

City of Sarasota Utilities Department

Water Demand and Meter Size Determination Form

Based on 2017 Florida Building Code (FBC), Appendix P Residential, Appendix E Commercial

Service Address _____ Building Permit # _____
 Occupancy _____ Multi-Unit # _____ Owner's Name _____

<u>Item No. Residential (Private):</u>	<u>Load Value</u>	<u>#Fixtures</u>	<u>Total Fixture Load</u>
1. Bathroom group – Flush Tank	3.6	_____	_____
2. Bathroom group – Flushometer Valve	8.0	_____	_____
3. Bathtub – Faucet	1.4	_____	_____
4. Bidet – Faucet	2.0	_____	_____
5. Combination Fixture - Faucet	3.0	_____	_____
6. Lavatory – Faucet	0.7	_____	_____
7. Shower Head – Mixing Valve	1.4	_____	_____
8. Water Closet – Flushometer Valve	6.0	_____	_____
9. Water Closet – Flush Tank	2.2	_____	_____
10. Water Closet - Flushometer Tank	2.0	_____	_____
11. Dishwashing Machine (8lb) – Auto	1.4	_____	_____
12. Kitchen Sink – Faucet	1.4	_____	_____
13. Laundry Tray (1-3) – Faucet	1.4	_____	_____
14. Washing Machine (8lb) – Auto	1.4	_____	_____
15. Other:			

<u>Commercial (Public)</u>	<u>Load</u>	<u>#Fixtures</u>	<u>Total Fixture Load</u>
16. Bathtub – Faucet	4.0	_____	_____
17. Lavatory – Faucet	2.0	_____	_____
18. Shower Head – Mixing Valve	4.0	_____	_____
19. Urinal – 1" Flushometer Valve	0.0	_____	_____
20. Urinal – ¾" Flushometer Valve	5.0	_____	_____
21. Urinal – Flush Tank	3.0	_____	_____
22. Water Closet – Flushometer Valve	10.0	_____	_____
23. Water Closet – Flush Tank	5.0	_____	_____
24. Water Closet - Flushometer Tank	2.0	_____	_____
25. Kitchen Sink – Hotel/Restaurant – Faucet	4.0	_____	_____
26. Service Sink – Offices, etc. 3/8" Valve	0.25	_____	_____
27. Washing Machine (8lbs) – Automatic	3.0	_____	_____
28. Washing Machine (15lbs) – Automatic	4.0	_____	_____
29. Drinking Fountain – Offices, etc. 3/8" Valve	0.25	_____	_____
30. Other:			

Total Fixture Load (Sum of Items 1-30) _____

Total Water Demand from Fixtures – GPM..... _____

Other Water Demands (GPM) Ex: Silcock, Hose Bibb = 5 GPM _____

Total Domestic Water Demand – GPM (Total Fixture Demand + Other Demands) _____

Irrigation System Demand (GPM) _____

Water Meter Size Selection Table – Domestic and/or Irrigation

<u>Meter Size</u>	<u>5/8"</u>	<u>1"</u>	<u>1.5"</u>	<u>2"</u>	<u>3"</u>	<u>4"</u>	<u>6"</u>	<u>8"</u>
<u>Maximum Flow</u>								
<u>Rate (GPM)</u>	20	50	100	160	320	500	1000	1500
<u>Max Fix Load</u>								
<u>Flush Tank</u>	21	128	375	695	1955	3657	8400	12600
<u>Max Fix Load</u>								
<u>Flushometer</u>	7	50	250	625	1955	3657	8400	12600

Domestic Meter Selection _____

Irrigation Meter Selection _____

Please check all site conditions that apply: 1) Building of 5 or more floors ___ 2) Irrigation system (potable water) ___
 3) Auxiliary or Reclaimed Water System ___ 4) Fire Protection System ___

Size of Proposed **Fire Line** (As Applicable)

Print Name _____ Phone _____

Email _____

Signature _____ Date _____