

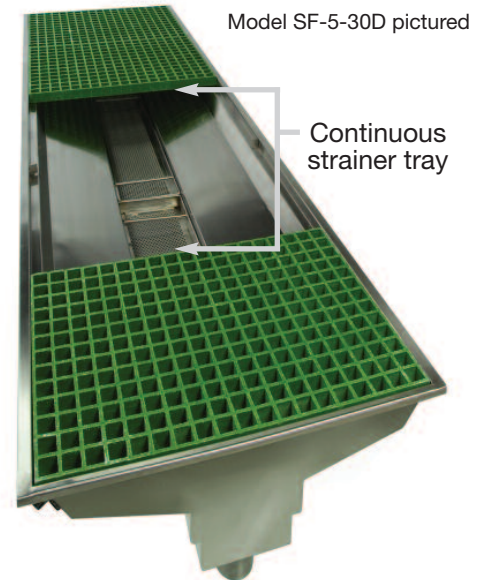
CLOG-FREE™ STRAINER TECHNOLOGY FLOOR TROUGHS **with HIGH CAPACITY STRAINER TRAY**

Sani Floor's Clog-Free™ Strainer Technology Floor Troughs are uniquely designed to provide superior straining capacity of food debris. Ordinary floor trough designs only have one 6" (152) diameter strainer basket. Sani Floor's high capacity strainer tray runs continuously through the bottom of the trough. Water from food waste and surrounding areas percolates through the strainers, eliminating dams and strainer clogs, and allows drain water to flow freely to the building drain. Our strainer trays are designed to catch food solids and particulate matter as small as a grain of rice.

Why is this so important?

- Virtually eliminates building drain clogs. No more building maintenance service calls
- Fewer clogs mean no trough overflow and leaks through surrounding tile and grout
- Significantly decreases the amount of sediment entering grease traps; grease traps will work more efficiently
- Decreased sediments reduce grease trap clogs and extends service intervals
- Better housekeeping
- No free standing water
- Minimizes slips and falls

Clog-Free™ Strainer Technology Floor Troughs have a unique basin design also. The sides are sloped a minimum of 10° to the bottom of the trough to direct debris to the full length strainer tray. Depth of the troughs range from 5 1/8" (130) to 9" (229) to accommodate high volume water areas such as kettle lines and dish rooms. Grates are fiberglass reinforced resin anti-slip with an integral flex built in to provide anti-fatigue benefit. Grates are removable and can be cleaned in conveyor or door type dish machines. Weight capacity ranges from 1425 lbs (646 kg) to 2665 lbs (1209 kg) per grate.



Specifications

Floor modules to be constructed of 16 gauge stainless steel with 2B finish; designed in compliance and certified with all applicable NSF and NFSI standards. Trough contains unique grout locking holes spaced every 1 3/8" (35) around outside perimeter. Trough pan sides to be sloped towards center collection strainer tray at an angle no less than 10°. Pan to have a 1" (25) pitch to end drain. 3 1/2" (89) end drain to mate to 3" (76) no hub connection to grease interceptor. Trough to include 4-6 threaded leveling legs to ease installation process. Full length stainless steel strainer trays to have 1/16" (2) perforated, slotted opening pattern with handles on both ends. Maximum strainer tray length is 5 feet (1.52 m) long. Walking surface to be fiberglass reinforced resin anti-slip grating with integral flex to provide anti-fatigue benefit. Non-slip grate coating to be alumina grit. Grate size to be 19 5/8" x 28 3/4" x 1" (498 x 730 x 25) or 19 5/8" x 34 3/4" x 1 1/2" (498 x 883 x 38). Weight capacity ranges from 1425 lbs (646 kg) to 2665 lbs (1209 kg) per grate. Floor module to be in lengths of 21" (533) to 139 3/8" (3540) as specified. Unit widths to be 21 3/4" (552), 30 7/8" (784), or 36 7/8" (937). Depth to range from 5 1/8" (130) to 9" (229).



