

Florida Water StarSM Residential Silver Criteria

Qualifications Points List



Florida Water StarSM Silver

Program and Checklist Description

This program for new and existing single-family residential construction provides water-efficient options for houses and landscapes. Florida Water StarSM is a service mark of the St. Johns River Water Management District (SJRWMD) of Florida.

This checklist should be used to determine whether all prerequisites have been met and sufficient points have been achieved to merit Florida Water StarSM certification. For more specific details about the criteria described here please refer to the Florida Water StarSM Residential Silver Technical Manual.

New and Existing House Requirements

To achieve Florida Water StarSM certification for single-family residential housing:

- 1) All prerequisites must be met and validated by a Florida Water StarSM certifier.
- 2) The minimum points achieved shall total 90, with minimum points per category totaling:
 - Landscape = 35 points
 - Irrigation = 35 points
 - Indoor = 20 points

General Information

General Information			
Builder Information		House Information	
Name		Owner name	
Company		Address	
Address		City/county	
City/county		Owner phone	
Phone		Owner fax	
Fax		Owner e-mail	
E-mail		Number of intended occupants	

Required Submissions

	Yes	No
Certificate of occupancy		
Landscape design		
Irrigation design		
Schedule of indoor fixtures and appliances, including performance specifications		

Landscape

Prerequisites

All state, county and municipal codes must be met and will supercede items in the prerequisites or points list.

		Yes	No
LS PR 1	Root balls are at least 2.5 feet on center from the foundation of structure.		
LS PR 2	For in-ground irrigation systems, turf grass and landscape bed areas are distinctly separate.		
LS PR 3	High-volume irrigated areas shall not exceed 60% of total irrigated landscape.		
LS PR 4	No invasive plant species are on-site. Invasive plants are defined as those identified by the Florida Department of Agriculture and Consumer Services (FDACS) http://doacs.state.fl.us/~pi , the U.S. Department of Agriculture (USDA) National Invasive Species List http://www.aphis.usda.gov/ppq/ , the Florida Exotic Pest Plant Council Category One list http://fleppc.org/ and the IFAS Assessment of Non-Native Plants in Florida's Natural Areas http://plants.ifas.ufl.edu/assessment/		
Points (Minimum points required — 35)			
		Points possible	Points earned
LS PT 1	20% or more of the lot area covered by existing, trees, shrubs and ground covers (not including conservation easements) is preserved.	10	
	10% or more of the lot area covered by existing, trees, shrubs and ground covers (not including conservation easements) is preserved.	5	
LS PT 2	Three or more existing trees greater than 4 inches in diameter at breast height (dbh) are preserved.	10	
LS PT 3	Plant selections are compatible with site-specific growing conditions such as light requirements, soil types, and salinity.	Up to 15	
LS PT 4	Plants are grouped with similar moisture and maintenance requirements.	Up to 15	
LS PT 5	Areas traditionally planted with turf grass and irrigated by an in-ground system are replaced with drought-tolerant turf grass or ground cover .*	Up to 20	
LS PT 6	Turf grass area is less than 50% of the total landscaped area.	5	
	Turf grass area is less than 40% of the total landscaped area.	10	
LS PT 7	Landscape beds have no permanent in-ground irrigation system.	Up to 25	
LS PT 8	Planted trees will provide shade to 30% of landscaped area at maturity.	10	
LS PT 9	Innovative landscape water conservation is used.	Up to 10	
TOTAL		125+	

* Note: Currently, the only drought-tolerant turf grass that is acceptable for this point item is Bahia grass.

Irrigation

Prerequisites

All state, county and municipal codes must be met and will supercede items in the prerequisites or points list.

		Yes	No
IR PR 1	Irrigation zones for turf grass and landscape beds are separate.		
IR PR 2	High-volume irrigation does not irrigate more than 60% of the total irrigated landscape.		
IR PR 3	Irrigated areas less than 4 feet wide are irrigated with correctly installed micro-irrigation.		
IR PR 4	Sprinklers and emitters are located at a minimum of 2 feet from structures.		
IR PR 5	Irrigation system is free from leaks.		
IR PR 6	Pipes are sized to prevent velocities greater than 5 feet per second.		
IR PR 7	Application rates for all sprinklers and emitters within a zone are matched.		
IR PR 8	Head spacing does not exceed 90% of the nozzle throw radius.		
IR PR 9	Pop-up sprinkler heads rise above turf grass height <ul style="list-style-type: none"> • 6 inches for St. Augustine, Zoysia and Bahia grasses • 3 inches for centipede, Bermuda and seashore paspalum 		
IR PR 10	Application occurs in proper spray patterns, minimizing overspray on impervious surfaces.		
IR PR 11	Sprinklers in low-lying areas have check valves.		
IR PR 12	A device with rain shut-off capabilities is installed in an operable location and is functioning.		
IR PR 13	Each of the following items is installed adjacent to controller:		
	– Controller handbook/operating instructions		
	– Zone diagram		
	– Specific zone application rates and maintenance run times		
IR PR 14	The irrigation schedule for maintenance does not exceed 21 gallons (34 inches) per ft ² annually and the controller is set in compliance with water restrictions.		

