



NGBS Scoring for New Construction
ICC 700-2008 National Green Building Standard™

Revised August 17, 2011

This project has not met all the requirements for Bronze, Silver, Gold, or Emerald.

	Current Status		Performance Level Minimums			
	Score	Mandatory	Bronze	Silver	Gold	Emerald
This Chapter	0	N/A	14	26	41	60
This Project	0	Not Met	222	406	558	697

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Practice #	Chapter 8: Water Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
801 - Indoor and Outdoor Water Use						
801.1	INTENT. Measures that reduce indoor and outdoor water usage are implemented.					
801.1.1	Indoor hot water usage is reduced by one of the following practices. Claim points for only one from (1)-(4) below:					
(1)	All hot water piping that runs to the plumbing fixtures in both the kitchen and bathrooms is 40 feet (12,192 mm) or less in the length from the water heater and is sized in accordance with the code for the specified application.	2		When no plumbing code inspection approval is available at the site, provide plumber's certification that pipes are properly sized.		
(2)	All hot water piping that runs to the plumbing fixtures in both the kitchen and bathrooms is 30 feet (9,144 mm) or less from the water heater and is sized in accordance with the code for the specified application.	3				
(3)	One of the following piping system designs is implemented Claim points for only one from (a)-(c) below:			Statement from a qualified professional that the requirement has been met. See Products		
(a)	Use of structured-type plumbing with demand controlled hot water loops, in which the volume of water contained in the pipe and fixture fittings downstream of the recirculating trunk line is a maximum of 4 cups (0.95 liters) (57.75 cubic inches) (0.25 gallons).	6				
(b)	Engineered parallel piping system (i.e. manifold system), in which the hot water line distance from the water heater to the parallel piping system is less than 15 feet (4,570 mm) and the parallel piping to the fixture fittings contains a maximum of 8 cups (1.89 liter) (115.50 cubic inches) (0.50 gallons).	6				
(c)	Central core plumbing system with all plumbing fixture fittings (e.g., faucets, showerheads) located such that the volume of water contained in each pipe run between the water heater and fixture fitting is a maximum of 6 cups (1.42 liters) (86.63 cubic inches) (0.38 gallons).	8				
(4)	Pipe runs exceeding 40 feet (12,192 mm) from the water heater to fixture locations are aided by one of the following conditions. Claim points for only one from (a)-(b) below:			None.		
(a)	tankless water heater is installed at point of use and is served only by cold water or a solar-assisted system.	1				
(b)	On-demand hot water recirculation system is installed.	1				
801.2	Water-conserving appliances. ENERGY STAR® or equivalent water-conserving appliances are installed. Claim points for all that apply from (1)-(2) below:					
(1)	dishwashers (multiples must all comply)	2		None.	--	
(2)	washing machine with a water factor of >6.0 OR with a water factor of ≤6.0	>6.0 = 8 pts ≤6.0 = 12 pts				--
NOTE: If multiple dishwashers and washing machines are installed, ALL instances must meet the above conditions to be awarded points.						
801.3	Food waste disposers. A minimum of one food waste disposer is installed at the primary kitchen sink.	1		None.	See Products	
801.4	Showerheads. Showerheads are in accordance with the following:					
(1)	The total showerhead flow rate at any point in time in each shower compartment is 1.6 to less than 2.5 gpm. The total flow rate is tested at 80 psi (552 kPa) in accordance with ASME A112.18.1. Showers are equipped with an automatic compensating valve that complies with ASSE 1016 or ASME A112.18.1 and specifically designed to provide thermal shock and scald protection at the flow rate of the showerhead. For SI: 1 gallon per minute = 3.785 L/m	1 fixture = 1 pt 2 fixtures = 2 pts 3+ fixtures = 3 pts		Manufacturer's specifications showing compliance.		
(2)	All showerheads meet the requirements of 801.4(1). In addition, all showerheads are in compliance with one of the following conditions. Claim points for only one from (a)-(b) below:					
(a)	2.0 to <2.5 gpm	1				
(b)	1.6 to <2.0 gpm	2				
NOTE: Points must be claimed for 801.4(1) in order to claim points for 801.4(2)(a) or 801.4(2)(b).						
801.5	Faucets					Building construction manual must be available for review that addresses each of the required 3 items (a placeholder for the certificate is acceptable) plus at least any 2 of the listed additional optional items. Description of process to deliver manual(s) to responsible party.
801.5.1	Water-efficient lavatory faucets with 1.5 gpm (5.68 L/m) or less maximum flow rate when tested at 60 psi (414 kPa) in accordance with ASME A112.18.1 are installed.					
(1)	ALL lavatory faucets per bathroom comply.	1 bath = 1 pt 2 bath = 2 pts 3+ bath = 3 pts		Manufacturer's specs showing compliance. See Products		
(2)	ALL lavatory faucets per dwelling unit comply.	2				See Products
NOTE: Points must be claimed for 801.5(1) in order to claim points for 801.5(2).						
801.5.2	Self-closing valve, motion sensor, metering, or pedal-activated faucet is installed to enable intermittent on/off operation.	1 fix. = 1 pt 2 fix. = 2 pts 3+ fix. = 3 pts		None.	--	
801.6 & 802.2	Water closets and urinals. Water closets and urinals are in accordance with the following:					
(1)	Water closets and urinals installed meet the following conditions: (a) All water closets are 1.28 gallons per flush or less and all urinals are 0.5 gallons per flush or less, OR (b) All water closets and urinals are waterless or composting.	Required for Gold or Emerald		None.		
(2)	Only one of (a)-(b) below is met:					

