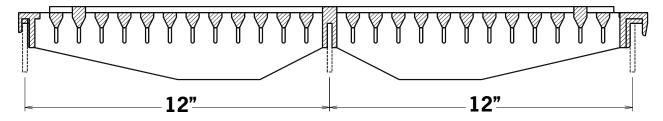


PLASTIC SOW FLOOR

2099810 SOW FARROWING 24" OC X 12" LG.

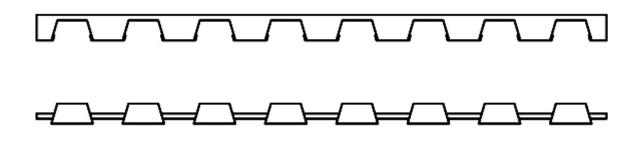


SECTION AA



NOTE: Requires additional rail in the center

2099600-E PLASTIC END CAP 24" LG. (L + R)





NURSERY FLOORING



BENEFITS

The Seamless Summit Nursery Slat provides exceptionally easy cleaning, elevated comfort, and excellent durability. Another innovative product that helps you produce healthier pigs more economically.



FEATURES

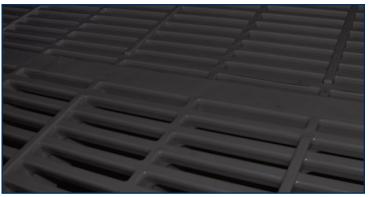
- · Unique "Seamless joining" system for easier cleaning.
- · V-shaped ribs for early disease detection.
- Designed for pigs up to 100 lbs.
- · Cost savings, as less rails are required.
- Large 24" x 48" slat size for reduced installation time.

WARRANTY

- 5 year pro-rated warranty.
- Note: Flooring guidelines on FLOORING 17 must be followed to ensure warranty.

Note: Grey Seamless Summit has been discontinued.







CANARM LTD. - Corporate Office PO Box 367 2157 Parkedale Ave., Brockville, ON Canada K6V 5V6 Fax: 1-800-263-4598

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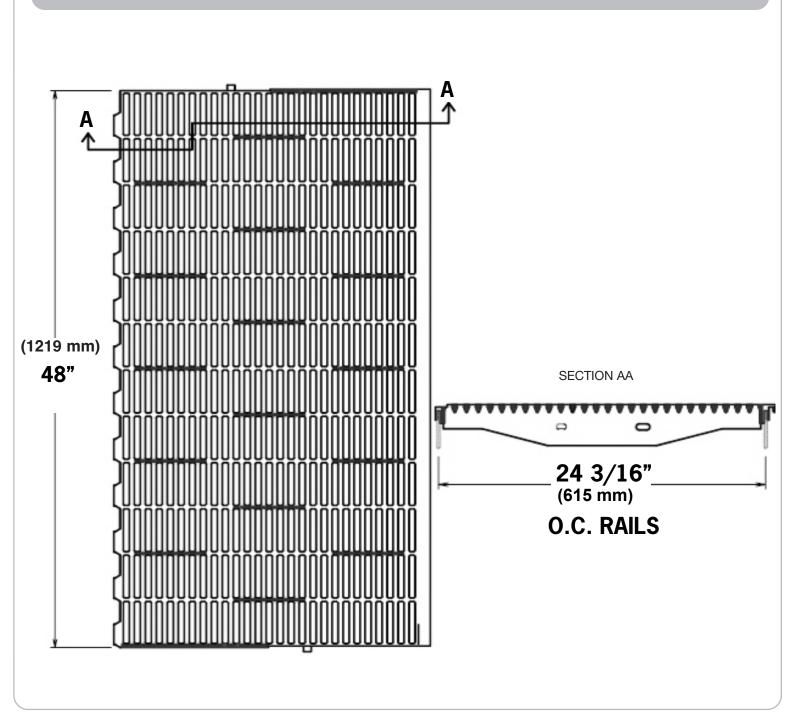
> agsales@canarm.ca Printed in Canada

