



CRL PROJECT PORTFOLIO

COMMERCIAL OFFICE | EDUCATION | GOVERNMENT | HOSPITALITY
MIXED USE | RETAIL | SPORTS & ENTERTAINMENT

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ENTRANCES | STOREFRONTS | CURTAIN WALLS | RAILINGS | SHOWER HARDWARE | OFFICE PARTITIONS | TRANSACTION & SECURITY | SUN CONTROLS



CASE STUDY | SPORTS AND ENTERTAINMENT

BANC OF CALIFORNIA STADIUM

LOCATION: Los Angeles, CA
 ARCHITECT: Gensler
 GLAZING CONTRACTOR: Helou Construction

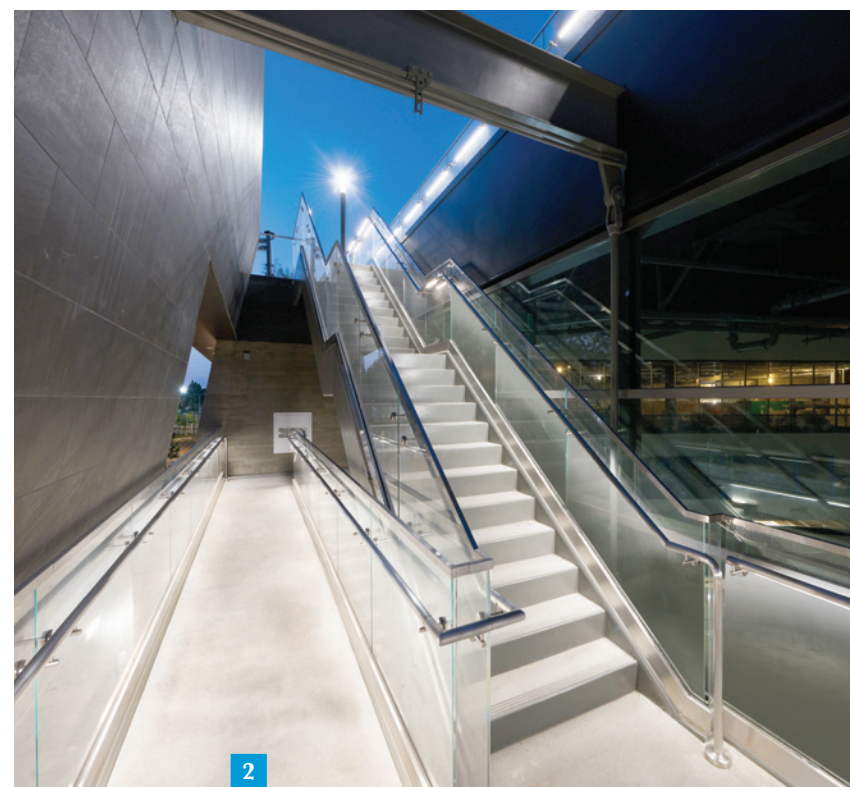
The Gensler-designed, 22,000-seat Banc of California Stadium represents the first open-air professional stadium built in Los Angeles since 1962. The state-of-the-art venue hosts Major League Soccer games and acts as the home of the Los Angeles Football Club. Banc of California Stadium's purpose is to help revitalize the Los Angeles Exposition Park neighborhood.

C.R. Laurence manufactured and supplied custom all-glass entrances, glass railings, and bullet resistant transaction systems to enhance the aesthetics and function of the stadium.

DRS Door Rails and Blumcraft Panic Handles were installed throughout the structure, including VIP entrances and suites. DRS Door Rails provide clean, uninterrupted glass spans, which give the entrances a contemporary, all-glass aesthetic. The accompanying Blumcraft Panic Handles further enhance the all-glass visual using a slim and elegant tubular design.

Select areas of the stadium incorporate the company's GRS TAPER-LOC Glass Railing System. The railing system is ICC-ES approved and engineered to comply with 2015 IBC updates. This makes it easy to specify because it ensures codes will be met. Accompanying HRS Handrails were installed with LED lighting for improved visibility and aesthetic appeal.

