LEVELe™ ELEVATOR INTERIORS

PRODUCT DATA

LEVELe Elevator Interiors represent a highly configurable panelized system based on lightweight aluminum-framed panels and extensive material options from the F+S Surfaces library. Individual panels consist of an extruded aluminum frame surrounding an inset comprised of a decorative face material bonded to a fire-rated substrate. Eight primary configurations, five with additional variations, afford countless design possibilities. LEVELe Elevator Interiors can also incorporate LightPlane Panels—an aspect that invites customization with illuminated colors, graphics or project-specific imagery. For continuity throughout a space, LEVELe Elevator Interiors coordinate with our LEVELe Wall Cladding and LEVELe Column Systems.

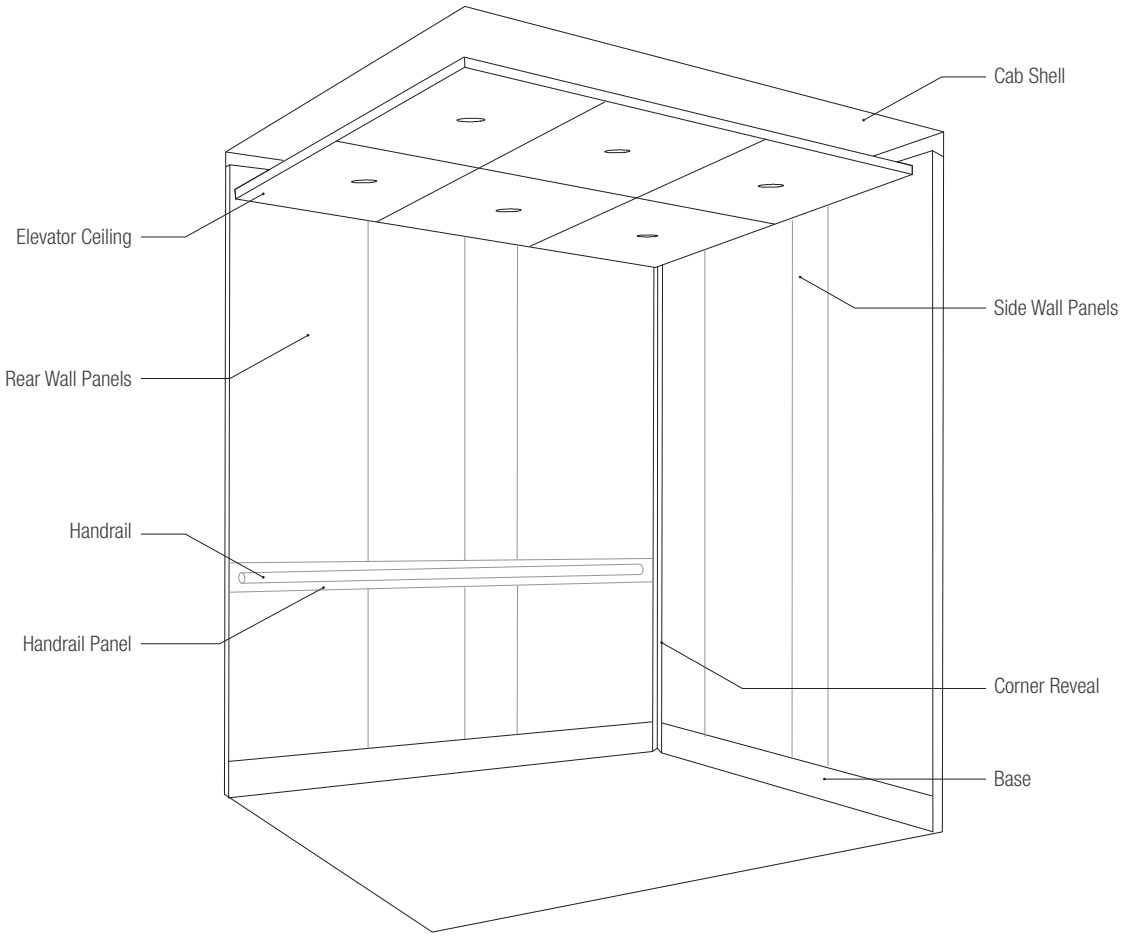
Beyond LEVELe, the F+S Elevator Interiors program gives you unparalleled creative freedom for meeting the aesthetic, performance and budgetary requirements of virtually any environment. Ideal for new or modernization projects, the program includes three distinct families that suit diverse field conditions without sacrificing ease of specification, installation, maintenance, or breadth of material choices. Learn more about the entire program on our website.