Tel: (613) 342-5424



SEAMLESS SUMMIT

2099350-B BLACK SEAMLESS SUMMIT 24" OC X 48" LG FLOOR

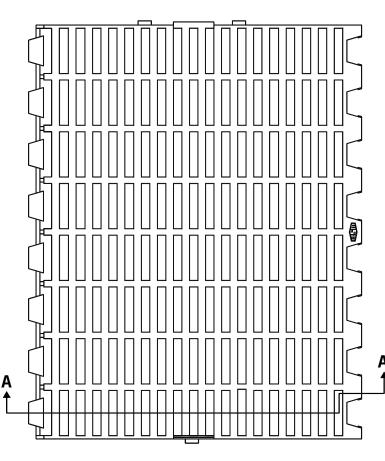


- Size installed (24 3/16" O.C.) (615 mm) x (48" lg.) (1219 mm)
- % Open (324 slots @ .470" x 3.70") (12 mm x 94 mm) therefore 50% open
- Max. 100 lb. (45 kg) grower pigs
- Top of support to top of floor = 11/16" (17 mm) (Overall height = 3 3/8") (86 mm)
- Therefore minimum support height = 3" (76 mm)
- WARRANTY: 5 YEAR PRO-RATED

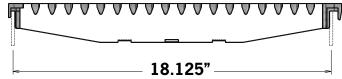
Note: See installation instructions for expansion requirements.

Grey Seamless Summit discontinued due to raw material cost. Contact for availability.

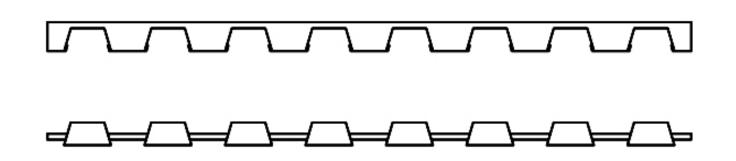
2099600 PL.GRWR 18" OC X 24" LG (H-125 H-128)



SECTION AA



2099600-E PLASTIC END CAP 24" LG. (L + R)

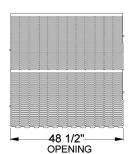


NOTE: Not for use with seamless summit.

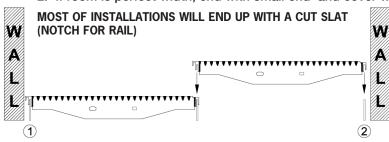


INSTALLATION GUIDELINES SEAMLESS SUMMIT

ASSEMBLY - 4', 8', 12', 16', 20', 24', ETC.



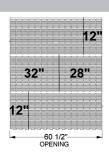
- 1. Start with seamless joint.
- 2. If room is perfect width, end with small end and cover with SS cove.

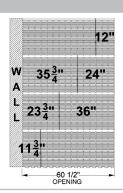




ASSEMBLY - 5', 9', 13', 17', 21', 25', ETC.

- Must start & stop with full rib.
- 1/4 slat waste over 3 rows.

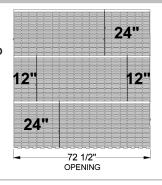


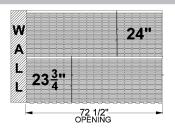


- 0 flooring waste.
- Cut slats must be at wall with SS cove.

ASSEMBLY - 6', 10', 14', 18', 22', 26', ETC.

- Must start & stop with full rib.
- 1/2 slat waste over 3 rows.

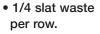


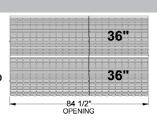


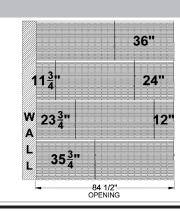
- 0 flooring waste.
- Cut slats must be at wall with SS cove.

