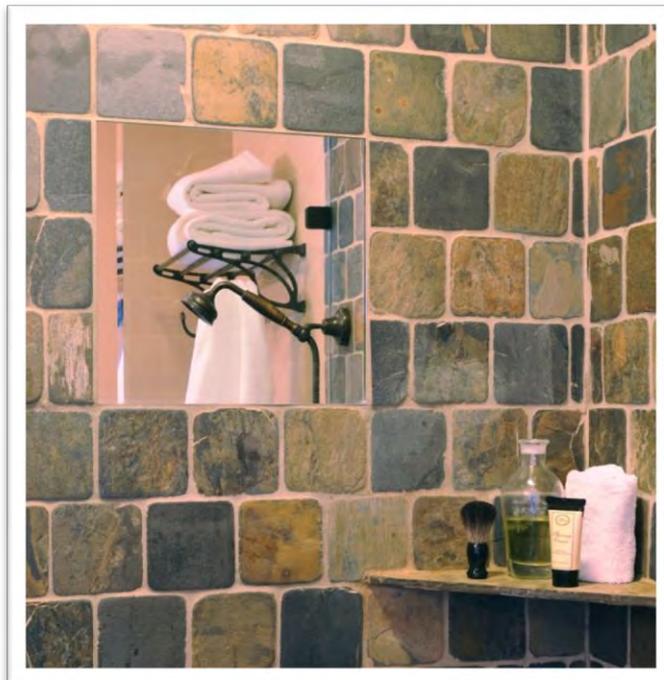


NewHome Bath & Mirror

# Shower ClearMirror Installation Instructions

ClearMirror™-Brand Mirror Defogger Systems  
October 2012



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# Shower ClearMirror Installation Instructions

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*The Shower ClearMirror™ is UL/C-UL listed, tested to CSA standards and certified for use in New York City by the Bureau of Electrical Control. It is designed to be powered by a switched outlet and activated when the bathroom light or fan is switched on.*

Only wire the Shower ClearMirror to an appropriate 24-volt AC power supply (included). Install junction box by a qualified electrician and follow the National Electrical Code or local codes, as applicable. All wiring between the mirror heater and the bathroom light junction boxes must be installed per the local and national electrical codes using a wiring system identified by the National Electrical Code. Consult local authorities for variation in installation. Install in accordance to these instructions. If doubts arise, consult a qualified electrician.

## General Guidelines

- Do not install on **un-insulated** exterior walls in cold climate areas.
- Do not install if product is damaged.
- Do not bend, cut, alter, submerge in water, or use product for purposes other than described.
- Transformer must be positioned in a dry location outside the shower.
- Mirror must be caulked or grouted into tile, flush with the tile surface. Edges of the mirror cannot be exposed to touch.
- Use caution with all electrical appliances.
- Failure to follow instructions could result in severe shock, injury or death.



### NOTICE

Consult the NEC, Article 551 for rec. vehicle installation.

## Observe Electrical Load Requirements

Use only the low-voltage class-2 24-volt AC transformer supplied. If you do not, consult a qualified electrician to determine load and rating of power supply needed.

Determine if wall switch is suitably rated for the combined maximum lighting needs and ClearMirror heater-type loads.



### NOTICE

New receptacles must be installed by a qualified electrician and shall follow the National Electrical Code or local codes, as applicable.



### WARNING

Use proper transformer with specific product size:

16104-121224M: 12"x12" mirror. 10"x10" pad. 24V20 VA transformer

16104-161624M: 16"x16" mirror. 14"x14" pad. 24V40 VA transformer

16104-181824M: 18"x18" mirror. 16"x16" pad. 24V50 VA transformer



### CAUTION

Total amperage must not exceed rating of wall switch (i.e. 15-amp switch), circuit or existing wiring.

Determine if wall switch and power supply (supplied) is suitably rated for the combined load. The Shower ClearMirror should be activated by a switched outlet. You may decide to connect it to the exhaust fan or overhead light to ensure it is turned off when not in use.



### NOTICE

Use minimum 18-gauge wire from transformer to Shower ClearMirror connection.



### WARNING

Transformer must be placed in a dry location outside of the shower.

## Measure for Shower ClearMirror Installation

1. Before installing wall board or ceramic tile, measure for desired Shower ClearMirror height from the finished shower floor.
2. Mark the location for the junction box installation.



### NOTICE

Position the junction box behind the black heater leads so connections are stowed in the junction box.



### WARNING

Turn off the power to the circuit connected to the heater at the disconnect means. Failure to do so could result in death or serious injury.

# Shower ClearMirror Installation Instructions

## Junction Box and Wiring

1. Run power supply wires from the provided low-voltage transformer to the junction box location. Power supply wires are run behind the wall (see Figure 1).