Banc of California Stadium's ticketing areas feature Bullet Resistant Transaction Windows and Speak-Thrus from CRL. The transaction systems provide a high level of security and protection, while allowing fast and easy communication with event attendees.



08 4210
1 GLASS ENTRANCE SYSTEM
 DRS Door Rail System with Blumcraft® PA100 Series Panic Handles

05 7310
2 GLASS RAILING SYSTEM
 GRS TAPER-LOC® Glass Railing System with HRS Handrails and LED lighting

08 5670
3 TRANSACTION WINDOWS
 Bullet Resistant Transaction Windows, Speak-Thrus, and Deal Trays



CASE STUDY | MIXED-USE | HOSPITALITY

METROPOLIS and HOTEL INDIGO

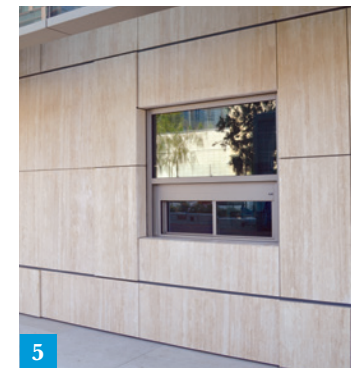
LOCATION: Los Angeles, CA
 ARCHITECT: Gensler
 GLAZING CONTRACTOR: Azurelite Inc.

One of the latest additions to the Downtown Los Angeles skyline is Metropolis—an expansive mixed-use development aimed at redefining urban living. Metropolis encompasses 6.3 acres of real estate, and features three residential towers, a luxury hotel, a 60,000 sq. ft. retail pavilion, and high-end restaurants. C.R. Laurence supplied a wide variety of architectural glazing systems to improve the function, safety, and aesthetics of the new, ultramodern complex.

The main entryways on the lower levels utilize DRS Door Rails with Blumcraft Panic Handles. DRS Door Rails provide clean, uninterrupted glass spans that complement the overall contemporary aesthetic. Blumcraft Panic Handles feature an elegant tubular design that enhances aesthetics while improving safety. Because they're UL classified to ANSI/BHMA A156.3-2001 Grade 1, they're well suited for the high foot traffic that Metropolis attracts.

Hotel Indigo is Metropolis' flagship luxury hotel, offering in-demand amenities and services. Its grand staircase features CRL's GRS Laminated Guardrail System. With its clean sightlines and minimal hardware, the guardrail system improves transparency and daylighting. CRL also supplied 6,500 linear feet of GRS Base Shoe that was used throughout the residential towers.

CRL systems were relied upon for a significant portion of the glazing scope. With its comprehensive product line and manufacturing capacity, the company was able to provide the customized, single-source solutions needed to meet the project's schedule, code requirements, and design intent.



08 3220

1 CUSTOM TOP-HUNG SLIDING GLASS DOORS
 Versatile glass wall that separates the living and sleeping areas

10 2880

2 FRAMELESS SHOWER HARDWARE
 Geneva Shower Door Hinges with CRL Pull Handle/Towel Bar Combination Set

08 4210 & 08 7100

3 GLASS ENTRANCE SYSTEM
 DRS Door Rail System with Blumcraft® PA100 Series Panic Handles

05 7310

4 GLASS RAILING SYSTEM
 GRS TAPER-LOC® Glass Railing System with HRS Handrails

08 5680

5 TRANSACTION WINDOWS
 Deluxe Sliding Service Window

05 7310

6 GLASS WINDSCREEN SYSTEM
 Custom-Fabricated Stainless Steel Post Windscreen System



- 05 7310
- 1 GLASS RAILING SYSTEM**
GRS TAPER-LOC® Glass Railing System

- 08 4426.19
- 2 POINT SUPPORTED GLASS**
Glass Wall Spider Fittings

- 08 4210
- 3 GLASS ENTRANCE SYSTEM**
DRS Door Rails, Top Patch Fittings and Ladder Pull Handles

CASE STUDY | RETAIL RETROFIT

8500 MELROSE

LOCATION: West Hollywood, CA
 ARCHITECT: Tighe Architecture
 GLAZING CONTRACTOR: Bear Property Service

Once a structural eyesore in the heart of West Hollywood, 8500 Melrose has been redesigned to capture and emanate the bustling energy produced by the surrounding high-end shopping, dining, and entertainment venues.