ASSEMBLY - 7', 11', 15', 19', 23', 27', ETC.

 Must start & stop with full rib.







- 0 flooring waste.
- Cut slats must be at wall with SS cove.



INSTALLATION GUIDELINES CANARM PLASTIC FLOORING SYSTEM

FLOORING - 18

INSTALLATION GUIDELINES - ANY DEVIATION FROM THESE GUIDELINES MUST BE APPROVED BY THE CANARM CUSTOMER SERVICE AND ENGINEERING DEPARTMENTS

Plastic flooring systems will expand and contract with temperature change. Expansion gap guidelines must be followed. The flooring guidelines below must be followed to ensure warranty. Livestock Flooring products are designed to carry normal livestock loads and densities. They are not designed to be work-platforms for construction and contractor operations. Care should be taken to avoid sudden impacts and point loads, such as ladders, during the installation process. Care should also be taken to walk on the top of the support rails or beams.

- 1. Store all flooring parts inside and at 70°F/20°C for at least 48 hours before installation. Never install flooring that has not been properly warmed.
- Use only Canarm supplied support system and installation guidelines. Any deviation from this should be discussed
 with and approved by our customer service and engineering departments. Using rails thicker than 3/16" (4.75 mm)
 will result in damage to the floor and possible failure.
- Leave room for expansion at walls, and an expansion joint in floor runs of over 60 feet (18 meters).
 (Refer to the Thermal Expansion chart on next page for guidelines.)
- 4. Some floor designs allow for staggered joints. This is recommended for maximum strength and stability.
- 5. All expansion gaps should be covered with a "cove" that will allow expansion and contraction of the floor.
- 6. Avoid hammering on the flooring and only use a soft rubber mallet when necessary.
- 7. Support rails and beams must be installed straight and plumb.
- 8. Minimum of 2" (50.8 mm) of rail should be supported on curbs, and rail should be long enough to prevent linear shifting off the curb.
- Rails should not be fastened to the curb, as the flooring system must be allowed to expand, contract and "float" when necessary.

SPAN WIDTH AND RAIL HEIGHT REQUIREMENTS

- All steel rails must be 3/16" (4/7 mm) thick.
- Up to 96" (2438 mm) long and 3" (76 mm) high.
- 96" (2438 mm) 120" (3048 mm) long and 3.5" (88.9 mm) high
- For rails over 120" (3048 mm) long, please call for center support recommendations.

THERMAL EXPANSION

Whenever possible, always install flooring at the room operating temperature.

If installing below the operating temperature, use the Thermal Expansion chart on next page to calculate the expansion gap to be used between walls and flooring.

If the floor is longer than 60 feet (18 meters), an expansion joint is needed. To make an expansion joint, use two support beams side by side and leave a gap between floor parts (proper expansion gap can be calculated by referring to the Thermal Expansion chart and then doubling the value).

THERMAL EXPANSION GAP

The gap distance depends on the floor length, and the installation temperature vs. room operating temperature.



