



PRODUCT DATA

**LEVELc Elevator Interiors** are ideal for new equipment or modernization projects. Complete, pre-engineered packages are available for standard sizes of passenger and service cabs, single or double opening. LEVELc-2000 features a unique stile, rail and inset design. System components in a variety of materials and finishes may be selected to coordinate with one another—the result is a series of highly durable, visually exciting elevator interiors.

#### SYSTEM COMPONENTS

Standard: Insets, Stile and Rails, Installation Hardware

Optional: Handrails, Ceiling with Light Fixtures and Emergency Lighting Power Source

#### STANDARD MODEL

LEVELc model designations are based upon the physical configurations of the wall panels. LEVELc-2000 Elevator Interiors come in just one standard model, but the stile, rail and inset options provide nearly limitless design flexibility while keeping within the discipline of a standardized panel layout.

#### STANDARD INSET MATERIAL OPTIONS

VIVIDGLASS CASTGLASS LEVELS GLASS		STAINLESS STEEL
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 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. Three 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 individual Classic Levels, Profile Levels, and Intervals Levels Product Data Sheets for design swatches and additional information.	Stainless Steel in all of our standard finishes can be specified for insets. A variety of optional patterns, applied to the stainless steel/finish combination, can also be specified for added visual interest and enhanced functionality. Please refer to the Stainless Steel Product Data Sheet for finish and pattern swatches and additional information.
FUSED METAL	ELEMENTAL METAL	LINQ WOVEN METAL
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.	Elemental Metal pairs the performance benefits of stainless steel with the timeless beauty of oxidized metal. The finishing process creates organic variations in the material's appearance while also increasing the fingerprint resistance and maintenance ease of the material. These fluctuations in tone add visual depth and result in subtle shifts across individual sheets and from one sheet to the next. The standard color is Elemental Carbon. Please refer to the Elemental Metal Product Data Sheet for details.	Ling is Forms+Surfaces' answer to woven metal. CrossLing patterns consist of flat and/or round wires interwoven to create distinctive textures and designs. CrossLing patterns emphasize Stainless Steel, though Brass may be specified on a per-project basis. Please refer to the Ling Product Data Sheet for additional information.
BONDED METAL	BONDED QUARTZ	WOOD VENEER
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 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.	Our natural wood veneers are finished with three coats of polyurethane for superior abrasion resistance while maintaining all the richness and authenticity of genuine wood. Please refer to the Wood Veneer Product Data Sheet for material options and additional information.

#### PANEL & COMPONENT DETAILS

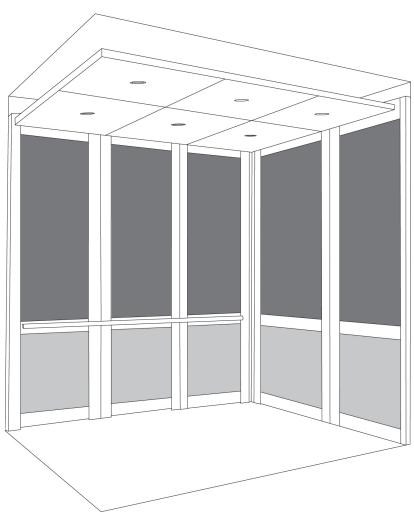
PANELS	REVEALS
<ul> <li>Stiles &amp; rails are the vertical and horizontal framing elements that surround the insets. Vertical stiles are 2.5" wide; horizontal rails are 3.5" high.</li> <li>Each stile &amp; rail consists of a Stainless Steel, Elemental Metal, or Fused Metal decorative face applied to a fire-rated structural substrate to form each individual wall panel.</li> <li>Insets are divided into upper and lower sections by the horizontal rails.</li> <li>The substrate includes an aluminum backer for enhanced dimensional stability.</li> <li>Total panel thickness, including attachment system, is a nominal 1-1/16".</li> </ul>	90° angled reveals are supplied for the cab rear corners; flat reveal strips are supplied for front corners and for the areas between adjoining panels.     Reveals are available in Stainless Steel, Elemental Metal, or Fused Metal. Please refer to the LEVELc-2000 Design Guide for specific material and finish options.





