FORMS+SURFACES®

LEVELc-1000 ELEVATOR INTERIORS

LEVELc Elevator Interiors are ideal for new equipment or modernization projects. Complete, pre-engineered packages are available for standard sizes of passenger and service elevators, single or double opening. LEVELc-1000 is a rugged full panel system optimized for airports, educational institutions, parking structures and other public areas where maintainable aesthetics and resistance to abuse are important concerns.

SYSTEM COMPONENTS

Standard: Panels, Bases, Reveals, Installation Hardware
Optional: Handrails, Ceiling with Light Fixtures, Emergency Lighting Power Source

STANDARD MODELS

LEVELc model designations are based upon the physical configurations of the wall panels. LEVELc-1000 panel faces are formed from a single piece of Stainless Steel, Elemental Metal, or Fused Metal.

STANDARD MATERIAL OPTIONS

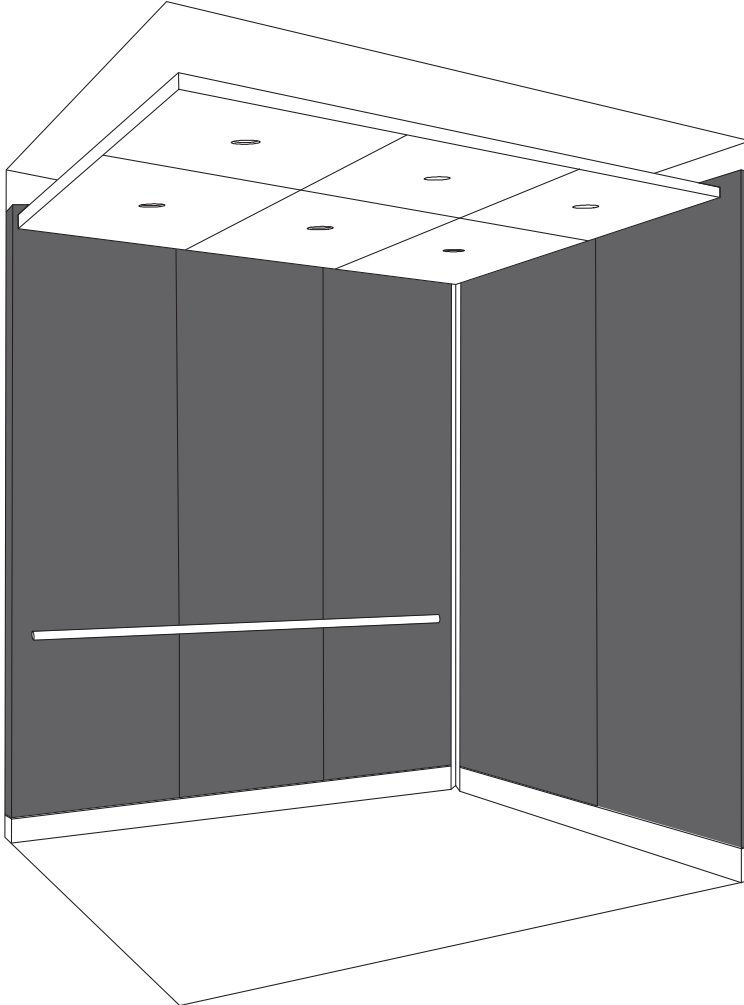| STAINLESS STEEL	FUSED METAL	ELEMENTAL METAL
Stainless Steel in all of our standard finishes can be specified for panel faces. Optional patterns can also be specified for added visual interest and enhanced functionality. Impression patterns bring dimension to the surface, while eco-friendly Eco-Etch patterns offer a wide array of standard designs and customization potential. 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.	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.

PANEL & COMPONENT DETAILS

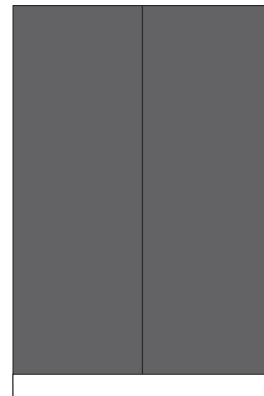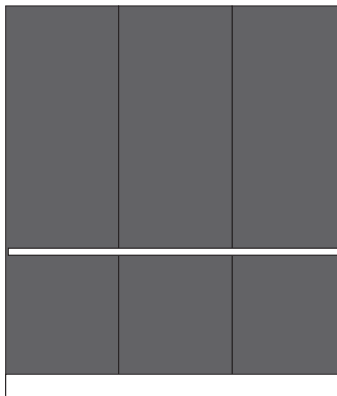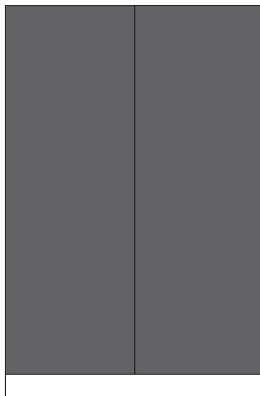| WALL PANELS	BASES	REVEALS
• Wall panels consist of Stainless Steel, Elemental Metal, and Fused Metal decorative faces bonded to a fire-rated structural substrate. • The substrate includes an aluminum backer for enhanced panel stability. Total panel thickness, including attachment system, is a nominal 15/16".	• A 4" high base is fitted between the finished floor and the wall panels. Bases consist of Stainless Steel, Elemental Metal, or Fused Metal decorative faces applied to a fire-rated structural substrate with an aluminum backer.	• 90° angled Stainless Steel, Elemental Metal, or Fused Metal reveals are supplied for the elevator rear corners; flat stainless steel reveal strips are supplied for front corners and for the areas between adjoining panels.

FORMS+SURFACES®

LEVELc-1000

Configure your LEVELc-1000 designs using the Elevator Design Studio, our interactive 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.

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

Bullet

Double Ring

Cylinder

Clamshell

Ring

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

Block

Vise

Clamp

1" x 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

SEXTANT™ SERIES

Bullet

Taper

Cylinder

Column

Tee

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

Radius Bend End

Flat End

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" x 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

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 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 canopy-mount option incorporating track-adjustable tie rods is also available for large elevators and elevator configurations not conducive to the side-mount standard. • A minimum of 8" of clearance from the cab shell ceiling to the visible ceiling face is necessary for installation of the ceiling.	• 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. • LED perimeter accent lighting is available for use with 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

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-1000 wall panels, bases, handrails, crash rails, and ceilings comply with the following codes and guidelines:	
ASME A17.1a-2006: 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 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.	

COMPATIBILITY & WEIGHT

SHELL COMPATIBILITY	WEIGHT INFORMATION
LEVELc-1000 Elevator Interiors can be specified for elevators of just about any size, weight capacity or door configuration. Most interiors are installed in steel cab shells, but LEVELc-1000 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-1000 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-1000 wall panels weigh approximately 3.3 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 elevator 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, making it easy to organize materials on site. Ceilings, if specified, are crated separately. All crates arrive with components neatly organized and includes all the necessary fasteners, adhesives and installation instructions.	Designed for quick installation, LEVELc-1000 uses a system of extruded aluminum mounting clips that come pre-installed on the wall panels. Mating clips are field-attached to the elevator 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-1000 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-1000.
LEVELe WALL CLADDING & COLUMN SYSTEMS	**DOORS**
LEVELe Wall Cladding and Column Systems that incorporate the same materials and finishes as those offered for LEVELc-1000 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-1000 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-1000 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-1000 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.