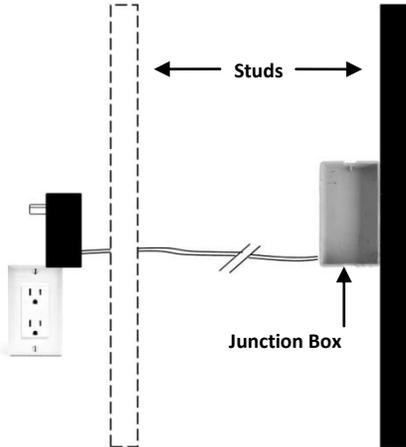


Figure 1. Locating the junction box and running low-voltage wires from the transformer (front view).

### ! NOTICE

Junction box needs to be accessible per all applicable safety, local, and national electrical codes. Access to the junction box is gained by removing the mirror.

2. Install junction box according to the manufacturer's instructions (see Figure 1).
3. Install wallboard and make cut out with drywall saw or router for access to the junction box.

## Mounting the Shower ClearMirror

1. Tape the corrugated template (provided) in the desired location over the junction box.
2. Install tile to the edge of the template.

### ! NOTICE

Template is approximately  $\frac{1}{8}$ " larger than the mirror to allow room to caulk or grout the mirror into the tile.

3. Run the low-voltage power wires from the transformer to the junction box.
4. Connect power supply wires the wire leads on the mirror with wire connectors (see Figure 2).
5. Position the connectors and wire leads in the junction box.

### ! NOTICE

Do not let the mirror hang from the connected wires. Doing so will damage the mirror and will void your warranty.

6. Apply a small amount of mirror mastic to the backside of the mirror. Only apply mastic on the backside outside edges. Do not apply mastic on the heating pads.
7. Place mirror into the opening keeping a  $\frac{1}{8}$ -inch border around the entire mirror (see Figure 2).

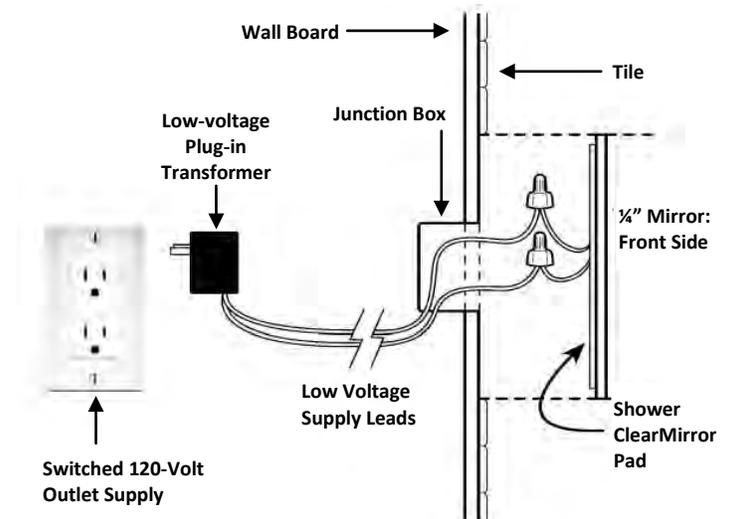


Figure 2. Running the power wires and mounting the mirror to the wall board (side view).

8. Caulk or grout around the edges. Tape or brace the mirror in place until the mastic and caulk or grout is set-up and secure.



Figure 3. Grout around the mirror to seal and finish.

### ! NOTICE

Silicone-based adhesives and caulks may harm mirror silvering. Use only approved mirror mastics on the back side of the mirror.

# Shower ClearMirror Installation Instructions

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## **WARNING**

Mirror must be caulked or grouted into tile complete and flush with the tile surface. Back edge of mirror cannot be exposed to touch.

Failure to do so could result in severe shock, injury or death.

## **Expectations and Care Instructions**

- Never use ammonia-based cleaners on or around the mirror. Ammonia is the major cause of mirror “black edge”.
- Harsh abrasives and tile scrubs may scratch the mirror surface.
- In wet environments all mirrors will show damage over time. Caulked and grouted edges must be kept in good repair to keep moisture from the back side of the mirror. Mirror deterioration is not a “manufacturer defect” and will not be covered under warranty.
- For best defogging results, allow 3 to 5 minutes for mirror to warm up prior to turning on the shower or the steam generator.

## **Mirror Mastics Adhesives**

Use only mirror mastic adhesive on the back side of the mirror. Available in caulk gun tubes at hardware stores and home improvement stores. Do not use any other adhesive on the back side of the mirror as it will damage the silvering.

## **Warranty Information**

NewHome Bath & Mirror, Inc. and its affiliates will not warranty the labor or material costs for installation, replacement or use of Shower ClearMirror when operated in an application that is lower than 50° F.

NewHome Bath & Mirror, Inc. and its suppliers cannot be held responsible for damage caused by improper installation. These installation instructions are to be used as a guide only while meeting all applicable building codes. Consult a professional installer if you have any questions.

The Shower ClearMirror is guaranteed for a 5-year replacement against defects in manufacturing. Contact your installer for issues relating to installation and replacement. The guarantee is void without proper registration, installation, or if product is altered in any way.