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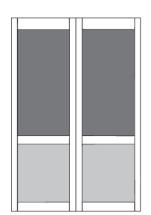
#### LEVELc-2000

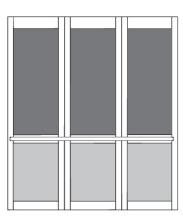


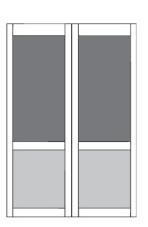
UPPER INSET LOWER INSET

Configure your designs by 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.

Visit www.elevatordesignstudio.com to give it a try and see how easy it is.







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#### HANDRAIL AND CRASH RAIL OPTIONS

Optional handrails from one of six standard series can be specified for elevator interior back walls and/or side walls. For elevator door openings that are flush with the adjacent side wall(s), a returned handrail configuration (see Round Series, Radius Bend End on page 4) is recommended. For Crash Rail information, please see the Elevator Crash Rail Product Data Sheet.

#### COMPASS™ SERIES



1.25" diameter tubular rail with choice of Bullet, Cylinder, Ring, Double Ring or Clamshell standoffs. Metals and finishes can be mixed or matched on rails and standoffs to create either uniform or contrasting effects.

#### Rail Material and Finish Options

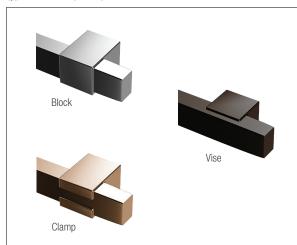
- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Black Santoprene

- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze
- Stippled Oil-Rubbed Bronze

#### Standoff Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze
- Stippled Oil-Rubbed Bronze

# QUADRANT™ SERIES



 $1" \times 1.5"$  rectangular cross-section rail oriented with the wide edge facing out, with Block, Clamp or Vise standoffs. Metals and finishes can be mixed or matched on rails and standoffs to create either uniform or contrasting effects.

#### Rail Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze
- Stippled Oil-Rubbed Bronze

#### Standoff Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze
- Stippled Oil-Rubbed Bronze

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#### SEXTANT™ SERIES



1.25" or 1.5" diameter tubular rail with choice of Bullet, Cylinder, Column or Taper finials. Tee standoffs join segments of Sextant rail. Metals and finishes can be mixed or matched on rails, finials and tee standoffs to create either uniform or contrasting effects.

#### Rail Material and Finish Options

- Satin Stainless Steel
- · Polished Stainless Steel
- Stippled Stainless Steel
- Black Santoprene

- Satin Bronze
- Polished Bronze
- Stippled Bronze

### Finial and Tee Standoff Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze

#### **MODULAR SERIES**



1.25" diameter tubular rail with L-shaped standoffs. Standoffs are always Clear Anodized Aluminum with Satin finish.

#### Rail Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel

#### **ROUND SERIES**

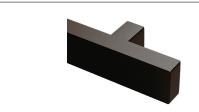


1.25" or 1.5" diameter round rail with choice of radius bend ends or flat ends with integral standoffs. Rails and standoffs are always the same metal and finish.

#### **Material and Finish Options**

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze

#### **RECTANGULAR SERIES**



 $1" \times 2"$  rectangular cross-section rail with integral standoffs. Rails and standoffs are always the same metal and finish.