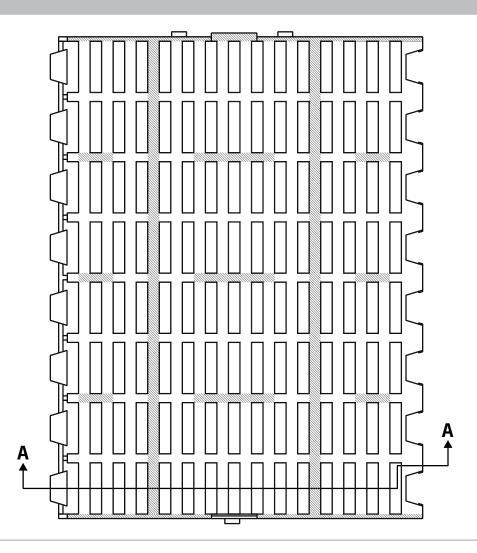
INSTALLATION GUIDELINES CANARM PLASTIC FLOORING SYSTEM

THERMAL EXPANSION CHART

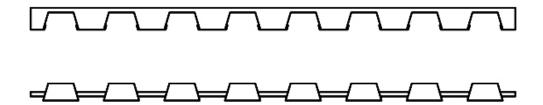
LENGTH/WIDTH OF FLOORING SECTION		INSTALLATION - DEGREES BELOW OPERATING TEMPERATURE		EXPANSION GAP TO LEAVE AT EDGES OF FLOOR SECTION (DOUBLE BETWEEN FLOOR SECTIONS)		
FEET	METRES	FAHRENHEIT	CELCIUS	INCHES	INCHES	MILLIMETRES
10'	3m	0	0	0.1250	1/8"	3mm
10'	3m	10	6	0.1563	5/32"	4mm
10'	3m	20	11	0.1875	3/16"	5mm
10'	3m	30	17	0.2500	1/4"	6mm
10'	3m	40	22	0.3125	5/16"	8mm
20'	6m	0	0	0.1875	3/16"	5mm
20'	6m	10	6	0.3125	5/16"	8mm
20'	6m	20	11	0.3750	3/8"	10mm
20'	6m	30	17	0.5000	1/2"	13mm
20'	6m	40	22	0.6250	5/8"	16mm
30'	9m	0	0	0.2500	1/4"	6mm
30'	9m	10	6	0.4688	15/32"	12mm
30'	9m	20	11	0.5625	9/16"	14mm
30'	9m	30	17	0.7500	3/4"	19mm
30'	9m	40	22	0.9375	15/16"	24mm
40'	12m	0	0	0.3750	3/8"	10mm
40'	12m	10	6	0.6250	5/8"	16mm
40'	12m	20	11	0.7500	3/4"	19mm
40'	12m	30	17	1.0000	1"	25mm
40'	12m	40	22	1.2500	1-1/4"	32mm
50'	15m	0	0	0.5000	1/2"	13mm
50'	15m	10	6	0.7813	25/32"	20mm
50'	15m	20	11	0.9375	15/16"	24mm
50'	15m	30	17	1.2500	1-1/4"	32mm
50'	15m	40	22	1.5625	1-9/16"	40mm
60'	18m	0	0	0.6250	5/8"	16mm
60'	18m	10	6	0.9375	15/16"	24mm
60'	18m	20	11	1.1250	1/1/8"	29mm
60'	18m	30	17	1.5000	1-1/2"	38mm
60'	18m	40	22	1.8750	1-7/8"	48mm

Note - Double the gap for expansion gaps between sections of flooring. Flooring sections in excess of 60 ft / 18m, must have expansion gaps within.

PLASTIC FLOORING OPTIONS HOG FLOORING 2090675 - PL. FINISHER 18" OC X 24" LG.

