

SPECIAL PRECAUTIONS

1. HIGH TEMPERATURE KITCHEN WATER

If there is water entering the interceptor at over 150°F, a drain water tempering 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.

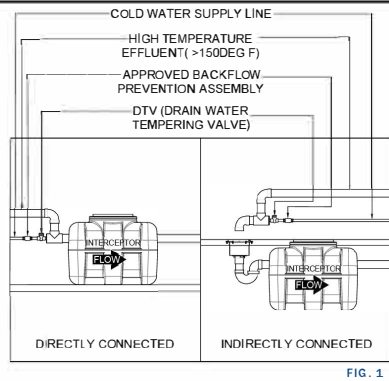


FIG. 1

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).

CONCRETE SLAB SUBJECT TO HYDROSTATIC PRESSURE

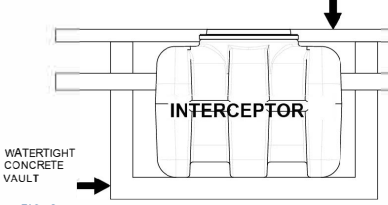


FIG. 2

3. MAXIMUM WATER LEVEL

The water level will never go beyond the level height of Inlet / Outlet connection

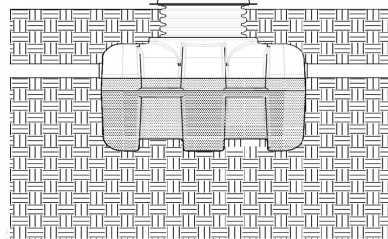


FIG. 3

4. HIGH WATER TABLE INSTALLATIONS

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

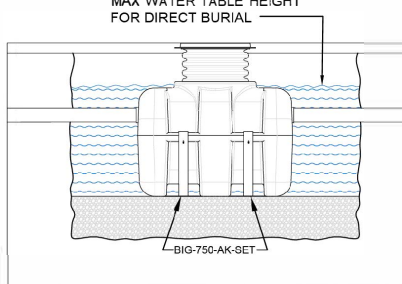


FIG. 4

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 6" 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 lid prior to backfilling.
6. Concrete or finishing material requirements is to be determined by the specifying engineer.
7. Encase the interceptor in well-packed "M" 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.

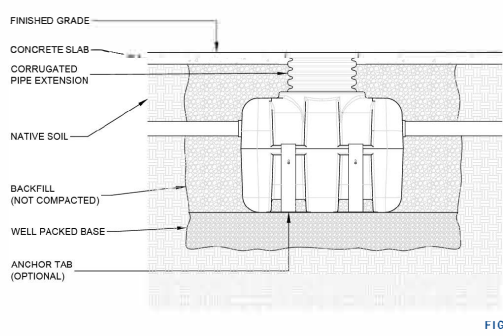


FIG. 11

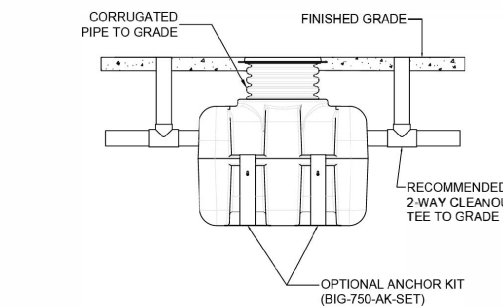


FIG. 12

FINISHED CONCRETE SLAB

Slab must extend 18" minimum outside the footprint of the unit. Pedestrian 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 guiding purposes only. Concrete to be 28 day compressive strength to 4,000 PSI. Use #4 rebar (1/2") grade 60 steel per ASTM A615; connected with tie wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

CONCRETE SLAB DETAIL

SPECIAL PRECAUTIONS

5. ABOVE GRADE INSTALLATION SUPPORT - ANCHOR KITS

Anchor kit is recommended for installation in high water table conditions to prevent float out. Necessity to be determined by Project Engineer. Hold down force achieved by backfill weight acting on Anchor plates. Place Anchor hook over handle on interceptor. Bolt hardware through hole of anchor hook, to ensure hook does not become removed. Anchor plate may be bolted to concrete slab using provided holes.

