

WATER METER SIZING FORM

ABOUT THE WATER METER SIZING FORM

This form calculates the *minimum* meter size required for single-family residence domestic needs based on the plumbing fixtures served by the meter.

Low pressure and length of building supply line may necessitate increasing the meter size, per the Uniform Plumbing Code (2021 UPC). Additionally, the Plumber and Fire Sprinkler Designer shall verify the meter and water supply lines are sized appropriately to meet the property's needs.

Utilize [2021 UPC](#) Table 610.4 to determine the size of the Building's Water Supply Line (the private water line running from the meter to the house or building).

Fire sprinkler systems generally require a minimum 1-inch water meter.

For the use of alternative plumbing calculations in 2021 UPC Appendix C, the plans must be prepared by a registered design professional, for a specific building project with drawings and specifications indicating plumbing materials to be installed.

Submittal Instructions

Complete & save this form before uploading it to www.MyBuildingPermit.com in the "File Upload" section along with the rest of the submittal documents.

Online References

[SMC 16.05.140 adopted UPC](#)

[2021 UPC](#)

PROPERTY INFORMATION

Parcel Number: _____

Address: _____

APPLICANT INFORMATION

Name: _____

Email: _____

Phone: _____

Questions?

Email the Permit Center at PermitTech@Sammamish.us

City of Sammamish
801 228th Ave SE
Sammamish, WA 98075
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STANDARD FIXTURE UNIT CALCULATIONS

Fixture Type*	Number of Fixtures		Unit	Subtotal
	New	Existing		
Kitchen sink			1.5	
Dishwasher			1.5	
Bar sink			1.0	
Clothes washer			4.0	
Laundry sink			1.5	
Service sink			1.5	
Hose bibb (<i>max 1 for first hose bibb</i>)			2.5	
Hose bibb additional			1.0	
Bathtub/shower 1/2"			4.0	
Tub 3/4" valve			10.0	
Shower, per head			2.0	
Lavatory (hand sink)			1.0	
Toilet (water closet) 1.6gpf			2.5	
TOTAL =				

* Appliances, appurtenances, or fixtures not referenced in this table shall be permitted to be sized by reference to fixtures having a similar flow rate and frequency of use.

The table below lists the minimum meter size required for domestic water service to a residential building, using standard fixture unit calculations.

Total Fixture Units	Domestic Meter Size
39 or less	3/4-inch
40 to 85	1-inch
86 to 370	1 ½-inch

This meter will supply a fire sprinkler system: YES NO

Use of this alternative calculation must be designed for a specific building project with drawings and specifications indicating plumbing materials to be installed, all as prepared by a registered design professional.

ALTERNATIVE - 2021 UPC Table C 303.1(1) - Number of Plumbing Fixtures (including rough-ins)				
	Main Residence	Accessory Dwelling Unit	Multiplier	Calculated Units
Select the applicable combination of Bathroom Groups (one selection for each residence)				
1.0 Bathroom Group			x 5.0 =	
1.5 Bathroom Groups			x 6.0 =	
2.0 Bathroom Groups			x 7.0 =	
2.5 Bathroom Groups			x 8.0 =	
3.0 Bathroom Groups			x 9.0 =	
Additional Bathroom Groups (number of each group in addition to the above)				
Half Bathroom			x 0.5 =	
Whole Bathroom			x 1.0 =	
Laundry Groups				
Laundry Room (up to one sink and one clothes washer)			x 5.0 =	
Kitchen Groups				
Kitchen (includes one sink and one dishwasher)			x 2.0 =	
Additional Units, per UPC Table 610.3				
Each additional shower head			x 2.0 =	
Each clothes washer (sink not included)			x 4.0 =	
Lawn sprinklers (each head)			x 1.0 =	
Bar sink			x 1.0 =	
Hose bibb, first			x 2.5 =	
Hose bibb, additional			x 1.0 =	
			TOTAL:	

Notes:

1. A whole bathroom group = 1 toilet, up to 2 sinks, and 1 bathtub or showerhead.
2. A half bathroom group = 1 toilet and 1 sink.