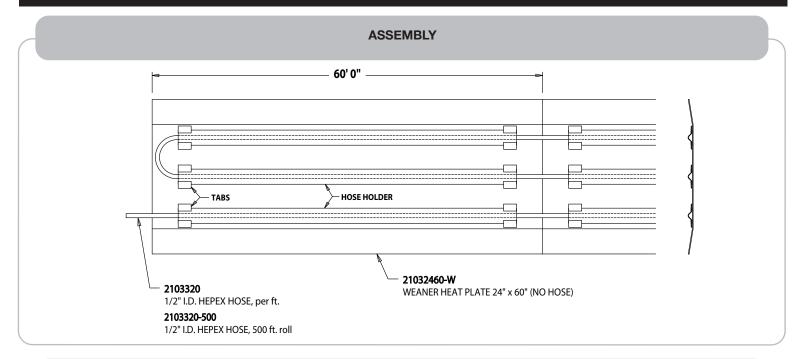


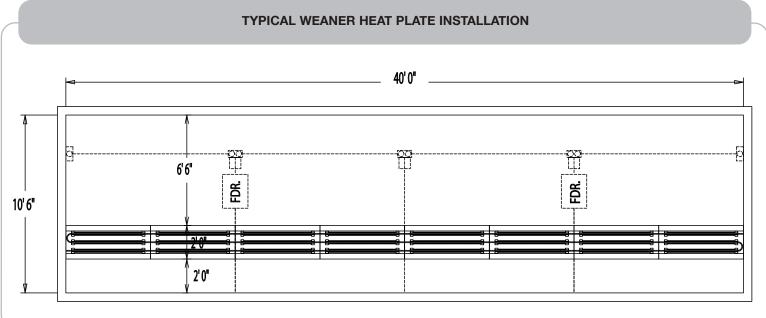
2099600-E PLASTIC END CAP 24" LG. (L + R)





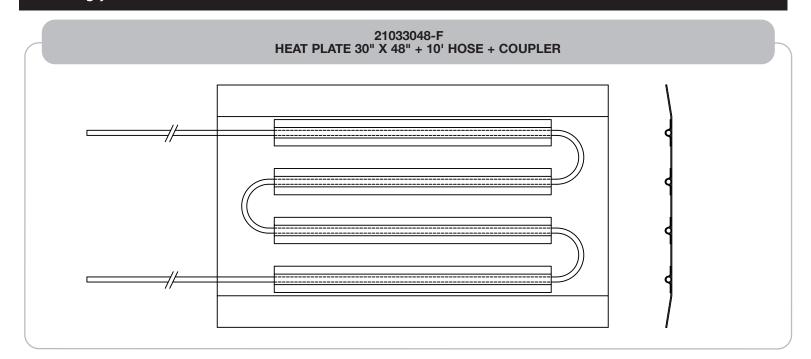
ALUMINUM HEAT PLATES (WEANER)

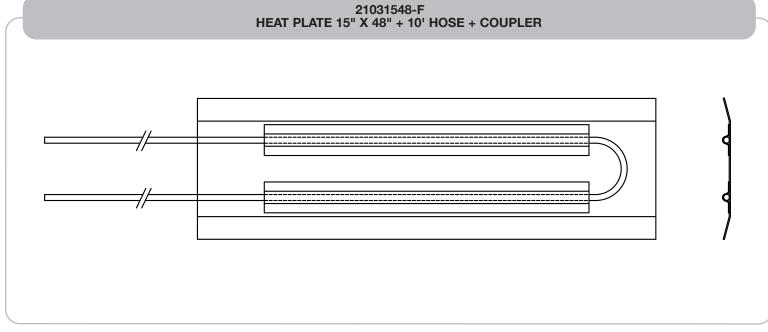


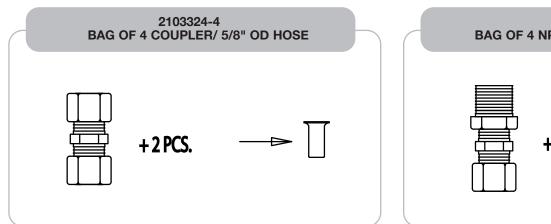


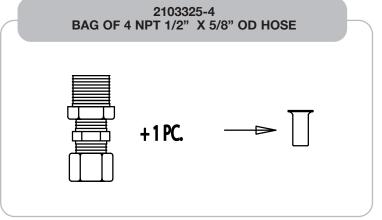
INSTALLATION INSTRUCTIONS

- 1) Lay heat plates on floor with hose holders facing up.
- 2) Run a continuous length of hose through all heat plates being installed.
- 3) Slide a hose holder over hepex hose and under tabs.
- 4) Turn all heat plates right side up.











