

Congratulations on discovering Hope's - the source for the world's finest windows and doors.

Of course, that's exactly what you would expect the president of the company to say. The difference here is that I know from decades of industry experience that it's absolutely true - as do the thousands who have enjoyed the opportunity to design and specify Hope's custom windows and doors.

For design professionals yet to explore Hope's, or those who have known us for decades, we proudly provide you this detailed overview.

On behalf of all of us at Hope's, we look forward to working with you on your next project with the shared goal of creating remarkable, efficient, and enduring architecture according to your vision.

Enjoy,

HOPES®

Randall P. Manitta

Randall P. Manitta CEO/President Hope's Windows, Inc.

P.S. Should your travels bring you to western New York, please be sure to schedule a visit to the Hope's campus. I'd enjoy meeting you in person. Also, our plant tour qualifies for two AIA CES learning units.



CONTENTS

MATERIALS

- 3 The Genesis
- 4 Material Difference

DESIGN

- 5 Aesthetic
- 6 Customized Design, Styles, and Finishes
- 7 Craftsmanship

PERFORMANCE

- 8 Proven Performance, Testing, and Code Compliance
- 9 Air, Water, Structural and Energy Efficiency
- 10 Corrosion, Hurricane, and Impact Resistance
- 11 Fire and Bullet Resistance
- 12 Blast Protection and Forced Entry Security
- 13 ADA and Egress, Daylighting, and Low Maintenance
- 14 Thermal Evolution[™] Technology

DESIGN SUITES

- 15 Your Design Palette
- 16 Steel Window Series
- 17 Bronze Window Series

CASE STUDIES

18-23

PROFESSIONAL SERVICES

24 Services

THE GENESIS OF HOPE'S WINDOWS & DOORS

geometrically complex, and remarkably strong profiles. This



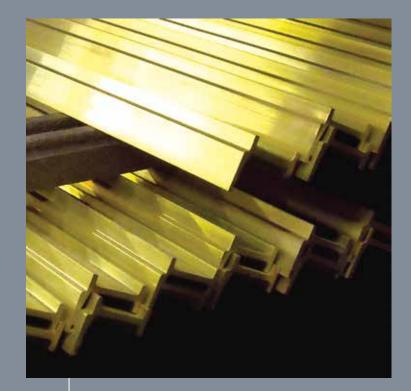




SOLID HOT-ROLLED STEEL

For more than 150 years, windows and doors have been crafted from solid hot-rolled steel. Many of our nation's historic buildings dating from the 1860s and earlier feature these handcrafted materials. Today, it is common for new structures to utilize wood or aluminum windows and doors, not because these materials are superior – they're simply less expensive.

What makes solid hot-rolled steel a superior material? For starters, it's three times stronger than aluminum and sixteen times stronger than wood. This strength allows Hope's to make windows and doors with the slimmest frames, the greatest amount of glass, and in virtually unlimited scale, shapes, and configurations.



SOLID BRONZE

For centuries, bronze has been the material of shoice for the most prestigious structures. Bronze s unmatched for its ultimate durability and timeless beauty. Solid bronze offers unprecedented resistance o corrosion, even in coastal environments.

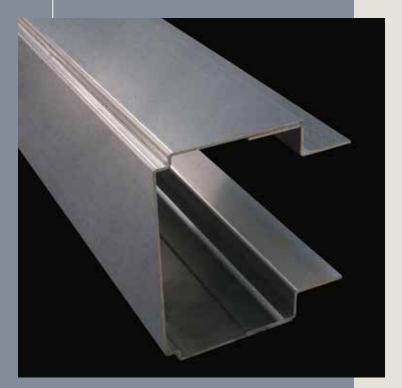
THE MATERIAL DIFFERENCE

Hope's is committed to crafting windows and doors only from materials with proven ability to last for a century or longer, while providing timeless aesthetic appeal.