#### Material and Finish Options

- Satin Stainless Steel
- Polished Stainless Steel
- Stippled Stainless Steel
- Satin Bronze
- Polished Bronze
- Stippled Bronze
- Oil-Rubbed Bronze

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# CEILING

CEILING OPTIONS	CEILING INSTALLATION	LIGHTING
Wall panels integrate easily with existing ceilings or you can specify a ceiling to complete your cab package. Our standard ceiling is a six-panel suspended island design with six low-voltage, high-efficiency LED downlights or high-output LED perimeter lighting. When using LED downlights, LED perimeter accent lighting or high-output LED perimeter lighting may also be specified. Our ceilings can support a maximum of nine downlights.  Ceiling panels consist of Stainless Steel, Elemental Metal, or Fused Metal decorative faces applied to a structural backer with black reveals. Any of the standard Stainless Steel or Fused Metal finishes may be specified.  The ceiling mounting extrusion is extruded aluminum	<ul> <li>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.</li> <li>A canopy-mount option incorporating track-adjustable tie rods is also available for large elevators and elevator configurations not conducive to the side-mount standard.</li> <li>A minimum of 8" of clearance from the cab shell ceiling to the visible ceiling face is necessary for installation of the ceiling.</li> </ul>	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.  In LED downlight systems, each of the downlights is mounted in an all glass housing with quick-disconnect terminals.  High-output LED perimeter lighting is available as a standalone system, or it can be combined with our LED downlight system.
with a clear anodized finish.		LED downlights.  • Unit will stay illuminated if a single diode fails.

# LED DOWNLIGHTS

LAMP	POWER SUPPLY
MR16 Housing Material: All Glass Mounting: Quick-mount spring toggles, allow installation or removal from either side of face panel Fixture Dimensions: Overall Height: 1.73"   Overall Diameter: 1.96" Base type: GU5.3 Dimmable: Down to 10% Wattage: 6W LED Quantity: 6/Lamp Input Voltage: 12V AC/DC Centerbeam Candlepower (cp): 1000 Lumens: 6W - 450lm/lamp Color temperature: 3,000K CRI: 80+ Rated Life: 25,000 hours Beam Angle: 25 & 35 degrees Compliance: ROHS & UL listed UV and IR radiation free	LED Transformer  Wattage: 100W  Input Voltage: AC 120-240V  Current: 5 Amps  Output Voltage: 12V AC  Dimensions: 8" depth x 14" width x 4" height (nominal)  Compliance: UL listed components

# LED PERIMETER ACCENT LIGHTING (ONLY AVAILABLE WITH LED DOWNLIGHT SYSTEM)

LAMP	POWER SUPPLY
SMD 3528 Flexible LED strips, 300 LEDs/strip (approximately 500-600 per cab) Housing Material: Extruded Aluminum Mounting: Pre-installed in Extruded Aluminum channel Metal Finish: Clear Anodized Fixture Dimensions: Overall Height: 1.43"   Overall Depth: 2.1" Wattage: 1.6W/lineal foot LED Quantity: 60/m or 18.3/ft Input Voltage: 12V Lumens: 68lm/ft Color temperature: 2,900-3,200K Rated Life: 50,000 hours Beam Angle: 120 degrees Compliance: ROHS & UL listed	LED Transformer  Wattage: 100W  Input Voltage: AC 120-240V  Current: 12.5 Amps  Output Voltage: 12V AC and 12V DC  Dimensions: 8" depth x 14" width x 4" height (nominal)  Compliance: UL listed components





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# HIGH-OUTPUT LED PERIMETER LIGHTING (AVAILABLE STANDALONE OR WITH LED DOWNLIGHT SYSTEM)

LAMP	POWER SUPPLY
SMD 5050 Flexible LED strips, 300 LEDs/strip (approximately 500-600 per cab) Housing Material: Extruded Aluminum Mounting: Pre-installed in Extruded Aluminum channel Metal Finish: Clear Anodized Fixture Dimensions: Overall Height: 1.43"   Overall Depth: 2.1" Wattage: 4.4W/lineal foot LED Quantity: 60/m or 18.3/ft Input Voltage: 12V Lumens: 307lm/ft Color temperature: 2,900-3,200K Rated Life: 50,000 hours Beam Angle: 120 degrees Compliance: ROHS & UL listed	LED Transformer     Wattage: 150W     Input Voltage: AC 120-240V     Current: 12.5 Amps     Output Voltage: 12V DC     Dimensions: 8" depth x 14" width x 4" height (nominal)     Compliance: UL listed components

