

WATER EFFICIENCY MEASURES FOR NEW RESIDENTIAL DEVELOPMENT - V.060810

GPF = gallons per flush, GPM = gallons per minute, WF = water factor

Indoors	Flow Rate	Recommendation Details	Future Federal or State Requirements
Toilets	1.28 GPF	High efficiency toilets (HET) have a flush volume of 1.28 GPF, dual flush models are also considered HETs, with an average flush less than 1.28 GPF. Choose HETs that are third party tested and certified as passing a 350 g or higher flush volume test as established by the Uniform North American Requirements.	Will be mandatory to comply with CALGreen under the prescriptive method - effective 1/1/2011 Required for all after 2013
Showerheads	2.0 GPM	EPA's Water Sense Program recommends showerheads with a flow rate of 2.0 GPM or less.	Will be mandatory to comply with CALGreen under the prescriptive method - effective 1/1/2011
Lavatory Faucets	1.5 GPM	Lavatory faucets with aerators that restrict flow to 1.5 GPM or less.	method - effective 1/1/2011
Kitchen Faucets	1.5 GPM	Kitchen faucets with aerators that restrict flow to 1.5 GPM or less.	
Clothes Washers	6 WF	High efficiency clothes washers (HEW) with a water factor of 6 have a maximum average water use of 6 gallons per cubic foot of laundry. HEWs are typically front loading horizontal axis washers.	Potential requirement in 3-5 years
Outdoors		Recommendation Details	Future Federal or State Requirements
Turf Landscaping		Limit turf to areas where it is functional. Avoid planting turf in narrow, odd-shaped areas which are hard to irrigate efficiently.	Many of these measures are now required as part of the CA Model Water Efficient Landscape Ordinance effective 1/1/2010
Non-turf Landscaping		Select native or low water using plant species. High water using plants should be grouped together and irrigated separately.	
Irrigation System		Irrigation systems should be designed to maximize efficiency and reduce water waste by minimizing overspray and runoff. Use low volume (e.g., drip) irrigation in non-turf areas.	
Irrigation Controller		An automatic, self-adjusting irrigation controller is recommended. Automatic, self-adjusting controllers utilize prevailing weather conditions, current and historic evapotranspiration, soil moisture levels, and other relevant factors to adapt water applications to meet the needs of plants.	
Overhead Sprinklers and Spray Heads		Should not be used in narrow areas, eight (8) feet wide or less, or where adjacent to impervious surfaces where overspray and excess run-off can occur.	
Valves and Circuits		Should be separated into hydrozones based on plant type and plant water needs.	
Decorative		All decorative fountains should recycle water.	
Swimming Pools and Spas		Covers should be used on all pools or spas.	
Bay-Friendly Landscaping Best Practices		Adopt the Bay-Friendly Program's (Stopwaste.org) 7 best practices for landscaping and gardening. 1. Landscape Locally; 2. Landscape for Less to the Landfill; 3. Nurture the Soil; 4. Conserve Water; 5. Conserve Energy; 6. Protect Water & Air Quality; 7. Create Wildlife Habitat	

WATER EFFICIENCY MEASURES FOR NEW COMMERCIAL DEVELOPMENT- V.060810

GPF = gallons per flush, GPM = gallons per minute, WF = water factor

Indoors	Flow Rate	Recommendation Details	Future Federal or State Requirements
Toilets	1.28 GPF	High efficiency toilets (HET) have a flush volume of 1.28 GPF, dual flush models are also considered HETs, with an average flush less than 1.28 GPF. Choose HETs that are third party tested and certified as passing a 350 g or higher flush volume test as established by the Uniform North American Requirements.	Will be mandatory to comply with CALGreen under the prescriptive method - effective 1/1/2011 Required for all after 2013
Urinals	0.5 GPF	High efficiency urinals (HEU) have a flush volume of 0.5 GPF or less.	
Showerheads	2.0 GPM	EPA's Water Sense Program recommends showerheads with a flow rate of 2.0 GPM or less.	Will be mandatory to comply with CALGreen under the prescriptive method - effective 1/1/2011
Lavatory Faucets	.5 GPM	Lavatory faucets with aerators that restrict flow to .5 GPM or less.	
Kitchen Faucets	1.5 GPM	Kitchen faucets with aerators that restrict flow to 1.5 GPM or less.	
Clothes Washers	6 WF	High efficiency clothes washers (HEW) with a water factor of 6 have a maximum average water use of 6 gallons per cubic foot of laundry. HEWs are typically front loading horizontal axis washers.	Potential requirement in 3-5 years
Cooling Towers		Should be equipped with a recirculating system with a minimum of five (5) cycles of concentration. Newly constructed cooling towers should be operated with conductivity controllers, as well as make up and blowdown meters	
Food Steamers		Should be boiler less or self-contained where applicable.	
Ice Machine		Should be air-cooled, or use no more than 25 gallons of water per 100 pounds of ice and should be equipped with a recirculating cooling unit.	
Commercial Refrigeration		Should be air-cooled or if it is water cooled it should have a closed loop system.	
Pre-rinse Dishwashing Spray Valve	1.2 GPM	Should have a maximum flow rate of 1.2 or less GPM.	
Vehicle Wash		Shall reuse a minimum of 50% of the water.	
Outdoors		Recommendation Details	Future Federal or State Requirements
Turf Landscaping		Limit turf to areas where it is functional. Avoid planting turf in narrow, odd-shaped areas which are hard to irrigate efficiently.	Many of these measures are now required as part of the CA Model Water Efficient Landscape Ordinance effective 1/1/2010
Non-turf Landscaping		Select native or low water using plant species. High water using plants should be grouped together and irrigated separately.	
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Overhead Sprinklers and Spray Heads		Should not be used in narrow areas, eight (8) feet wide or less, or where adjacent to impervious surfaces where overspray and excess run-off can occur.	
Valves and Circuits		Should be separated into hydrozones based on plant type and plant water needs.	
Decorative fountains		All decorative fountains should recycle water.	
Swimming Pools and Spas		Covers should be used on all pools or spas.	
Bay-Friendly Landscaping Best Practices		Adopt the Bay-Friendly Program's (Stopwaste.org) 7 best practices for landscaping and gardening. 1. Landscape Locally; 2. Landscape for Less to the Landfill; 3. Nurture the Soil; 4. Conserve Water; 5. Conserve Energy; 6. Protect Water & Air Quality; 7. Create Wildlife Habitat	