CUSTOM FORMED STEEL OR BRONZE

To achieve certain performance or aesthetic requirements, Hope's also handcrafts windows and doors by transforming heavy gauge steel, stainless steel, or bronze into custom formed profiles.

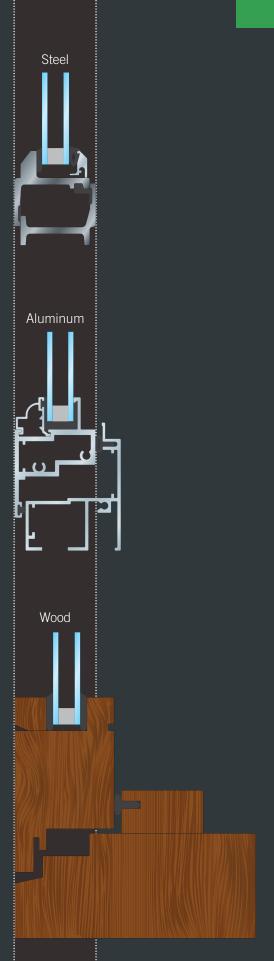


MINIMALIST, SLENDER, INVITING, REFINED

These words often describe the unique look of Hope's windows and doors. The narrow and graceful lines of Hope's windows and doors belie their formidable strength and ultimate durability. Hope's windows and doors are timeless in appearance and endure generations.

Owing to the inherent strength of solid hot-rolled steel, extremely narrow frame dimensions of Hope's windows maximize glass area.





CUSTOM CHOICES AT EVERY PHASE OF DESIGN

Every Hope's window and door is custom designed by you – to achieve your specific aesthetic and performance criteria. You choose the material – steel or bronze. You choose your frame profile, shape, size, and glass. You choose true divided lites or simulated divided lites. You choose fixed or operable windows, and you decide where and how your windows open and close. You choose the functionality of your doors – swing-in, swing-out, lift-slide, or slide-fold. You choose your desired hardware – hinges, locks, handles, kick plates, and more – to ensure the longest-lasting and smoothest operation.

ANY STYLE IMAGINABLE

Whether new construction, retrofit, or historic preservation, designers incorporate Hope's windows, skylights, and doors into every variety of architectural style.

LONG-LASTING FINISHES

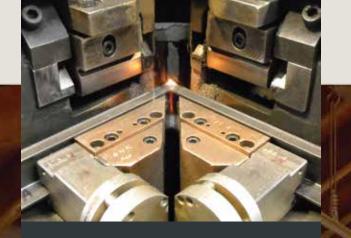
To achieve the longest product life cycle, Hope's employs the world's most advanced finishing system. Developed in cooperation with top U.S. metallurgists and architectural coatings suppliers, Hope's finishing system is engineered to ensure that windows and doors remain pristine and free from corrosion decade after decade, even in the harshest environments.

Hope's finishing process is the most comprehensive coating system available. For the top coat, pick from our Artistic Expression Palette and unlimited color choices to perfectly integrate your design.





Solid hot-rolled steel or solid bronze profiles are formed perfectly to specified shapes, including complex curves.



Steel profiles are joined by fusion welding, a process that fuses the steel together, forming one continuous frame.

ATTENTION TO YOUR EVERY DETAIL

Hope's custom crafts each and every window and door to the absolute highest standards of quality and excellence.



from a single piece of solid steel or bronze.



Formed steel and bronze windows undergo the same rigorous fabrication procedures to achieve structural and visual perfection. Hope's 5-axis laser precision cuts heavy gauge steel and bronze for complete design flexibility.

Hope's continually invests in new high-tech manufacturing equipment, when and where technology can enhance quality and product performance.

1944

Windows and doors equipped with Thermal Evolution[™] technology feature fiber-reinforced polymer (FRP) isolators. These isolators are precision machined to nest perfectly within Hope's traditional hot-rolled solid steel frame profiles where they are permanently bonded.

