



**SALT RIVER PIMA-MARICOPA INDIAN COMMUNITY
PUBLIC WORKS DEPARTMENT**

10005 East Osborn Road, Scottsdale, Arizona 85256-9722
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GRAVITY GREASE INTERCEPTOR SIZING WORKSHEET

Gravity Grease Interceptor Requirements:

- * Precast concrete grease interceptors are not acceptable, shall be constructed of fiberglass or polyethylene.
- * Shall be no smaller than a two-compartment container rated at 500-gallons capacity and no larger than a three-compartment container rated at 2500-gallons capacity.
- * Shall be sized to be pumped no less than 90 days.
- * Shall require engineering design if greater than 2500-gallons.

Customer/Contractor Information:

Date:		Plan Check No.:	
Customer Information/Company Name:		Contact Person:	
		Contact Number:	
Service Address:		GGI Location:	

Step #1: Calculate the DFUs:

Table 8-1: DFU Calculations By Fixtures Counts

Plumbing Fixture	Quantity Plumbing Fixture	Fixture Drain Size (inches)	DFU Per Plumbing Fixture	Total DFU Plumbing Fixture
3 Compartment Sink	1	2	9	9
2 Compartment Sink	1	2	6	6
Pre-Rinse Sink	0	2	3	0
Prep-Sink	1	2	3	3
Hand Sink	2	1.5	2	4
Mop Sink	1	2	3	3
Floor Sink	5	2	4	20
Floor Sink		3	6	0
Floor Sink		4	8	0
Floor Drain	0	2	2	0
Trench Drain (2 DFUs / lineal foot)	0	lineal foot	2	0
Running Water Dipper Well (Bulk Ice Cream Service)		1	1	0
Dishwashers	Use floor sink criteria (2", 3" or 4" FS)			2
Total DFU From Fixtures Count:				47

Step #2: Calculate the flow rate in gallon per minutes (gpm):

Total DFUs divided by 2 (Total DFUs / 2)

Flow Rate (gpm):**24****Step #3: Calculate gravity grease interceptor size in gallons:**

Flow rate multiplied by 30 minutes retention time

GGI Capacity (gallons):**705****Gravity Grease Interceptor Information:**

Enter GGI information – round up to the next larger size and the minimum size GGI allowed is 500 gallons capacity.

Manufacture / Model	Capacity Volume (gallons)	Flow Rate (gpm)	Grease Capacity (pounds)	Plumping Frequency (days)
Shier GGI-1000	1,000	100	5,272	60

SRPMIC PLAN REVIEW**Plan Submittals Shall Include:**

Any food establishment, commercial kitchen, commercial, industrial, agricultural and managed property that will or may require a pretreatment device is required to submit design documents for plan review. This applies for all new installations, renovations and upgrades to existing systems.

In general, submittal of design documents shall include:

1. The plumbing floor plans and schematic plans for the grease waste lines to pretreatment devices.
2. The plans should also show that all Grease Bearing Fixtures (GBF) are routed to appropriately sized grease interceptor(s) and a plumbing fixtures schedule.
3. Show all GBF on the plans that are within the facility, including floor sinks, floor drains, mop sinks, trough sinks, trough drains, pre-wash sinks, prep sinks, pot sinks, dishwashers, etc.
4. The name of the manufacturer, the model number and size of the pretreatment device.
5. The grease interceptor sizing worksheets:
 - Gravity Grease Interceptor – [7.WR.PT_02R1_GGI Sizing Worksheet-Final](#).
 - Hydromechanical Grease Interceptor – [7.WR.PT_03R1_HGI Sizing Worksheet-Final](#).
 - Oil/Sand/Water Interceptor – [7.WR.PT_04R1_OSW Sizing Worksheet-Final](#).

Design Criteria for Pretreatment Devices:

1. GGI shall be no smaller than a two-compartment container rated at 500-gallons capacity and no larger than a three-compartment container rated at 2500-gallons capacity.
2. GGI greater than 2500-gallons shall require engineering design.
3. HGI shall be rated no smaller than 50-gallons per minute and a 100-pounds grease capacity and no larger than a three-compartment container rated at 1500-gallons capacity.
4. Oil/Sand/Water Interceptor shall be rated no smaller than a 50-gallons volume capacity.
5. The grease interceptor must be an approved model from Salt River Pima-Maricopa Indian Community, Public Works Department.
6. Precast concrete or metal grease interceptors are not acceptable. Grease interceptors shall be constructed of plastic, fiberglass, polyethylene or SRPMIC approved.
7. Grease interceptors shall have a grease efficiency removal rate of 95 percent or greater.
8. SRPMIC reserves the right to accept or decline any make, model or size of grease interceptor.