




 **COLUMBIA**
ELEVATOR
AN  ELEVANTIS COMPANY

Welcome

At Columbia Elevator, quality, safety, and customer satisfaction remain our top priorities.

Our skilled team and advanced facilities ensure we meet or exceed the highest standards in the industry.





Your **Trusted Partner**
in Architectural Elevator Products
and Door Operating Equipment

About us



Based on tradition, enhanced by technology and forward-thinking.

Columbia Elevator is a multi-generational company – a synthesis of traditional hard work and knowledge gained over decades by its founder, Mr. Louis Blaiotta Sr. combined with the technology-based and forward-thinking business philosophies of his son, Mr. Louis "LJ" Blaiotta Jr.

With manufacturing facilities in Oxford, Connecticut and Winfield, Kansas, and our Sales, Engineering, and Design Center of Excellence in Miramar, Florida, Columbia Elevator offers a comprehensive range of products and services to meet the needs of any project.

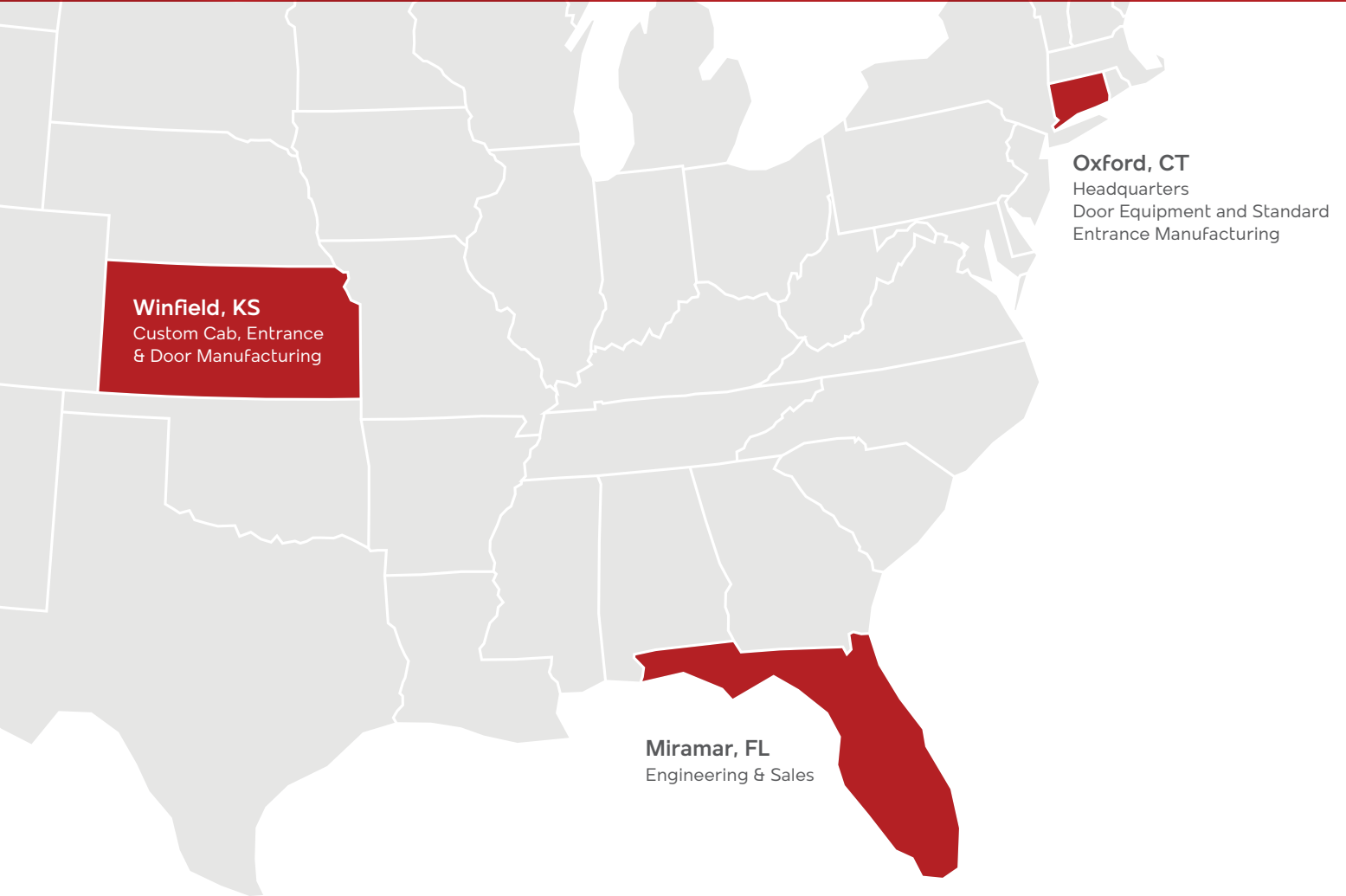
In July 2022, Columbia Elevator and US Door Equipment Corp. entered a strategic partnership, providing both new construction and modernization markets with complete automatic door systems.

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A trusted partner you can rely on for every need, every choice, always delivered with highest level of customer satisfaction.

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Where and when



Columbia Elevator is founded by Louis Blaiotta, Sr. in Port Chester, NY.

1967

Joins the National Association of Elevator Contractors (NAEC).

1971

Louis "LJ" Blaiotta, Jr. joins the Company. Columbia is issued Underwriters Laboratories (UL) label procedures for 10-foot tall drywall entrances.