Practice #	Chapter 8: Water Efficiency	Points Available	Points Claimed	Required Documentation	Approved Products	Notes
	(a) A water closet is installed with an effective flush volume of 1.28 gallons (4.85 L) or less when tested in accordance with ASME A112.19.2 (all water closets) and ASME A112.19.14 (all dual flush water closets), and is in accordance with EPA WaterSense Tank-Type High-Efficiency Toilet.	1 fix. = 6 pts 2 fix. = 12 pts 3+ fix. = 18 pts		Manufacturer's specs showing compliance.	--	
	(b) Composting or waterless toilet and/or urinal is installed.	1 fix. = 8 pts 2 fix. = 16 pts 3+ fix. = 24 pts				
(3)	A urinal is installed with a flush volume of 0.5 gallons (1.9 L) or less when tested in accordance with ASME A112.19.2.	4			--	
(4)	Only one of (a)-(b) below is met:					
	(a) All water closets are 1.28 gallons per flush or less and all urinals are 0.5 gallons per flush or less.	6			--	
	(b) All water closets and urinals are waterless or composting.	8			--	
	NOTE: Points must be claimed in (2) and/or (3) to claim points for (4).					
801.7	Low-volume irrigation system					
801.7.1	A low-volume irrigation system is installed for each landscape type utilized:	10 points max.	0	Irrigation plans showing all types and locations of lowflow irrigation system.	--	
(1)	high-distribution uniformity (DU) rotating spray heads	2				
(2)	drip irrigation	4				
(3)	bubblers	4				
(4)	drip emitters	4				
(5)	soaker hose	4				
(6)	subsurface irrigation	6				
	NOTE: Points awarded once for each type of irrigation. Points for multiple types allowed.					
801.7.2	Irrigation system is in accordance with both of the following: (1) designed by a professional in accordance with EPA WaterSense requirements (or equivalent), AND (2) installed in accordance with EPA WaterSense program (or equivalent).	3		Irrigation plan designed by a qualified professional and installer documentation of compliance.	--	
801.7.3	Irrigation system is zoned separately for turf and bedding areas.	2		None.	--	
801.7.4	The irrigation system(s) is controlled by a smart controller. Claim points for only one from (1)-(3) below:					
(1)	Evapotranspiration (ET) based irrigation controller with a rain sensor.	4		Irrigation plans showing either an Evapotranspiration (ET) based irrigation controller with a rain sensor, or a soil moisture sensor based irrigation controller.	--	
(2)	Soil moisture sensor based irrigation controller.	4				
(3)	No irrigation is installed and a landscape plan is developed in accordance with Section 503.5(1), as applicable.	15		Landscape plan in accordance with Section 503.5. No irrigation on any plans.	--	
	NOTE: Points must be taken in 503.5(1) in order to receive points for 801.7.4(3). If points claimed for 801.7.4(3), points cannot be claimed for 801.7.1, 801.7.2, or 801.7.3.					
801.8	Rainwater collection and distribution. Rainwater collection and distribution is provided. Claim points for all that apply from (1)-(2) below:					
(1)	Rainwater is collected and used.	6		None.	See Products	
(2)	Rainwater is distributed using a renewable energy source or gravity.	2				
801.9	Water filters. Water filter is installed to improve water quality for the whole building or whole dwelling unit.	1		None.	--	
802 - Innovative Practices						
802.1	Gray water. Gray water, as specified in ICC IRC, Appendix O, is separated and reused, as permitted by local building code. Claim points for only one of (1)-(2) below:					
(1)	Enter number of water closets flushed by reclaimed or recycled water: <input type="text"/> (4 points per fixture)	4 points per fixture	0	None.	See Products	
(2)	Irrigation from reclaimed or recycled water on-site.	10				
802.2	Composting or waterless toilets and/or urinals. See 801.6.					
802.3	Automatic shutoff water devices. One of following automatic shutoff water supply devices is installed. Where a fire sprinkler system is present, installer is to ensure the device will not interfere with the operation of the fire sprinkler system. Claim points for only one from (1)-(2) below:			When fire sprinkler system present, provide installer's certification that shutoff does not interfere with sprinklers.	--	
(1)	Excess water flow shutoff.	2				
(2)	Leak detection system.	2				