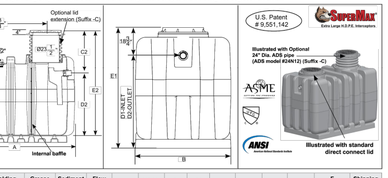
Location: _____

MIFAB® SUPER-1250 — SUPERMAX® GRAVITY GREASE INTERCEPTOR - 1250 GALLONS LIQUID HOLDING CAPACITY

Specification: MIFAB® SUPER-1250 gravity grease interceptor with 1250 U.S. gallons of liquid holding capacity has a limited lifetime warranty and is made in the U.S.A. out of seamless, rotationally molded High Density Polyethylene with 3/8" uniform wall thickness. Interceptor is designed for above or below ground installation and includes extension pipe gasket for ADS 24N12 (pipe not included) for the adjustable lid system, sample port access, internal baffle, deep seal trap covered by lid, internal air relief by-pass, stainless steel calibrated orifice plate (internal flow control), base for support and floor level installation and 4" no hub inlet and outlet connections. Steel encased composite lids provide a water / gas tight seal and have a minimum of 20,000 LB. load capacity - in accordance with the loading requirements of AASHTO H20. The high density polyethylene material is PE 3135 from Dow 9.39 with a density of 0.939 g/cm3. Note that the interceptor is tested and certified to the ASME A112.14.3, CSA B481 and ANSI Z1001 Standards and listed with I.A.P.M.O.

Function: Used in restaurants, kitchens, institutions, industrial facilities such as food processing and packaging plants and other types of food processing areas where fat, oil and grease (FOG) drains with the waste water. All SuperMax gravity interceptors can withstand a temperature of up to and including 180 degrees Fahrenheit.



Model	Liquid Holding Capacity (Gallons / Cu. Ft.)	Grease Retention Capacity	Sediment Capacity (Gallons)	Flow Rate (GPM)	A	Width B	C' Dim.	C" Dim.	D' Dim.	D" Dim.	E' Dim.	E" Dim.	F Connection Size	Shipping Weight (Lbs.)
SUPER-1250	1,262 / 168	8,177 lbs.	126	250	111" 2820mm	64" 1630mm	18.75" 476mm	37.25" 946mm	56.25" 1429mm	54.25" 1378mm	75" 1905mm	91.50" 2324mm	4" 102mm	1,150

SUFFIX	OPTIONAL VARIATIONS	PART NO.
-AK	Anchor kit for all SuperMax interceptors	SUPER,*-AK-SET (* = Specify Size)
-ASME	100 GPM hydro-mechanical grease interceptor	SUPER-1250-ASME
-C	Lid Extension - up to 44" high - (2 pieces included)	SUPER-EXT-44
-C	Lid Extension - up to 72" high - (2 pieces included)	SUPER-EXT-72
-C	Lid Extension - up to 94" high - (2 pieces included)	SUPER-EXT-94
-DI	Ductile iron lid and collar - for all SuperMax interceptors (2 pcs. Included)	SM-MI-G-PL-LID-DI
-DP	Dosing Pump for Lil Max, Big Max, SuperMax	XL-MI-PL-DP
-EP	Enzyme port for Lil Max, Big Max, SuperMax	XL-MI-PL-EP
-FL-C	Membrane clamp kit - for all SuperMax interceptors (2 pcs. Included)	SUPER-FLM (2 pcs. Included)
-F6	6" no hub inlet and outlet (2 pcs. Included) (flow rate of 700 GPM with 6" connections)	MI-G-PL-PF6
-F8	8" no hub inlet and outlet (2 pcs. Included) (flow rate of 1200 GPM with 8" connections) (not available for side inlets / outlets)	MI-G-PL-PF8
-HLA	High level alarm and float switch (to be installed on site) (for Lil Max, Big Max, SuperMax)	XL-MI-PL-HLA
-LHSI	No hub inlet on left hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4
-LHSO	No hub outlet on left hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4
-POK	Remote pump out kit	SUPER-MAX-POK
-RHSI	No hub inlet on right hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4
-RHSO	No hub outlet on right hand side (not available with sediment bucket) (for Lil Max, Big Max, SuperMax)	MI-G-PL-PF4
-RPO	4" Remote pump outlet connections on top of interceptor - specify location and number required	SUPER-MAX-RPO
-SB	Sediment bucket - for all SuperMax interceptors	SUPER,* -PSB (* = Specify Size)
-SP	External sampling port - inline, high connections	SUPER-SP
-SP-L	External sampling port - inline, low connections	SUPER-SP-L
-SP-OF	External sampling port - offset	SUPER-SP-OF
-SST	Fire resistant fabricated stainless steel interceptor	Contact MIFAB®
-ST	Fire resistant fabricated 10 gauge powder epoxy coated steel interceptor	Contact MIFAB®
-T	Female threaded connections - 4" (2 pcs. Included)	MI-G-PL-PF4T
-V	No hub vent connection - 4" - (specify number required and location - side and / or top) (2", 3" available - Specify -V2, -V3 - same price)	MI-G-PL-PF4