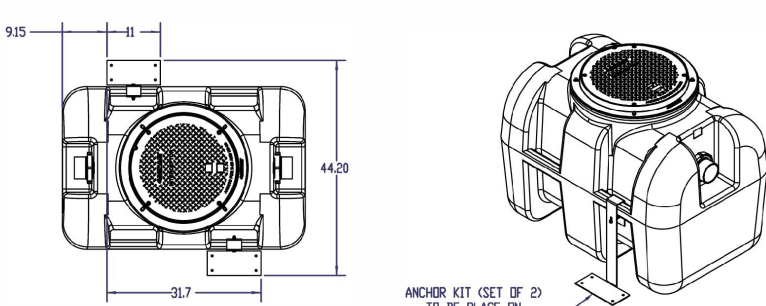


FIG. 5

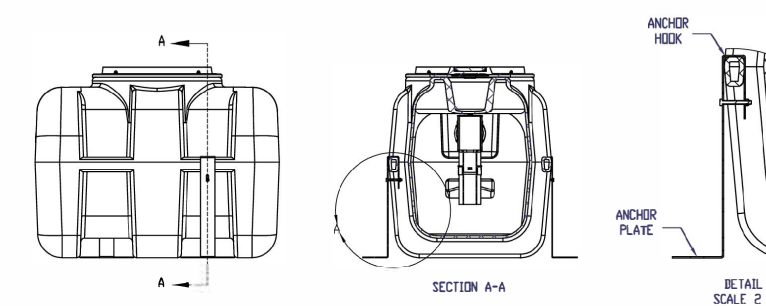


FIG. 6

INSTALLATIONS

EXTENSION COLLAR INSTALLATION

1. Set the BIG MAX unit height to grade by installing the 18" diameter corrugated pipe onto 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 less extension is needed, measure the required dimension and mark the extension. Then cut to fit with a saw. The extension system is ADS pipe and is designed to be field cut as needed. If a longer extension is required to meet grade, new ADS pipe can be purchased and cut to length in order to equal grade. (ADS pipe part #18N12)
2. Install the Pipe Gasket between the bottom ribs. Then firmly press the 18" 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 tool can save time and make this process easier. Watch the installation video at www.bifab.com/ADS
3. Insert the extension collar and pipe gasket onto the opening of the BIG MAX. Press firmly until the extension is seated inside the provided recessed channel. The BIG MAX is designed to fit tightly, and installation can be made easier by wetting the receiving area with mild soapy water. This will reduce the friction and allow the extension to press more easily into place.
4. Remove the cover from the lid assembly to see the predrilled screw holes. Affix 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 pipe with the 6 self tapping screws into the countersunk holes. Replace lid back onto the lid assembly collar.
5. When installing the collar on concrete roads, an 8 inch wide concrete ring beam with a 16" width guard circle around it should be poured between the collar and brick setting to make the surrounding compaction level and unmovable.
6. When installing the collar on a bituminous road, the collar must be installed after the road is paved. Roller compaction by construction equipment around the collar must be avoided. A hole that is slightly larger than the collar should be inserted before pouring the pavement. The reserved hole can help ensure the installation quality and prolong the usefulness of the installation.

