

PART 9 – RESIDENTIAL

Water service pipe sizes for residential buildings containing one or more dwelling units may be sized using this form.

Refer to the Ontario Building Code for additional information.

Part 1 – Hydraulic Load (Fixture Unit) Calculation

Fixture or Device	Minimum Size of Supply Pipe	Hydraulic Load (Fixture Units)	Quantity	Total Hydraulic Load (Fixture Units)
Bathroom Group^(a)				
Bathroom group ^(a) with 6 LPF flush tank	-	3.6		
Bathroom group ^(a) with greater than 6 LPF flush tank	-	6.0		
(a) Bathroom group means a group of plumbing fixtures installed in the same room, consisting of one lavatory, one water closet and either one bathtub, with or without a shower, or one one-handed shower.				
Other than a Bathroom Group:				
Bathtub with or without shower head	1/2"	1.4		
Bathtub with 3/4 in. spout,	3/4"	1.0		
Shower head, 9.5 L/min or less	1/2"	1.4		
Shower head, more than 9.5 L/min	1/2"	2.0		
Bidet	3/8"	2.0		
Clothes washer	1/2"	1.4		
Dishwasher	3/8"	1.4		
Water closet, 6 LPF or less with flush	3/8"	2.2		
Hose bibb 1/2" supply	1/2"	2.5		
Hose bibb 3/4" supply	3/4"	3.0		
Bathroom sink (lavatory)	3/8"	0.7		
Bar sink	3/8"	1		
Kitchen sink, 8.3 L/min or less	3/8"	1.4		
Laundry sink	3/8"	1.4		
Other:				
Total:				

Part 2 – Sizing of the Water Service

Maximum Hydraulic Load (fixture units)	Maximum Allowable Length (m)	Water Service Pipe (in)
26 (single dwelling unit house only)	-	3/4
17	30	3/4
19	24	
21	18	
36	30	1
41	24	
42	18	
83	30	1-1/2

(b) Only applies to a single dwelling unit house.

Existing water pipe size: _____ in	New water pipe size*: _____ in.	Water service length: _____ m
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*New water service connections or upgrades require Peel Region approval. For more information please visit:

www.peelregion.ca/services/water/sewer-connection

Municipal Address:	Name:	BCIN, if applicable:	Date:
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