Instructions for Completing Water Meter Sizing Worksheet (Commercial or Mixed Use)

W-4

The Water Meter Sizing Worksheet helps determine the water meter size needed for projects requiring new or upsized water services.

Who needs to complete this form?

Complete this form if you have new construction, alternations, or additions to commercial or mixed use that require a new or upsized water service that will connect to the public water system.

This worksheet must be completed if the applicant is planning to:

- Construct a new building
- Add or remove plumbing fixtures

Potential commercial building permit applicants may also complete this worksheet in preplanning or planning stages. If you are interested in Systems Development Charges related to such a project, please feel free to complete the worksheet and contact Portland Water Bureau's Development Services staff. Our staff can discuss water services and meter configurations that might meet your needs, and can answer questions related to the water service portion of building permits.

What kind of information does this worksheet request?

The Meter Sizing Worksheet is an inventory of the plumbing fixtures in your project. Each fixture is given a value based on typical water use. Follow the instructions to determine the water meter size that will provide optimum water flow throughout your site. You will calculate Total Fixture Unit Values and be able to match this value to the meter size.

Where do I send the worksheet?

Applicants for commercial building permits typically submit this form with the Systems Development Charge Form, Commercial Projects packet, available at Bureau of Development Services.

If you are researching a building permit application, you may contact Portland Water Bureau Development Services for preplanning and planning assistance with the worksheet.

Portland Water Bureau Development Services

Please feel free to call Development Services should you need assistance.

Phone 503-823-7368
Email devrev@portlandoregon.gov

Mailing address:

1120 SW 5th Avenue, Room 600
Portland, OR 97204-1926

Walk-in Assistance:

1900 SW 4th Avenue, 1st Floor DSC
For hours of operation call 503-823-7310, option 1

Portland Water Bureau Development Services 1120 SW 5th Avenue Portland OR 97204

Water Meter Sizing Worksheet
Commercial or Mixed Use

Revised: May 2008 According to UPC-2005-Appendix A

W-4

Phone: 503-823-7368 email: devrev@portlandoregon.gov

Building Permit Number	Service Address

(1) Type of Fixture	(2) Total Fixtures in New/Remodeled Structure		(3) Fixture Values		(4) Total Fixture Unit Value
Bar sink		x	2.0	=	
Bathtub or Tub/Shower		x	4.0	=	
Clinic Sink		x	3.0	=	
Clothes Washer		x	4.0	=	
Dishwasher		x	1.5	=	
Drinking Fountain		x	0.5	=	
Hose Bibb, 1st one		x	2.5	=	
Hose Bibb, each additional		x	1.0	=	
Kitchen Sink		x	1.5	=	
Laundry Sink		x	1.5	=	
Lavatory Sink		x	1.0	=	
Mop or Service Sink		x	3.0	=	
Shower		x	2.0	=	
Urinal, 1.0 GPF		x	5.0	=	
Urinal, >1.0 GPF		x	4.0	=	
Water Closet, 1.6 GPF Gravity Tank		x	2.5	=	
Water Closet, 1.6 Flushometer Valve		x	5.0	=	
Water Closet, >1.6 Flushometer Valve		x	8.0	=	
				Total Fixture Units:	

Note: *Fixture units for flushometers are approximate values. Values will be reviewed and may be adjusted by Portland Water Bureau Staff on a case-by-case basis.*

Instructions

Column 2: Enter the total number of each fixture type for the completed new structure. If the project has an existing structure that will be using the same water meter enter the total number of each fixture type for the completed project.

Column 3: Per unit value of each fixture type

Column 4: Enter the number of column 2 times column 3

Fixture Unit Count (column 4 total)	Required Meter Size
0 - 22	5/8" meter
22.5 - 37	3/4" meter
37.5 - 89	1" meter
89.5 - 286	1.5 meter
286.5 - 532	2" meter
532.5 – 1,300	3" meter
1,300.5 - 3600	4"meter
3,600.5 – 8,200	6" meter

Note: There may be SDC credit if existing meters are utilized or removed. SDC fees are not assessed to fire lines. Fees are due at the time the water service installation is paid. Call Portland Water Bureau Development Services, 503-823-7368 with any questions.