1989

1965

Columbia Elevator begins shipping custom and standardized entrances.

1968

Adds the fabrication of custom elevator cabs to its services.

1984

Columbia files and tests a new classified elevator cab procedure in accordance with section 2 of ASME/A17.1 Elevator and Escalator Safety Code. This remains a Columbia exclusive: the only UL-classified cab procedure in the market.

Why choose us



Comprehensive Solutions

From new construction to modernization or repair, we offer a full range of products from the basic to the highly customized.



Reliability

Trusted across North America for delivering solutions on time, every time.



Expertise and Innovation

Leveraging our partnership with US Door Equipment Corp., we now also provide advanced door systems.



Safety and Code Compliance

Consistently at the cutting edge on matters of safety, Columbia has been certified from multiple 3rd party testing facilities including UL, and keeps safety and code compliance as our core value.

InstaFast® cab assembly system is patented. Featuring a "bolt-less" wall and cab top panel construction method, it is much faster and safer than traditional methods.

2007

Relocation of the original 35,000 sq-ft Port Chester facility into an expanded 100,000 sq-ft building in Bridgeport, CT.

2015

US Door Equipment Corp. (USDE) is founded, complete with a 140,000 sq-ft greenfield investment in Oxford, CT.

2022

1991

Acquisition of a 100,000 ft2 facility located in Winfield, Kansas.

2009

Opening of Columbia's new Center of Excellence in Florida housing our Sales, Engineering and Customer Service functions.

2020

Columbia Elevator and US Door Equipment Corp. enter a strategic partnership and establishes new headquarters in Oxford, CT.

The Elevantis Group

Columbia Elevator is proud to be part of the Elevantis Group. Elevantis, our R&D Platform, develops integrated motion solutions for elevators, including traction machines, control panels, inverters, architectural products, door systems, and safety components.



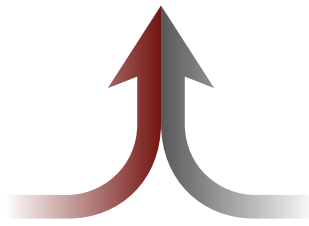
Expertise through partnership

Columbia's door expertise is enhanced through our partnership with US Door Equipment Corp., another member of the Elevantis Group. This collaboration allows us to provide advanced and reliable door systems tailored for the North American market.

**Fully equipped
Doors Systems**



**Doors, Entrances
& Cab Options**



Doors Equipment



Finding the right solution to our customers' needs is a core tenet for us. Whether serving the Commercial Low- to High-Rise, Low- to High-Speed, LULA, or Private Residence markets, Columbia Elevator & USDE can tailor a solution to fit your requirements. All of this is provided at pricing and delivery times that are sure to help you win jobs, satisfying both your needs and those of your customers.

Meet the need



New construction

We design and manufacture complete cabs and door systems for any size building.



Modernization

XChangaCab® interiors, replacement door panels, door equipment.



Repair

QuikDoor™ replacement program and spare parts.





Product overview



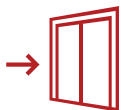
Door Systems

In partnership with Us Door Equipment Corp. Columbia now offers multiple options in complete door systems and door equipment. Enjoy the best lead times in the industry and trust us to deliver top-notch, economical solutions.



Cab Systems

Columbia Elevator offers a full line of Cabs for use in New Construction or Modernization of Commercial or Residential buildings. We offer customized solutions to suit your project's needs.



Entrances

Columbia Elevator offers Conventional Entrances, which are free-standing systems at each landing; Custom Entrances, which our engineers can design based on your project's unique criteria; and the QuikEnt®, Columbia's proprietary tower system that begins in the pit and stacks in the hoistway.



Doors

Columbia Elevator offers doors in three different styles, each with its own unique features and benefits. Many sizes are available, ready to ship with 2- or 10-day lead times. Ask us about all of our options, including custom opening sizes and pre-drilled or punched doors.

Door Systems

In partnership with US Door Equipment Corp. and with our greenfield investment in Oxford, CT, Columbia now offers multiple options in complete door systems and door equipment. Enjoy the best lead times in the industry, and trust us to deliver top-notch, economical solutions.

We offer three different products:

Robusta

Designed as a **direct replacement** for existing standard door equipment and for most common door systems in the NA market.

Premium NA

Slim profiles for **Commercial & New Construction**, including **LULA**.

4010

A **Fully automatic door solution** for the **Home Elevator** market.

