

Installation Guide Eleven Illuminated Mirror

by

 Clearlight Designs®



Installation Instructions

Failure to follow installation instructions could result in serious injury, or damage to property.

Failure to follow installation instructions will void warranty.

Please read these instructions carefully before installation to make sure you have all you need, and to understand what you will be doing during all phases of the handling, installation, removal, operation and maintenance of this product. Failure to comply with these precautions violates safety standards of design, manufacture and intended use of the product.

Clearlight Designs assumes no liability for customer's failure to comply with these requirements.

Installation must only be carried out by a licensed electrician or builder according to local authority regulations.

All electrical works must only be undertaken after disconnection of power by removing fuses or turning off circuit breaker, to ensure all pole isolation of the electrical supply.

IMPORTANT!

Installation must only be carried out by a licensed electrician or builder according to local authority regulations.

Do not remove protective film or plastic corners until your mirror is installed
Move mirrors SLOWLY. Plan what you are doing.

Handling Tips

- Always place the mirror on a soft surface e.g. carpet or folded towels. The edge of the mirror will almost certainly chip if placed on a stone or tiles or hard surface.
- If the mirror has to be removed from the wall re-fit the protective corners before moving. (Don't learn this the hard way)
- Do not touch the frosted glass strips on the back of the mirror. You may end up with the extra task of cleaning off your fingerprints.
- Mirrors are heavy and fragile. Always lift with two people to share the load. Move slowly and carefully, plan and discuss what you are going to do.

Before fitting the lightbox to the wall or wiring for power connection:

You will need to know the location of:

- the wall studs
- water pipes
- electrical cables

Consult your plans and have a licensed electrician install electrical requirements for your mirror in accordance with this installation guide.

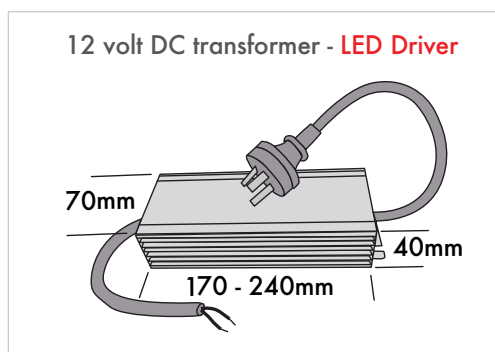
Electrical installation

A light switch to operate the mirror should be installed, on the wall or other convenient location, by a licensed electrician. If a de-mister is fitted to the mirror you will need two cables through the wall. The Demister and LEDs can be operated by the same switch or different switches.

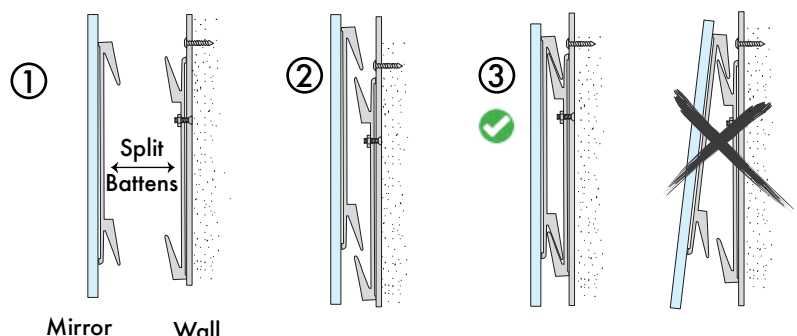
The switch/es connect to a power outlet for the driver/s. To ensure easy access the driver/s can be located in the vanity cupboard under the mirror, or in the ceiling.

It is not recommended to locate the driver/s in the wall cavity behind the mirror as the mirror would have to be removed to change out a driver if necessary.

From the driver a low voltage cable will run inside the wall to protrude at the approximate centre of the mirror mounting structure, ready for connection to the LEDs (and de-mister if applicable).



Internal side-view of how the Split battens install works



STEP 1 - Fitting the lightbox to the wall:

The lightbox structure is to be installed using minimum 8 gauge button head screws, 40mm length, combined with the appropriate wall plugs or expanding wall anchors depending on the type of wall and wall cladding.

If the lightbox structure intersects with wall stud even better, just drill another hole/s along the dashed 'drill line' you will see above each split batten and screw through into wall studs.

Do not screw in the area painted white.

