

SPECIAL PRECAUTIONS

1. HIGH TEMPERATURE KITCHEN WATER

If there is water entering the interceptor at over 150°F, a drain water temperature valve and approved backflow prevention assembly must be installed. Generally, State and local plumbing codes prohibit water above 150°F from being discharged into the sewer.

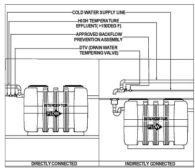
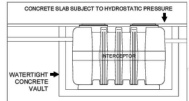


FIG. 1

2. HYDROSTATIC SLABS (OR PRESSURE SLABS)

Interceptor must be enclosed in a water concrete vault when installed under a hydrostatic slab (slab designed to withstand upward lift typically caused by hydrostatic pressure).

Installation not applicable for SUPER2000



3. MAXIMUM WATER LEVEL

The water level must not go above the height of Inlet / Outlet connection

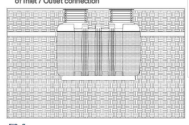


FIG. 3

4. HIGH WATER TABLE INSTALLATIONS

Interceptor and extension cannot withstand excessive water table height - see max water table height in figure 3. If possible, interceptor and extension should be installed in a water-tight concrete vault or backfilled with concrete or flowable fill (pour wet concrete and flowable backfill in stages to avoid crushing the interceptor). SUPER-MAX models located in high water table areas are required to be installed with an anchor kit. High Risk Areas: Floodplains, tidal surge and high storm-water areas.

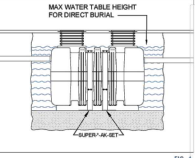


FIG. 4

INSTALLATIONS

BELOW GRADE BACKFILL INSTALL:

1. Install the interceptor(s) as close as practical to the fixtures being served.
2. The excavation must be a minimum of 12" greater on all sides of the tank.
3. The depth of the excavation must be greater than 4" on the bottom of the interceptor.
4. Backfill while filling the interceptor with water at an equal rate until you reach the inlet/outlet. (Do not pack the backfill)
5. Fully install the double wall corrugated pipe and tie prior to backfilling.
6. Concrete or finishing material requirements are to be determined by the specifying engineer.
7. Encase the interceptor in well packed ¾" rock, or sand. Do not compact backfill around Interceptor.
8. To prevent float out, the Anchor kit is recommended for installations in high water table conditions. This is to be determined by the specifying engineer.
9. Fill the interceptor with 12" of water, then backfill 12" to match the water level. (Repeat operation until filled) Properly backfill per project specs. (Note: Do not compact backfill around unit)

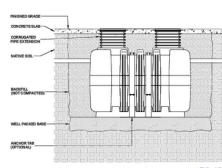


FIG. 5A

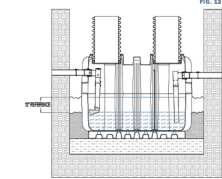


FIG. 5B

FINISHED CONCRETE SLAB

Slab must extend 18" minimum outside the footprint of the unit. Pedestals traffic areas: 4" thick reinforced concrete slab required. Vehicular traffic areas: Minimum 8" thick concrete slab with rebar is required. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required, the concrete slab dimensions shown are for guide purposes only. Concrete to be 28 day compressive strength to 4,000 PSI, use #4 steel (1/2") grade 60 and per ASTM A635, connected with the wire. Rebar to be 2-1/2" grid with 4" spacing around access openings.

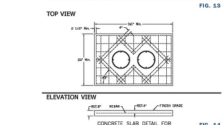


FIG. 5A

SPECIAL PRECAUTIONS

5. INSTALLATION SUPPORT - ANCHOR KITS

Anchor kits are recommended for installation in high water table conditions to prevent floating. Necessity to be determined by Project Engineer. Hold down force is achieved by backfill weight acting on anchor plates. Bolt upper support brace together, then place over center channel. Bolt the anchor plate and upper support brace together using bolting hardware. Anchor plate may be bolted to concrete slab using provided holes.