PROVEN PERFORMANCE YOU SHOULD EXPECT FROM CUSTOM CRAFTED WINDOWS AND DOORS

Hope's custom crafted windows and doors set the standard for performance excellence that no other steel manufacturer has ever equaled. Hope's provides peace of mind with products that are tested and proven to deliver protection solutions for inclement weather, harsh and extreme environments, and even dangerous situations caused by man or Mother Nature.

THIRD-PARTY TESTING AND CERTIFICATION

Hope's prides itself on its long-standing commitment to testing and certification, subjecting its products to more third-party testing and certifications than any other steel window and door manufacturer. The process of exceeding both rigorous, independent testing and customer expectations begins with the engineering and design of Hope's products – expertise derived from more than 100 years of experience. For detailed testing results from industry organizations such as ASTM, NFRC, The Florida Building Code, and others, contact Hope's.

CODE COMPLIANCE

Hope's provides custom solutions to satisfy local, state, and national building code requirements of any building project. Regardless of how complex or challenging a building code, there is a solution, and Hope's can provide it.



AIR, WATER, AND STRUCTURAL PERFORMANCE

Air infiltration and water penetration are two of the biggest issues that can affect performance. That's why Hope's windows and doors are rigorously tested for structural performance against exterior wind load, air leakage, and water penetration.

■ TESTING: ASTM E283 – Air Infiltration

ASTM E331 – Water Penetration

ASTM E330 – Structural Loading

THERMAL PERFORMANCE AND ENERGY EFFICIENCY

Hope's is committed to crafting energy-efficient windows and doors. The intrinsic properties of Hope's solid bronze and solid hot-rolled steel windows and doors provide optimal thermal performance as substantiated by third-party testing and NFRC certifications. With pioneering innovation, Hope's has developed Thermal Evolution[™] technology. This advanced thermal-break technology provides exceptional thermal performance and condensation resistance. The patented Thermal Evolution technology is third-party tested and NFRC certified.

TESTING: NFRC 100 – Thermal U-Value
NFRC 200 – Solar Heat Gain
NFRC 400 – Air Infiltration
NFRC 500 – Condensation Resistance



TELEVISION DE LA CONTRACTA

PROTECTION FROM CORROSIVE ENVIRONMENTS

Hope's low-maintenance protective coating and finishing system provides incomparable long-term protection against corrosion and abrasion whether your building is inland or oceanfront. Hope's coating and finishing processes exceed the most rigorous testing standards and are carefully scrutinized to ensure products will perform, both aesthetically and functionally, for decades to come.

TESTING: ASTM D174 – Paint Blistering
ASTM D4585 – Humidity
ASTM B117 – Salt Spray and Fog
ASTM D1654 – Painted Products in Corrosive Environments
ASTM G85 – Cyclic Fog and Dry (Prohesion)
ASTM D5894 – Salt Fog/UV Painted Metal
ASTM D4541 – Pull Off Strength of Coating