SYSTEM COMPONENTS

Standard: Wall Panels, Bases, Reveals, Installation Hardware
Optional: Handrails, Crash Rails, Elevator Ceiling with Light Fixtures and Emergency Lighting Power Source

SYSTEM COMPONENTS MAP

LEVELe-101A configuration shown.



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FORMS+SURFACES®

STANDARD INSET MATERIAL OPTIONS

VIVIDGLASS	CASTGLASS LEVELS GLASS
VividGlass laminated glass has tremendous creative potential. Offering numerous ways to transform spaces with colors, patterns and graphics, many of our VividGlass designs can be specified as wall panel insets including selections from our ViviChrome, ViviGraphix, ViviSpectra, ViviStone, ViviStrata and ViviTela families. Please refer to the individual VividGlass Product Data Sheets for swatches and additional information.	CastGlass Levels glass is artisanal kiln cast glass laminated with color and graphic interlayers. Four Levels families, each with its own textural aesthetic, bring creative plays of color, texture and light to walls, columns, elevator interiors and more. Please refer to the Cadence Levels, Classic Levels, Intervals Levels, and Profile Levels Product Data Sheets for design swatches and additional information.
STAINLESS STEEL	**FUSED METAL**
Stainless Steel in all of our standard finishes can be specified for panel insets. A variety of optional patterns, can also be specified for added visual interest and enhanced functionality. Impression patterns bring dimension to the surface; eco-friendly Eco-Etch® patterns offer standard and custom options. Please refer to the Stainless Steel Product Data Sheet for finish and pattern swatches and additional information.	Fused Metal is Forms+Surfaces' exclusive line of colored stainless steel. Created by fusing titanium alloys to the stainless substrate at the molecular level, Fused Metal provides the durability and low maintenance of stainless steel in a rich range of colors. Please refer to the Fused Metal Product Data Sheet for color, finish, and pattern swatches and additional information.
LINQ WOVEN METAL	**BONDED METAL**
Linq is Forms+Surfaces' answer to woven metal. CrossLinq patterns consist of flat and/or round stainless steel wires interwoven to create distinctive textures and designs. Please refer to the Linq Product Data Sheet for additional information.	Bonded Metal castings are light in weight yet extremely durable. The material's high relief, highly detailed surfaces have the character and appearance of solid metal. A wide range of patterns, metal colors and patinas offer a striking breadth of design possibilities. Please refer to the Bonded Metal Product Data Sheet for complete information.
BONDED QUARTZ	**WOOD VENEER**
Bonded Quartz combines ceramic microspheres and a fiber-reinforced polymer matrix to form a material that is lightweight, durable and easy to clean. Standard colors are White and Charcoal; custom colors are also available. A variety of sculptural patterns complete the design options. Please refer to the Bonded Quartz Product Data Sheet for complete information.	All veneers are finished with three coats of CAB acrylic lacquer for superior abrasion resistance and non-yellowing performance while maintaining the richness and authenticity of genuine wood. Please refer to the Wood Veneer Product Data Sheet for material options and additional information.

MATERIAL OPTIONS PER PANEL TYPE

Wall panels consist of extruded aluminum frames surrounding a decorative inset material on a fire-rated substrate. Two panel frame designs allow a variety of materials, including glass: Minimal panel frames have a narrow detail for a minimal appearance around the inset material; Capture panel frames accommodate thicker, heavier inset materials that require a frame with a capture edge. Wall panel inset materials draw from our extensive Surfaces palette; several are also available for F+S Elevator Ceilings, as shown below.