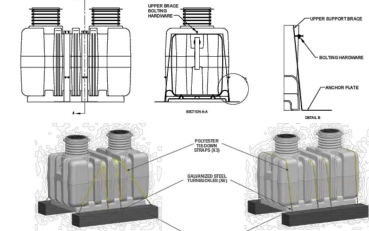


FIG. 6

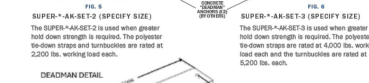


FIG. 7

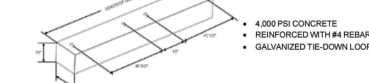


FIG. 8

INSTALLATIONS

EXTENSION COLLAR INSTALLATION

1. Set the SUPER-MAX unit height to grade by installing the 24" diameter corrugated pipe into the top opening(s) of the body, then insert the lid on top to measure and adjust the finished height from the top to grade. If the extension is needed, measure the required dimension and mark the extension. Turn, cut to fit with a saw. The extension system is ABS pipe and is designed to be field cut or welded. If a larger extension is required to meet grade, new ABS pipe can be purchased and cut to length in order to equal grade. (ABS pipe part #K24R12)
2. Repeat the Pipe Joints between the bottom flange. Then firmly press the 24" diameter pipe into the top opening(s) of the interceptor. It will bottom out at the pipe stop. The gasket is designed to fit tightly around the extension collar. Prying the gasket into place with a pry bar can save time and make this process easier. Watch the installation video at www.mifab.com.
3. Insert the extension collar and pipe gasket onto the opening of the SUPER-MAX. The extension collar is seated into the provided recessed channel. The distribution is designed to fit tightly around the extension collar. Prying the gasket into place with a pry bar can save time and make this process easier. Watch the installation video at www.mifab.com.
4. Remove the cover from the lid assembly to see the pre-drilled screw holes. Attach the lid gasket with the self-adhesive onto the underside of the collar. Place lid assembly onto the top of the corrugated pipe. Connect the lid assembly collar to the floor with the 8 self tapping screws into the countermount holes.
5. When installing the collar on concrete walls, an 8 inch-wide concrete ring beam with a 18" width guard channel around it should be poured in place of the collar and brick setting to make the surrounding composition level and unobstructed.
6. When installing the collar in a bituminous road, the collar must be installed after the road is paved. After completion by construction equipment around the collar must be avoided. A hole that is slightly larger than the collar should be installed before pouring the pavement. The reserved hole can help ensure the installation quality and prolong the usefulness of the installation.

