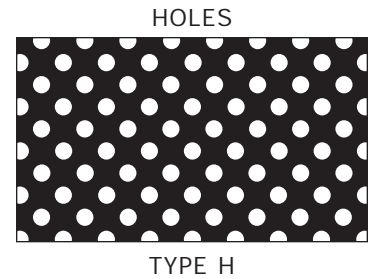
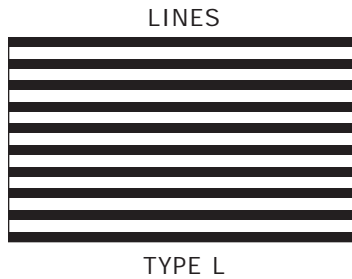
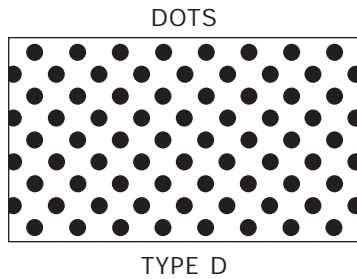


# ENVIROSCREEN™

## Silk-Screened Glass



### Standard Patterns

- Type D – 1/8" dots staggered on 1/4" centers (40% coverage of substrate)

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- Type L – 1/8" lines on 1/4" centers (50% coverage of substrate)

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- Type H – 1/8" holes staggered on 1/4" centers (60% coverage of substrate)

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- Custom patterns available. (Contact Sales Department)

### Silk-Screening Process

Lead free colored ceramic frit enamel is applied by an automatic silk screen press system in a temperature and humidity controlled room and then fire-fused to the surface of the substrate glass in a horizontal oven at 1150°F to create a very durable and environmentally-safe EnviroScreen™ silk-screened panel. Since the ceramic frit is lead free, there are no disposal problems with EnviroScreen™ panels. Heat strengthening of the glass is required to avoid breakage from thermal stress\*. If breakage should occur, heat-strengthened glass will break into large pieces, which tend to stay in the framing system. For safety glazing applications, fully tempered silk-screened panels should be specified\*.

\* Heat-strengthening is available up to 1/4" glass. Fully tempered must be used for 3/8" and 1/2" glass.

### Colors\*

The following colors are available for application onto the heat-treated glass substrate:

- #106 White

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- #109A Warm Grey

\* Contact Sales Department for additional and custom colors.

### Glass Types & Thicknesses

- Available on 3/16" through 1/2" thick glass.
- Clear, tints, low-iron and some pyrolytic reflective glasses

### Sizes

- Minimum size manufactured is 12" x 12"
- Maximum size is 84" x 168"

### Shapes

See online pattern cutting chart at [www.jeberkowitz.com](http://www.jeberkowitz.com).

### Edgework

Standard edgework for the 3/16" and 1/4" is seamed or swiped with a 120° belt. Polished, ground, and mitered edgework is required for 3/8" and 1/2" glass.

# ENVIROSCREEN™

## *Silk-Screened Glass*



### *Product Applications*



Enviroscreen™ lead free silk-screened panels are used in vision and non-vision areas. The silk-screened pattern applied to the glass surface can achieve desired aesthetic appearances as well as control light transmittance. It reduces the solar heat gain by blocking out some of the heat, thereby lowering the shading coefficient for better solar control. The silk-screened patterns on glass can also add a level of privacy and help minimize glare from the sun. Enviroscreen™ glass can be used in curtain walls and storefronts of office buildings, educational buildings, research facilities, manufacturing facilities, museums and hotels. Other architectural applications for Enviroscreen™ include: skylights, interior wall partitions, glass doors, elevator walls and glass ceilings. It can also be combined with JEB Fusion™ laminated glass products in Winduo™ insulating units or JEB Invisiwall™ point-supported walls and canopies. Enviroscreen™ is suitable for conventional glazing or structural glazing applications.

### *Warranty*

Standard warranty is five years from date of manufacture against peeling, cracking or deterioration of coating under normal conditions.

### *Certification*

Float glass used in Enviroscreen™ lead free ceramic frit silk-screened panels complies with the quality requirements of ASTM C1036, Standard Specification for Float Glass. When the glass is heat-treated, it complies with ASTM C1048, Standard Specification for Heat-Treated Float Glass, Kind HS, Kind FT coated and uncoated glass. Fully tempered Enviroscreen™ is a safety glazing product meeting the performance requirements of the Consumer Product Safety Commission Standard 16 CFR 1201, as well as ANSI Z97.1. Since the ceramic frit used for silk-screening does not contain lead, there are no special disposal requirements.

### *Silk Screen Inspection Guidelines*

View silk-screened glass from a distance of 10 feet under natural daylight conditions. Pinholes larger than 1/16" are not allowed if noticeable from 10 feet or greater. The color and/or opacity of the ceramic frit may vary slightly due to paint thickness and substrate color variation.

An indefinite print image of 1/32" is acceptable at the border. A maximum variation of  $\pm 1/32$ " in hole, dot or line is acceptable.

Distortion exists in all heat-treated products. As noted in ASTM C1048, "the original flatness of the glass is slightly modified by the heat treatment causing reflected images to be distorted."

Under certain lighting conditions, heat-treated glass may also exhibit an iridescence or strain pattern. This is also a characteristic of heat-treated glass and not a defect.

### *Installation Recommendations*

In accordance with GANA Manual.



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