	MINIMAL PANEL INSETS	CAPTURE PANEL INSETS	F+S ELEVATOR CEILINGS**
VIVIDGLASS	•	•	
CASTGLASS LEVELS GLASS		•	
STAINLESS STEEL	•	•	•
FUSED METAL	•	•	•
LINQ WOVEN METAL		•	
BONDED METAL*	•	•	
BONDED QUARTZ*	•	•	
WOOD VENEER	•	•	
THIRD PARTY INSET MATERIALS	Customers sometimes wish to specify their own materials to match lobby walls or other areas on specific projects. This is generally feasible, provided the materials meet certain weight and dimensional requirements. Please call for more information.		

*If Carbon, Champagne, Chardonnay, Crinkle, Dune, Kalahari, Mara or Waterfall patterns are selected, Capture panel frames must be used throughout the cab.
**Refer to pages 8-9 for more information or to the Elevator Ceilings Product Data Sheet for complete details

STANDARD CONFIGURATIONS

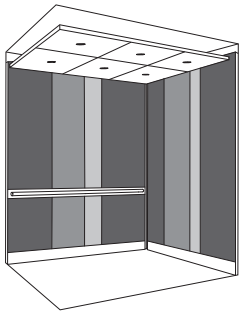
LEVELe Elevator Interiors are available in eight primary configurations, each broadly defined by wall panel shape and layout. Five offer additional variations that allow for alternate panel sizes and/or positioning within the layout. All can be configured using the Elevator Design Studio, our interactive online design tool that puts creative control at your fingertips. The intuitive, step-by-step format lets you choose a configuration, apply materials and finishes from our extensive Surfaces library, view your progress in realistic renderings, and request budget pricing, all with a few simple clicks.

Following is an overview of the options. The shades of grey in the drawings help illustrate panel separation and show potential material arrangements. To bring your designs to life, visit www.elevatordesignstudio.com. It's fast, easy, and an efficient way to create LEVELe Elevator Interiors that meet your project-specific needs.

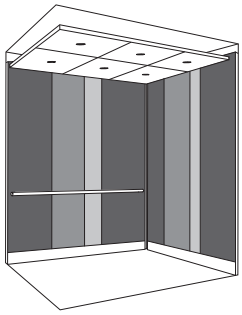
LEVELe-101

Each wall of the LEVELe-101A consists of vertical panels in varying sizes.

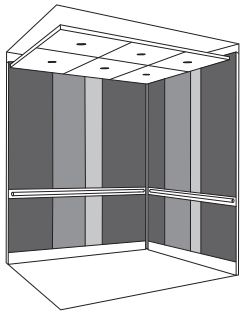
LEVELe-101B & C variations offer alternate handrail treatments.



LEVELe-101A



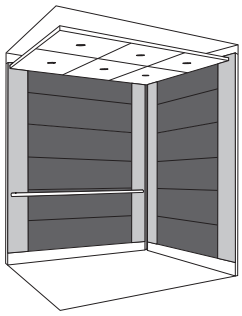
LEVELe-101B



LEVELe-101C

LEVELe-102

Each wall of the LEVELe-102 has horizontal panels bordered by vertical accent panels on both sides.

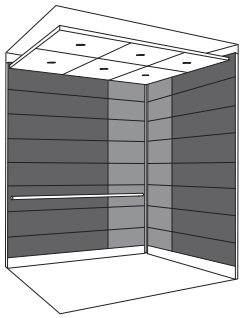


LEVELe-102

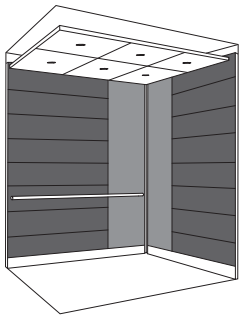
LEVELe-103

Each wall of the LEVELe-103A consists of horizontal panels with one or more vertical accent panels.

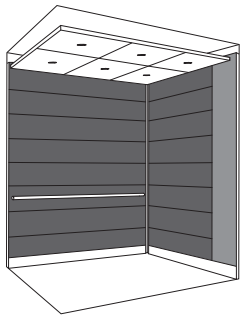
LEVELe-103B & C variations offer alternate options for accent panel size and/or positioning.