8500 Melrose was originally built as a mini-mall in the mid-eighties, employing a postmodern, almost brutalist style. The result was a heavy granite facade that no longer had a place in today's architectural era that values sweeping glass visuals, transparency, and daylighting. The retrofit therefore entailed a substantial reconstruction of the exterior skin.

Los Angeles-based Tighe Architecture effectively merged two distinct architectural treatments to create a bold and dynamic identity. What begins as a granite envelope is seamlessly pulled back to reveal an all-glass aesthetic that is both striking and inviting.

C.R. Laurence manufactured and supplied the architectural glazing systems needed to realize this key visual statement. The company's Spider Fittings were utilized to engineer the expansive glass wall. DRS Door Rails form the glass entrances that serve to complement the surrounding motif. Finally, C.R. Laurence's ICC-ES approved GRS Glass Railing System is featured prominently on the second floor terrace, enhancing sightlines while ensuring occupant safety.





CASE STUDY | EDUCATION

INDIAN RESIDENTIAL SCHOOL HISTORY & DIALOGUE CENTER

LOCATION: Vancouver, BC, Canada
 ARCHITECT: Formline Architecture
 GLAZING CONTRACTOR: Lynnour Glass

Located at the center of the University of British Columbia campus, the Indian Residential School History and Dialogue Center was established to create a platform for open communication and education on Canada's long abolished Indian residential school system. The distinct sloped foundation of the building conveys an extension of the existing landscape and symbolizes its connection to the nation's history.

Vancouver's colder climate has led to the implementation of stringent energy codes. With a comprehensive portfolio of high-performance thermal glazing systems, C.R. Laurence was selected to supply the entirety of the building envelope scope.

The Series 2202 Curtain Wall is thermally improved to exceed thermal performance requirements. The system features a skip and debridge thermal

break and a continuous thermal spacer to effectively mitigate heat transfer. A slim 2-inch face trim improves sightlines and all-glass visuals. Seamlessly integrated into the curtain wall are Series 7600 Concealed Vent Windows. A low-profile, thermally broken frame balances aesthetics and performance, while offering flexibility in interior temperature control.

Entrances on the first and second levels are outfitted with Mojave Series Advanced Thermal Doors. Mojave delivers optimal thermal performance using polyamide struts and cutting-edge internal insulation. Doors are 1-3/4" thick, which makes them compatible with a wide range of standard architectural hardware.

C.R. Laurence's single-source building envelope solutions simplified the design, specification, logistics, and installation of thermal glazing systems at the Indian Residential School History and Dialogue Center. More importantly, they helped create expansive glass spans and complete transparency, countering the feeling of confinement that once characterized Indian residential schools.

08 4413

1 CURTAIN WALL SYSTEM
 Series 2202 Curtain Wall System

08 5113

2 COMMERCIAL WINDOWS
 Series 7600 Concealed Vent Window

08 1116

3 THERMAL ENTRANCE SYSTEM
 Mojave Series Advanced Thermal Entrance System





CASE STUDY | COMMERCIAL OFFICE RETROFIT

777 AVIATION

LOCATION: El Segundo, CA
 ARCHITECT: Skidmore, Owings & Merrill
 GLAZING CONTRACTOR: Glazing Concepts

El Segundo has evolved into a modern and diverse business community. In step with the city's transformation, renowned architecture firm Skidmore, Owings & Merrill (SOM) reimagined the 777 Aviation building to reflect the needs and culture of today's workspaces.