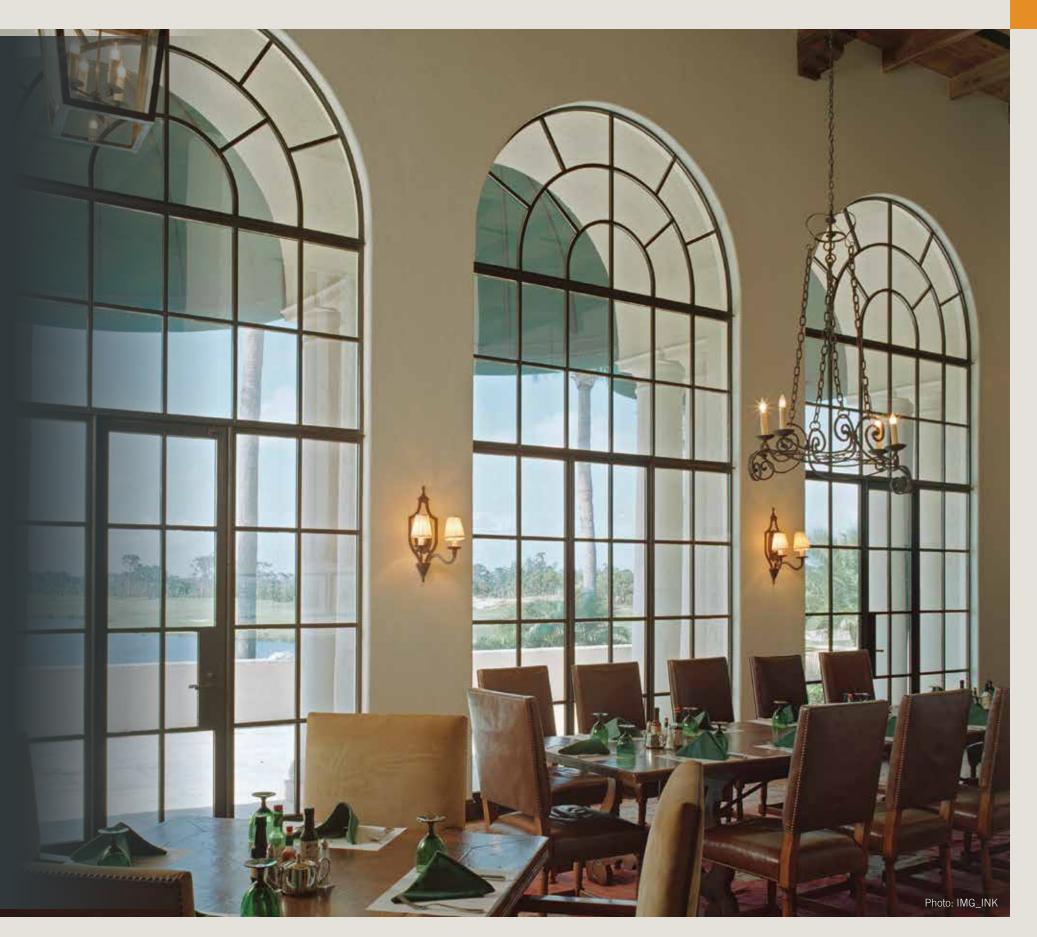
HURRICANE AND IMPACT RESISTANT

Designed and tested to protect against the most brutal storms and flying debris, Hope's impact-rated hurricane windows and doors eliminate the maintenance and added cost of hurricane shutters. Hope's offers the industry's largest selection of fully tested and certified windows and doors for use within hurricane and impact zones – including lift-slide and slide-fold door systems. Available in solid hot-rolled steel or bronze, Hope's custom crafted windows and doors provide timeless aesthetics, enhanced views, and passive storm protection.

■ TESTING: ASTM E1996 – Impact (Hurricane)

ASTM E1886 – Cyclic Pressure

TAS 201, TAS 202, and TAS 203 – Florida Building Code testing protocol for hurricane resistant product approvals, including High Velocity Hurricane Zone (HVHZ) areas



FIRE RESISTANCE

Hope's windows and doors are subjected to fire resistance testing certification, and labeling. Fire resistance is just one more way Hope's demonstrates commitment to the safety and welfare of people and property.

■ TESTING: ASTM E119 – Standard Test Methods for Fire Tests of Building Construction and Materials

NFPA 251 – Standard Methods of Tests of Fire Resistance of Building Construction and Materials

NFPA 252 – Standard Methods of Fire Tests of Door Assemblies UBC Standard 7-1-97 – Fire Tests of Building Construction and Materials

UBC Standard 7-2-97 – Fire Tests of Door Assemblies

UL 10c – Standard for Positive Pressure Fire Tests of Door Assemblies

UBC 7-4 – Fire Tests of Window Assemblies

BULLET RESISTANCE

For the highest security needs, Hope's offers life-saving protection against bullets in gunfire situations. From government buildings and safe rooms to storefronts and banks, these windows provide the best protection available today with the superior aesthetic that is standard with Hope's.