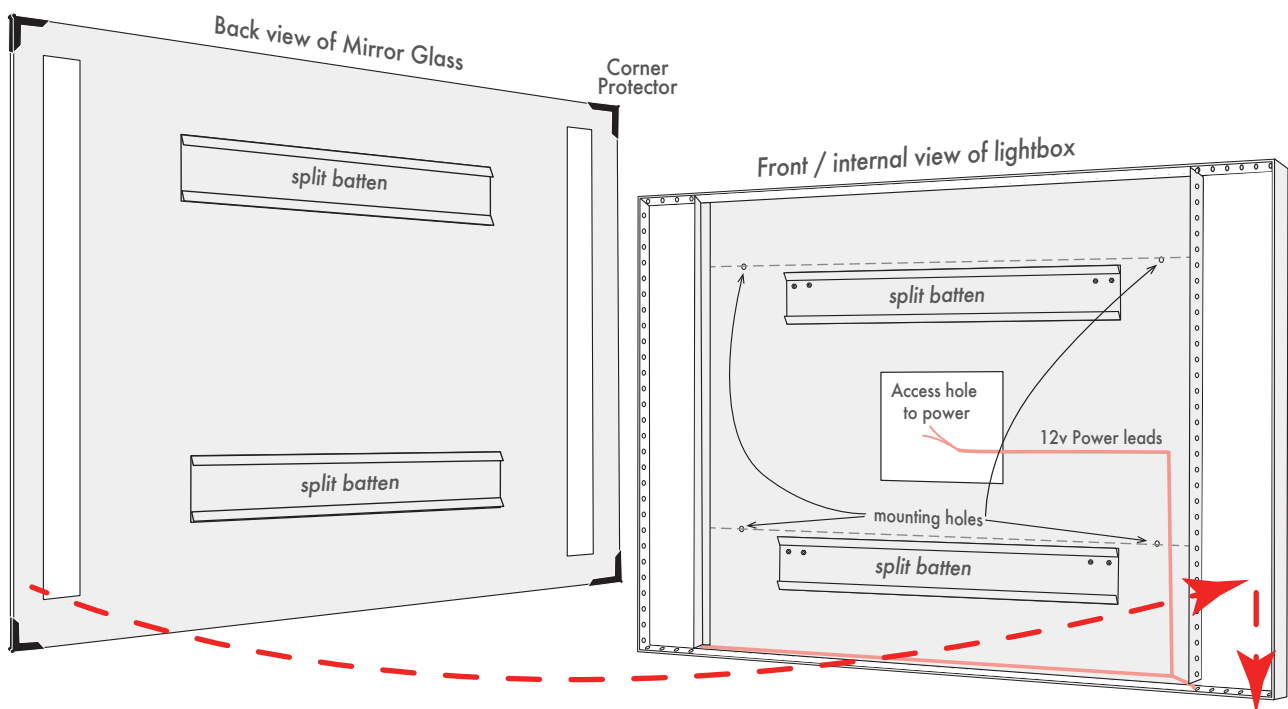
Do not drill through the split battens as this may result in bending them out of alignment when screwed to the wall.

Large mirrors (around 2 square metres) will have additional holes in the Lightbox for extra load bearing screws.

As a guide, the mirrors weigh approximately 20kg to 25kg per square metre.

Start by plotting the planned position of the mirror on the wall:

- Draw a pencil line on the wall, at the intended height of the top of the mirror, and mark the location of the top corners.
- Draw a line 15mm below that line - this line is top of lightbox (The mirror sits 15mm clear of the lightbox on all 4 sides.)
- Mark the location of the lightbox top corners - 15mm down from the top of the mirror and 15mm in from each side. Then mark the lightbox bottom corners 15mm up from the bottom of the mirror and 15mm in from each side.
- If there is no vanity cupboard in front of the lightbox use a table or similar. Place wooden blocks on the top of the vanity and stack them up until they reach the points indicating the bottom corners of the lightbox
- Place the lightbox against the wall on the blocks, check for level, then mark drilling points through the mounting holes.
- Place the lightbox aside and drill the holes in the wall, then fit wall plugs or expanding wall anchors.
- Screw lightbox to the wall.



STEP 2 - Connecting the mirror lights to power

Connect lights to power:

- With the lightbox securely in place you are ready to connect the lights with insulated cable joiners. Join the positive and negative cables from the lights to the respective cables of the driver. You can now test the light switch.

Connect de-mister to power:

If the mirror has no de-mister go to Step 3 - "Hanging the mirror on the lightbox".

- If the mirror is fitted with a de-mister – first make sure the mirror glass is the right way up.

NOTE : When lifting the mirror be careful not to touch the frosted strips as this is likely to leave fingerprints you will have to clean off.

- Lift the mirror into place in front of the lightbox on the vanity or other support - make sure you have some folded towels or padding to rest it on. Leave enough room between the lightbox and the mirror to allow you to reach in to connect the cables.. Have someone hold it steady in position.
- Using insulated cable joiners connect the 12v DC positive and negative wires from the demister to the corresponding wires from the driver.

STEP 3 - Hanging the mirror on the lightbox

- Make sure the demister cables are clear of the split battens so they won't get caught up when the split battens engage. This can be done by feeding the cables back into the wall cavity, or tape the cables to the lightbox.
- Carefully lift the mirror into position, centred directly in front of the lightbox,
- Position the bottom edge of the mirror about 5 to 10mm higher than the bottom of the lightbox and centred. This lines up the split battens so they are ready to engage.
- Now apply light pressure to push the mirror against the lightbox. In this position the split battens inside the mirror will be ready to engage as the mirror slides down. First, check that the mirror is flat against the lightbox and level and centred.
- Slide the mirror down against the front of the lightbox. Don't let go of the mirror until you are certain it is flat against the lightbox and secure.
- This final movement engages the split battens. Check sides to make sure mirror is centred. If the mirror is not centred, lift mirror very slightly so it can slide left or right until centred.
- Press down firmly on the top of the mirror to so the split battens grip each other.

STEP 4 - Removing the protection

When the mirror is securely in place. Remove corner protectors and carefully peel the protective plastic coating from the front of the mirror glass, starting at the top and slowly peel down.

Care and Cleaning

On the edge of every the mirror there is a thin line of silver that is exposed to the air. Silver will tarnish eventually and the tarnish may spread under the paint. The mirrors we use employ the latest and best paint technology to prevent this. In order to protect your mirror even more we apply an edge sealer.

Cleaning the edge of the mirror with commercial cleaners is unnecessary and may eventually damage that edge seal. To clean the mirror edge all you need is a quick wipe down with a soft cloth dampened with distilled water.

DO NOT USE CLEANERS ON THE EDGE OR BACK OF THE MIRROR. Even air born chemicals e.g. toilet flush chemicals, are known to tarnish mirror,

When cleaning a mirror simply wipe the glass surface with a few drops of methylated spirits or Isopropyl Alcohol on a clean slightly damp cotton cloth. We have found the Isopropyl Alcohol is the best for cleaning mirrors.

Do not use cleaners containing ammonia, or bleach, this will void warranty
Some paper towels may leave a smear.