LEVELe-103A



LEVELe-103B

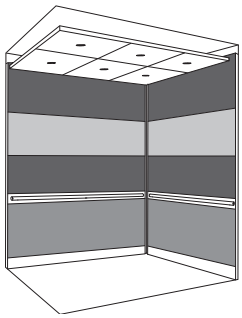


LEVELe-103C

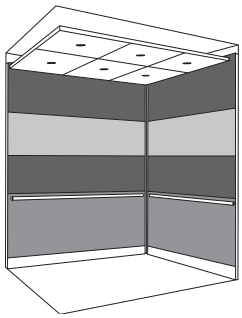
LEVELe-104

Each wall of the LEVELe-104A is comprised of horizontal panels.

The LEVELe-104B variation offers an alternate handrail treatment.



LEVELe-104A

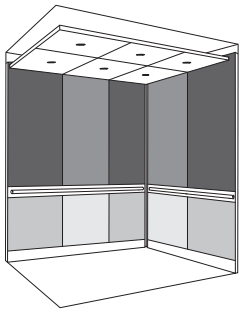


LEVELe-104B

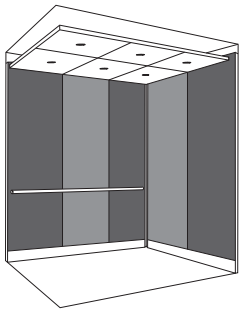
LEVELe-105

The back wall of the LEVELe-105A is comprised of six panels; side walls are comprised of four.

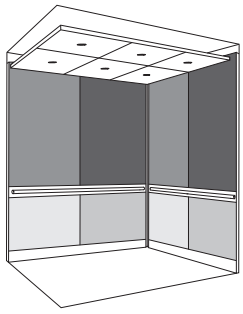
LEVELe-105B, C, D, E & F variations offer alternate options for wall panel shapes and sizes and/or handrail treatments.



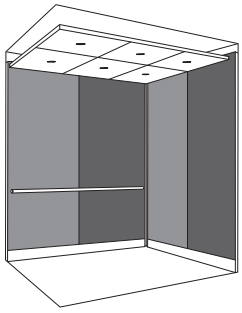
LEVELe-105A



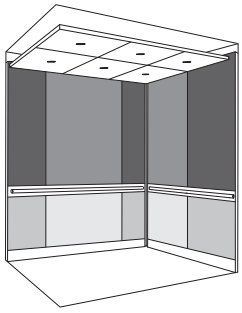
LEVELe-105B



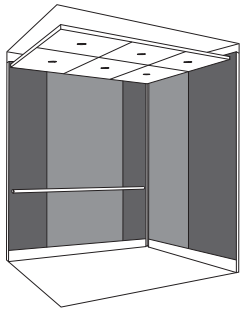
LEVELe-105C



LEVELe-105D



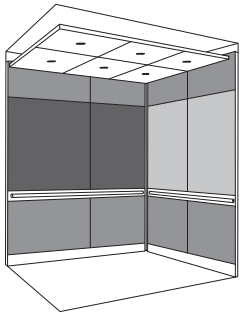
LEVELe-105E



LEVELe-105F

LEVELe-106

Each wall of the LEVELe-106 consists of six panels of varied sizes.

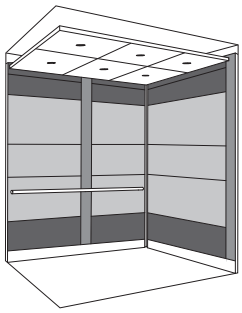


LEVELe-106

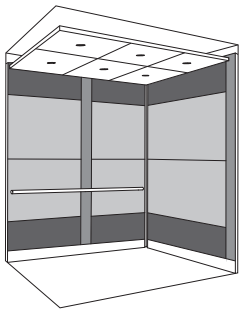
LEVELe-107

The back wall of the LEVELe-107A features horizontal panels and a central vertical accent panel. Side walls consist of horizontal panels with a vertical accent panel at the front of the cab.