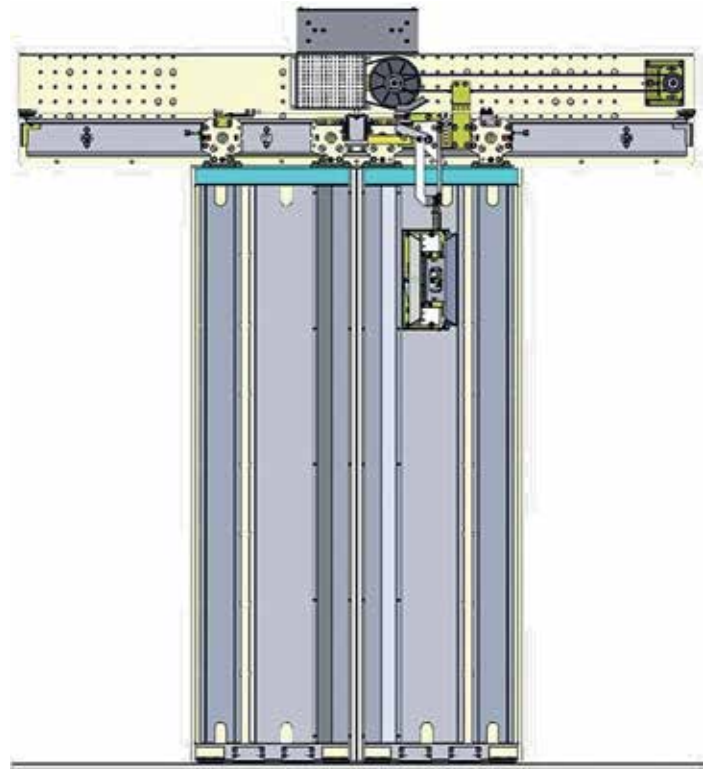


Robusta Door System

For Modernization & New Installations

Features

- **Fast Install:** Pre-adjusted, factory tested, and self-learning in the field to simplify installation.
- **Transom Mounted:** The entire door operator fits within the sill depth, freeing up valuable car-top space.
- **Standard Spacing:** From the face of the shaft door to the face of the car door, Robusta requires 9-1/8" for S/SP and 12-1/8" for 2/SP (based on a 1-1/4" running clearance and 1/4" door gaps).
- **Heavy-Duty:** 5-3/4" high by 3/16" thick door tracks with 3-5/8" diameter concentric sheaves.
- **Flexible:** Compatible with numerous entrance types.
- **Code Compliant:** UL-certified and fire-rated to A17.1 standards.



Robusta combines with **Columbia's QE4** entrance assemblies for commercial low- to mid-rise applications.

Door Configurations

LIFT APPLICATION		
Door cycles per year: up to 2,500,000		
Maximum cycle rate: up to 360 cycles per hour		
Maximum lift speed: up to 700 ft/min		
APPLICATION RANGE		
Opening	Clear opening widths (inches)	Clear height max. -HL max. (feet)
C.O.	36, 42, 48	9 ⁽¹⁾
S/SL	36, 42	8 ⁽²⁾
2/SP	36, 42, 48	10 ⁽³⁾

(1) Car door. (2) Landing door, Drywall execution. (3) Landing Door, Masonry execution.

Robusta is a heavy-duty door system designed for both **modernization** and **new construction**. It serves as a **direct replacement** for existing standard door equipment and for most common door systems in the NA market.



Robusta Car Door Operator

DRIVE	
Type	Synchronous brushless permanent magnet motor
Efficiency	80 %
Power	Standby 4W / Average per cycle 20W
Transmission	Geared Width 36-54 inches Open belt: STD-8M Close belt: Poly-V8J
ELECTRONIC MODULE	
Type	VF5+
Parameters adjusted via	PC / Console
Signal range	From 12 V to 240 V AC/DC
OTHER FEATURES	
Noise level	< 51 dB
Total weight	Example: S/SL, 42"=132lb
Maximum moving mass	793.7 lbs



Robusta Landing Mechanism

GENERAL FEATURES	
Noise level: < 51 dB	
Total weight: S/SL 42"=37.5 lbs	
Concentric wheels, diameter 3.62"	
Inverted landing lock	
Lock and clutch assembled on the panel	
SmarTork™ Spirator closing device	

Premium NA Complete Door System

Slim profiles for New Construction, Commercial & LULA

Features

- **Ultra Slim:** from the face of the shaft door to the face of the car door, Premium NA requires only 5" for S/SP and 7-3/4" for 2/SP, based on a 1-1/4" running clearance and 1/4" door gaps.
- **Save Valuable Shaft Space:** Premium NA frees up 4-1/8" of shaftway space for S/SP and 4-5/8" for 2/SP compared to traditional solutions.
- **Customizable:** Combine with our other products* for a full range of custom options.

**Available only as complete door systems. Car-side includes car door operators, car door panels, and car sills; landing-side includes entrance frames, doors, roughs, and landing door mechanisms.*



Options

- **Premium NA-CP:** Premium NA landing mechanisms can be bundled with Columbia's PE-4 entrances, allowing for a broad range of custom architectural designs.

Door Configurations

LIFT APPLICATION
Door cycles per year: up to 2,500,000
Maximum cycle rate: up to 360 cycles per hour
Maximum lift speed: up to 700 ft/min
Door types: S/SL, 2/SP & C.O.
Opening widths: 36", 42", 48", 54"
Opening heights: 7", 8", 9"

Equipment that outperforms the competition with proven reliability and significant cost savings compared to other systems.



Premium NA Car Door Operator

GENERAL FEATURES

The Motor & Drive are UL certified

Mechanical tests passed in accordance with ASME A17.1/5 standards

Roll-formed car track, 3-1/2" tall by 3/16" thick

Concentric rollers: 2-9/16" diameter

AC synchronous brushless permanent magnet motor. 10 pairs of poles, PM10

Gearless transmission via High Torque Drive belt with parabolic tooth profile

Electronic circuit, VF5+

Operator height: 15-3/4" above clear opening



Premium NA Landing Mechanism

GENERAL FEATURES

Roll-formed hatch track 3-1/2" tall by 3/16" thick

Concentric rollers: 2-9/16" diameter

Mechanism height: 8.1/4" above clear opening

4010 Home Elevator Systems

For private residence elevators

A Fully automatic door solution for the Home Elevator market, tried and true with millions in use globally.