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: _____ Page No: _____
Section No: _____ Contractor: _____
Schedule No: _____ Purchase Order No: _____

MIFAB® reserves the right to make changes in material and design without formal notice and obligation.

USA: 1-800-465-2736 www.mifab.com CAN: 1-800-387-3880

2021-12-14

MIFAB® Lil Max® BIG MAX® SuperMax® **INT-2022**

GREASE PRODUCTION SIZING METHOD

Some industry people believe that sizing grease interceptors based on the amount of grease that is produced in a restaurant or kitchen makes a lot more sense than sizing based on flow rate of water and / or drainage fixture units going into the grease interceptor. This can be done first by flow rate and then by grease capacity for pump-out cycle. Note that local codes and ordinances should be followed for compliance. For example, a Chinese restaurant with a 4" drain line can be sized to require a grease interceptor with a 50 GPM flow rate. A Subway deli with a 4" drain line can also be sized to require a grease interceptor with a 50 GPM flow rate. Therefore, two restaurants with very different meal types and production of grease can end up having the same code compliant grease interceptor sized.

The following information and sizing chart can be used to size grease interceptors based on the grease produced in a variety of different restaurants. Note that local codes and ordinances should be followed for compliance.

> *"I buy MIFAB HDPE grease interceptors for one reason, the local rep. It is the ability to get my questions answered quickly. The local knowledge is a great resource."*
>
> – Mark Gomez, Manager, H2O Service, Louisville, KY

1 SIZE BY PIPE DIAMETER/FLOW RATE

Hydromechanical grease interceptor sizing using gravity flow rates (Per Chapter 10 of the Uniform Plumbing Code)

SIZE OF GREASE INTERCEPTOR:

DIAMETER OF GREASE WASTE PIPE	MAX. FULL PIPE FLOW	ONE MINUTE DRAINAGE PERIOD	TWO MINUTE DRAINAGE PERIOD
2"	20 GPM	20 GPM	10 GPM
3"	60 GPM	75 GPM	35 GPM
4"	125 GPM	150 GPM	75 GPM
5"	230 GPM	250 GPM	125 GPM
6"	375 GPM	500 GPM	250 GPM

★RECOMMENDED

* *¼" inch slope per foot (20.8 mm/m) based on Manning's formula with friction factor of N= 0.012

2 FIND GREASE PRODUCTION VALUE

RESTAURANT TYPE	GREASE PRODUCTION VALUES	GREASE PRODUCTION SIZING METHOD
Low Grease Production	.006 lbs / meal no flatware .0065 lbs / meal with flatware	Frozen yogurt, hotel breakfast bar, sub shop, sushi, deli, bar convenience store, residential
Medium Grease Production	.025 lbs / meal no flatware .0325 lbs / meal with flatware	Cafes, low grease output restaurant, pizza restaurant, grocery stores (with no fryer), ice cream parlor
High Grease Production	.035 lbs / meal no flatware .0455 lbs / meal with flatware	Full fare family, German, Italian, fast food Mexican, hamburger bar and grill and fast food restaurant, medium level restaurants with fryer
Very High Grease Production	.058 lbs / meal no flatware .075 lbs / meal with flatware	Full fare BBQ, fast food fried chicken, full fare Mexican, Steak and Seafood, Hawaiian and Chinese

3 CALCULATE GREASE CAPACITY

MEALS PER DAY

X

GREASE PRODUCTION VALUE (STEP 2)

X

31 DAYS PER PUMP OUT CYCLE

=

GREASE CAPACITY NEEDED

CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Design and dimensions are subject to modification. Prices do not include applicable taxes. Visit www.mifab.com for the most recent product information.