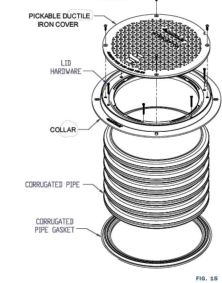


FIG. 9A

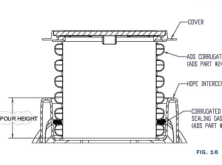


FIG. 9B

APPLICATION SPECIFIC DETAILS

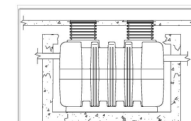


FIG. 10A

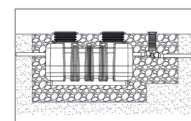


FIG. 10B

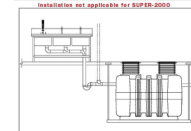


FIG. 10C

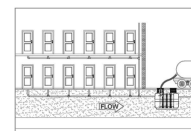


FIG. 10D

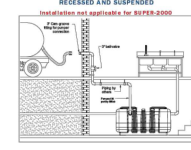


FIG. 10E

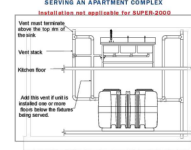


FIG. 10F

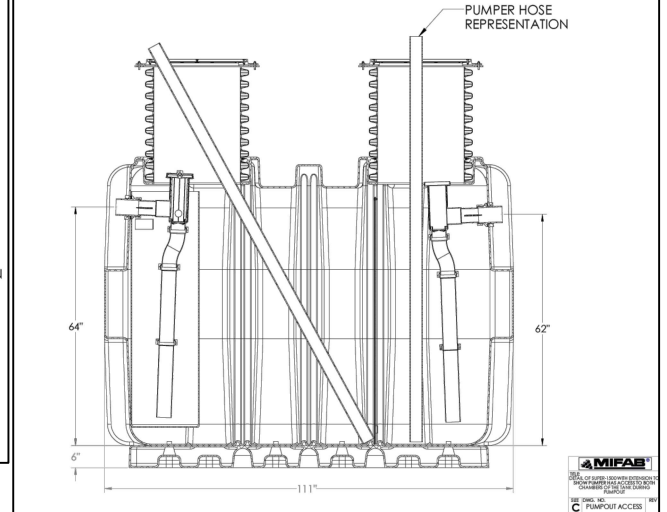


FIG. 11

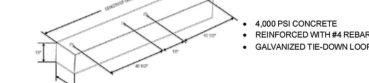


FIG. 12

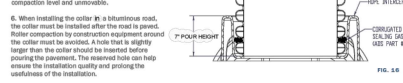


FIG. 13



FIG. 14

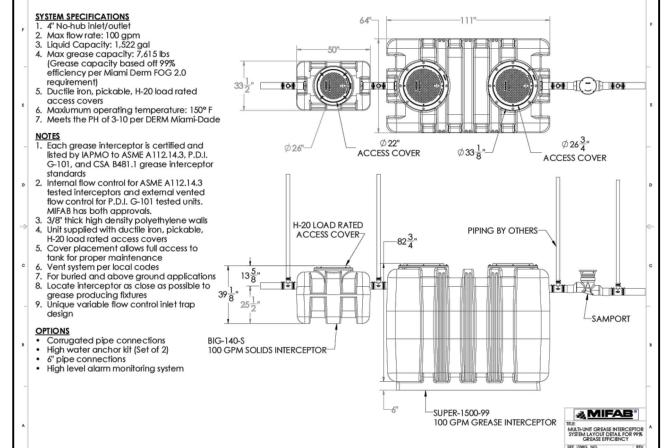


FIG. 15



TITLE: SUPER-1500-99

SIZE: C DWG. NO. XXXXX

SCALE: WEIGHT: SHEET 1 OF 1

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SUPER-1500-99

Grease Interceptor Calculation:
Per Florida Plumbing Code Section
1003.3.4, in accordance with PDIG 101
Sec.8.3.1 sizing method based on pipe
diameter and slope table:

Minimum Slope	Pipe Size	GPM 2 minutes drain
1/8" per ft	4"	100

Seats X Turns X Grease Product X POF = Grease Capacity

Number of Seats	Turns per Seat	Meals per Day	Grease Production per Meal (lbs)	POF (Days)	Grease capacity Needed (LBS)	Description
44	4	176	0.0455	90	721	Eat-In
		75	0.035	90	236	Take-Out
		200	0.035	90	630	Bakery
Total Grease Capacity Needed					1587	

NOTE:

1. All grease traps and solid interceptors can be cleaned at any time.
2. "Area for interceptors only"
3. No cars can park on top of them.

GREASE TRAP SCOPE OF WORK:

1. Connect new fixtures and the new grease lines to SUPER-1500-99 at 100 GPM
2. Waste water Sample Port model #SAMPOR
3. SUPER-1500-99 with H-20 load rated, ductile iron, pickable covers.
4. To comply with FOG 2.0 RER-DERM requirements.
5. Adjust pipe to meet existing elevation of main sanitary drain

FOG 2.0 RER-DERM

Required Information	Total
Sample Port	SAMPOR
Capacity (Gallons)	1522
FOG load capacity (lbs) at 99% efficiency	10,380
Manufacturer	MIFAB
Model #	SUPER-1500-99
3rd party certifier	ASME
Interceptor Monitor Alarm (model#)	HLA2
Interceptor Monitor Device (model#)	BY OTHERS
Solid Separator (model#)	BIG-140-S

NOTE:

Sample port shall always be accessible without having to remove merchandise and without standing water, on ground level with minimum 36 inches horizontal clearance from any wall, fixed equipment or stored materials and a minimum of 48 inches vertical clearance from any stored materials or fixed equipment. Grease interceptor shall always be accessible to allow for maintenance and cleaning without any impediments.

SUPER-1500-99 meets
the DERM 99% efficiency
and PH of 3

Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3, TYPE D SUPER-1500-99	1	100	10,380

NOTE:

MIFAB interceptors
will have access for
cleaning the tanks
from 72" above.