4010 is the smart choice for any Private Residence Elevators.



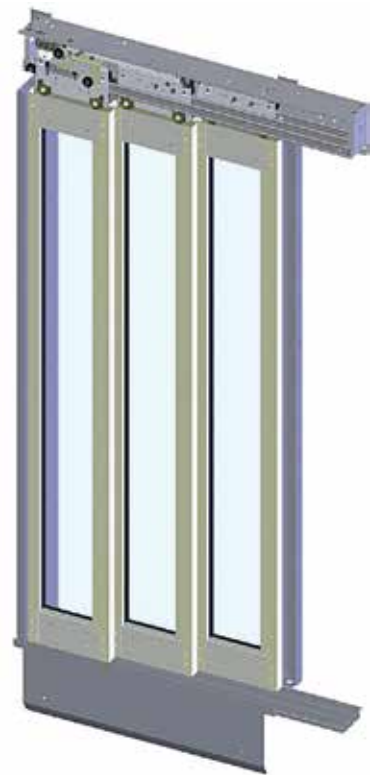
4010 Car Door Operator Features

- Synchronous brushless Permanent Magnet motor.
- Concentric wheels: 1-7/8" diameter with ball bearings.
- Transmission: Gearless, HTD 5M belt.
- Top-track profile: 1-9/16" x 3/8" solid bar.
- Electronic module type: VF 5+.
- Fastening: Hangers screws.
- Low Profile Operator: only 14" above the clear opening height.



4010 Landing Door Mechanism Features

- Concentric wheels: 1-7/8" diameter with ball bearings.
- Top-track profile: 1-9/16" x 3/8" solid bar.
- Fastening: Top-Mounted hangers screws.
- Self-closing system: Pre-Installed Spring.
- Low Profile HatchTrack: only 8-3/4" above the clear opening height.



4010 3/SP Landing Door System

Door Configurations

LIFT APPLICATION				
Door cycles per year: up to 800,000				
Maximum cycle rate: up to 240 cycles per hour				
APPLICATION RANGE				
Opening	Clear opening width (inches)	Clear height max. (inches)	Sill Depth	Jamb size
2/SP	31-1/2", 35-7/16"	80", 84", 90", 96"	3-9/16"	Jamb depth: 2-3/8"
3/SP	31-1/2"	80", 84", 90", 96"	5-5/16"	Head jamb height: 4-11/16"

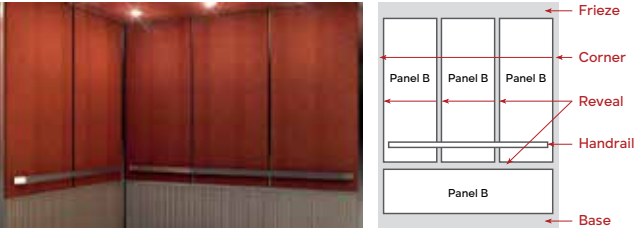


Cab Systems

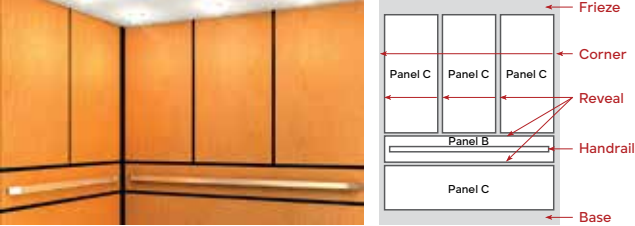
Columbia Elevator offers a full line of passenger and service/freight cabs for use in the new construction or modernization of commercial and residential buildings. In addition to the cab styles described below, we offer wood core, steel shell and observation glass cabs, all of which can be customized to suit your project's needs.

Upon request, any of Columbia's cabs can be built to meet UL-certification, ensuring compliance to the A17.1 code. Columbia is the only company in the industry able to offer this certification.

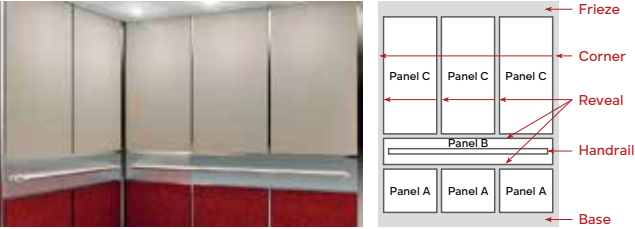
Lexington



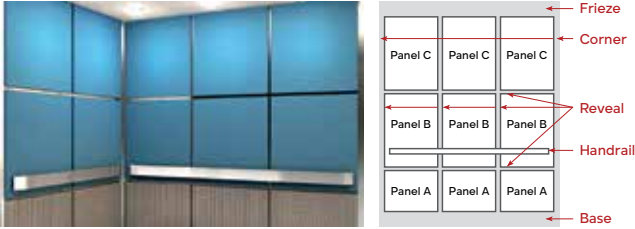
Gramercy



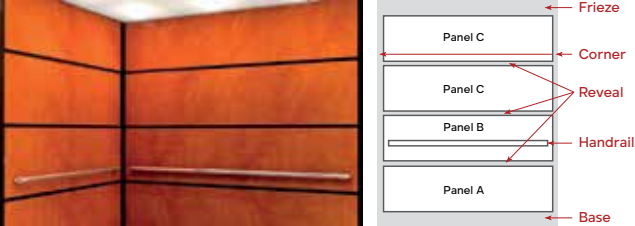
Tribeca



Nolita



Soho



Chelsea





InstaCab®

Standard-sized steel shells that feature the InstaFast® system, in stock and ready to ship.