MIFAB®, Inc., 1321 West 119th Street, Chicago, Illinois 60643-5109, USA
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Canada Toll Free: 1-800-387-3880 • sales@mifab.com

MIFAB® Lil Max® BIG MAX® SuperMax® **INT-2022**

GREASE INTERCEPTOR CAPACITY DATA

Model No.	Flow Rate (GPM)	Liquid Cap (Gal)	Grease Design Cap. (Lbs)	Sediment Cap. (Gal)
LIL-7	7	5.8	37	2.0
LIL-10	10	8.5	42	2.0
LIL-15	15	13	50	3.1
LIL-20	20	16	73	3.9
LIL-25	25	23	79	5.6
LIL-35	35	39	86	10.6
LIL-50	50	44	109	11.9
LIL-25-LP	25	19	74	11.9
BIG-750	75	140	501	42
BIG-1150	100	300	1556	115
SUPER-500	250	539	3492	53
SUPER-750	250	772	5002	77
SUPER-1000	250	1015	6577	102
SUPER-1250	250	1262	8177	126
SUPER-1300	250	1312	8501	131
SUPER-1500	250	1522	9862	152
SUPER-2000	250	2022	13102	202

Capacities listed are for reference. Many external circumstances can have an effect on the data provided.

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES 1	2	3	4	5	6	7	8
		0.005 lbs/ meal	0.0065 lbs/ meal	0.025 lbs/ meal	0.0325 lbs/ meal	0.035 lbs/ meal	0.0455 lbs/ meal	0.058 lbs/ meal	0.075 lbs/meal
30	250	LIL-7	LIL-15	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750	BIG-750
	500	LIL-20	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	750	LIL-50	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150
	1000	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES 1	2	3	4	5	6	7	8
		0.005 lbs/ meal	0.0065 lbs/meal	0.025 lbs/ meal	0.0325 lbs/ meal	0.035 lbs/ meal	0.0455 lbs/ meal	0.058 lbs/ meal	0.075 lbs/meal
60	250	LIL-25	LIL-50	BIG-750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	750	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500
	1000	BIG-750	BIG-750	BIG-1150	SUPER-500	SUPER-500	SUPER-500	SUPER-500	SUPER-750

PUMP OUT CYCLE	MEALS PER DAY	GREASE PRODUCTION VALUES 1	2	3	4	5	6	7	8
		0.005 lbs/ meal	0.0065 lbs/meal	0.025 lbs/ meal	0.0325 lbs/ meal	0.035 lbs/ meal	0.0455 lbs/ meal	0.058 lbs/ meal	0.075 lbs/meal
90	250	LIL-50	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	BIG-1150	SUPER-500
	500	BIG-750	BIG-750	BIG-1150	BIG-1150	BIG-1150	SUPER-500	SUPER-500	SUPER-500
	750	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-750
	1000	BIG-750	BIG-750	SUPER-500	SUPER-500	SUPER-500	SUPER-750	SUPER-1000	SUPER-1000

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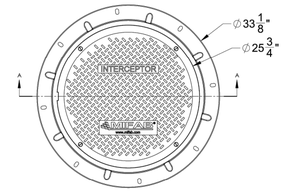
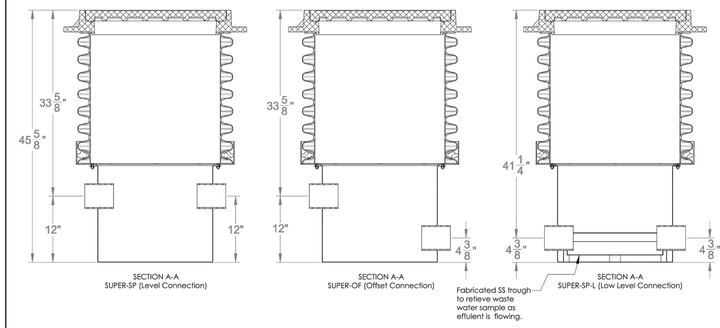