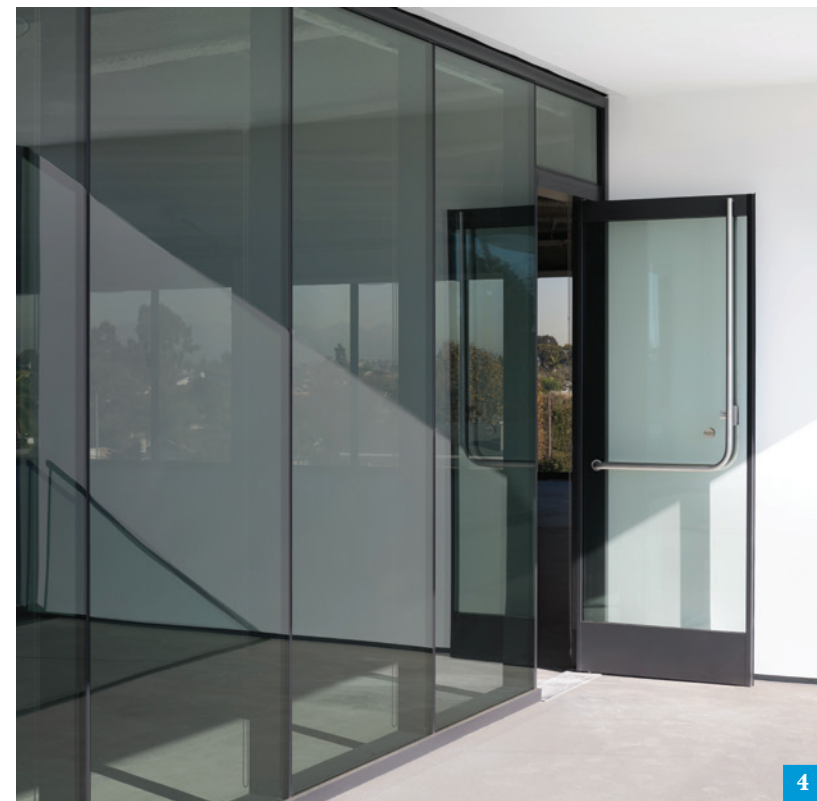
SOM leveraged the benefits of glass throughout the building to optimize daylight diffusion, thermal performance, and aesthetics. Integrating a grand atrium with a series of large-scale skylights; removing concrete shear walls; and incorporating fenestration systems that satisfied thermal performance requirements without compromising the design intent, all played key roles.

C.R. Laurence manufactured custom glazing systems to help meet the project's various needs. The first floor facade and upper level terrace areas incorporate the company's Series 4500SG Structural Silicone Glazed Curtain Wall. The system utilizes polyurethane thermal breaks and injection-molded thermoplastic connectors that join interior and exterior members to achieve total thermal isolation.

The upgraded envelope also features C.R. Laurence's Entice Entrance System. The system features ultra-narrow 1-1/8" vertical stiles that deliver a striking all-glass aesthetic while providing U-factors as low as 0.43. In addition, it has the unique ability to support handle hardware on 1" insulating glass using proprietary through-glass fittings.

Interior glass entrances incorporate DRS Door Rails with floating headers and low-profile sidelite channels that produce clean glass spans. DRS Door Rails are paired with Blumcraft Panic Handles, which offer an elegant tubular design.

The grand atrium at 777 Aviation's core is flanked by walkways lined with CRL's GRS TAPER-LOC Glass Railing System. The railing system is ICC-ES approved and complies with 2015 IBC updates to ensure codes are met.



08 4413

1 CURTAIN WALL SYSTEM

Series 4500SG Structural Silicone Glazed Curtain Wall

05 7310

2 GLASS RAILING SYSTEM

GRS TAPER-LOC® Glass Railing System

05 7310

3 GLASS RAILING SYSTEM

GRS TAPER-LOC® Glass Railing System with HRS Handrails

08 1116

4 THERMAL ENTRANCE SYSTEM

Entice® Entrance System



CASE STUDY | GOVERNMENT

UNITED STATES COURTHOUSE

LOCATION: Los Angeles, CA
 ARCHITECT: Skidmore, Owings & Merrill
 GLAZING CONTRACTOR: Golden Glass