LamiCan®

A laminated InstaFast® cab shell that provides a "wood" look without the weight of a wood core or the need for hanging panels, helping to maximize platform space for ADA compliance.



XChangaCab®

Offering six different designs of easy-to-install interiors, XChangaCab® can be installed in a matter of hours providing your customers with reduced labor costs and minimizing downtime for tenants during a modernization.



Custom Cabs

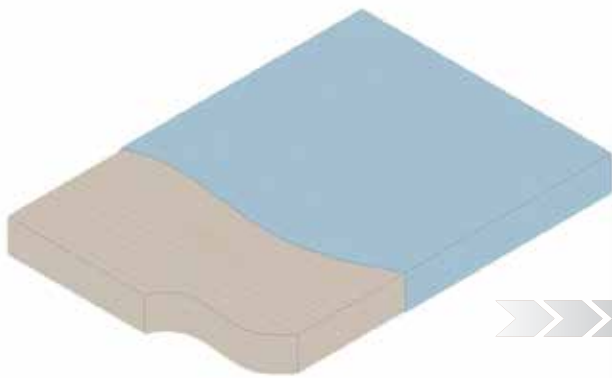
Freight, Hanging Panel, Wood Core and Glass-Walled Cabs. Our meticulously crafted elevator cabs embody beauty and elegance. Whatever you envision, we have the expertise to make it a reality.

Honeycomb Panel Cores

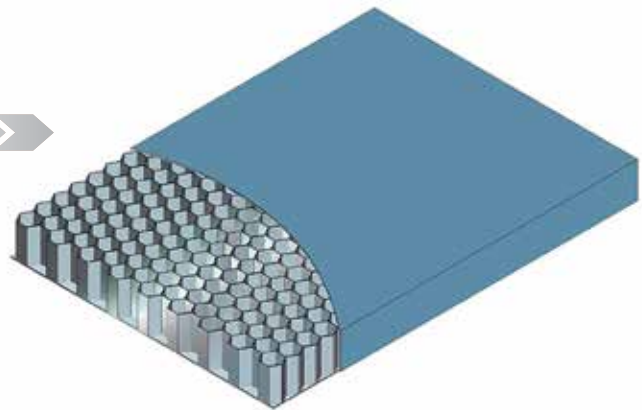
A Game Changer for Cab Interiors

Columbia Elevator has transitioned to Honeycomb cores for all Hanging Panel and Suspended Ceiling interior components, offering significant benefits.

Say goodbye to the inherent issues of wood-based products. Our new cores are 56% lighter, easier to handle, more stable and available to you at no extra cost!



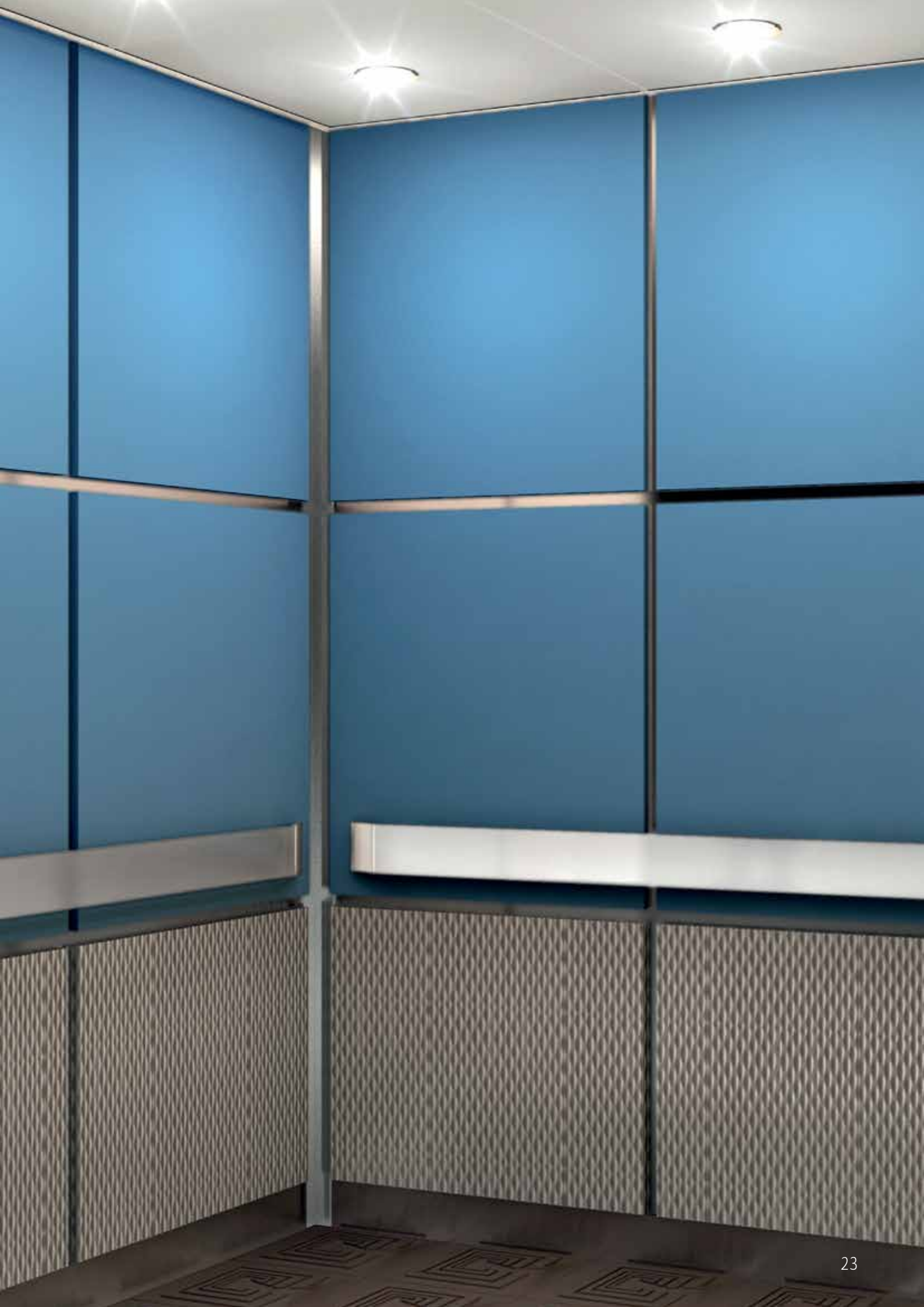
5/8" Fire flake core panel: 2.7 lbs./sq-ft



