

Switchable Film

Installation Guide



INTELLIGENT GLASS

Equipment Required



- Self adhesive Switchable Film
- Window scraper / blade
- Hard rubber roller
- Soft edge squeegee
- Nitrile protective gloves
- Cleaning cloths
- Liquid glass polish
- IPA / Soft cloths
- 1.5mm electrical cable
- Cable strippers
- Soldering iron / solder
- Scissors / sharp blade
- Dow Corning silicone (7091)
- Plastic cover trim / clear double sided tape

PLEASE NOTE

- Switchable Film is a dry install application. Please do NOT use water under any circumstances other than for cleaning the glass.
- We recommend the outer dimensions of the self adhesive Switchable film are 2 - 3mm shorter than the visual area of the glass.
- The bus bar (electrical contact strip) should never come into contact with any metal frame / trim.

Preparation is the key to a successful install.



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Step 1



Place the film in a safe clean place, preferably on a table.

Step 2



Make sure the cling surface is facing up.



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Step 3



Spray the glass with liquid glass polish and use a window scraper or blade to remove any dirt / blemishes from the glass surface.

Repeat this procedure until you are happy the surface is smooth.

Step 4



Spray the glass with liquid glass polish and clean with a soft lint-free cloth. Repeat this process until you are sure that the surface is completely clean.



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Step 5



Using a lint free cloth, wipe the glass surface with IPA (Isopropyl Alcohol) and leave to evaporate.

Step 6



Wipe down the protective liner on the cling side of the self adhesive Switchable Film to remove any dust.

Step 7



Using the edge tab of the label remove the first 100mm (4") of the protective liner covering the cling side on the bus-bar edge. Make sure that you do this in a clean dust free environment.

Step 8



Align the bus-bar edge of the self adhesive Switchable Film with the top edge of the glass. When in position run your finger along the bus-bar to fix the top edge (the adhesive strip will hold the film in position).



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Step 9



Gradually pull away the protective liner and allow the film to slowly adhere to the glass surface under its own pressure. Using the roller move down the film working in horizontal lines left to right to disperse any air bubbles. If any small bubbles are visible, carefully lift the film and let it sit back down under its own pressure.

Step 10



Repeat the above process until you have a bubble-free installation.

Step 11



Use the soft edge squeegee to work any small bubbles and the edges of the film. Please note that if any edges are lifting slightly these will relax down once the protective liner is removed.

Step 12



Once the film is installed on the glass you can then start work on wiring the bus-bar. Carefully solder the electrical cable to the mesh tags. There are two tags on the left hand side and two tags on the right hand side. Solder a cable to one tag on the left (positive connection) and one tag on the right (negative connection). The other tags are only there as spares. At this stage it would be good to connect the cables to a switch / transformer and test the switching from frosted to clear. Once you have tested the switching you can then trim off the spare mesh tags.



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Step 13



You can now lift the tag and carefully remove the protective liner.

Step 14



Run some clear double sided tape along the bus-bar edge to hold your electrical cables in place while you prepare the cover trim.



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Step 15



Use Dow Corning (7091) non-acid based silicone along the bus-bar edge to hold the protective cover trim in place. We recommend you use a plastic cover trim. If you wish to use a metal trim we would suggest that you consult an electrician.

Step 16



Your installation is now complete and you can clean the film using either liquid glass polish or IPA cleaner and a soft lint-free cloth. For most installations we would recommend that you use a cover trim on all edges of the film.

Step 17



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The end result.