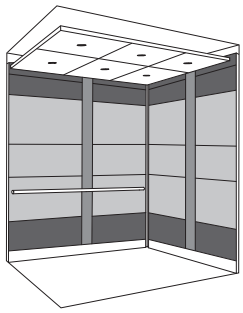
LEVELe-107B, C, D, E & F variations offer alternate options for vertical accent panel placement and/or wall panel shapes and sizes.



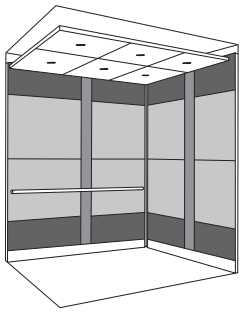
LEVELe-107A



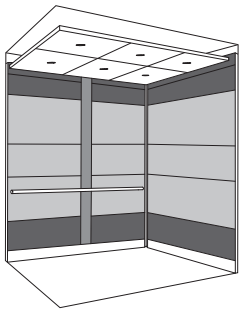
LEVELe-107B



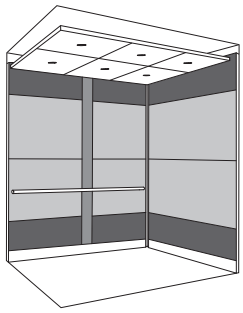
LEVELe-107C



LEVELe-107D



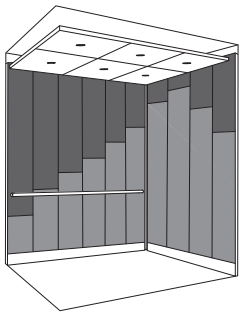
LEVELe-107E



LEVELe-107F

LEVELe-108

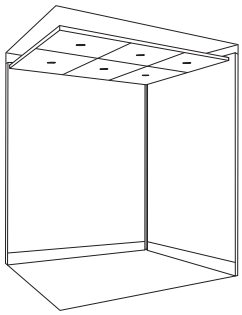
Each wall of the LEVELe-108 is comprised of upper and lower panels in a stepped gradation of sizes.



LEVELe-108

CUSTOM

Contact us for more information on custom configurations and design options.



COMPATIBILITY & WEIGHT

SHELL COMPATIBILITY	WEIGHT INFORMATION
• LEVELe Elevator Interiors can be specified for elevators of any size, weight capacity, or door configuration. Most interiors are installed in steel elevator shells but can also be supplied with appropriate screws for installation in wood shells. • Most elevator shells are found to be out-of-square to some degree. LEVELe wall panels and corner reveals have sufficient tolerances built into them to easily accommodate the vast majority of out-of-square conditions or other dimensional irregularities.	• LEVELe Elevator Interior panels weigh up to approximately 2-3 lbs. per square foot depending on the inset material selected, with the exception of glass, which is approximately 5.25 lbs. per square foot. • Diamalite Glass Panels can be used as an alternative to standard laminated glass, where weight restrictions apply. • Ceilings (including lights and structural elements) weigh approximately 2.97 lbs. per square foot. • Handrail and crash rail weights vary by series and length. • Estimated total weights for customer-specified cab interiors can be provided by Forms+Surfaces once shell dimensions, material selections and other system options are specified.