5/8" complete Honeycomb panel: 1.2 lbs./sq-ft

Features

- Upgraded Suspended Ceilings and Hanging Panels with Honeycomb Core.
- Ready to ship with a 10-week lead time on standard designs.
- 56% lighter, easier to handle, more stable, and cost-effective.



New Cab Options

InstaCab® Cab Shell with Robusta Car Door Operator plus XChangaCab® interior

Does your job site need a construction hoist?

Columbia Elevator offers a simple two-step solution.

Begin by using our InstaCab® steel shell car enclosures as a construction lift.

Once major construction is complete, our fully compliant cab shells can receive a temporary certificate of occupancy (C/O) during tenant move-in.

Finally, install your XChangaCab® interiors to obtain the final C/O.

This approach allows full use of the elevator throughout the construction and turn-over phases of the project, ensuring you won't have to worry about protecting your interior from damage during construction or tenant move-in.

STEP 1

First...

Ship & Install the InstaCab® cab shell, complete with the Robusta® car door operator.

Time Saving

Columbia provides a motorized cab solution (standardized cab shell with a car door operator) in a single delivery.

Quick Assembly

Columbia's bolt-less (InstaFast®) wall connection system saves installation time while enhancing safety.

Code Compliant

Obtain a Certificate of Occupancy while giving your customer time to select the cab interior finishes.



STEP 2

Next...

Ship & Install the XChangaCab® interiors
Pair your InstaFast® cab shell with a honeycomb substrate, XChangaCab® interior.

Lightweight

Fire-resistant Honeycomb is half the weight of conventional panels and drop ceilings made from Fire Flake or MDF board, offering:

- Increased safety margin (especially for modernization projects).
- Potential reduction in motor size (for new installations).
- Safer, easier handling and quicker installation using fewer workers, particularly for drop ceilings.

Stable

Aluminum honeycomb panels excel in:

- Strength across vertical, horizontal or any combination of design and size.
- Super flat panels that resist warping in humid conditions, or when stored for extended periods.

Now affordable to you

Originally reserved for high-end, material-laden or special requirement cab interiors, honeycomb panels are now supplied to you at no additional charge.



Custom Entrances

Select the entrance that suits your project's needs. Columbia is certified to Section 2 of the A17.1 Elevator Safety Code, offering the industry's widest range of available clear opening and transom sizes. We also hold the largest certification for 90-minute fire ratings. Columbia has the authority to custom-fabricate to oversized specifications and issue a Certificate of Compliance.

QuikEnt®

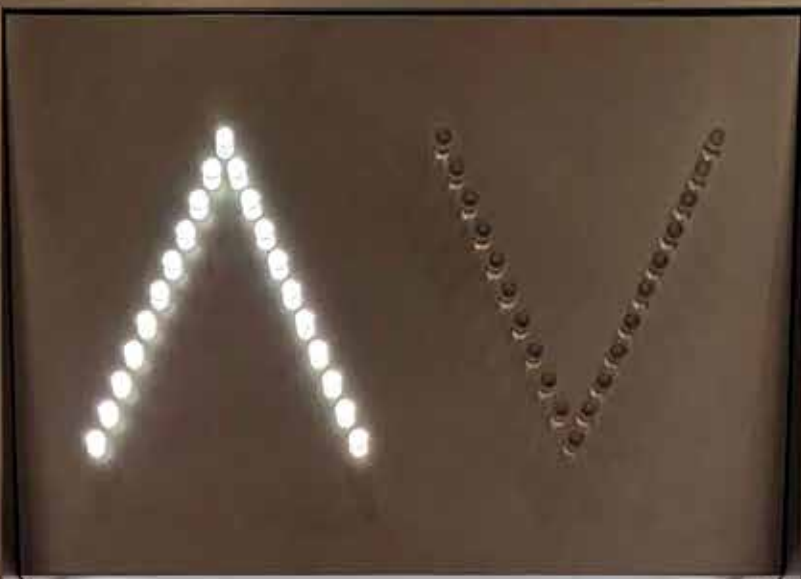
Columbia's QuikEnt® is an entrance system designed with flexibility in mind, suitable for passenger and commercial loading applications.

