



## 1. Observe Electrical Load Requirements

- You must use the low voltage class 2 24V transformer supplied. If you do not, you must discuss with a qualified electrician to determine load and rating of power supply needed.



**Warning:** Make sure proper transformer used with specific product size.


16104-121224M - 12" x 12" mirror - 10" x 10" pad - 24VAC 20 VA transformer  
16104-161624M - 16" x 16" mirror - 14" x 14" pad - 24VAC 40 VA transformer  
16104-181824M - 18" x 18" mirror - 16" x 16" pad - 24VAC 50 VA transformer


- Determine if wall switch is suitably rated for the combined maximum lighting needs and ClearMirror™ heater type loads.
  -  **Caution:** Total amperage must not exceed rating of wall switch (i.e. 15-amp switch), circuit or existing wiring.
  -  If load exceeds wall switch's ampere rating, install one with a suitable rating, or provide ClearMirror™ with its own switch.
- Ensure wall switch and power supply (if not supplied by ClearMirror) is suitably rated for the combined load. It is recommended that the Shower ClearMirror™ be activated by the overhead shower light to ensure it is turned off when not in use.
- Use minimum 18 gage wire from transformer to ClearMirror.™

 **Warning:** Transformer must be placed in dry location outside the shower.

## 2. Measure for Shower ClearMirror™ Installation

- Before installing wall board or ceramic tile, measure for desired ClearMirror™ height from the finished shower floor.
- Mark a point 6" below the mirror's top edge for installation of junction box.

 **Note:** Center junction box directly behind the heater connectors so they can be stowed in the junction box.

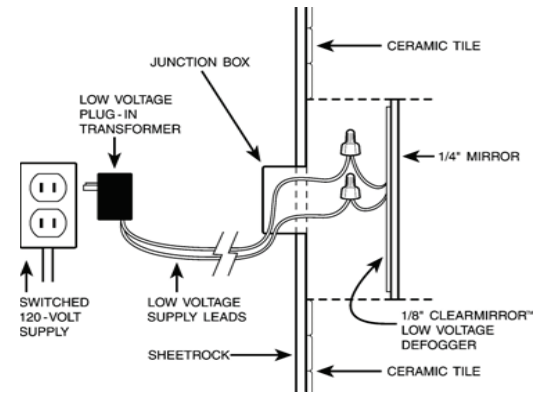
 **Warning:** Be sure the power to the circuit to which the heater is to be connected is turned off at the disconnect means.

## 3. Junction Box and Wiring Installation

- Run power supply wires from the provided low voltage transformer to the center of the ClearMirror™ junction box location.
- Install wallboard and make cut-out with drywall saw or router for junction box.

- Install junction box according to junction box manufacturer's instructions.
- Junction box needs to be accessible per all applicable safety, local and national electrical codes.

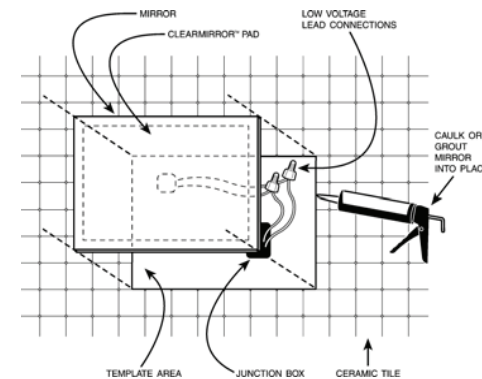
## 4. Mount Shower ClearMirror™



- Tape ClearMirror™ foam template (provided) squarely over junction box.
- Install ceramic tile to edge of template. **Note:** Template is approximately 1/4" larger than mirror so there is room to caulk/grout mirror into tile.
- Wire connect power supply to mirror leads using 18 gage wire.
- Apply small amount of mirror mastic to the backside of mirror only (not on heater) and place mirror into its opening, pushing all connectors into receptacle and caulk/grout around edges.



**Note:** Tape or brace mirror in place until mastic and caulk/grout set-up is secure.



**Warning:** Mirror must be caulked or grouted into tile complete and flush with tile surface. Back edge of mirror cannot be exposed to touch. Failure to do so could result in severe shock, injury or death if not installed correctly.

## Expectations and Care Instructions

Please follow the following guidelines for your Shower ClearMirror™:

- Silicone based adhesives and caulks may harm mirror silvering. Use only approved mirror mastics on back side of mirror.
- Never use ammonia based cleaners on or around the mirror. Ammonia is the major cause of mirror 'black edge'. In addition to the high quality silvering of the mirror, a mirror edge sealant was added that will act as an additional barrier to moisture but not to damaging chemicals.
- Harsh abrasives and tile scrubs may scratch mirror surface.
- In wet environments all mirrors will show damage over time. Because deterioration to mirrors is not a 'defect in manufacturing' NewHome Bath and Mirror, Inc. will not warranty mirrors. Keep caulked or grouted edge in good repair.
- For best defogging results, allow a few minutes for mirror to warm up prior to turning on the shower or steam generator. The defogger is excellent at preventing steam-up.

NewHome Bath and Mirror, Inc. and its affiliates will not warranty the labor or material costs for installation, replacement or use of a ClearMirror® product, mirror or other affected items when installed on the inside of exterior walls or when room temperatures on either side of the application wall is or becomes lower than 50 degrees Fahrenheit. This disclosure applies to all residential and commercial applications.

NewHome Bath and Mirror, Inc. and its suppliers cannot be held responsible for damage caused by improper installation. These installation directions are to be used as a guide only while meeting all applicable building codes. Consult professional installation 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 alteration occurs in any form. See warranty for complete details.

\* Wired to a separate circuit other than the overhead power supply are acceptable methods for installation if all wiring between mirror heater and the power source are installed per the local and national electrical codes using a wiring system identified by the National Electrical Code.

Visit [www.clearmirror.com](http://www.clearmirror.com) for the most recent installation instructions or call 651-714-2362.



## The Shower\* ClearMirror™ 24-volt AC



another innovation from...NEWHOME BATH AND MIRROR, INC.

## Installation Directions

The Shower ClearMirror™ (pat.) is UL and 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 whenever the bathroom light or fan switch is on.

Tools needed: Two wire nuts, low-voltage junction box, utility knife, wire strippers, screwdriver, tape measure, drywall saw or router, electrical tape, mirror mastic, water-based caulk and 18 ga. wire of length required to complete installation.

Only wire the Shower ClearMirror™ heating pad to an appropriate 24-volt AC power supply (transformer included). Install to a junction box in accordance with all applicable safety, national and local electrical codes. 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 with these instructions. If doubts concerning the electrical connection arise, consult a qualified electrician.

- Avoid installation on exterior walls.
- Do not install if product is damaged.
- Do not bend, cut, alter, submerge in water, or use product for purposes other than described.
- Mirror must be larger than ClearMirror™ heater.
- Transformer must be placed in dry location outside the shower.
- Mirror must be caulked or grouted into tile complete and flush with tile surface. Back edge of mirror cannot be exposed to touch.
- Use caution with all electrical appliances.
- Failure to follow instructions could result in severe shock, injury or death.

**Note:** The following installation instructions assume a vertical installation of a 12"x12" mirror. For other Shower ClearMirror™ sizes adjust the dimensions for installation accordingly.

**Note:** Consult the NEC, Article 551 for recreational vehicle installation.

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