

Quick reference guide for fixture unit count and Water Softener sizing International Plumbing Code

Fixtures and	load values assigned to fixtures Table E103.3
Bathroom Group	3.6
Kitchen sink	1.4
Dishwashing Machine	1.4
Washing machine	1.4
Shower	1.4
Lavatory	0.7
Water closet	2.2
Bathtub	1.4

This is a quick reference guide to common fixture counts. actual fixture counts may vary

Size	Fixture Units	Flow Rate (GPM)	Meter	Main water line
1 Bath	7.8	12.8	¾"	¾"
2 Bath	11.4	15.4	¾"	1"
2 ½ Bath	14.3	17.0	¾"	1"
3 Bath	15.0	17.5	¾"	1"
3 ½ Bath	17.3	18.4	¾"	1"
4 Bath	18.6	21.8	¾"	1"
4 ½ Bath	20.9	19.6	¾"	1"
5 Bath	22.2	21.5	¾"	1"

Single Laundry
Single kitchen sink with dishwasher
3 fixtures per bathroom
Hose bibs not to be used in soft water fixture load.

Water line sizing example was done at 50 to 60 PSI with a development length of 40 to 150 feet.

Quick reference guide for fixture unit count and Water Softener sizing Uniform Plumbing Code

Fixtures and	load values
Bathroom Group	7.5
Kitchen sink	1.5
Dishwashing Machine	1.5
Washing machine	4.0
Shower	2.0
Lavatory	1.0
Water closet	2.5
Bathtub	10.0

This is a quick reference guide to common fixture counts. actual fixture counts may vary

Size	Fixture Units	Flow Rate (GPM)	Meter	Main water line
1 Bath	14.5	11.0	¾"	¾"
2 Bath	22.0	15.5	¾"	1"
2 ½ Bath	25.5	18.0	¾"	1"
3 Bath	29.5	20.0	1"	1"
3 ½ Bath	33.0	22.0	1"	1"
4 Bath	37.0	24.0	1"	1.25"
4 ½ Bath	40.5	25.0	1"	1.25"
5 Bath	44.5	27.0	1"	1.25"

Single Laundry
Single kitchen sink with dishwasher
3 fixtures per bathroom
Hose bibs not to be used in soft water fixture load.

Water line sizing example was done at 50 to 60 PSI with a development length of 40 to 150 feet.

Reference: Plumbing Code UPC 610.2 UPC 610.6 and NSF Reference Table 14.1