Classic Entrances

Free-standing systems at each landing, ideal for commercial loading in all side-slide and center-opening arrangements, with or without transoms. For drywall construction, we can accommodate openings up to 8' wide by 10' high, while masonry wall systems can accommodate openings up to 14' wide by 10' high.

Museum Entrances

Custom-designed by Columbia's engineers to meet your project's unique criteria, these entrances offer horizontal sliding doors for extremely wide and tall clear opening sizes in, two-, and three-speed center-opening configurations. For either masonry or drywall construction, the Museum Entrance can provide labeled clear openings up to 15' wide by 12' high, with oversized certificates available for heights up to 14' clear.



QuikEnt®

Designed for Flexibility

QuikEnt® is a tower-style system strong enough to support its own weight when floor slabs cannot accommodate a traditional sill support.

Offering quick installation, QuikEnt® is ideal for high- or low-rise, newconstruction, passenger, and limited commercial loading applications.

Features

- Unhanded and modular entrance construction allows for assembly in stages.
- Strong enough to support its own weight when floor slabs cannot accommodate a traditional sill support.
- QE4 Slim offers a space-saving entrance for tight hoistways.
- QE4 Standard is available for harmonic/modernization applications. Easy assembly.

Available Options

- Suitable for hydraulic or traction installations (C3 loading available).
- Square, splay, bull nose, or radius jambs available.
- Flush or projected transoms available.
- All structural components (roughs) and fascia are made from rust-resistant galvanized metal.

Entrance installation tutorial available on ColumbiaElevator.com





Classic Entrance

Free-standing systems at each landing for commercial loading

Designed by Columbia's engineers and tailored to your project's unique criteria, these entrances are available with or without decorative transoms.

Features

- Offers a wide range of options for most opening sizes.
- Familiar, mechanic-friendly design with easy assembly.
- Unhanded frames (without cutouts). Ideal for heavier "C" loading requirements.
- Configurable in a multitude of ways to suit various needs. Combination wall anchors allow installation in either drywall or masonry walls.
- Suitable for any installation type. Labeled frames available in 16 or 14 gauge.
- Frames can be bolted ("knock-down") or unit construction ("welded").
- Jamb available with square, splay, bull nose, or radius profiles. Flush or projected transoms available.
- Galvanized or structural steel components (roughs) with galvanized fascia, hanger covers, and toe guards.



Museum Entrance

Designed for extremely large clear opening widths and heights

With the largest labeled opening sizes in the industry, Columbia's Museum Entrances offer a horizontal sliding door option as an alternative to vertical parting doors, ideal for mixed-use elevators that can alternately move passengers or freight.

Features

- Conventional assembly.
- Suitable for hydraulic or traction installations (C3 loading available). Jambs available in square, splay, bull nose, or radius profiles.
- Galvanized or structural steel components (roughs), fascia, hanger covers, and toe guards.



Doors

Columbia Elevator offers doors in multiple styles, each with its own unique features and benefits.

Many sizes are available and ready to ship with 2- or 10-day lead times. For non-rush options, custom opening sizes, and pre-drilled or punched doors, be sure to ask about our additional offerings.

Explore the options below, and if you need further guidance in selecting the best door for your project, contact one of our knowledgeable Sales Representatives.

QuikDoor™

Undrilled doors for the fastest turn around.

CustomDoor

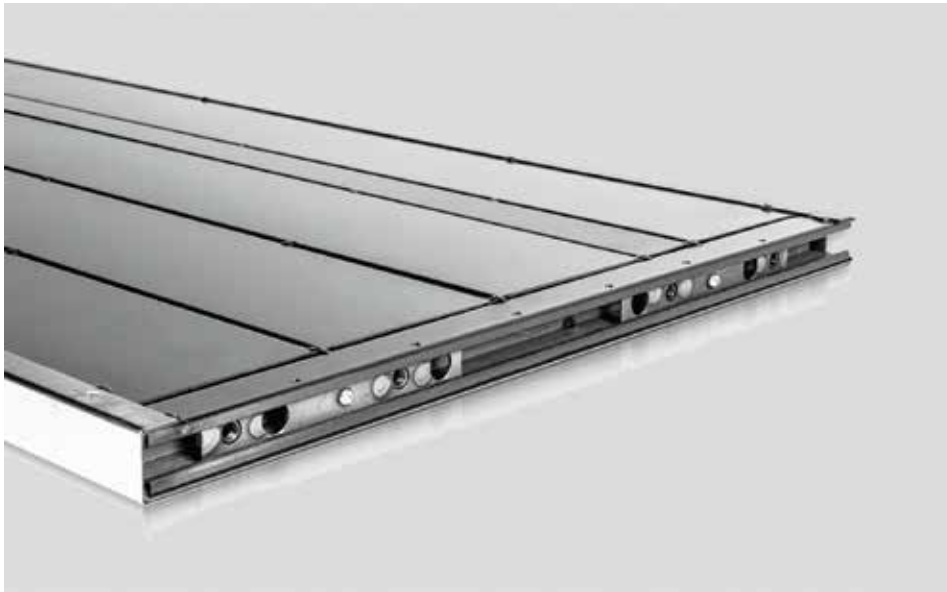
Factory-punched with key slots for standard templates.



