

Affordable Solar Lighting and Water Efficiency Specifications

Contractors must inspect the home and confirm the presence of high-efficiency lighting and water efficiency measures (for residences with electric water heaters). As needed to meet this requirement, installation of LEDs and low-flow aerators must be in accordance with the NYSERDA Materials and Installation Guidelines, as summarized below:

LIGHT-EMITTING DIODES (LEDS)

Material

1. Replacement LEDs must be ENERGY STAR ® rated
2. Replacement LEDs must be of comparable or higher luminescence to existing lighting.
3. LEDs must be operable in enclosed lighting fixtures.
4. If installed outdoor, operable in year round exterior temperature conditions.
5. All socket extenders installed must be UL listed.

Installation

1. A customer-guided identification of the highest-use bulb areas must be performed before installing any LEDs. Bulbs must be determined to have at least a **two hour per day** burn time to be considered high-use.
2. Customer permission must be gained before any bulb is installed in the home.
3. Do not install bulbs in complicated, valuable or fragile light fixtures, if you are not confident that you can do so safely and without breaking it. In those situations ask the homeowner for assistance as they must have experience changing them.
4. If the circuit is controlled by a dimmer, dimmable LEDs must be installed.

FAUCET AERATORS

Material

1. Flip faucet aerators must have a maximum rated flow of 2.0 gpm and are intended for kitchen installations.
2. Standard aerators must have a maximum rated flow of 1.0-1.5 gpm and are intended for bathroom sink faucet installations.
3. Flow rating of existing aerators must be higher than the replacement aerators.

Installation

1. Remove the old aerator by turning in a counter clockwise direction.
2. While no aerator is installed run the water for a few seconds to flush out debris.
3. Cut a six to eight inch length of new Teflon tape and wrap it around the threads of the new aerator. Be sure to wrap the tape in a clockwise direction. The tape must be minimally visible and neatly installed with no dangling or frayed edges.
4. Screw the new aerator into place finger tight and then further tighten a half turn with slip joint pliers/channel locks. Use a rubber patch to prevent damage to the new aerator's finish.
5. Turn on the faucet and check for leaks.
6. Check that the lever works correctly on the flip aerator and that the increased back pressure caused by stopping flow through the aerator with the lever does not cause the seal between the faucet and the aerator to leak.
7. As part of customer education, the homeowner must be shown how the flip works and given a few suggestions as to when it would be a useful feature.

SHOWERHEADS

Material

1. Showerheads must have a maximum flow rating of 1.5 gpm.
2. Flow rating of existing shower head must be higher than the replacement shower head.

Installation

1. Inspect the existing pipe connector section for weakness due to corrosion and do not change if pipe is obviously weakened.
2. Grasp the pipe connector firmly and use slip joint pliers/channel locks to remove existing showerhead.
3. Do not use excessive force, the installer or installing company is financially liable for repairs.
4. Clean the threads of the pipe connector to remove old Teflon tape or plumbing putty.
5. Cut a six to eight inch length of new Teflon tape and wrap it around the threads of the pipe connector. Be sure to wrap the tape in a clockwise direction. Installed tape must be neat with no dangling or frayed edges showing.
6. Hand-tighten the new showerhead into place on the pipe connector.
7. Use a rubber patch to protect the showerhead from the teeth of the slip joint pliers when tightening the shower head.
8. Do not over tighten, the Teflon tape will make the water tight seal without forcing the shower head on too tight.
9. Turn on the shower and inspect for leaks. The water stream must be even and flow straight from the showerhead.



NY-Sun