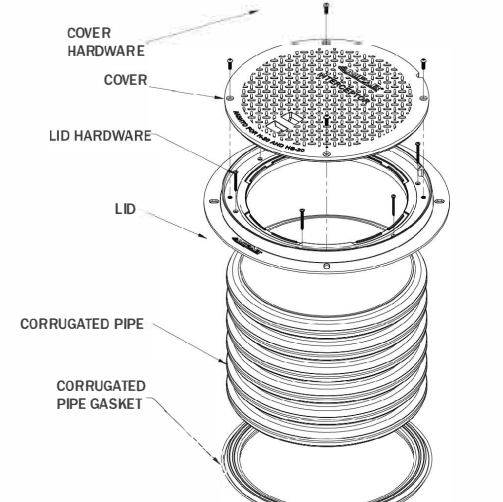


FIG. 14

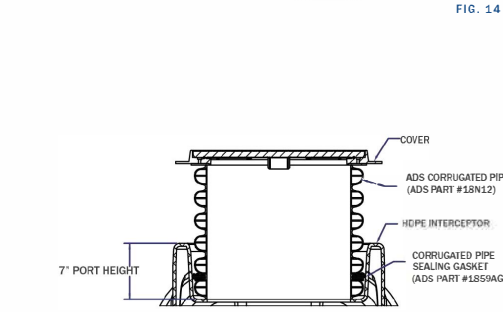
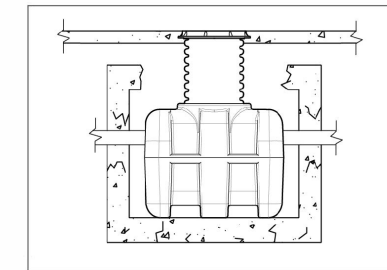
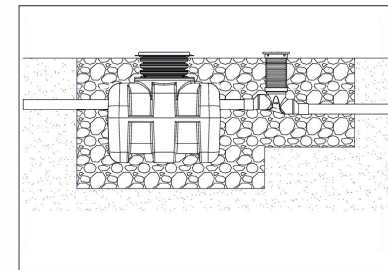


