5.4 Water fixtures

Optimize interior water consumption

Interior water consumption within a building is attributed to fixtures and appliances such as taps, toilets, washing machines etc. Large water savings can be made by using low flow fixtures and high efficiency appliances.

PW-R1 sets a minimum standard for fixture flow rates and appliance efficiencies. These flow rates are as follows:

Table 5.4

Fixture/Appliance	Unit	Rate
Kitchen Taps	liters/minute	6.0
Bathroom Washbasin Taps	liters/minute	6.0
Toilets Dual Flush	liters/flush	6.0/4.0
Bidets	liters/minute	6.0
Shower Head	liters/minute	9.5
Ablution Fixtures	liters/minute	6.0
Dishwashers	liters/place setting	1.3
Washing Machines	liters/kg of dry load	8.5

To comply with PW-R1, a project must demonstrate that the proposed buildings interior potable water consumption is less than or equal to the baseline building interior potable water consumption based on the flow rates detailed within the adjacent table. This must be demonstrated by utilizing the PBRS Water Calculator v1.1 available from www.estidama.org.

The calculator allows the project to trade between flow rates so that the efficiency of certain fixtures/appliances may be relaxed only if others are improved. This ensures that the overall proposed building interior potable water consumption is less than or equal to the baseline.

The next few pages contain snapshots of the 'PBRS Water Calculator v1.1. This will help the design team select appropriate fixtures and demonstrate compliance with the Estidama requirements.