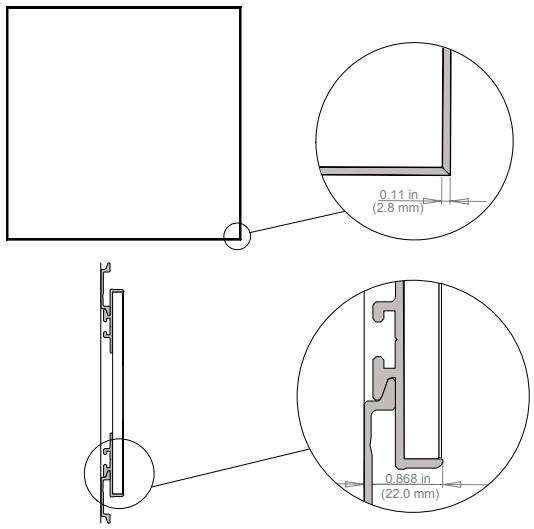
SYSTEM COMPONENTS

WALL PANELS

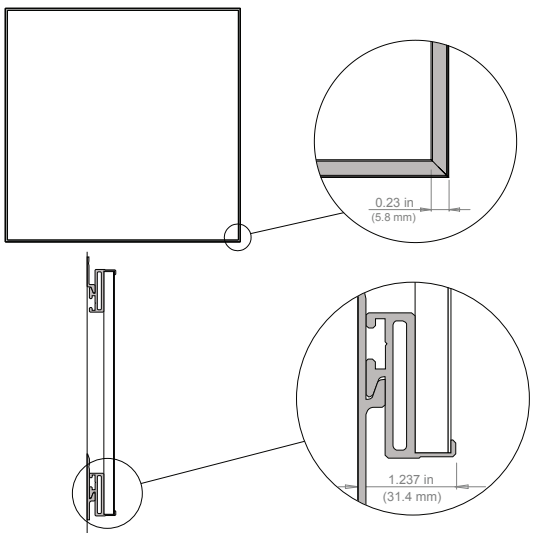
- Panel frames are extruded aluminum. All panel frame corners are mitered.
- Panel insets consist of a decorative face material bonded to a fire-rated substrate. Inset material options vary by panel type. (Refer to table on page 2).
- Panel frames are available in Clear, Black, Antique Bronze or Duranodic Bronze anodized finishes.

CLEAR | BLACK | ANTIQUE BRONZE | DURANODIC BRONZE

MINIMAL PANEL FRAME DETAIL



CAPTURE PANEL FRAME DETAIL



SYSTEM COMPONENTS (CONTINUED)

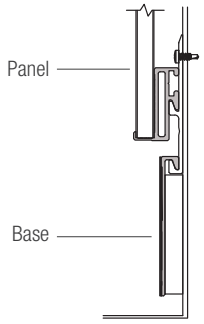
CORNER REVEALS

- 90° angled Corner Reveals are supplied for the cab rear corners.
- Front Corner Reveals are supplied for corners nearest the elevator door.
- Corner Reveals are available in Clear or Black anodized finishes and installed with pre-applied mounting adhesive.

CLEAR BLACK

BASES

- A 3.5" (88.9 mm) high base is fitted between the finished floor and the wall panels.
- Bases consist of Stainless Steel or Fused Metal decorative faces applied to an extruded aluminum substrate with pre-applied mounting adhesive.



HANDRAILS & CRASH RAILS

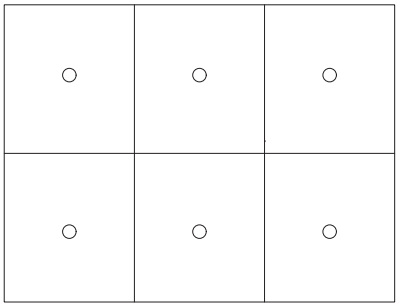
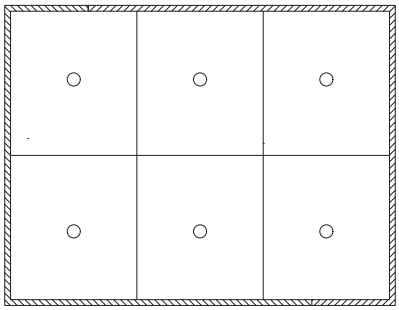
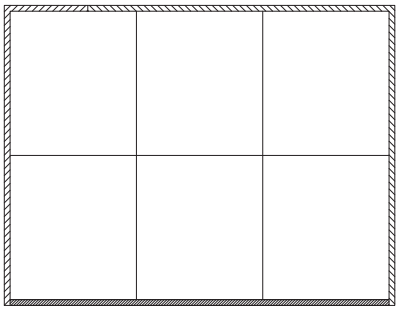
Handrails and crash rails can be specified for elevator interior back walls and/or side walls. For information on the full range of options, refer to the separate Elevator Handrails & Crash Rails Product Data Sheet.

