



ELEVATOR CEILINGS

PRODUCT DATA





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Elevator Ceilings are available in a wide range of Forms+Surfaces' Stainless Steel and Fused Metal finishes. Our elevator ceilings can be specified with our LEVELe or LEVELc elevator interiors, or they can be incorporated into an existing or custom elevator interior.

STANDARD COMPONENTS

Ceiling with Light Fixtures, Emergency Lighting Power Source

COMPONENTS & LIGHTING

CEILING OPTIONS	LIGHTING
<ul style="list-style-type: none"> 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 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. 	<ul style="list-style-type: none"> 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.

STANDARD MATERIAL OPTIONS

STAINLESS STEEL	FUSED METAL®
Stainless steel can be specified for elevator wall panel insets and ceilings in all of our standard finishes. In addition, a variety of three-dimensional patterns can be applied to the elevator wall panel insets to add visual interest or to enhance functionality. Please refer to our website and the Stainless Steel Product Data Sheet for complete information on available stainless steel finishes and patterns.	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 range of rich color options and can be specified for elevator wall panel insets and ceilings. Please refer to the Fused Metal Product Data Sheet for finish swatches and additional information.

PRODUCTS & APPLICATIONS

LEVELe® ELEVATOR INTERIORS	LEVELc ELEVATOR INTERIORS
LEVELe Elevator Interiors represent a versatile panelized system based on self-revealing extrusion channels, aluminum-framed panels, and extensive material options.	LEVELc Elevator Interiors expand the range of design and performance options with configurable layouts that can be tailored to project-specific applications.

DELIVERY & INSTALLATION

DELIVERY	CEILING INSTALLATION
<ul style="list-style-type: none"> Each ceiling arrives in a single crate. If elevator interiors are also specified, wall panels, bases, reveals and handrails arrive in a separate crate, making it easy to organize materials on site. The crate arrives with components neatly organized and includes all of the necessary fasteners and installation instructions. 	<ul style="list-style-type: none"> Standard ceilings use a side-mount installation system that attaches the ceiling to the upper side walls 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 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.

MAINTENANCE

STAINLESS STEEL & FUSED METAL
Fingerprints and smudges can be removed using a non-chlorinated spray cleaner/degreaser such as Simple Green® and a microfiber cloth. Stainless steel's bright appearance can be maintained by occasional polishing with a soft cloth dipped in common household white vinegar. Commercial products specifically formulated for stainless steel such as 3M™ Stainless Steel Cleaner and Polish may also be used. Do not use harsh abrasives, acids or chlorine-based cleaners or cleaning tools containing carbon steel, such as steel wool or wire brushes.



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LED DOWNLIGHTS

LAMP	POWER SUPPLY
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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



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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 and Fused Metal are generally considered to be Class A/I fire-rated for smoke development and flame spread.

CODE COMPLIANCES

LEVELe 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.	

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 LEVELe 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.