SPECIFICATIONS

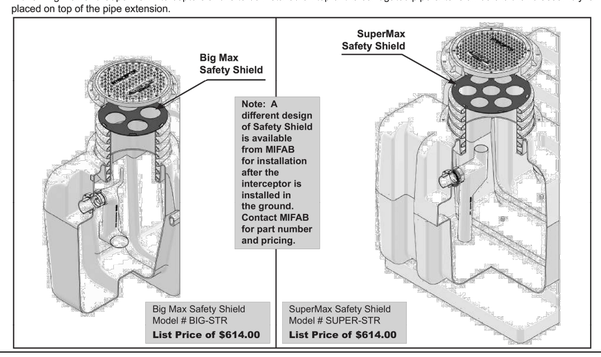
NOTES:
1. 4" no-hub connection for inlet and outlet.
2. Unit weight total~ ~1311lbs.
3. Unit supplied with H-20 load rated access cover, 18" corrugated pipe,andsealing gasket.
4. Maximum operating temperature: 180º F continuous.
5. Unit for below ground application; -DC for direct connect lid in above ground application.

ENGINEER SPECIFICATION GUIDE
MIFAB sampling port models BIG-SP, BIG-SP-OF, and BIG-SP-L are made in the USA of molded polyethylene.



MIFAB SAFETY SHIELD

The issue of open sewer manholes is a real one. Unfortunately, interceptor lids are sometimes not secured properly and / or left off the interceptor. This has resulted in people falling into the interceptor – causing drowning and deaths. MIFAB's solution is the Safety Shield. It is a heavy duty fabricated steel, powder epoxy coated plate with a 450 lb. load rating that is installed underneath the lid, on top of the pipe extension. The Safety Shield provides enough access for inspection and pump out / maintenance while preventing people from falling into the interceptor. It can also be removed for full access to the interceptor. The MIFAB Safety Shield is available with all Big Max and SuperMax interceptors and is to be installed on top of the corrugated pipe extension before the lid assembly is placed on top of the pipe extension.



MIFAB®

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. Fill the interceptor with water prior to backfilling in order to prevent the interceptor from floating.
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 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.

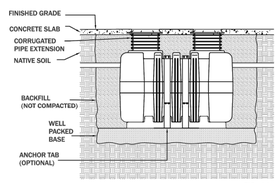


FIG. 11

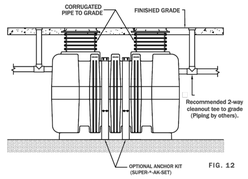


FIG. 12

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 tire wire. Rebar to be 2-1/2" from edge of concrete and spaced in a 12" grid with 4" spacing around access openings.

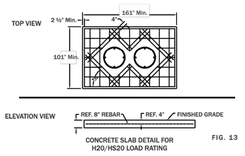


FIG. 13

MIFAB®

INSTALLATIONS

EXTENSION COLLAR INSTALLATION

1. Set the SUPER MAX unit height to grade by installing the 24" 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 #24N12)

2. Install the Pipe Gasket between the bottom ribs. 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 tool can save time and make this process easier. Watch the installation video at www.bit.ly/ADS-gasket.

3. Insert the extension collar and pipe gasket onto the opening of the SUPER-MAX. Press firmly until the extension is seated inside the provided recessed channel. The SUPER-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 pre-drilled 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-width 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.

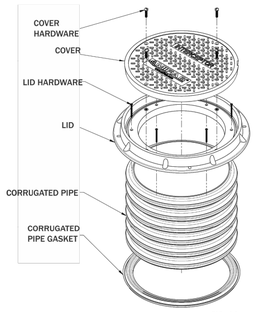


FIG. 14

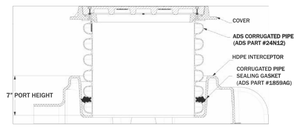


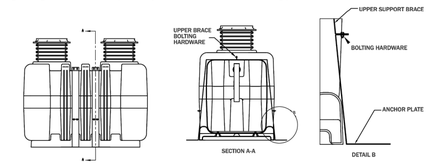
FIG. 15

MIFAB®

SPECIAL PRECAUTIONS

4. ABOVE GRADE INSTALLATION SUPPORT - ANCHOR KITS

Anchor kit is recommended for installlation 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. 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.