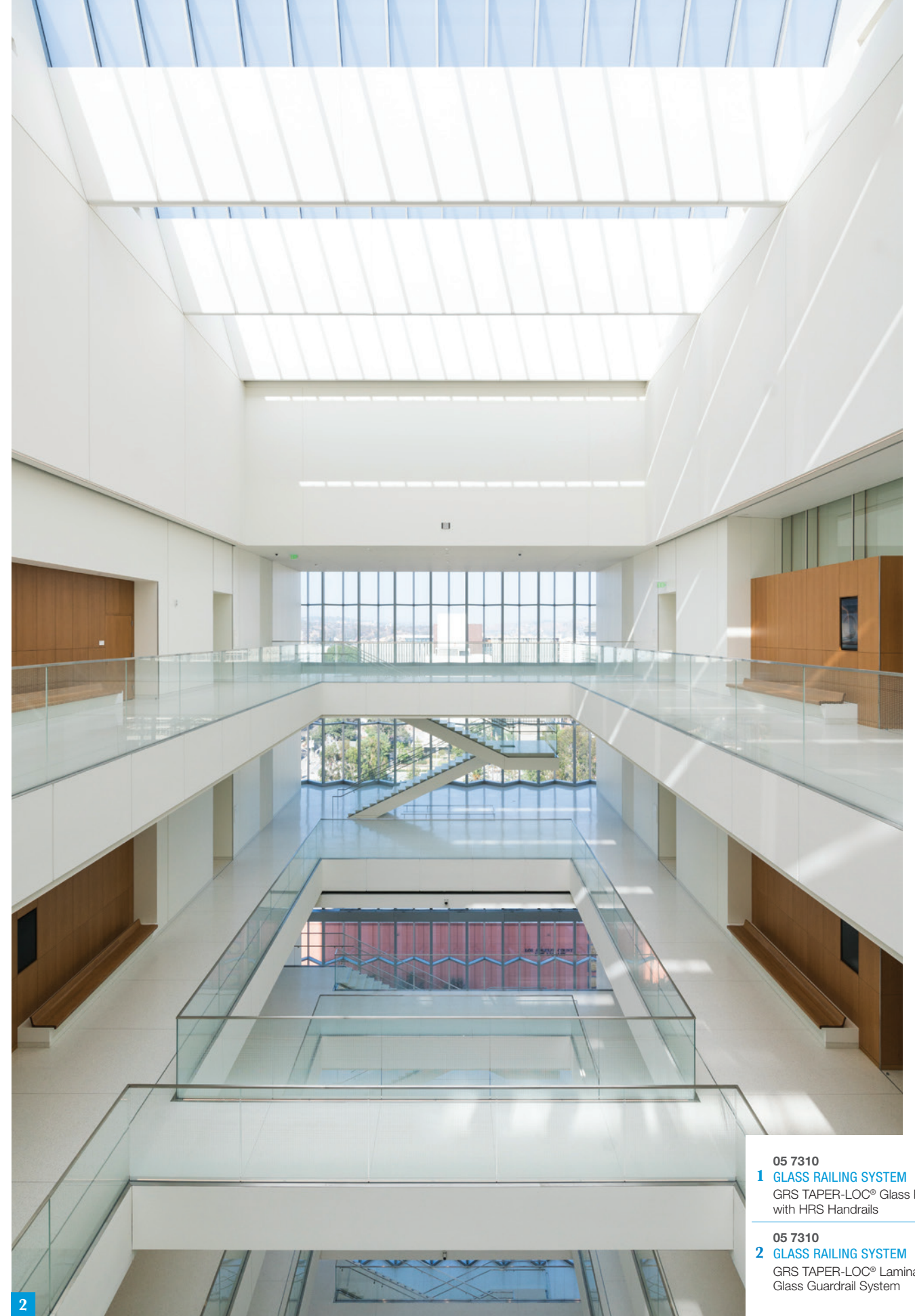
The United States Courthouse in Los Angeles is a 10-story, 633,000 sq. ft. facility containing 24 courtrooms and 32 justice chambers. The state-of-the-art structure features a distinct, cube-shaped design with a serrated glass and aluminum facade that adds visual depth, while effectively mitigating solar heat gain.