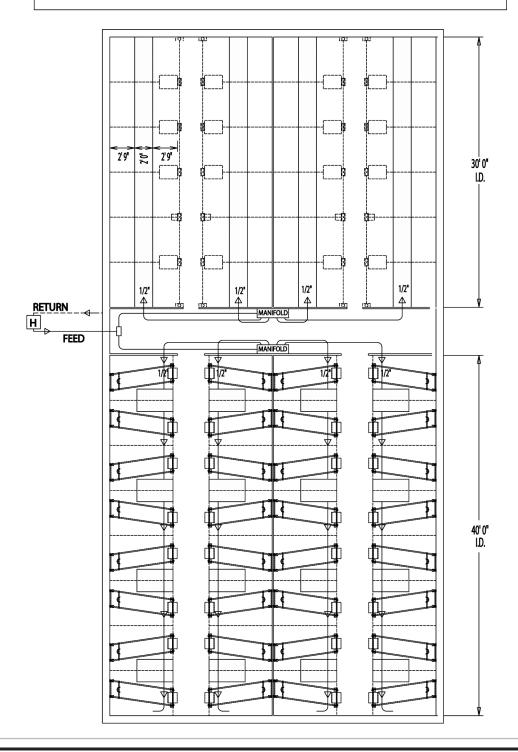
FARROWING HEAT PLATE LAYOUT

ASSEMBLY

H BOILER + EXPANSION TANK (APPROX. 70 BTU / HOUR / SQ FT OF HEAT PLATE)

FEED & RETURN MANIFOLDS c/w PUMP
THERMOMETER ON RETURN LINES TO SHOW WATER TEMP.