ELEVATOR CEILINGS

Our standard elevator ceiling is a six-panel suspended island design with six low-voltage, high-efficiency LED downlights or high-output LED perimeter lighting. In addition, LED downlights can be used in combination with either LED perimeter accent lighting or high-output LED perimeter lighting. Our elevator ceilings can support a maximum of nine downlights, depending on ceiling size. For more information, please see the Elevator Ceilings Product Data Sheet.

CEILING OPTIONS	CEILING INSTALLATION	LIGHTING
• Our standard elevator ceiling panels consist of Stainless Steel or Fused Metal decorative faces applied to a structural backer with black reveals. Any of our standard Stainless Steel or Fused Metal finishes may be specified for panel faces. • The ceiling mounting extrusion is extruded aluminum with a clear anodized finish.	• The ceiling uses a side-mount installation system that attaches the ceiling to the upper side walls of the elevator shell. This system makes the ceiling very easy to install and provides a generous range of adjustment to align the ceiling with the wall panels. • A top-mount ceiling option that incorporates track-adjustable tie rods is available for large elevators and elevator configurations not conducive to the side-mount standard. • A minimum clearance of 8" from the cab shell canopy to the visible ceiling face is necessary for installation.	• All lighting systems include a power supply, wire harnessing and an integrated LED dimmer. Lighting systems come pre-wired with a 12 foot lead to allow for mounting to top of cab shell. • A dedicated input circuit is required for ceilings that are specified with a lighting option. • LED Perimeter lighting will stay illuminated if a single diode fails.

ELEVATOR CEILING LIGHTING OPTIONS

LED DOWNLIGHTS ONLY	LED DOWNLIGHTS + PERIMETER LIGHTING	LED PERIMETER LIGHTING ONLY
		
• Low-voltage, high-efficiency LED downlights	• When used with LED downlights, either LED perimeter accent lighting or high-output LED perimeter lighting may be specified.	• High-output LED perimeter lighting

ELEVATOR CEILING ILLUMINATION*

Lighting Options	Light Reading in foot candles (fc)		
	At Threshold, on the ground	Center of Cab, on the ground	Center of Cab, 36" above floor
LED Downlights Only	29.8	45.5	62.5
LED Downlights + Perimeter Lighting	37.5	57.7	75.4
High-Output LED Perimeter Only	17.1	17.7	24.3

*Foot candle readings are dependent on finishes, colors, and/or reflectivity of the surfaces in the cab. The values shown are minimums.

EMERGENCY & VENTILATION

EMERGENCY LIGHTING	EMERGENCY EXIT
Emergency lighting is included in the standard elevator ceiling lighting system, unless otherwise specified in writing. The emergency lighting system incorporates an additional power supply with a battery to power the emergency lights in the event of a main power failure. The power supply includes an automatic battery charger, test switch, low battery voltage circuit, and alarm terminals. The emergency lights are integrated into the standard downlight system; any of the downlights, as specified, can act as the emergency light. In ceilings without downlights, a separate emergency lighting system will be located at the front of the cab, unless otherwise specified.	The emergency exit can be placed anywhere in the ceiling as needed to line up with the exit opening in the cab shell canopy. The Design Guide asks you to detail the exact placement and this information will be verified via approval drawings.
VENTILATION	**FIRE RATINGS**
Elevator Interiors are designed to accommodate most standard vent configurations. Unusual or non-standard ventilation requirements should be brought to our attention and detailed in the approval drawings to ensure compliance once material is installed.	Ceiling panel backer materials and all Stainless Steel and Fused Metal are generally considered to be Class A/I fire-rated for smoke development and flame spread.

DELIVERY & INSTALLATION

DELIVERY	ELEVATOR INTERIOR INSTALLATION	WALL PANEL REPLACEMENT
Wall panels, bases, reveals, handrails and crash rails (if applicable) for each individual cab arrive in a single crate, unless glass panels are required. Glass or LightPlane Panels will be packaged separately in A-frame crates, making it easy to organize materials on site. Ceilings, if specified, are also crated separately. All crates arrive with components neatly organized and includes all the necessary fasteners, adhesives and installation instructions.	Designed to be quick and efficient, LEVELe installation starts with affixing the vertical reveals, then the horizontal Base Cleat Extrusions. These horizontal extrusions set the alignment for the wall panels. Panel frames engage with the horizontal extrusion and are installed with integral mounting clips that interlock for fast and easy installation.	If wall panels are ever damaged due to accident or vandalism, replacement panels can be ordered from Forms+Surfaces.