FIG. 15

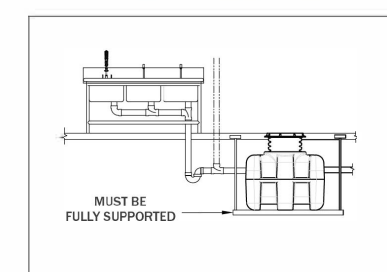
APPLICATION SPECIFIC DETAILS



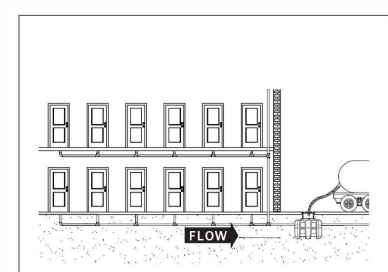
INSIDE CORRODED CONCRETE UNIT



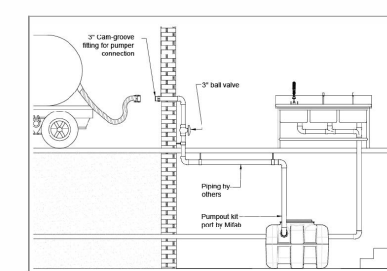
INSTALLATION WITH SAMPORT



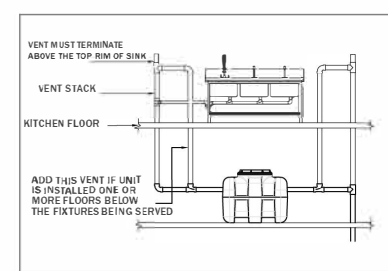
RECESSED AND SUSPENDED



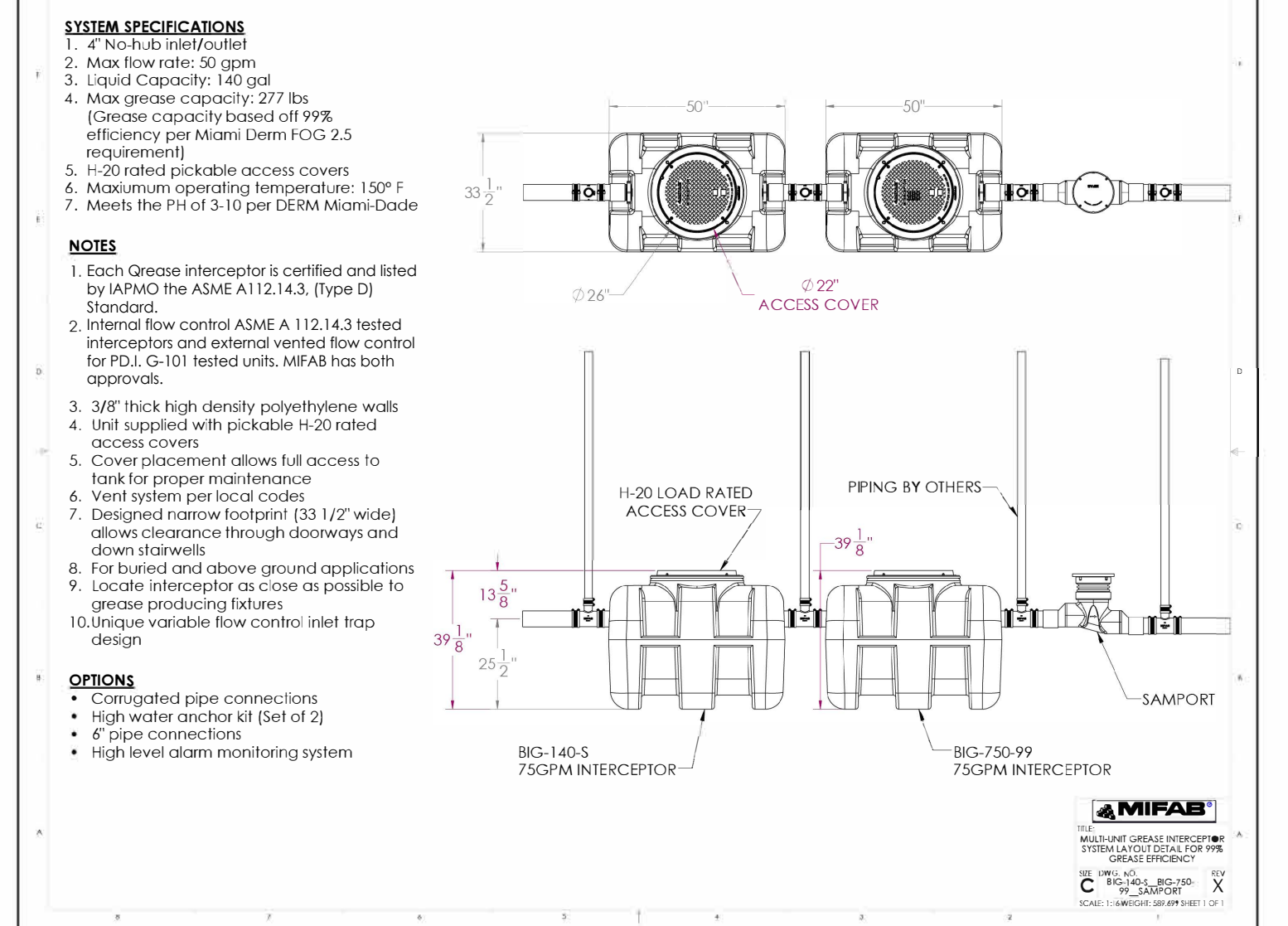
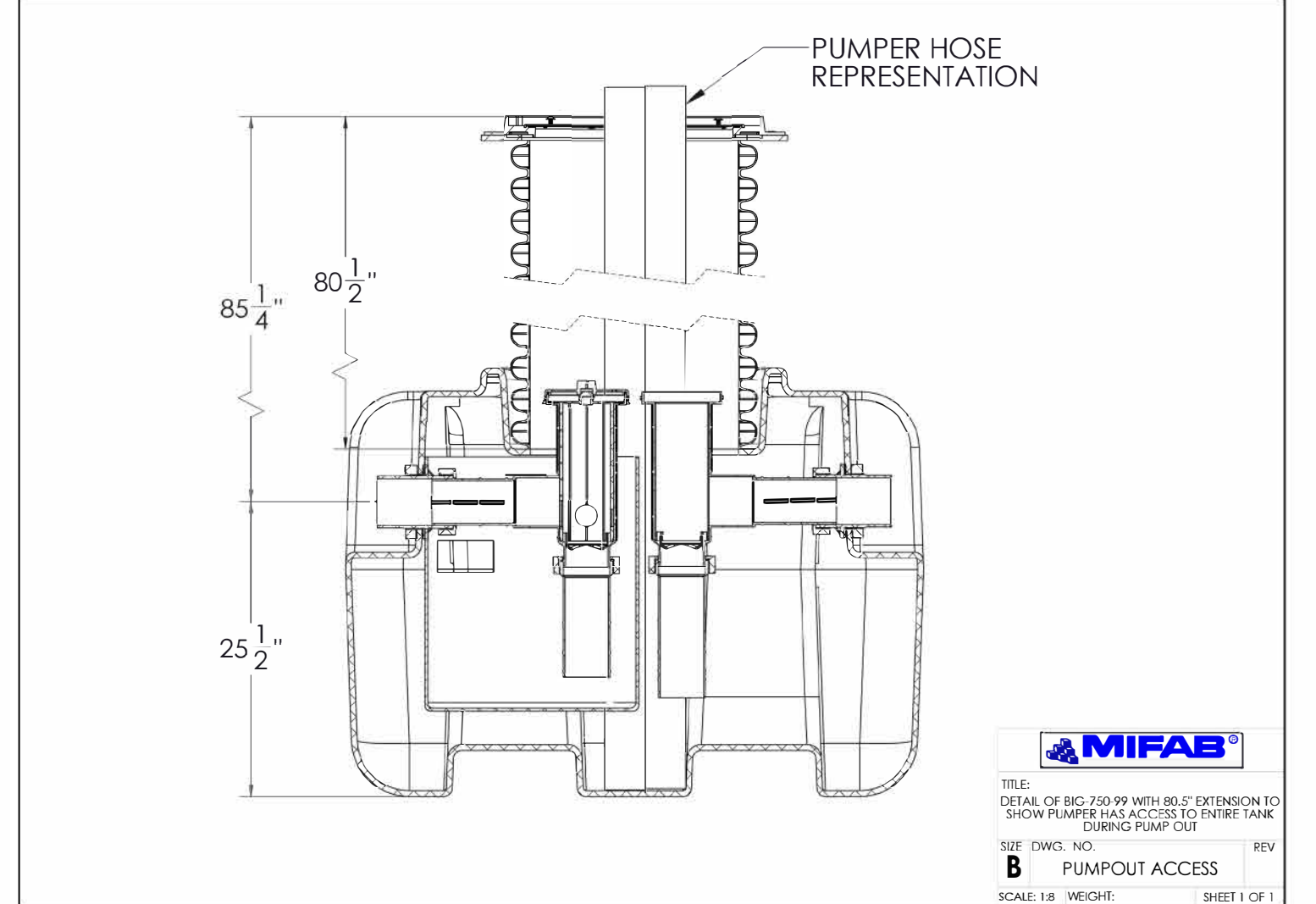
SERVING AN APARTMENT COMPLEX