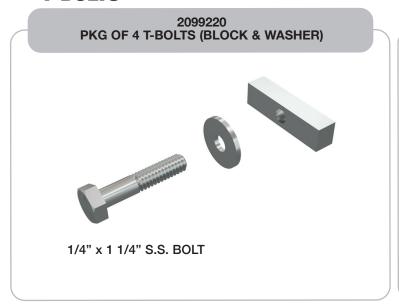
RETURN LINE NOT SHOWN

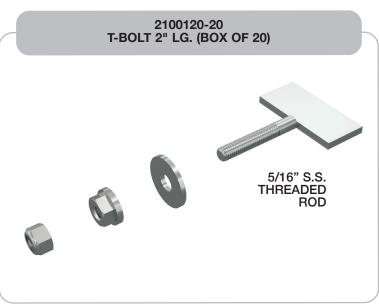




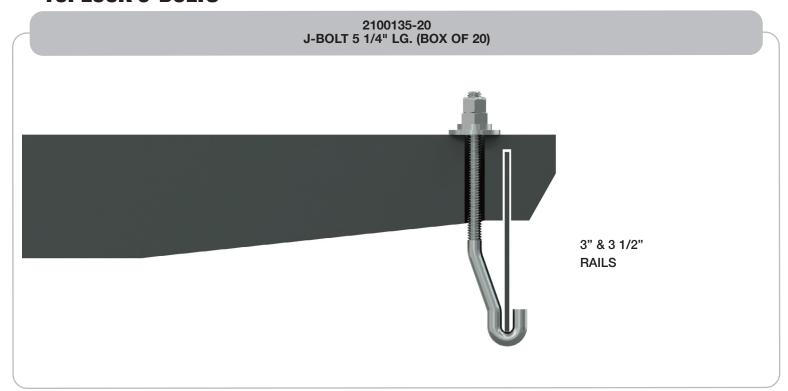
BULK HARDWARE

T-BOLTS



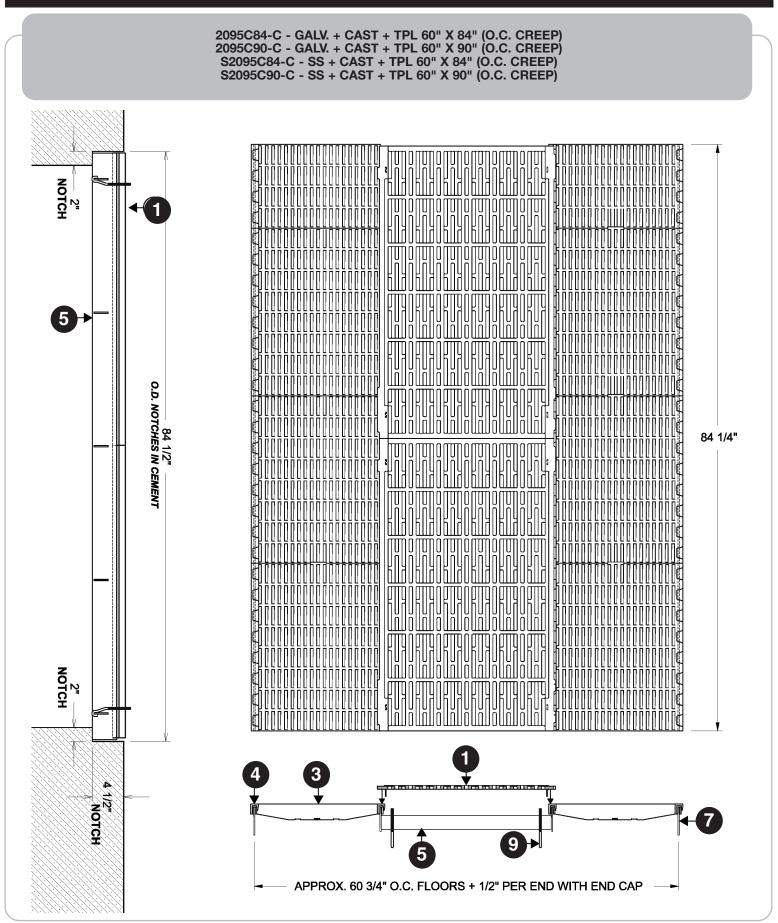


TOPLOCK J-BOLTS





CAST TOPLOCK/84" ON CENTRE FLOOR





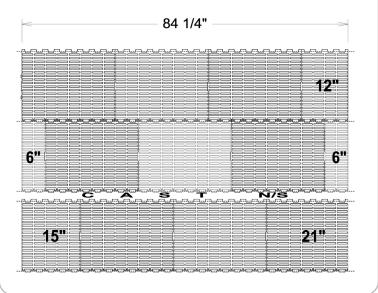
CAST & TOPLOCK FLOORING

ASSEMBLY

84" FLOOR

CUT SLATS AS SHOWN FOR MIN. WASTAGE

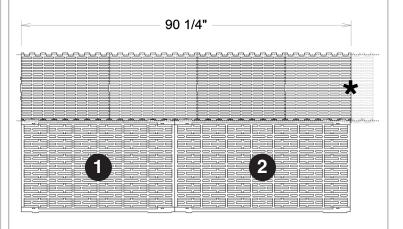
- * Leave full thickness of rib when cutting slats to fit*
- Correct amount of slats included in each 5 x 7 floor



90" FLOOR

CUT SLATS AS SHOWN FOR MIN. WASTAGE

- * Leave full thickness of rib when cutting slats to fit*
- Cut approximately 6" off last slat in each row
- This 6" is waste and is not reused



ILLUS.	DESCRIPTION		PART #
1	CAST 24 3/8" O.C. WIDE X 42" LG.		2096942
2	CAST 24 3/8" O.C. WIDE X 48" LG.		2096948
3	PLASTIC NURSERY FLOOR 18" X 24"		2099650
4	PLASTIC ENDCAPS 24" LG. (L + R)	NOTE: THESE FRAMES	2099600-E
5	24 3/8" X 84" GALV. FRM/CAST	AND RAILS ARE ALSO	2095984
N/S	24 3/8" X 90" GALV. FRM/CAST	AVAILABLE IN	2095990
7	GALV. RAIL 3.5" X 84"	STAINLESS STEEL	2090927
N/S	GALV. RAIL 3.5" X 90"	SIJ III VLESS STEEL	2090927.5
9	PKG. 4 J-BOLTS/24 3/8" O.C. CAST		2096960

Parts Also shown on page 27 of Swine Flooring.

