



**Safe handling**

**CAUTION - THIS PRODUCT IS A LIGHT SENSITIVE MATERIAL**

- Open protective black bag under subdued lighting conditions only. Do not expose undeveloped film to U.V. or direct sunlight at any time.
- Avoid exposure to bright artificial light sources, especially from fluorescent tubes as this will begin to expose the StencilPro™ film.
- Protect from excessive heat, freezing and high humidity.
- StencilPro™ film should be stored in an Opaque Storage Container (product code: EZI-OSC) away from heat and light sources.

- StencilPro film is non-toxic and safe to handle, however any persons with sensitive skin should use rubber gloves when handling the undeveloped film.
- The film can tolerate a few minutes of exposure to light levels found in typical homes as long as the film is kept a minimum of 1.5 Metres away from artificial light sources and is never exposed to direct sunlight.
- Minimize exposure to fluorescent tubes, as they expose more U.V. energy than incandescent bulbs.
- Illuminate work area using yellow bug lights (60Watts or less) if additional light/ working time is required.
- Fully developed stencils do not require protection from light.
- Avoid putting fingerprints on or scratching the surface of the film before exposure.

**Making Your Stencil**

**Gather your supplies**

StencilPro™ can be exposed using no extra materials at all, just sunlight and tap water, however for the best results your artwork should be printed on a clear transparency, an Exposure Frame should be used to tightly hold the artwork against the film during exposure and a timer should be used for correct exposure lengths.

We recommend you have on hand the following items when exposing and developing your films:

- StencilPro™ sheets or roll (sealed in protective bag)
- You artwork printed on a clear Transparency sheet - printed in a solid opaque black print
- Deluxe Exposure Frame - holds the artwork tightly against the film during exposure
- Opaque Storage Container - to protect unexposed film before use and hold water for developing
- EZIscreen Timer - ensures correct exposure length
- EZIscreen Brush - clean emulsion out of film after exposure
- Scissors to trim the artwork or film if required and paper towel for clean-up/ drying after exposure

**Expose your design**

Work in a dimly lit room, remember the film is light sensitive until after it has been exposed.

**1. Artwork**

Print, draw or copy your design onto a transparency film. Your artwork must be a solid opaque print, to stop the light from penetrating and hitting the film below during exposure.

*Velum or translucent paper may also be used. Do not use white copy paper as this is opaque and will stop all light, causing a large solid exposure of the film with no design.*

**2. Prepare Film**

If required, cut the film to size before use.

Place the film onto the Exposure Frame - either side of StencilPro™ may be used for exposure.

*StencilPro™ Sheets fit the Large Plastic Frame (product code: S-9101) without cutting. Cut sheet in half to fit Small Plastic Frame (product code: S-9100).*

**3. Expose**

Place your artwork transparency face down over the film in the Exposure Frame. Position the artwork and ensure there are no wrinkles/lumps/marks/etc. in either the film or artwork, as there must be a clean tight bond between the two for best results.

Place the clear side of the Exposure Frame over the artwork - check to ensure artwork is firm against film. *Cover immediately with the lid of the Opaque Storage Box to ensure the film does not begin to expose.*

Set your timer for the required exposure length then position the Exposure Frame under your light source. Remove the Opaque Storage Box Lid from the top to begin exposure.

When exposure time has been reached, immediately cover the design to stop further exposure.

Due to a number of variables that we can not control, exposure times in the following table should be used as a relative guide only. Variables such as age of fluorescent tubes and distance of film from light source will affect exposure times.

Artwork Type	Sunlight (direct no cloud)		Two 15W 18" Full Spectrum Fluorescent Tubes		Two 15W 18" Daylight Fluorescent Tubes		Two 15W 18" Cool White Fluorescent Tubes	
	Standard	HiRes	Standard	HiRes	Standard	HiRes	Standard	HiRes
Transparency	25 sec.	16 sec.	3 min.	2 min.	5 min.	3 min. 10 sec.	11 min.	8 min.

Note: Sunlight exposure times based on mid sunlight - increase by 5 seconds for mid winter.

It's important you experiment with a small test piece first and where possible use the same light source each time to perfect your times.