■ TESTING: UL752 – Bullet Resistance



BLAST PROTECTION

High-risk buildings, such as government facilities and airports, must be designed with windows and doors that complement their structural integrity and mitigate the hazardous effects of flying glass and other debris following an explosion. Hope's blast protection can be integrated into any existing Hope's design suite, providing life-saving protection with the same narrow profiles and elegant sightlines.

TESTING: ASTM F1642 – Glazing and Glazing Systems Subject to Airblast Loading

GSA TSO1 Level C and Level D. Exceeds the Department of Defense Anti-terrorism Standard #UFC 4-010-01

FORCED ENTRY SECURITY

Safety and security are of utmost concern to building owners and to Hope's. These concerns are taken into consideration with every window and door. Rest assured that Hope's offers window and door solutions that are designed, tested, and manufactured to stand up to forced entry, ensuring life safety and protection of property.

■ TESTING: ASTM 588 – Forced Entry



ADA AND EGRESS COMPLIANCE

All Hope's windows and doors can meet ADA and egress requirements. Because these codes vary by location, Hope's depends on its years of industry experience to work with design professionals to ensure all requirements are met.

NATURAL DAYLIGHTING

Hope's windows allow for narrower frames which, in turn, allow more natural daylight to fill a room. Studies prove that natural daylight promotes the feeling of well-being, helps the healing process in medical facilities, and positively affects the mood and productivity of building occupants. Additionally, improved daylighting can significantly reduce the energy consumption for electric lighting.

LOW-MAINTENANCE AND SUSTAINABILITY

Every Hope's custom crafted window and door is built to last a century or longer with minimal maintenance requirements. Hope's is committed to crafting energy-efficient windows and doors from sustainable materials. And Hope's superior coating and finishing system requires less maintenance than other window and door materials. Compare this long life cycle to alternatives, and it's clear that Hope's is the best long-term investment, both environmentally and financially. Contact Hope's for additional sustainability and LEED[®] information.



Solid steel fixed window with Thermal Evolution technology

THERMAL EVOLUTION™ TECHNOLOGY

Hope's revolutionizes windows and doors again by innovating the world's first and only thermally-broken solid hot-rolled steel window and door system. Hope's technology features a fiber-reinforced polymer (FRP) isolator that is precision-machined to nest perfectly within Hope's traditional hot-rolled solid steel frame profiles. This FRP isolator provides high thermal resistance and is structurally bonded to Hope's steel window and door frames. This strong and enduring composite construction delivers impressive thermal efficiency and enhanced resistance to condensation. With Thermal Evolution technology, all the intrinsic strengths of solid hot-rolled steel are maintained along with enhanced thermal efficiency, exceeding today's most stringent thermal codes. Thermal Evolution technology can also be incorporated into bronze or custom-formed systems for increased energy performance.

Solid steel operable window with Thermal Evolution technology U.S. Patent No. 8484902

Operable portion of window made from — solid hot-rolled steel

To thermally isolate steel, the fixed portion of the window includes a precision-machined FRP isolator structurally bonded to solid hot-rolled steel



YOUR DESIGN PALETTE

Designing a Hope's window or door begins with the selection of one of Hope's exclusive design suites – Jamestown175[™] Series, Landmark175[™] Series, University Series[™], One55[™] Series, 5000 Series[™], or Empire Bronze[™]. Each design suite consists of complementary framing and muntin profiles. A window or door may also be designed with a framing profile from one suite and a muntin profile from another. Again the design is entirely yours



ANH.

JAMESTOWN175[™] SERIES

Ideal for projects requiring oversize windows and doors, while providing a narrow 1-7/16" sightline for fixed windows and a narrow 2-5/8" sightline for operable windows and doors.

