FORMS+SURFACES®

LIGHTPLANE™ PANELS

LightPlane Panels are engineered, edge-lit LED panels which allow you to seamlessly illuminate a wall, column, elevator interior, or standalone panel. This innovative product combines our cutting-edge lighting technology, our VividGlass line of specialty architectural glass, and a highly engineered framing system to create an illuminated panel unlike any other.

With a remarkably thin profile and a minimal bezel, LightPlane Panels offer uniform light output, energy efficiency, and the unparalleled performance of Cree® LEDs, delivering up to 100,000 hours of worry-free illumination. Each panel is manufactured with a size-specific algorithm to ensure the look of even, natural light, and eliminate hot spots, haloes or dark areas. LightPlane Panels represent a complete system that is designed to be easily configured to meet your project needs.

STANDARD PANEL COMPONENTS - Engineered, edge-lit LED panel integrated with VividGlass; power source with dimming controls and wiring; mounting cleat extrusion

TECHNICAL SUPPORT & PROJECT MANAGEMENT - Because each project is unique, our knowledgeable support team is ready to help. Our technical sales, engineering, sustainability and project management professionals regularly assist our clients worldwide.

PRODUCTS & APPLICATIONS

LightPlane Panels can be specified for wall systems, elevator interiors, column covers, accents or custom fabrications. They are available exclusively with a wide range of our VividGlass products, including the solid colors of ViviChrome; the diverse graphic elements of ViviGraphix; the beautiful onyx options of ViviStone; and virtually limitless custom design capabilities. Products and applications for LightPlane include:

STANDALONE PANELS	LEVELe® WALL SYSTEM	LEVELe ELEVATOR INTERIORS	LEVELe COLUMN SYSTEM
• LightPlane Panels can be specified as accents for existing walls or as unique design elements. • The maximum available panel size for LightPlane Panels is 60" x 120" (1524mm x 3048mm).	• LightPlane Panels seamlessly integrate into our LEVELe Wall System. • LightPlane Panels have the same visible profile as LEVELe Capture panels.	• LightPlane Panels are available as a standard option in our LEVELe Elevator Interiors. • LightPlane Panels have the same visible profile as LEVELe Capture panels.	• LightPlane Panels are available as a standard option in our LEVELe Column System. • LightPlane Panels have the same visible profile as LEVELe Capture panels.

INSET OPTIONS

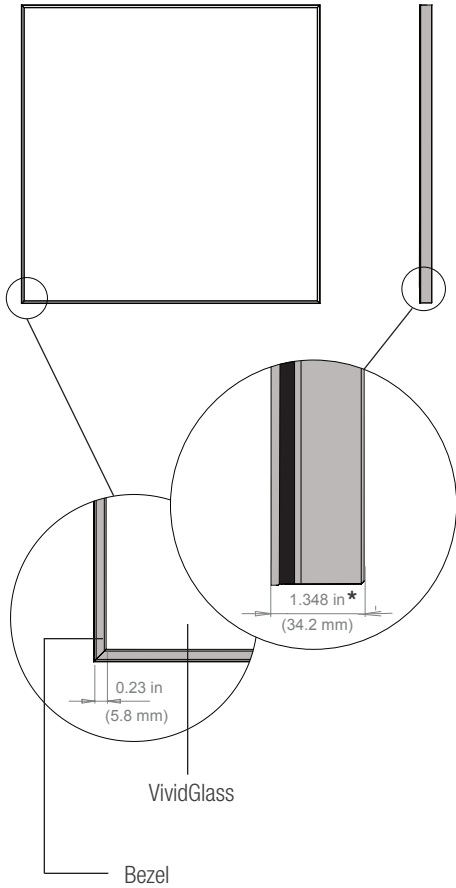| VIVICHROME	VIVIGRAPHIX	VIVISTONE
• **ViviChrome Chromis** architectural glass is comprised of a color interlayer between two transparent lites of glass. Chromis is designed to bring solid color to life and create visual depth within a space. ViviChrome Chromis must be specified with Opalex finish when used in LightPlane Panels.	• **ViviGraphix Elements** architectural glass is defined by visually stunning, natural patterns that enhance virtually any setting. • **ViviGraphix Graphica** architectural glass features precise patterns consisting of one or more color graphic interlayers laminated between two transparent lites of glass. • **ViviGraphix Spectra** architectural glass consists of an interlayer featuring continuous tone color imagery laminated between two transparent lites of glass. Photographs, digital data files or customer provided artwork can be used to create dramatic compositions.	• **ViviStone** architectural glass offers the beauty of stone with the convenience of glass. Available in the following stone families: **Abalone Onyx, Cream Onyx, Honey Onyx**, **Opal Onyx, Pearl Onyx and White Onyx.**

HOW TO SPECIFY

A Design Guide is available to lead you through the specification process in a simple checkbox format. Design Guides are also available for each of our VividGlass products to lead you through the glass selection process. Please use the two Design Guides together to capture all the information needed to generate a quote: applications, dimensions, VividGlass selections and other options. For Design Guides and additional information about VividGlass products, please visit our website at www.forms-surfaces.com.