Skidmore, Owings & Merrill designed the courthouse to achieve LEED Platinum certification; therefore, energy efficiency and natural light diffusion were a top priority. This is evident in the use of a monumental skylight that redirects sunlight to the grand atrium at the structure's core using strategically placed reflectors.

To help circulate light into the building's interior spaces, C.R. Laurence glazing systems were utilized, including over 2500 linear feet of custom GRS TAPER-LOC Glass Railing. The system was installed on stairways, walkways, and on floor ledges overlooking the atrium below.

The GRS TAPER-LOC Glass Railing System utilizes laminated tempered glass and features a frameless, all-glass profile that improves daylight diffusion, creating vibrant spaces. This aligned with SOM's design objective of reducing dependency on artificial lighting. The system also enhances safety and is engineered to meet 2015 IBC requirements.

The United States Courthouse in Los Angeles is driven by sustainability. By offering all-glass aesthetics, the GRS TAPER-LOC Glass Railing System helps optimize daylight diffusion to reduce energy consumption, while promoting an open, collaborative environment.



05 7310
1 GLASS RAILING SYSTEM
 GRS TAPER-LOC® Glass Railing System
 with HRS Handrails

05 7310
2 GLASS RAILING SYSTEM
 GRS TAPER-LOC® Laminated
 Glass Guardrail System



CASE STUDY | EDUCATION

UNLV HOSPITALITY HALL

LOCATION: Las Vegas, NV
 ARCHITECT: Carpenter Sellers Del Gatto Architects
 GLAZING CONTRACTOR: Giroux Glass

The hospitality program at the University of Nevada in Las Vegas (UNLV) was little known for the better part of half a century. Today, it's one of the most widely recognized and respected hospitality programs in the world. The flagship program at UNLV merits a facility that articulates its prestigious distinction and the new Hospitality Hall does just that.

Designed by Carpenter Sellers Del Gatto Architects, Hospitality Hall is a cutting-edge educational facility that offers students and faculty an avenue for professional growth. The hall offers computer labs, practice kitchens, a cafe, simulation labs, learning studios, specialty classrooms, and several collaborative spaces. Its multilayered exterior design mirrors the diversity of the academia and amenities housed within.

A grand glass entrance accentuated by a curtain of stacked aluminum tubes serves as the focal point of Hospitality Hall's exterior design. The entrance's pronounced vestibule adds dimension and depth, while the point-supported glass panels overhead add scale. The vestibule functions as a stylized transition into the main lobby, simulating a red-carpet arrival experience similar to that of high-profile social events on the Las Vegas Strip.

DRS Door Rails and CRL Pull Handles were utilized in the entrance to



enhance the all-glass visuals. The door rails feature advanced glass clamping technology and robust stainless-steel construction, making them ideal for high-traffic areas. DRS Door Rails are also installed throughout Hospitality Hall's interior to manifest and complement the entrance's all-glass theme. CRL glazing systems used in the interior include Blumcraft Panic Handles, Glass Wall Spider Fittings, and SPS Stacking Partition System.



- 08 4210
1 GLASS ENTRANCE SYSTEM
 DRS Door Rails with Wedge-Lock® Technology, Floating Header

- 10 2238.13
2 MOVABLE WALLS
 SPS Stacking Partition System

- 08 4426.19
3 POINT SUPPORTED GLASS
 Glass Wall Spider Fittings, DRS Door Rails and Center Lock Handle

- 08 4210 & 08 7100
4 GLASS ENTRANCE SYSTEM
 DRS Door Rail System with Wedge-Lock® Technology, Blumcraft® PA100 Series Panic Handles

- 08 4210
5 GLASS ENTRANCE SYSTEM
 DRS Door Rail System with Wedge-Lock® Technology and Center Lock Handle



CASE STUDY | COMMERCIAL OFFICE

MEC HEADQUARTERS

LOCATION: Vancouver, BC, Canada
 ARCHITECT: Proscenium Architecture
 GLAZING CONTRACTOR: Flynn Canada



After experiencing rapid growth, Mountain Equipment Co-op (MEC) was in need of a new corporate headquarters. The company has long been an advocate for active and environmentally sustainable lifestyles, therefore an eco-friendly building that reflected its core philosophies was essential.

