



**PLUMBING FIXTURES & WATER SERVICE PIPING  
FOR ADDITIONS AND ALTERATIONS OF  
EXISTING HOUSES  
(INCLUDING CREATION OF ACCESSORY DWELLING UNITS)**

Forming part of a Building Permit for Plumbing & Water Services for Additions & Alterations of Existing Houses

**Address & Permit No.:**  
**Owner's Name:**  
**Proposed Work:**

As per the 2012 Ontario Building Code (OBC), s.7.6.3.1.(2), a **potable water system** shall be designed, constructed and installed to conform to good engineering practice appropriate to the circumstances, such as described in ASHRAE Handbooks and ASPE Data Books.

The **minimum water pressure** at the entry to the building is 200kPa, and the total maximum length of the water system is 90m.

**Shut-off valves** shall be installed in every residential unit as may be necessary to ensure that when the supply to one unit is shut off the supply to the remainder of the building is not interrupted.

**A) Total Hydraulic Load based on the Number of Existing & Proposed Fixtures**

Item	Fixture or Fixture Group	Hydraulic Load, Fixture Units	Existing		Proposed		Total Hydraulic Load
			Number of Fixtures	Hydraulic Load	Hydraulic Load	Hydraulic Load	
1.0	Bathroom Group consists of 1 water closet, 1 lavatory, and 1 bathtub (with or without shower head)*	3.6					
2.0	Extra shower (to be added if there is a separate stand-up shower)*	1.4					
3.0	Lavatory (to be added if there is more than one sink in the bathroom)*	0.7					
4.0	Bidet*	2					
5.0	Powder Room – 2 pcs (1 water closet & 1 lavatory)	2.9					
6.0	Bar sink	1					
7.0	Kitchen sink	1.4					
8.0	Dishwasher	1.4					
9.0	Laundry tub (1 or 2 compartments)	1.4					
10.0	Washing machine	1.4					
11.0	Hose BIBB (Garage or external facets)	2.5					
<b>Grand Total Hydraulic Load:</b>							

**B) Size of the Existing Water Service Pipe: \_\_\_\_\_**

Notes:

- \*Bathroom group means a group of plumbing fixtures installed in the same room, consisting of one domestic lavatory, one water closet and either one ½ inch size bathtub, with or without a shower, or one ½ inch size one-headed shower. Include proposed fixtures for rough-in plumbing and optional fixtures.
- Bathroom group is based on a ½ inch size bathtub supply pipe.
- Add additional fixtures to the fixture load for bathroom group where applicable.

Designer/Owner: \_\_\_\_\_ Date: \_\_\_\_\_