LIGHTPLANE™ PANELS

LIGHTPLANE FRAME DETAIL

LIGHTPLANE EXTRUSION PROFILE

1.348 in *
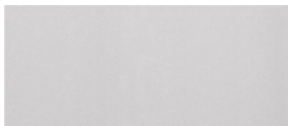(34.2 mm)

0.23 in
(5.8 mm)

VividGlass

Bezel

Engineered
Algorithm

VividGlass

* Note: 1.348 in (34.2 mm) dimension represents total overall panel thickness.

PANEL FRAME COLOR OPTIONS

Panel frames are extruded aluminum and are available in a choice of Clear, Black or Antique Bronze anodized finishes.
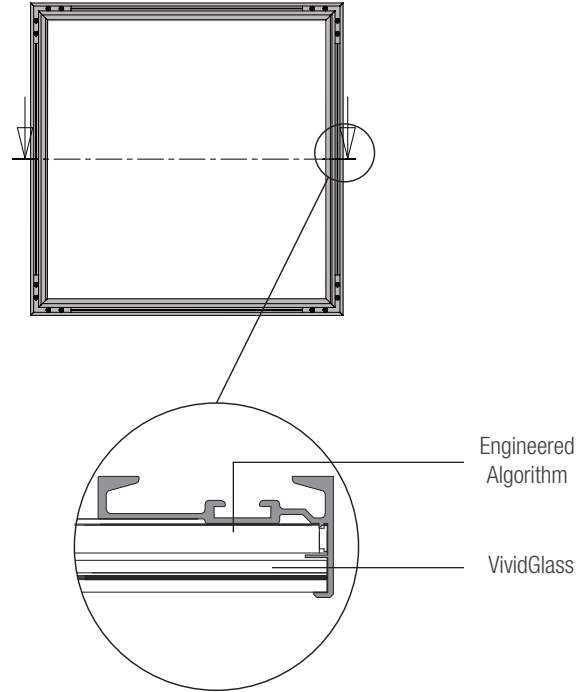
Clear

Black

Antique Bronze

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STANDALONE PANELS	LEVELe WALL SYSTEM PANELS	LEVELe ELEVATOR INTERIOR PANELS
LightPlane Panels can be specified as accents for existing walls or as unique design elements. These panels are mounted to existing walls using a cleat.	LightPlane Panels seamlessly integrate into our LEVELe Wall System. LightPlane Panels have the same visible profile as LEVELe Capture panels.	LightPlane Panels are available as a standard option in our LEVELe Elevator Interiors. LightPlane Panels have the same visible profile as LEVELe Capture panels.

0.5" clearance between top of panel and ceiling required for installation

1.344" (34.1 mm)

Mounting Cleat

VividGlass

Outer Face of Substrate

1.813" (46.0 mm)

Mounting Backsystem

Outer Face of Substrate

1.24" (31.5 mm)

Outer Face of Substrate

Mounting Cleat

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LAMP	POWER SUPPLY
• Lamp type: Cree® LED* • Wattage: 0.25 watts • Color temperature: 5,000K • Rated life: 100,000 hours (at recommended illumination) • Running temperature: 72° F *Cree LEDs use less than 1/5th the total wattage used by fluorescent lamps, representing an 82% energy savings.	• Power box includes one or more high efficiency drivers (1.5 amp, 3 amp, 4 amp or 8 amp, as required) with dimming control(s), on/off swith and quick disconnects • Input voltage: 110-277 VAC • Output voltage: 12V • Maximum wattage per panel: 120 watts per 48″ x 120″ panel • Power box size varies based on panel size(s) and configuration

SAFETY CERTIFICATION
LightPlane Panels have been ETL tested and certification has been met for the following: • UL 48 - UL Standard for Safety for (Interior) Electric Signs • UL 8750 - UL Standard for Safety for Light Emitting Diodes (LED) • CSA C22.2 - Canadian Standard for (Interior) Portable and Stationary Electric Signs and Displays

INCLUDED COMPONENTS	INSTALLER PROVIDED
• Pre-assembled LightPlane panels, each with a 12" electrical lead and integral quick connect assembly (to be connected with quick disconnect power box lead). **Note:** Electrical leads exit the middle of standalone LightPlane panels, LEVELe Elevator Interior and Wall System LightPlane Panels, unless otherwise specified. Please see shop drawings for clarification. • Power box with integral driver and dimmer with either 25 foot or 50 foot electrical leads with integral quick disconnect. **Note:** One power box can often supply power and dimming capabilities to more than one LightPlane panel. In this case, more than one set of leads will exit the box. Please see shop drawings for clarification.	• LightPlane installers must supply an accessible mounting surface or vented enclosure for the supplied power box within 25-50 running feet of the final LightPlane panel location. • Installers are responsible for providing a 110-277 VAC power feed and electrical hook up to each supplied power box.

INSTALLATION	MAINTENANCE
• LightPlane Panels are designed with a horizontal extrusion channel that interlocks with the provided mounting cleat for easy installation on existing walls. • Simple, step-by-step installation instructions are provided when LightPlane Panels are used with LEVELe Elevator Interiors, LEVELe Wall System or the LEVELe Column System.	• The glass surface of LightPlane Panels can be maintained using standard commercial, non-streaking cleaners and polishes formulated for use on glass. • Aluminum frames can be cleaned as needed using a soft brush or cloth with warm water and a mild detergent. Do not use harsh abrasives, acids or chlorine-based cleaners or cleaning tools containing carbon steel, such as steel wool or wire brushes.