A key objective of the building's design was to maximize daylighting to reduce energy consumption. To achieve this, the new MEC headquarters features high ceilings, supported by exterior glass and glazing systems that provide optimal thermal performance.

C.R. Laurence's Series HP3253 Triple Glaze Curtain Wall outfits a large portion of the building's façade. The system features dual thermal barrier technology, employing two fill and debridge pockets, and three thermal break points. This delivers U-factors as low as 0.17. To accommodate

the increased dead load resulting from taller glass spans, C.R. Laurence incorporated custom reinforced steel brackets within the curtain wall nose.

Additional C.R. Laurence systems installed in the building envelope include Series 7200 Thermal Windows, Custom Fabricated Sunshades, and Series 750-T Thermal Doors.

Office interiors are outfitted with the Cascade Demountable Partition System. Cascade provides uninterrupted glass spans to maximize daylight diffusion while delivering a minimalist aesthetic that complements contemporary interior spaces.

MEC's new award-winning headquarters is 70 percent more energy efficient than conventional office buildings. It has also attained LEED Platinum certification.



- 08 4413**
1 CURTAIN WALL SYSTEM
 Series HP3253 High Performance Triple Glaze Curtain Wall

- 08 1116**
2 THERMAL DOORS
 Series 750-T High Performance Thermal Doors

- 10 2000**
3 OFFICE PARTITION SYSTEM
 Cascade Glass Wall Office Partition

- 08 5113**
4 COMMERCIAL WINDOWS
 Series 7200 Windows

- 10 7113**
5 SUN CONTROL
 Custom Fabricated Sunshade Systems



CASE STUDY | HEALTHCARE

MERCY VIRTUAL CARE CENTER

LOCATION: Chesterfield, MO
 ARCHITECT: BatesForum
 GLAZING CONTRACTOR: NGG Ltd.

Mercy Virtual Care Center is an advanced healthcare facility that supports health delivery systems, telemedicine, care management, research analytics, and the overall Mercy business infrastructure. It's a first-of-its-kind medical building that takes a transformational approach to healthcare.

It was important to create an environment that promotes employee and visitor well-being. Mercy Virtual Care Center was thus built in a setting that would give access to the existing natural habitat. The Series 4500 SSG Unitized Window Wall from C.R. Laurence was utilized throughout the building envelope to reinforce the connection to the surrounding landscape with sweeping views.

The Series 4500 SSG Unitized Window Wall produces floor-to-ceiling, uninterrupted glass spans. It also promotes daylight diffusion to create vibrant and welcoming interiors. From the exterior, the tall glass spans reflect the natural surroundings and produce clean sightlines that complement the contemporary, streamlined design of the building.

A key feature of the Series 4500 SSG Unitized Window Wall is its innovative unit split mullions and gravity loaded sill flashing. They enable pre-glazed sections to easily snap together on location to expedite installation. Shop fabrication also improves quality and visual consistency.

The Series 4500 SSG Unitized Window Wall delivers simplified logistics, exceptional thermal performance, and striking sightlines, offering a forward-thinking approach to facade design and installation.



08 4313
1 WINDOW WALL SYSTEM
 Series 4500 SSG Unitized Window Wall System



CASE STUDY | EDUCATION

LAMC ARTS, MEDIA & PERFORMANCE BUILDING

LOCATION: Sylmar, CA
 ARCHITECT: QDG Architecture
 GLAZING CONTRACTOR: Cal Iron

The \$50 million Arts, Media, and Performance Building at L.A. Mission College serves as the cultural and educational epicenter for the more than 1,800 students engaged in the arts. At an expansive 52,000 square feet, the building comfortably houses art, design, photography and multimedia studios, as well as a film screening room, music recital hall, public art gallery, and performing arts theater.