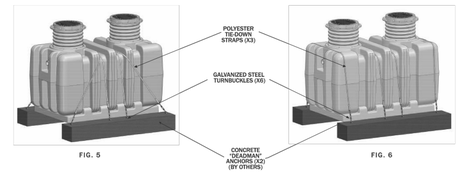


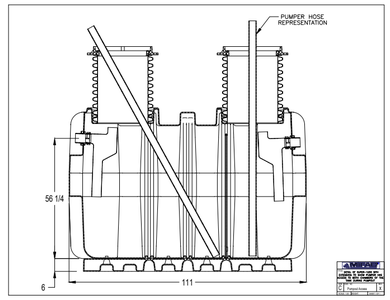
FIG. 5 FIG. 6

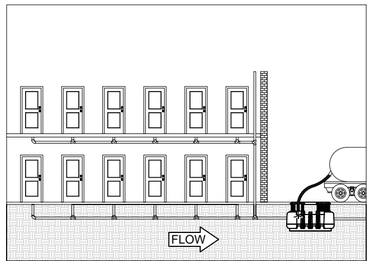
SUPER-*-AK-SET-2 (SPECIFY SIZE)

The SUPER-*-AK-SET-2 is used when greater hold down strength is required. The polyester tie-down straps and turnbuckles are rated at 2,200 lbs. working load each.

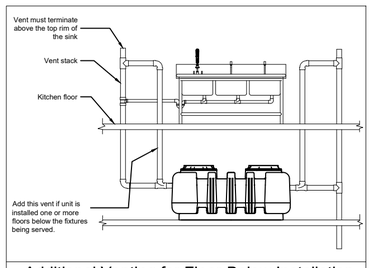
SUPER-*-AK-SET-3 (SPECIFY SIZE)

The SUPER-*-AK-SET-3 is used when greater hold down strength is required. The polyester tie-down straps are rated at 4,000 lbs. working load each and the turnbuckles are rated at 5,200 lbs. each.

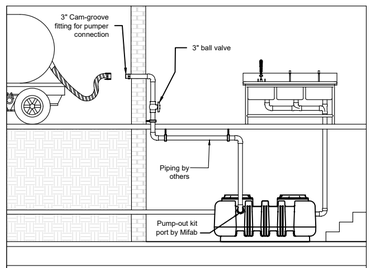




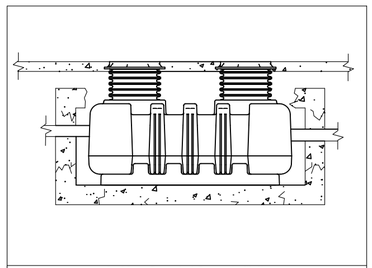
Serving an Apartment Complex



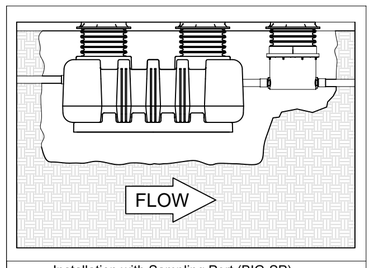
Additional Venting for Floor-Below Installation



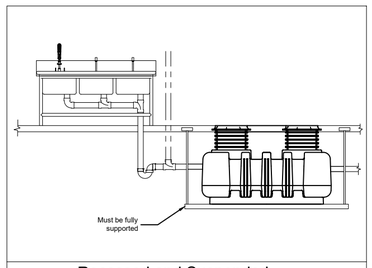
Basement installation with Pumpout Kit



Inside a Corroded Concrete Unit



Installation with Sampling Port (BIG-SP)



Recessed and Suspended

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MIFAB®

TITLE: 250GPM HDPE GREASE INTERCEPTOR

SIZE	DWG. NO.	REV
C	SUPER-1250	

SCALE: | WEIGHT: | SHEET 1 OF 1