Irrigation, continued

Points (Minimum points required — 35)

		Points Possible	Points Earned
IR PT 1	Micro-irrigation is correctly installed.	Up to 25	
IR PT 2	High-volume irrigation covers 30% or less of the irrigated landscape area.	20	
	High-volume irrigation covers 31–40% of the irrigated landscape area.	15	
	High-volume irrigation covers 41–50% of the irrigated landscape area.	10	
IR PT 3	All spray heads are pressure regulated.	10	
IR PT 4	Pressure-regulating valves control all spray zones.	5	
IR PT 5	An in-line pressure regulator limiting pressure to 65 psi or less is installed upstream of all zone valves.	5	
IR PT 6	Soil moisture sensor (SMS) controller with one SMS probe is properly installed, using burial grade connectors in the valve box, and is correctly functioning.	15	
	SMS controller with multiple SMS probes is properly installed, using burial grade connectors in the valve box, and is correctly functioning.	20	
IR PT 7	ET (evapotranspiration), smart, or weather-based controller is properly installed, programmed, and functioning.	15	
IR PT 8	Leak detection shut-off system is installed.	5	
IR PT 9	Nonpotable water source used for irrigation, not including any type of well.	5	
IR PT 10	Landscape has no permanent in-ground irrigation system.	75	
IR PT 11	At least 75% of the landscaped area has no in-ground irrigation system	30	
	At least 50% of the landscaped area has no in-ground irrigation system	25	
	At least 25% of the landscaped area has no in-ground irrigation system	20	
IR PT 12	In-ground irrigation is supplied entirely by rainfall harvesting system.	75	
IR PT 13	Innovative irrigation water conservation is used.	Up to 20	
TOTAL		200+	

Indoor

Prerequisite

All state, county and municipal codes must be met and will supercede items in the prerequisite or points list.

		Yes	No
IN PR 1	All appliance water supply connections are reinforced.		
Points (Minimum points required — 20)			
		Points Possible	Points Earned
IN PT 1	All water lines in nonconditioned spaces are insulated.	2	
	All heated water lines in conditioned spaces are insulated.	2	
Bathroom Fixtures			
IN PT 2	All toilets are high-efficiency, 1.28 gallons/flush, with a UNAR MaP rating above 350 grams per flush, or all toilets are WaterSense-labeled.	8	
IN PT 3	Dual-flush toilet (maximum 1.28 gallons/flush) with a UNAR MaP rating above 350 grams per flush, or WaterSense-labeled.	2 each	
IN PT 4	A quarter turn or push-pull valve is used for all toilet supply lines.	1	
IN PT 5	Single showerhead with flow rate less than 2.5 gallons/minute (gpm) or WaterSense-labeled.	3 each	
IN PT 6	Multiple showerheads in single shower stall used simultaneously.	– 5 each	
IN PT 7	All lavatory sink faucets have flow rates less than 1.6 gallons/minute or WaterSense-labeled.	4	
Appliances and Water Heaters			
IN PT 8	A quarter turn or push-pull valve is used for all appliance supply lines.	1	
IN PT 9	Dishwasher uses less than 6.5 gallons per cycle.	3	
IN PT 10	Clothes washer has water factor of 6 gallons or less.	15	
IN PT 11	A point-of-use or on-demand water heater supplies the kitchen sink.	6	
	A point-of-use or on-demand water heater supplies the dishwasher.	2	
IN PT 12	Innovative indoor water conservation is used.	Up to 10	
TOTAL		50+	

Total Point Summary

	Possible Points	Points Required	Points Earned
Landscape	125+	35	
Irrigation	200+	35	
Indoors	50+	20	
Total Points	375+	90	