The unique exterior design features a pronounced concave facade of glass, aluminum, and concrete that draws visitors in. At its center, DRS Door Rails and Blumcraft Tubular Panic Handles from C.R. Laurence comprise the all-glass entrance system.

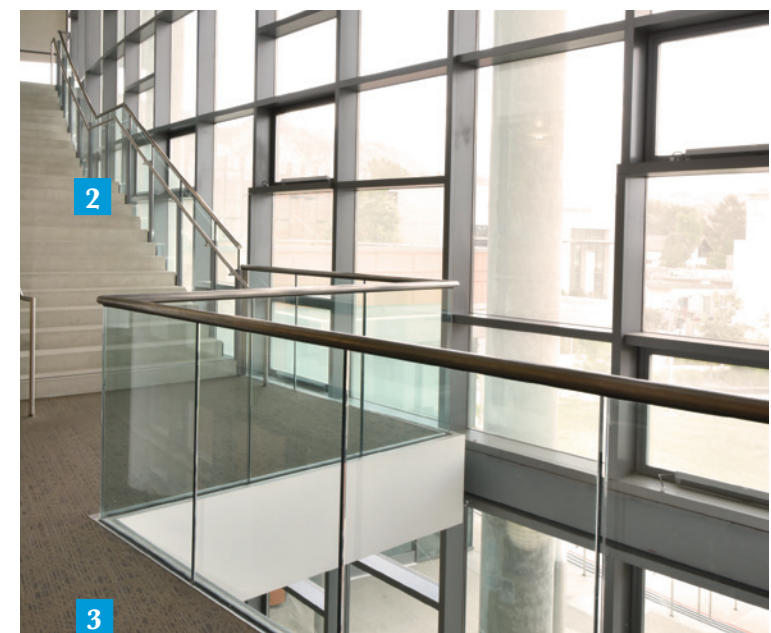
DRS Door Rails incorporate CRL's patented Wedge-Lock® dry-glaze clamping technology, which simplifies glass alignment and installation. Blumcraft Panic Handles are the industry standard, featuring a distinct tubular design with curved crash bar ends that enhance safety and aesthetics.

Interior walkways, stairways, and upper floor ledges are lined with CRL's P3 Series Post Railing System and GRS TAPER-LOC Glass Railing System. Both systems promote daylight diffusion and transparency, which helps create open and collaborative spaces. The GRS TAPER-LOC Glass Railing System is the only ICC-ES approved base shoe railing system in the market. This gives architects peace of mind knowing the system will meet building codes in projects nationwide.

08 4210
1 GLASS ENTRANCE SYSTEM
 DRS Door Rail System with Blumcraft® PA100 Series Panic Handles

05 7360
2 POST RAILING SYSTEM
 P3 Series Post Railing System

05 7310
3 GLASS RAILING SYSTEM
 GRS TAPER-LOC® Laminated Glass Guardrail System



CRL-ARCH.COM



Designed specifically for architects and specifiers, **crl-arch.com** is a comprehensive online resource for information on C.R. Laurence architectural glazing systems. The site features an easy-to-navigate format to quickly find the product information needed.

- 3-Part Specifications
- CAD Drawings
- BIM Objects
- Engineering Reports
- Product Galleries
- Case Studies
- Customer Support

ABOUT C.R. LAURENCE COMPANY



CRL CORPORATE HEADQUARTERS, LOS ANGELES, CA



CRL MANUFACTURING, LOS ANGELES, CA

C.R. Laurence is the leading global manufacturer and supplier of architectural glazing systems for numerous CSI divisions. Our advanced fabrication facilities feature engineering processes that are driven by design and performance in order to meet the aesthetic and code requirements of today's buildings. From initial specification to final product installation, C.R. Laurence offers the single-source solutions architects and glass professionals need to achieve project objectives on time and on budget.

crl-arch.com



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