BASEMENT INSTALLATION WITH PUMPOUT KIT



ADDITIONAL VENTING FOR FLOOR-BELOW INSTALL



Satisfies Miami DERM 99% efficiency requirements.
Product labels are permanently attached to inside and outside of unit for easy viewing.



TITLE:
BIG-750-99

SIZE DWG. NO. XXXXX REV

SCALE: 1/4" = 1'-0" WEIGHT: SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
MIFAB, INC. ANY REPRODUCTION IN
PART OR AS A WHOLE WITHOUT THE
WRITTEN PERMISSION OF MIFAB, INC. IS
PROHIBITED.

BIG-750-99

Grease Interceptor Calculation:
Per Florida Plumbing Code Section 1003.3.4, in accordance with PDI G101 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"	50

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	

IAPMO RESEARCH AND TESTING, INC.

3801 C. Pataky Drive, Orange, CA 92667 • Phone (800) 472-4100 • Fax (800) 472-4291 • www.iapmo.org



CERTIFICATE OF LISTING

IAPMO Research and Testing, Inc. is a product certification body which provides certification services including inspection and testing of samples taken from the supplier's stock or from the market or at designated off-site facilities to verify compliance to the requirements of product, code and standard. This activity is subject to periodic surveillance of the supplier's facility and/or warehouse as well as the assessment of the supplier's quality assurance system. This listing is subject to the conditions set forth in the certification agreement and is not to be construed as any endorsement, indication or guarantee of product by IAPMO Research and Testing, Inc. or the product manufacturer's performance or compliance.



Based On:
MIFAB, INC.

1521 WEST 10TH STREET CHICAGO, IL 60604, UNITED STATES

Product:
Hydromechanical Grease Interceptors

Products are in compliance with the following standard:
Uniform Plumbing Code (UPC)

Products are certified to the following standard(s):
ASSE 2112.14.3-2015 (ISA 606.1)

File Number: 1189

Expiry Date: May 18, 2025

Effective Date: February 2024

Valid Until: February 2029

Tim Collins
General Product Certification Officer



GP 12
Certification Service Office

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 SCOP OF WORK:

1. Connect New Fixtures and the new grease lines to BIG-750-99 at 50 GPM.
2. Waste water Sample Port model # **SAMPORT**
3. Settler BIG-750-99 with H2O rated pickable cast iron covers.
4. To comply with FOG 2.5 RER-DERM requirements.
5. Adjust pipe to meet existing elevation of main sanitary drain

FOG 2.5 RER-DERM

Required Information	Total
Sample Port	SAMPORT
Capacity (Gallons)	140
FOG load capacity (lbs) at 99% efficiency	277
Manufacturer	MIFAB
Model #	BIG-750-99
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.