More exposure information, times and details are online - [www.EZIscreen.com/support](http://www.EZIscreen.com/support)

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**Exposure timetable guide**



[www.EZIscreen.com](http://www.EZIscreen.com)

## Develop your screen



### 4. Soak in water

Immediately after exposure, open the Exposure Frame and remove the transparency from the back of the film. Place the film into a container of water. The Opaque Storage Container is best for this process. Leave to soak for a minimum of 10 minutes. Longer soaking times will not hurt the film.

*Set your EZIscreen timer for 10 minutes to remind you.*

### 5. Rinse emulsion from film

After 10 minutes, swish the stencil in the water or wash out under a tap to remove the emulsion from the image area. Hold the film up to the light to check the entire image has washed off and the screen is exposed.

*Use the EZIscreen brush if necessary, rubbing gently to remove emulsion.*

*Do not use high pressure, tap pressure is sufficient to remove the emulsion.*

### 6. Final step - harden emulsion

After you have washed the emulsion out of the design area, dry the film using paper towel and re-expose to your light source to harden the film for a minimum of 5 minutes. This step must be performed and ensures your screen is hardened and resilient to water/solvent cleaning.

*Set your EZIscreen timer to remind you.*

## Mounting to a frame



## Screen printing technique

StencilPro™ films can be used in a variety of ways - mounted to a frame for screen printing or used freehand for stenciling, brushing, spraying and many other applications.

Details on mounting film and other applications can be found online - [www.EZIscreen.com/support](http://www.EZIscreen.com/support)

- Remove the tape from your frame and place on a flat surface with the tape facing upwards
- Place film, design facing down, onto the frame working from the middle outwards
- Attach the opposite side, working from the middle outwards to the edges
- Rotate frame and attach remaining two sides, working from the middle of the frame outwards
- Place Screen Masking Tape (code: T36) around the outside, covering both the edge of the mesh and overlapping onto the frame edge for extra adhesion.

If wrinkles are present simply lift the mesh off the frame and re-stretch, always starting from the middle and working outwards towards the edges.

Comprehensive instructions on screen printing can be found online - [www.EZIscreen.com/support](http://www.EZIscreen.com/support)

When screen printing remember to use a professional ink (not a craft/hobby grade) and always use a Professional long Life squeegee with a clean sharp edge on the blade.

## Cleaning

### Caring for StencilPro™

You should never let ink or paint dry in your screen, as this is very hard to clean without damage.

Avoid ink drying in the screen by either:

- Cleaning the screen (water or solvent cleaners depending on your ink type) when you pause printing
- Perform a clearing print (see website) to remove ink from design area between each print

If several StencilPro™ films become stuck together do not pull them apart, soak in water for a few minutes until they come apart naturally.

## Storage

Properly stored StencilPro™ has a shelf life of at least 12 month. Always store undeveloped film in the black bag, in the dark and away from heat/fluorescent light/ direct sunlight.

*We recommend storing undeveloped film inside the Opaque Storage Container for added protection against light.*

Ideal storage/ usage temperature is between 5 to 25° Celsius. For hot/humid areas store inside Opaque Storage Container and place in refrigerator or cool room.

Store developed film flat, do not fold or bend.

Once developed the stencil is no longer sensitive to light and may be stored in clear plastic bags or any suitable storage container.

## LIMITED PRODUCT WARRANTY

The manufacturer of StencilPro™, Circuit Bridge LLC warrants to customers who purchase products, that they will be free from defects in workmanship and materials at the time of purchase.

StencilPro™ film is considered a consumable product and is warranted, at the time of sale, only against defects in workmanship or materials that prevent their use. Consumable products are goods reasonably expected to be used up or damaged during use. Due to the nature of StencilPro™, no warranty implied or otherwise is given to its suitability for any particular purpose or application. This warranty only extends to the original customer and can not be transferred or assigned. The foregoing warranty is in lieu of and excludes all other warranties not expressly set forth herein, whether express or implied, by operation of law or otherwise, including but not limited to any implied warranties of merchantability or fitness for a particular purpose.

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*A large printable version is available from the website - [www.EZIscreen.com/cbwarranty](http://www.EZIscreen.com/cbwarranty)*

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Patent pending.