Interceptor Manufacturer:		MIFAB, Inc		Model Number:	Super-1500-D	Type:	D	GPM Size:	100
Sink Capacity and Flow		Test Media Data		Flow Control Data		Test Lab Information			
Capacity No. 1	100 gallons	Spec. Gravity:	0.875	Laboratory orifice dimension:	None	Test Lab: IPC			
Capacity No. 2	100 gallons	Viscosity:	25 cp	Manufacturer orifice dimension:	None	Test Technician: Kyle Augun			
				Type:	None	Marcus Jackson			
Simultaneous No. 1	103.83 GPM			Orifice Shape:	None				
Simultaneous No. 2	102.28 GPM								

					Incremental				Accumulated			
515	2	1	112.06	101.73	20.00	0.075	19.925	99.63%	10300.00	19.195	10280.81	99.81%
516	1	2	113.56	100.39	20.00	0.075	19.925	99.63%	10320.00	19.270	10300.73	99.81%
517	2	1	112.84	101.03	20.00	0.100	19.900	99.50%	10340.00	19.370	10320.63	99.81%
518	1	2	110.62	103.06	20.00	0.110	19.890	99.45%	10360.00	19.480	10340.52	99.81%
519	2	1	109.98	103.66	20.00	0.085	19.915	99.58%	10380.00	19.565	10360.44	99.81%
520	1	2	110.75	102.93	20.00	0.080	19.920	99.60%	10400.00	19.645	10380.36	99.81%
521	2	1	110.79	102.90	20.00	0.740	19.260	96.30%	10420.00	20.385	10399.62	99.80%
522	1	2	109.72	103.90	20.00	7.325	12.675	63.38%	10440.00	27.710	10412.29	99.73%
523	2	1	110.54	103.13	20.00	7.970	12.030	60.15%	10460.00	35.680	10424.32	99.66%

Seats X Turns X Grease Product X POF = Grease Capacity

Number of Seats	Turns per Seat	Meals per Day	Grease Production per Meal (lbs)	POF (Days)	Grease capacity Needed (LBS)	Description
44	4	176	0.0455	90	721	Eat-In
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		200	0.035	90	630	Bakery
Total Grease Capacity Needed					1587	



CERTIFICATE OF LISTING



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Issued To:

MIFAB, INC.

1321 WEST 1191H STREET CHICAGO, IL 60643, United States

Product:

Hydromechanical Grease Interceptors

Products are in compliance with the following code(s):
Uniform Plumbing Code (UPC®)
International Plumbing Code (IPC®)

Products are certified to the following standard(s)
ASME A112.14.3-2018 / CSA B481.1

File Number: 3380

Revised Date: May 13, 2025

Effective Date: February 2024

Void After: February 2029*

Tom Collings
Chairman, Product Certification Committee



SR
Chief Technical Service Officer

*This certificate is not evidence of current listing. To verify listing status, visit the IAPMO R&T Product Listing Directory at pld.iapmo.org

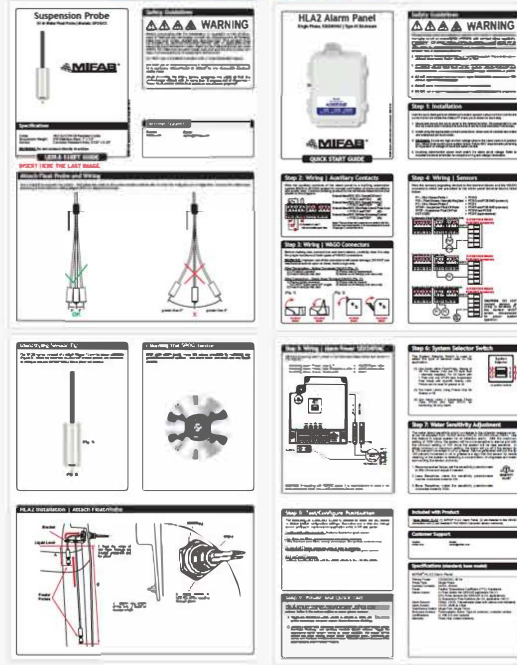
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FOG 2.0 RER-DERM

Required Information	Total
Sample Port	SAMPOR
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Solid Separator (model#)	BIG-140-S

SUPER-1500-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3, Type D	SUPER-1500-99	1	100	10,380

HLA2 - INSTALLATION INSTRUCTIONS



SAMPOR SPECIFICATION SHEET