BIG-750-99 meets the DERM 99% efficiency and PH of 3	Model #	Quantity	Flow (GPM)	Grease capacity Needed (lbs)
ASME A 112.14.3 Type D	BIG-750-99	1	50	277

NOTE:

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

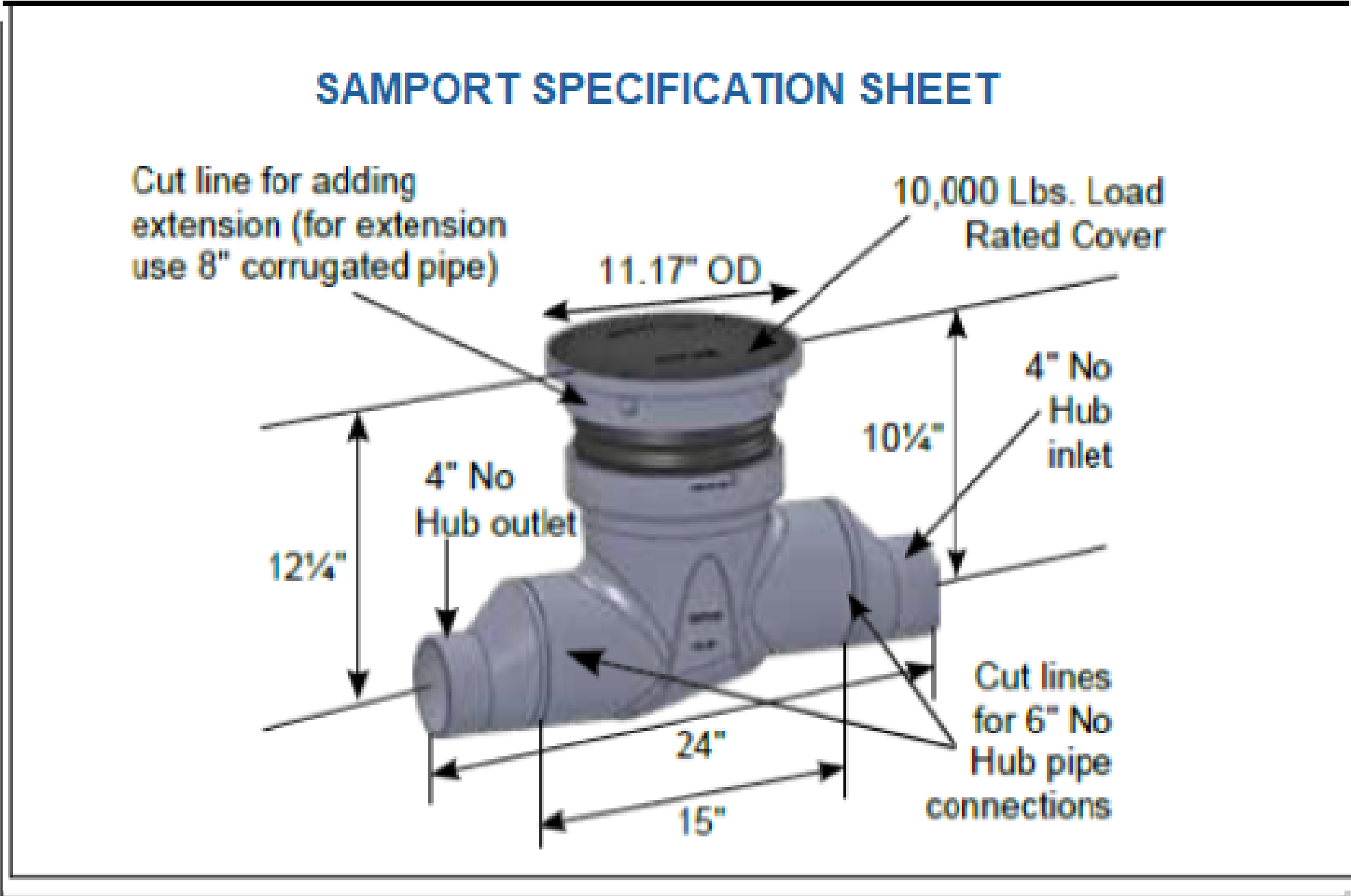
No.	Size	Color	Serials	Flow (GPM)	Lbs. Added	Lbs. Skimmed	Lbs. Retained	Efficiency	Lbs. Added	Lbs. Skimmed	Lbs. Retained	Efficiency		
11	1	2	112.81	50.53	10.00	0.075	9.925	99.25%	110.00	0.550	109.450	99.50%	(1) Total Skimmed:	.550 Lbs.
12	2	1	113.17	50.37	10.00	0.085	9.915	99.15%	120.00	0.635	119.365	99.47%	(2) Total Retained:	109.45 Lbs.
13	1	2	113.60	50.18	10.00	0.060	9.940	99.40%	130.00	0.695	129.305	99.47%	(3) Total Added:	110 Lbs.
14	2	1	111.19	51.26	10.00	0.070	9.930	99.30%	140.00	0.765	139.235	99.45%	Efficiency = (Line 3 - Line 1) / Line 3	
15	1	2	112.62	50.61	10.00	0.085	9.915	99.15%	150.00	0.850	149.150	99.43%	Efficiency % =	99.50%
16	2	1	110.09	51.78	10.00	0.105	9.895	98.95%	160.00	0.955	159.045	99.40%	Summary and Results based on the testing to "maximum grease capacity" at 99% efficiency	
17	1	2	110.93	51.38	10.00	0.100	9.900	99.00%	170.00	1.055	168.945	99.38%		
18	2	1	111.37	51.18	10.00	0.105	9.895	98.95%	180.00	1.160	178.840	99.36%		
19	1	2	111.68	51.04	10.00	0.115	9.885	98.85%	190.00	1.275	188.725	99.33%		
20	2	1	110.90	51.40	10.00	0.125	9.875	98.75%	200.00	1.400	198.600	99.30%		
21	1	2	111.25	51.24	10.00	0.165	9.835	98.35%	210.00	1.565	208.435	99.25%	Breakdown increment No. 28	
22	2	1	111.31	51.21	10.00	0.145	9.855	98.55%	220.00	1.710	218.290	99.22%		
23	1	2	111.13	51.29	10.00	0.145	9.855	98.55%	230.00	1.855	228.145	99.19%		
24	2	1	111.44	51.15	10.00	0.125	9.875	98.75%	240.00	1.980	238.020	99.18%	(1) Total Skimmed:	2.745 Lbs.
25	1	2	111.75	51.01	10.00	0.195	9.805	98.05%	250.00	2.175	247.825	99.13%	(2) Total Retained:	277.255 Lbs.
26	2	1	111.54	51.10	10.00	0.140	9.860	98.60%	260.00	2.315	257.685	99.11%	(3) Total Added:	280 Lbs.
27	1	2	111.94	50.92	10.00	0.190	9.810	98.10%	270.00	2.505	267.495	99.07%	Efficiency = (Line 3 - Line 1) / Line 3	
28	2	1	111.88	50.95	10.00	0.240	9.760	97.60%	280.00	2.745	277.255	99.02%	Efficiency % =	99.02%
29	1	2	112.50	50.67	10.00	0.250	9.750	97.50%	290.00	2.995	287.005	98.97%		
30	2	1	111.75	51.01	10.00	0.270	9.730	97.30%	300.00	3.265	296.735	98.91%		