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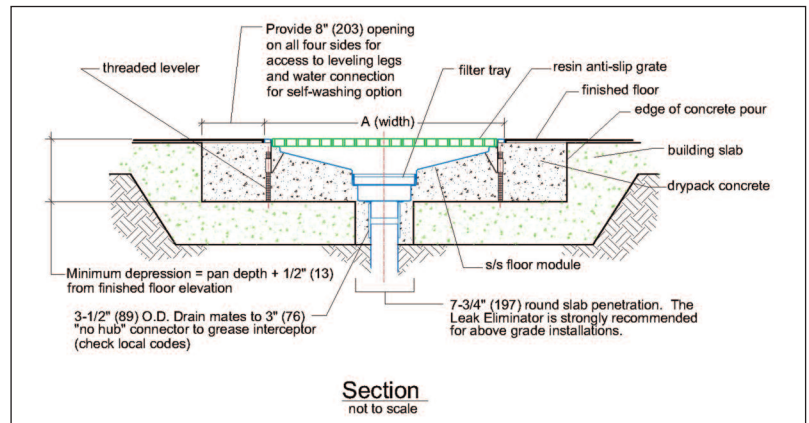
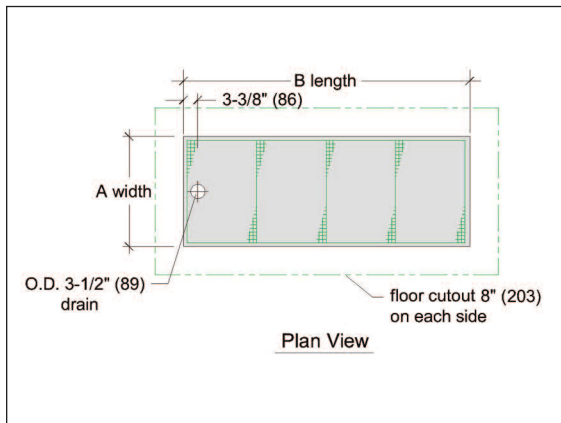
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Model	Width (A)	Length (B)	Standard Depth	Min. Standard Depth Depression *	Shallow Depth	Min. Shallow Depth Depression *	# of Grates
SF-1-22D	21 3/4" (552)	30 1/8" (765)	7 1/8" (181)	7 5/8" (194)	5 1/8" (130)	5 5/8" (143)	1
SF-2-22D	21 3/4" (552)	58 15/16" (1497)	7 1/8" (181)	7 5/8" (194)	5 1/8" (130)	5 5/8" (143)	2
SF-3-22D	21 3/4" (552)	87 3/4" (2229)	7 1/8" (181)	7 5/8" (194)	5 1/8" (130)	5 5/8" (143)	3
SF-4-22D	21 3/4" (552)	116 11/16" (2964)	7 1/8" (181)	7 5/8" (194)	5 1/8" (130)	5 5/8" (143)	4
SF-1-30D	30 7/8" (784)	21" (533)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	1
SF-2-30D	30 7/8" (784)	40 11/16" (1033)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	2
SF-3-30D	30 7/8" (784)	60 3/8" (1534)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	3
SF-4-30D	30 7/8" (784)	80 3/16" (2037)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	4
SF-5-30D	30 7/8" (784)	99 7/8" (2537)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	5
SF-6-30D	30 7/8" (784)	119 9/16" (3037)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	6
SF-7-30D	30 7/8" (784)	139 3/8" (3540)	8" (203)	8 1/2" (216)	6" (152)	6 1/2" (165)	7
SF-1-36D	36 7/8" (937)	21" (533)	9" (229)	9 1/2" (241)	7" (178)	7 1/2" (191)	1
SF-2-36D	36 7/8" (937)	40 11/16" (1033)	9" (229)	9 1/2" (241)	7" (178)	7 1/2" (191)	2
SF-3-36D	36 7/8" (937)	60 3/8" (1534)	9" (229)	9 1/2" (241)	7" (178)	7 1/2" (191)	3
SF-4-36D	36 7/8" (937)	80 3/16" (2037)	9" (229)	9 1/2" (241)	7" (178)	7 1/2" (191)	4
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SF-7-36D	36 7/8" (937)	139 3/8" (3540)	9" (229)	9 1/2" (241)	7" (178)	7 1/2" (191)	7

*from finished floor elevation



Options:

- 14 Gauge Stainless Steel
- Shallow Depth
- Removable Braces for High-Load Applications
- Self-Washing (see specification sheet)
- Fiberglass Grating (Green is Standard)
 - Black ○ Gray
 - Red ○ Yellow
- Stainless Steel Grating
- ADA Grating
 - 1/2"x1/2" (13x13) spacing
- Heavy Duty Fiberglass Grating
- Pultruded Fiberglass Grating
- Contact factory for custom sizes

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Design, Installation and Operation Manual

Clog-Free™ Strainer Technology Floor Systems

Standard Floor Trough Systems

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Introduction

The installation of the Sani-Floor Clog-Free™ Strainer Technology Floor System is straightforward and can be accomplished with normal construction materials and techniques. The following generally assumes installation in a slab on grade condition, although the Sani-Floor system can be installed in other conditions, such as upper floor locations.