ASSEMBLY INSTRUCTIONS

- 1) Start by snapping plastic slats together to make a 1 pc. unit. (18" wide x 84" or 90" long).
- 2) Install small endcaps to first row of flooring. Insert the first rail in this groove.
- 3) Insert galv. frame in the leading tabs of first row of slats. Snap large endcaps over tabs to create a ledge for cast to sit on. Install endcaps to a row of flooring. Place this row of slats (with endcaps) over second rail of frame. Continue installing slats & frames until entire pit length is covered.
- 4) Lay in cast pieces.
- 5) J-bolts to fasten crate will hook around cross support of frame.



CAST TOPLOCK/ 84" OFFSET FLOOR

2096C84-F - GALV. + CAST + TPL 60" X 84" (OFFSET CREEP) 2096C90-F - GALV. + CAST + TPL 60" X 90" (OFFSET CREEP) S2096C84-F - SS + CAST + TPL 60" X 84" (OFFSET CREEP) S2096C90-C - SS + CAST + TPL 60" X 90" (OFFSET CREEP) NOTCH O.D. NOTCHES IN CEMENT T A 90 1/4" R Т APPROX. 60 3/4" O.C. FLOORS + 1/2" PER END WITH END CAP



CAST & TOPLOCK FLOORING

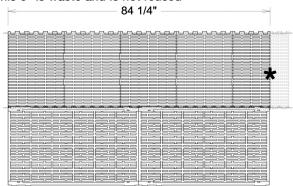
ASSEMBLY

84" FLOOR

CUT SLATS AS SHOWN FOR MIN. WASTAGE

Leave full thickness of rib when cutting slats to fit

- Cut approximately 6" off last slat in each row
- This 6" is waste and is not reused



90" FLOOR

ILLUS.	DESCRIPTION	PART #	
1	CAST 24 3/8" O.C. WIDE X 42" LG.		2096942
2	CAST 24 3/8" O.C. WIDE X 48" LG.		2096948
3	PLASTIC NURSERY FLOOR 24" X 18"		2099750
4	PLASTIC ENDCAPS 24" LG. (L + R)	NOTE:	2099600-E
N/S	24 3/8" X 84" GALV. FRM/CAST	THESE FRAMES AND	2095984
N/S	24 3/8" X 90" GALV. FRM/CAST	RAILS ARE ALSO	2095990
N/S	GALV. RAIL 3.5" X 84"	AVAILABLE IN STAINLESS STEEL	2090927
N/S	GALV. RAIL 3.5" X 90"	STAINLESS STEEL	2090927.5
N/S	PKG. 4 J-BOLTS/24 3/8" O.C. CAST		2096960

ASSEMBLY INSTRUCTIONS

- 1) Start by snapping plastic slats together to make a 1 pc. unit. (24" wide x 84" or 90" long).
- 2) Cut preassembled floor in half to make 2 pcs. 12" x 84". If you have an even # of crates you will end up using leftover 12" x 84" cut piece. If you have an odd # of crates you will end up with a 24" x 84" floor. Use left over 12" x 84" pc. for completing next pit length.
- 3) Cut a groove in end for rail, APPROXIMATE. 1" from edge of slat.
- 4) Insert first rail in cut groove.
- 5) Insert frame in the leading tabs of first row of slats. Snap large endcaps over tabs to create a ledge for cast to sit on. Install endcaps to another row of flooring. Place this row of slats (with endcaps) over second rail of frame pc. Continue installing slats & frames until entire pit length is covered.
- 6) Lay in cast pieces.
- 7) J-bolt to fasten crate will hook around cross support of frame. (Extra T-bolts required for euro crates).