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Interceptor Monitor Device (model#)	By Others
Solid Separator (model#)	BIG-140-S



Suspension Probe
1/2" x 4" Steel Probe (Stainless Steel)

SAFETY GUIDELINES
WARNING
This device is designed for use in a grease trap or separator. It is not to be used in a sewer line or other location where it may be exposed to high pressure or other hazards. Always use proper safety procedures when installing or maintaining this device.

Customer Support
MIFAB
1-800-451-5555

HLA2 Alarm Panel
1/2" x 4" Steel Panel (Stainless Steel)

QUICK START GUIDE

Step 1: Wiring | Auxiliary Contacts
The HLA2 Alarm Panel is designed to be connected to a control panel or other auxiliary contacts. The wiring diagram shows the correct connections for the auxiliary contacts.

Step 2: Wiring | WAGO Connectors
The HLA2 Alarm Panel is designed to be connected to a control panel or other auxiliary contacts. The wiring diagram shows the correct connections for the WAGO connectors.

Identifying Sensor Tip
The HLA2 Alarm Panel is designed to be connected to a control panel or other auxiliary contacts. The wiring diagram shows the correct connections for the sensor tip.

Cleaning the SPOG sensor
The HLA2 Alarm Panel is designed to be connected to a control panel or other auxiliary contacts. The wiring diagram shows the correct connections for the SPOG sensor.

HLA2 Alarm Panel
1/2" x 4" Steel Panel (Stainless Steel)

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