Please contact the Sani-Floor Technical Department prior to considering retrofit installations in upper floors or ground floor installations that may be over basements.

Please read the attached information carefully, as much of the information provided reflects proven techniques as utilized in previous installations.

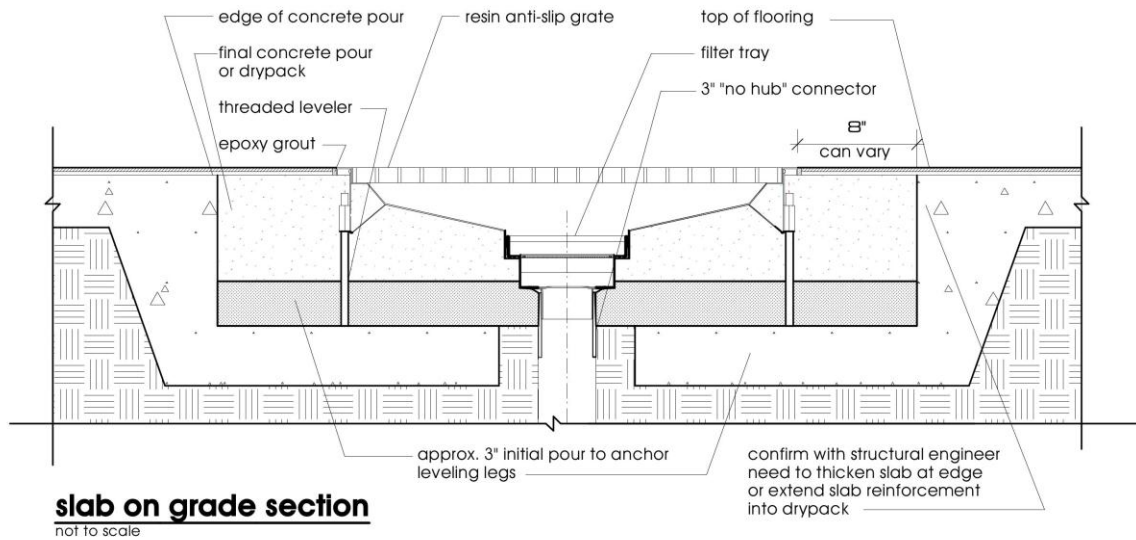
As an overview on the installation, the Sani-Floor Standard Floor Trough System is installed in a manner very similar to a Clog-Free™ Strainer Technology Floor System.

Setting the Troughs

- Typically, Sani-Floor is installed in either new or existing slab on grade applications or in new multi story construction where provisions can be made to accommodate the system.
- The opening blocked out in the slab to receive the unit must be 8"-10" (203-254 mm) larger, on each side of the unit, to allow for plumbing connections. The area can then be dry packed or pumped with concrete to fill the void. Dry packing concrete will give better support to unit edges and much better control of final installed unit heights.
- Do not install stainless steel floor units as part of an integral pour of the surrounding floor areas. All Sani-Floor units are shipped from the factory with ¾" plywood braces included. **The supports should be left in place until after installation in the concrete is complete. Failure to do so may cause sides of the unit to distort inwards and result in the grates not fitting properly.** Additionally, the braces will help protect the troughs during the remainder of the construction process, prior to final installation of the non-slip grates.
- The unit should be set to allow the top of the unit to be level with the top of the finished floor. The turned down edge is not a height guide for tile installation.
- It is extremely important that the module itself be level even if the surrounding floor is not. If the unit is not level, it will not drain properly. To be safe, do not assume the surrounding floor is level. The units have threaded leveling legs to allow alignment of the top of the units with finished floor. The leveling legs can be cut shorter, if needed. Vice-Grips work well to turn the legs.
- Once the troughs are level and in alignment with adjacent units, it is recommended that the seams underneath be tack welded together. Silicone caulk and expendable c-clamps below the troughs can be used as an alternative.
- In the event that units are being installed side by side rather than end to end, it is particularly important to be certain that all edges of the units are completely supported by the final concrete.
- Epoxy grout should be used in the grout lines in the areas immediately adjacent to the Sani-Floor units. Normally, this will prevent much of the cracking of grout that occurs in any kitchen environment, as the epoxy grout will fill the holes in the trough perimeter.