#### **EMERGENCY & VENTILATION**

EMERGENCY LIGHTING	EMERGENCY EXIT
Emergency lighting is included in the standard 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.	Backer materials and all Stainless Steel, Elemental Metal, and Fused Metal are generally considered to be Class A/I fire-rated for smoke development and flame spread.

# **CODE COMPLIANCES**

LEVELc-2000 wall panels, bases, handrails, crash rails, and ceilings comply with the following codes and guidelines:			
ASME A17.1a-200	6: Safety Code for Elevators and Escalators, Section 204		
204.1b	Securing of Enclosures		
204.1e	Top Emergency Exits		
204.2a	Material for Car Enclosures, Enclosure Linings, and Floor Coverings		
204.2c	Ventilation		
204.2d	Headroom in Elevator Cars		
204.7d	Protection of Light Bulbs and Tubes		
2001 California Bui	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.			





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#### **COMPATIBILITY & WEIGHT**

SHELL COMPATIBILITY	WEIGHT INFORMATION
LEVELc-2000 Elevator Interiors can be specified for cabs of just about any size, weight capacity or door configuration. Most interiors are installed in steel cab shells, but LEVELc-2000 panels can also be supplied with appropriate screws for installation in wood shells, if required. Most cab shells are found to be out-of-square to some degree. LEVELc-2000 wall panels and reveals have sufficient tolerances built into them to easily accommodate the vast majority of out-of-square conditions or other dimensional irregularities.	LEVELc-2000 wall panels average 3.45 lbs. per square foot. Ceilings (including lights and structural elements) weigh approximately 2.97 lbs. per square foot. Handrail 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 detailed in the Design Guide.

#### **DELIVERY & INSTALLATION**

DELIVERY	WALL PANEL INSTALLATION	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 for quick installation, LEVELc-2000 uses a system of extruded aluminum mounting clips that come pre-installed on the wall panels. Mating clips are field-attached to the cab shell interior using the included templates for easy vertical alignment.	If wall panels are ever damaged due to accident or vandalism, replacement panels can be ordered from Forms+Surfaces. The attachment system permits quick field repairs with minimal downtime.

#### RELATED PRODUCTS

ELEVATOR DOOR SKINS	ARCHITECTURAL ACCENTS
Forms+Surfaces Elevator Door Skins in materials, finishes and patterns that complement those offered for LEVELc-2000 Elevator Interiors are available.	Coordinating sheet goods are available for headers, jams, returns, transoms and other architectural features. Our litter & recycling receptacles, site furnishings and other amenities are all available in materials and finishes that complement those offered in LEVELc-2000.
LEVELE WALL CLADDING & COLUMN SYSTEMS	DOORS
LEVELe Wall Cladding and Column Systems that incorporate the same materials and finishes as those offered for LEVELc-2000 are available for surrounding areas. Please refer to the LEVELe Wall Cladding System and LEVELe Column System Product Data Sheets for additional information.	Forms+Surfaces manufactures a full range of entrance doors and door pulls in materials and finishes that complement those offered for LEVELc-2000 Elevator Interiors. Please refer to individual Door and Door Pull Product Data Sheets for additional information.

#### **CUSTOM ELEVATOR INTERIORS**

If your design requirements go beyond the standard LEVELc-2000 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**

Design Guides are available for each standard LEVELc-2000 model to lead you through the specification process in a simple, checkbox format. The Design Guide captures all the information needed to generate a quote: dimensions, finishes, handrail selections and other options. CSI specifications are also available on our website.

