



## Plumbing – Water Pipe Sizing Worksheet

(This form is not a substitute for a plumbing design drawings and specifications required to produced by Qualified Designer as prescribed by the Building Code Act)

\_\_\_\_\_  
Building Permit Application No.  
For office use only

### Part 1 – General Information

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Site Location: \_\_\_\_\_  
Street Address

\_\_\_\_\_  
Unit#

Property Owners  
Information: \_\_\_\_\_  
Name

\_\_\_\_\_  
Phone No.

Designer completing this form is:

- Property Owner\*   
  Plumber   
  BCIN Designer   
  Professional Engineer or Architect

\*A property owner of a house containing two suites or less may complete this form.

Designers  
Information: \_\_\_\_\_  
Print Name                      Phone No.                      Company Name

### Part 2 – Device fixture or System count - Please fill in number of fixtures per storey

Item	Plumbing Fixture or Device	Min. Size of supply pipe in Inches.	Base ment	1 <sup>st</sup> Floor	2 <sup>nd</sup> Floor	3 <sup>rd</sup> Floor	Total
1.	Backflow Preventer	-					
2.	Backwater Device	-					
3.	Bathroom group (3 fixtures max) with 6 LPF flush tank or less, and ½ supply on bathtub	-					
4.	Bathroom group (3 fixtures max) with greater than 6 LPF flush tank, and ½ supply on bathtub	-					
5.	<b>Note: For bathroom group with more than 3 fixtures, count additional fixtures below</b>						
6.	Bathtub with or without shower head	½					
7.	Bathtub with ¾ in. spout	¼					
8.	Bedpan washer	1					
9.	Bidet	3/8					
10.	Clothes washer, 3.5 kg	½					

11.	Clothes washer, 6.8 kg	½					
12.	Clothes washer, commercial	-					
13.	Dental lavatory	3/8					
14.	Dental unit, cuspidor	3/8					
15.	Dishwasher, commercial	-					
16.	Dishwasher, domestic	3/8					
17.	Drinking fountain or water cooler	3/8					
18.	Expansion Tank						
19.	Floor Drain	-					
20.	Grease Trap	-					
21.	Hot Water Tank (also tankless)	-					
22.	Hose bibb	½					
23.	Hose bibb	¼					
24.	Hose bibb, combination hot and cold	½					
25.	Lavatory, 8.3 L/min or less	3/8					
26.	Lavatory, greater than 8.3 L/min	3/8					
27.	Non-Potable Make-up Water System	-					
28.	Oil Interceptor	-					
29.	Roof Drain (not downspout to grade)	-					
30.	Sewage Ejector Pump	-					
31.	Shower head, 9.5 L/min or less per head	½					
32.	Shower head, greater than 9.5 L/min per head	½					
33.	Shower, spray, multi-head, <i>fixture unit per head</i>	(5)					
34.	Sink, bar	3/8					
35.	Sink, clinic service faucet	½					
36.	Sink, clinic service with direct flush valve	1					
37.	Sink, kitchen, commercial, per faucet	½					
38.	Sink, kitchen, domestic, 8.3 L/min or less	3/8					
39.	Sink, kitchen, domestic, greater than 8.3 L/min	3/8					
40.	Sink, laboratory	3/8					
41.	Sink, laundry (1 or 2 compartments)	3/8					
42.	Sink, service or mop basin	½					
43.	Sink, washup, per faucet	½					
44.	Solar Domestic Hot Water System	-					
45.	Sprinkler System (Fire)	-					
46.	Sprinkler System (landscaping)	-					
47.	Sump Pump (weepers)	-					
48.	Urinal, with direct flush	3/4					
49.	Urinal, with flush tank	3/8					
50.	Urinal, with self-closing metering valve	1/2					
51.	Water Closet, 6 LPF or less with flush tank	3/8					
52.	Water Closet, greater than 6 LPF with flush tank	3/8					
53.	Water Closet, with direct flush valve	1					
54.	Water Softener	-					
Buildings total plumbing fixture unit and device count:							

## Part 3 – Sizing of Water Service

### Water Pipe Sizing

55.	<b>Hydraulic Load/fixture unit calculation</b> (per OBC 7.6.3.2 & 7.6.3.4)	
56.	Existing fixtures:	
57.	Proposed New/Additional:	
58.	Total:	
59.	<p>Existing Water Service Pipe is,</p> <p>Material Type _____ with a velocity of m/s _____ and diameter size _____ inch and overall length of _____ feet, and is;</p> <p><input type="checkbox"/> adequate to service the building after construction.</p> <p><input type="checkbox"/> not adequate to service the building after construction and will be replaced by new water service as described in row 60 below.</p>	
60.	<p>Proposed Water Service Pipe proposed to be,</p> <p>Material Type _____ Using a velocity of _____ m/s and fixture units, A _____ inch water service pipe is proposed at an overall length of _____ feet.</p>	

## Part 4 Declaration of Designer

I \_\_\_\_\_ declare that (choose one as appropriate):  
(print name)

- I am a **Property Owner** of the subject property as identified in the Site Address above, if the *property owner* is a corporation or partnership, I have the authority to bind the corporation or partnership.
- I am a **Licensed Professional Engineer or Architect** in the Province of Ontario. (affix seal)
- I am a **Licensed Plumber** in the Province of Ontario. Lic. # \_\_\_\_\_
- I am a **BCIN Designer** as described in the Building Code. BCIN # \_\_\_\_\_

I also certify that:

- The information contained in this document is true to the best of my knowledge.
- If a new water pipe service is required, it will be installed in accordance with the Ontario Building Code and Town of Perth Water Service Engineering Standards, as amended from time to time.
- I have submitted this application with the knowledge and consent of the building permit applicant.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Designer

*Personal information contained in this form and schedules is collected under the authority of subsection 7.1(f) of the Building Code Act, 1992, and will be used in the administration and enforcement of the Building Code Act, 1992. Questions about the collection of personal information may be addressed to the Chief Building Official of the municipality or upper-tier municipality to which this application is being made,*