Installations in Multi-Floor Applications

- Installations in multi-floor applications will require additional care to maintain the integrity of the typically required Fire Rating.
- In new construction applications utilizing steel decking, installation can normally be accomplished by lowering the steel decking in the bay receiving the Sani-Floor unit, similar to the installation of a floor sink or trough. The leveling legs should be securely welded to the deck before the concrete pour. Unit must be level to function properly.
- Wood frame applications can often utilize rim joisting for unit support.



The above section would also be applicable in smaller slab on grade installations when a depressed slab is not being used. In each case a perimeter of 8"-10" (200-250 mm) would be provided around the units and then the units would be set in place after the surrounding slab has been poured.

Then, with the leveling legs in place, an initial pour would be made to anchor the leveling legs and prevent "floating" of the troughs during the final pour. When the first pour has set, the perimeter void would be filled by the final pour or with dry packed concrete. It should be confirmed with the structural engineer if there should be any thickening of the concrete slab at the perimeter of the openings.

Plumbing the Sani-Floor System

- Confirm all on site conditions to ensure compliance with local building, electrical and plumbing codes.
- A 3" (76mm) "no hub" connector waste line with "P" traps at each drain should connect to the grease interceptor.
- The center line of the drain is centered on the cross section of the units and is 3 3/8" (86) from the perimeter flange at the end of the unit, at one end only.

Using the System

The Sani-Floor Clog-Free™ Strainer Technology Floor System is best used as the last point of cleanup. A few of the grates can be removed and as the remainder of the floor is swept or mopped, the resulting debris can be pushed into the open Sani-Floor troughs. The strainer trays can then be removed and the debris placed in the trash.

While the strainer trays are out, there is a good opportunity to periodically spray some extra cleaner into the open troughs for a thorough mop down. It is generally not necessary to do this every time the strainers are emptied.

Then, before reassembly, the anti-slip grates can be run through most dish washing machines for cleaning, along with the strainer trays.

Maintenance of the Sani-Floor System

Trough

If a light grease buildup is noticed on the stainless steel basin, a commercial degreaser should be hand sprayed occasionally before refitting the grates. Let it sit, then cycle the system. If more degreasing is needed on a continual basis, chemicals can be injected into the supply line. Contact Sani-Floor for further recommendations.

DO NOT USE CHLORINE BASED CLEANERS ON THE TROUGHS AS THEY CAN DAMAGE THE STAINLESS STEEL.

Strainer Tray

For proper performance, it is recommended that the system strainer trays be cleaned once each shift. Depending on the system location in the facility, this interval may be adjusted. The unit is designed to allow water to pass through the collected refuse, but it must still be monitored.

Important Note: The strainer trays should not be cleaned by striking the tray against the trash container. Any remaining residue should be rinsed or brushed off. The trays are not delicate, just use reasonable care.

Anti-Fatigue Grating

The slight flexing of the standard grates is intentional to provide an anti-fatigue working platform. However over a period of years, through normal use the amount of flexing may increase to an unacceptable level. Please contact Sani-Floor to purchase replacement grates.

Heavy-duty non-flexible grates are available from Sani-Floor for installations that are receiving higher load applications. Contact Sani-Floor for more details and specifications.

If there is a need to place heavy objects in the Sani-Floor areas during equipment servicing, remodeling, etc., it is recommended that 3/4" (19mm) sheets of plywood be cut in sizes to replace the grates.

Ideally, the fiberglass grates should be run through the facility's ware washer at the end of the day. In the event that a ware washer is not available, the grates can be washed in a three compartment sink. They will then be ready for reinstallation. Grates should always be installed with the aluminum oxide anti-slip side up.

Lack of proper cleaning of the grates per the above recommendations may lead to the growth of mold and mildew. Regular cleaning will prevent this from occurring. However, if mold or mildew develops on your grates, deck brushing both sides of the grates while they are in place on the units with a solution such as Ramsey's Power Bolt cleaner and degreaser will take care of the problem. Rinse grates well before reinstallation.

NOTE: Do not use chlorine based products to clean the grates while they are still in place on the Sani-Floor units as these chemicals may damage the stainless steel.

The non-slip grates should NOT be mopped as the abrasive surface will tear strings from the mops.

Over a period of years, the grates may become damaged to the point of needing replacement. It is also possible that, through normal use, the designed deflection in the grate may become excessive necessitating replacement. The grates are made specifically to perform well in the Sani-Floor system and Sani-Floor, Inc. has replacement grates available for purchase.

Different colored grates allows for easy monitoring of cleaning procedures. For example, using one color for only even numbered days.

Technical note: Do not use heavy chlorine-based products to clean grates while they are still in place on the Sani-Floor units as these chemicals may damage the stainless steel.