



Plumbing Fixture Unit Count for Single Family Dwellings, Suites, & Duplexes

Site Address: _____ Building Permit #: _____

Type of Fixture	Minimum Size of Supply Pipe (inches)	Hydraulic Load Fixture Units (A)	Number of Fixtures (B) (existing & new)	Total Load (Ax B)
Bathroom group* - 6 LPF tank (based on 1/2" bathtub supply pipe)	n/a	3.6		
Bathroom group* - > 6 LPF tank (based on 1/2" bathtub supply pipe)	n/a	6		
Bathroom group* - more than 3 fixtures	n/a	Add add'l fixture to fixture load for bathroom group above	--	--
Bathtub with or without shower head	1/2	1.4		
Bathtub with 3/4" spout	3/4	10		
Clothes washer (3.5kg)	1/2	1.4		
Dishwasher - domestic	3/8	1.4		
Hose bibb	1/2	2.5		
Hose bibb	3/4	3		
Hose bibb, combination hot & cold	1/2	2.5		
Lavatory - 8.3 LPM or less	3/8	0.7		
Lavatory - > 8.3 LPM	3/8	1		
Sink - bar	3/8	1		
Sink - kitchen domestic, 8.3 LPM	1/2	1.4		
Sink - kitchen domestic, > 8.3 LPM	3/8	2		
Sink - laundry (1 or 2 compartments)	3/8	1.4		
Shower head - 9.5 LPM or less per head	1/2	1.4		
Shower head - > 9.5 LPM per head	1/2	2		
Shower - spray, multi-head, <i>fixture unit</i> per head	Refer to manufacture recommendations	1.4		
Water closet - 6 LPF or less with flush tank	3/8	2.2		
Water closet - > 6 LPF with flush tank	3/8	3		
Floor drain	n/a	0		
HWT - domestic	n/a	0		
Irrigation - 3/4" supply	3/4	8 (7 gpm)		
Irrigation - 1" supply	1	17 (17 gpm)		
Domestic Fire Protection Sprinklers		As per Eng. specs		
Total: (use Total Load to determine required pipe size below)				
Water Service Pipe Sizing (from property line to house; Table 2.6.3.4 of BCPC 2018) (water velocity @ 2.4m/s based on PEX/copper/CPVC)				
	Max Total Load Permitted	Required Pipe Size (inches)	Existing	Need to Upgrade
	16	3/4"		
	31	1"		
	57	1 1/4"		

*Bathroom Group = 1 water closet, 1 lavatory, 1 bathtub with/without shower or shower only