QuikDoor™

Undrilled doors for the fastest turnaround

Featuring a universal top channel with a Unistrut design and drop-in pendant plates drilled for all major door equipment hardware, QuikDoor™ provides an unhandled solution that can be field-drilled for emergency replacement.



Survey forms are available at columbiaelevator.com. Available in all speeds

Features

- Unhandled design. Universal top channel with Unistrut design and drop-in pendant plates.
- Available for all speeds.
- Compatible with various types of door equipment.

Specifications

- Made from cold-rolled steel with a 16-gauge core.
- 10 day Door options are available in prime or stainless steel only.
- Includes hardware, gibs, safety retainers, and/or fire clips; center-opening doors include astragals.
- Hatch doors also include Sight Guards (non-vision wings).

Available in standard size openings:

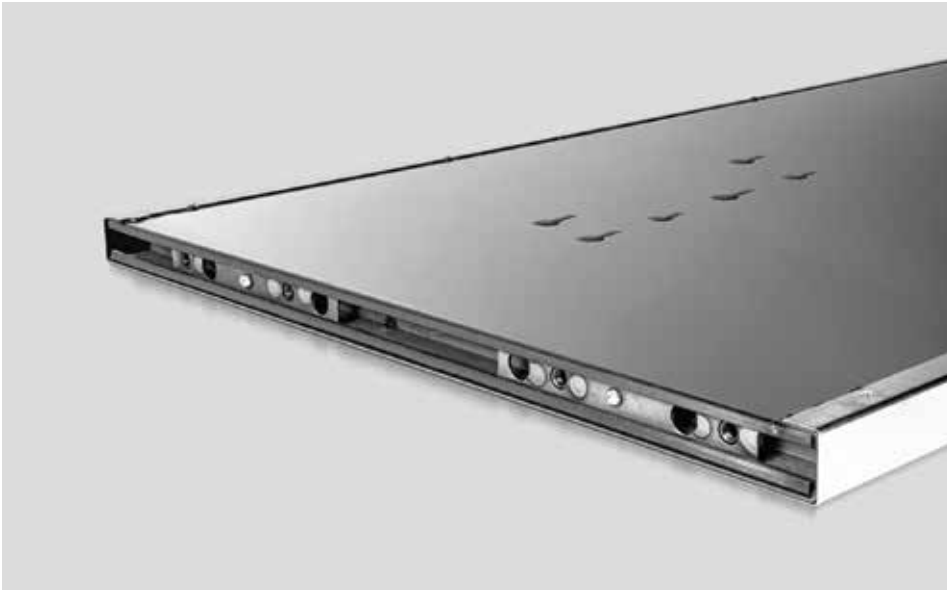
S/SL: 36"X84" & 42"X84"
 2/SP: 42"X84" & 48"X84"
 CO: 42"X84" & 48"X84"

QuikDoor™		Drilled	Undrilled
3 sets or less	2 days	✓	
	7 days		✓
7 sets or less	10 days	✓	
	3 weeks		✓

CustomDoor

Factory-punched with key slots

CustomDoor features stainless steel bottom channels for corrosion resistance, along with a Unistrut top channel for standard applications (with an optional tapped top channel made from stainless steel for labeled openings up to 10' high).



Survey forms are available at columbiaelevator.com. Available in all speeds

Features

- Stainless steel top and bottom channels, custom-drilled for any door equipment.
- Labeled openings up to 10' in height. Available for all speeds.
- Multiple design configurations to suit your preferences, including thin car doors or thick/flush-transom shaft doors.

Specifications

- Made from cold-rolled steel with a 16-gauge core (optional sound-deadening insulation available).
- Finished in your choice of baked enamel paint colors, stainless steel, or other custom cladding materials. Includes hardware, gibs, safety retainers, and/or fire clips; center-opening doors include astragals.
- Hatch doors also include Sight Guards (non-vision wings).

Featured Works

Columbia products are trusted across North America.
Delivering the right solution, on time, every time.
Here a list of featured works by Columbia Elevator.



Hudson Yards
New York City, NY

17' tall entrance
Simulated center
opening transom
54-inch wide with net
48-inch opening





432 Park Avenue
New York City, NY

Zero Clearance Entrances
are built to utilize both
sliding and swing doors



The Tower at PNC Plaza
Pittsburg, PA

Draft seals.
Tested through Intertek
Testing Services





The White House
Washington D.C.



Devon Energy
Oklahoma City, OK

To speed installation,
components were designed
to be installed in an
"Assembly Line" operation





World Trade Center 3 & 4
New York City, NY

20-Foot tall made
8-foot doors and
12-foot transom
Seamless Light Indicator



Salesforce Tower
San Francisco, CA

To meet a staggered Floor and Shaft installation Schedule, Fabrication and Delivery was Coordinated through Direct Communication between the Field Super and Columbia's Plant Manager





Yankee Stadium
New York City, NY



La Guardia Airport
New York City, NY

Finished Frames applied to fire rated sub-Frames to meet this unique Architectural design



LAX

Los Angeles, CA



Philadelphia Museum

Philadelphia, PA

Very elegant and elaborate
Rimex interior



56 Leonard

New York City, NY

Custom 1/4" Hemmed Design
Reverse Transom
Floor-by-Floor crates



Contact us:

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www.columbiaelevator.com

Manufacturing Hubs

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COLUMBIA
ELEVATOR

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