CODE COMPLIANCES

Elevator wall panels, bases, handrails, crash rails, and ceilings comply with the following codes and guidelines:

ASME A17.1-2010: Safety Code for Car Enclosures, Car Doors and Gates, and Car Illumination - Section 2.14
• 2.14.1.2 - Securing of Enclosures • 2.14.1.5 - Top Emergency Exits • 2.14.1.8 - Glass in Elevator Cars • 2.14.2.1 - Material for Car Enclosures, Enclosure Linings, and Floor Coverings • 2.14.2.3 - Ventilation • 2.14.2.4 - Headroom in Elevator Cars • 2.14.7.4 - Protection of Light Bulbs and Tubes
2001 California Building Code, Chapter 30
• 3003.4.7 - Car Inside* • 3003.4.12 - Handrails
Americans with Disabilities Act Accessibility Guidelines (ADAAG)
• 4.10.9 - Floor Plan of Elevator Cars*

*Complies when installed in most common sizes of passenger cabs and service cabs. Purchasing party is responsible for ensuring that finished installation maintains minimum floor dimensions required by ADA guidelines and applicable local codes.

RELATED PRODUCTS

LIGHTPLANE PANELS	LEVELe WALL CLADDING SYSTEM	LEVELe COLUMN SYSTEM
LightPlane Panels are engineered LED edge-lit panels that are a standard offering in our LEVELe Elevator Interiors - allowing you to seamlessly illuminate walls and more. LightPlane Panels have the same visible profile as Capture panels and are available exclusively with a wide range of our VividGlass and CastGlass Levels glass products. Please refer to the LightPlane Product Data Sheet for pattern options and additional information.	The LEVELe Wall Cladding System incorporates the same panel types and materials and finishes as those offered for LEVELe Elevator Interiors. Please refer to the LEVELe Wall Cladding System Product Data Sheet for additional information.	The LEVELe Column System incorporates the same panel types and materials and finishes as those offered for LEVELe Elevator Interiors. Please refer to the LEVELe Column System Product Data Sheet for additional information.
ELEVATOR DOOR SKINS	**LEVELr ELEVATOR INTERIORS**	**LEVELc ELEVATOR INTERIORS**
Forms+Surfaces Elevator Door Skins are available in many of the same materials and finishes as those offered for LEVELe Walls, Columns, and Elevator Interiors. Please refer to our Elevator Doors Product Data Sheets for additional information.	LEVELr Elevator Interiors unite sophisticated design possibilities, a frameless panel aesthetic, and extensive material, trim, and LED options. Please refer to the LEVELr Elevator Interiors Product Data Sheet for additional information.	LEVELc Elevator Interiors expand the design and performance options with many of the same materials and finishes offered for LEVELe Elevator Interiors. Please refer to our LEVELc Elevator Interiors Product Data Sheet for additional information.

CUSTOM ELEVATOR INTERIORS

If your design requirements go beyond the standard LEVELe configuration, material and finish offerings, customized versions are available for an additional charge. Please call us to discuss your needs.

LEAD TIME

Standard lead times are approximately 6-8 weeks, however, lead times can vary depending on the specifics of the products involved, the scope of supply and scheduling capacity at time of order approval. Please contact us to discuss your specific timing requirements.

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. Please contact us at 800.451.0410 or sales@forms-surfaces.com to discuss your project.

HOW TO SPECIFY

Visit www.elevatordesignstudio.com to configure your elevator interior using the Elevator Design Studio, our interactive online design tool that puts creative control at your fingertips. The intuitive step-by-step format lets you choose an elevator interior configuration, apply materials and finishes from our extensive Surfaces library, view your progress in realistic renderings, and request budget pricing - all with a few simple clicks.