



City of Bothell

DEVELOPMENT SERVICES

BUILDING • COMMUNITY RISK REDUCTION • ENGINEERING • PLANNING • PERMIT SERVICES • TRANSPORTATION

WATER METER SIZING COMMERCIAL OR MULTI-FAMILY

61a

City of Bothell Utility Fixture Units and Water Meter Calculation Table (commercial and multi-family applications only)

Applicant's Name _____ Phone # () _____
Please print legibly & use ink

Service Address _____

Legal Description _____ Tax ID # _____
If description is lengthy, attach on separate page

Fire Sprinklers required by Fire Marshal? Yes No
(If yes, water meter sizing to be verified by Fire Protection System Engineer and Provided to City of Bothell)

Distance between water meter and building: Length (L) = _____ feet

Difference in elevation between the water meter and the highest point of service in building (H)
(example: Highest point may be a shower head on the second floor of the building. The meter may be 10 feet lower than the first floor elevation. So add the height of the shower head above the floor, the height of the first floor and the height between the first floor and the meter-say 6+8+10=24 feet. Note: If the highest point is BELOW the meter, H will be negative).
Height (H) = _____ feet

Column "A" from 2012 Uniform Plumbing Code, Table 610.3

Individual Count	"A"			"B" # of Units	"C" "A"x"B" ="C"
	Private	Public	Assembly		
Bathtub or Combination Bath/Shower	4.0	4.0		_____	_____
3/4" Bathtub Fill Valve	10.0	10.0		_____	_____
Bidet	1.0			_____	_____
Clothes washer	4.0	4.0		_____	_____
Dental Unit		1.0		_____	_____
Dishwasher, domestic	1.5	1.5		_____	_____
Drinking Fountain or Watercooler	0.5	0.5	0.75	_____	_____
Hose Bibb	2.5	2.5		_____	_____
Hose Bibb, each additional	1.0	1.0		_____	_____
Lavatory	1.0	1.0	1.0	_____	_____
Lawn Sprinkler, each head	1.0	1.0		_____	_____
Mobile Home, each (minimum)	12.0			_____	_____
Sinks					
Bar	1.0	2.0		_____	_____
Clinic Faucet		3.0		_____	_____
Clinic Flushometer Valve with or without faucet		8.0		_____	_____
Kitchen, domestic	1.5	1.5		_____	_____
Laundry	1.5	1.5		_____	_____
Service or Mop Basin	1.5	3.0		_____	_____
Washup, each set of faucets		2.0		_____	_____

- Cont. next page -

Column "A" from 2009 Uniform Plumbing Code, Table 6-5

Individual Count	"A" Fixture Units	"B" # of Units	"C" "A"x"B" = "C"
	Private	Public Assembly	
Shower, per head	2.0	2.0	_____
Urinal, 1.0 GPF Flushometer Valve		see section 610.10	_____
Urinal, greater than 1.0 GPF Flushometer Valve		see section 610.10	_____
Urinal, flush tank	2.0	2.0 3.0	_____
Washfountain, circular spray		4.0	_____
Water Closet, 1.6 GPF Gravity Tank	2.5	2.5 3.5	_____
Water Closet, 1.6 GPF Flushometer Tank	2.5	2.5 3.5	_____
Water Closet, 1.6 GPF Flushometer Valve		see section 610.10	_____
Water Closet, 3.5 GPF Gravity Tank	3.0	5.5 7.0	_____
Water Closet, greater than 1.6 GPF Flushometer Valve		see section 610.10	_____
_____ Total Fixture Units			

I, the undersigned, hereby declare under penalty of perjury of the laws of the State of Washington that the preceding information is true and correct to the best of my knowledge.

Applicant/Owner's Signature

Date

Instructions:

Column "A" to the left shows the assigned value of each fixture in a single-family residence.

Column "B" is where the number of fixtures is written down.

Column "C" is determined by multiplying Column "A" times the number of fixtures in Column "B".

Static Pressure at Meter: (PM) = _____ psi

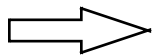
Required Building Supply Line Size _____

Available Pressure at Highest Point:

Meter Size _____

Ph=(PM- 0.433H) = _____ psi

Supply Line Length (L) = _____ feet



To Table 6-5 for meter size

Application Received By _____ **Date** _____ **Account #** _____