L A N D M A R K 1 7 5[™] SERIES

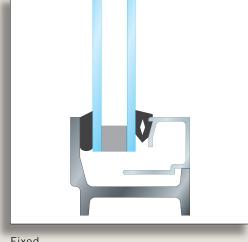
Ideal for projects requiring large windows and doors, while providing a narrow 1-7/16" sightline for fixed windows and a slim 2-3/16" sightline for operable windows and doors.

UNIVERSITY SERIES™

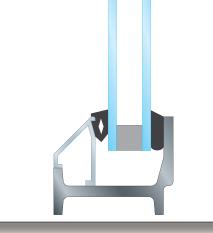
Designed for projects requiring historic replication of exterior putty-glazed steel windows and doors. The unique profile and narrow sightlines are ideal for new construction as well as replacement projects.

ONE55[™] SERIES

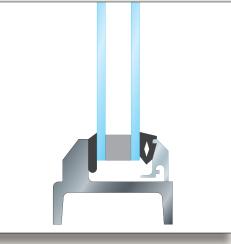
Designed for projects requiring replication of historic steel windows with arrow-shaped profiles.



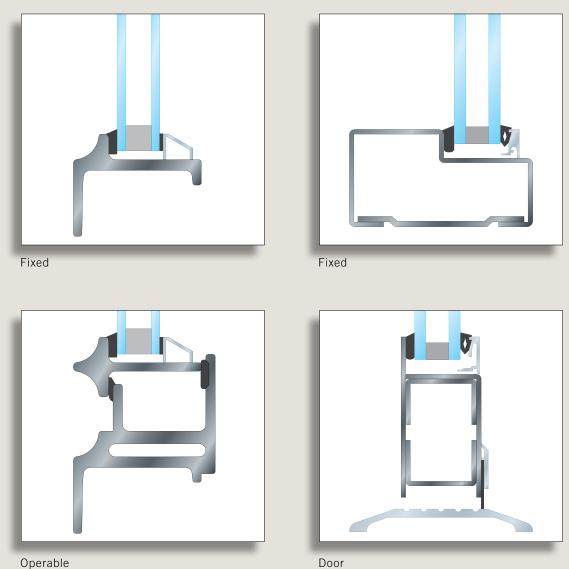


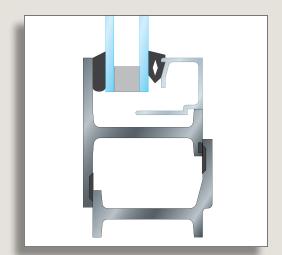


Fixed

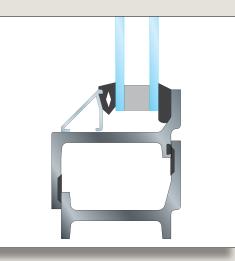


Fixed

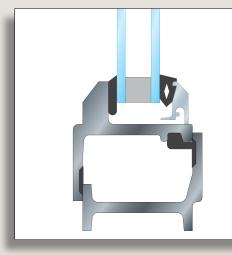




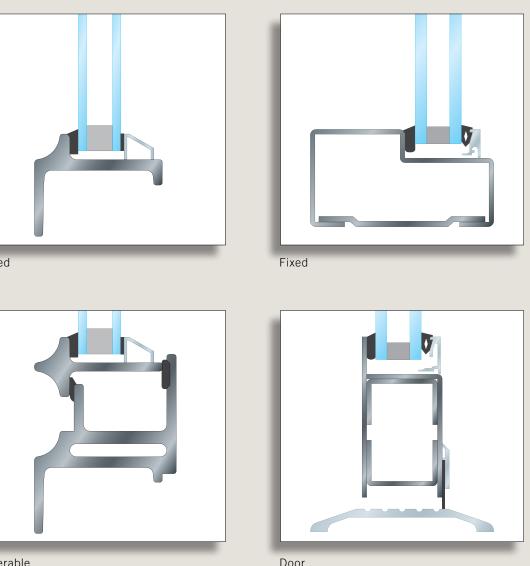
Operable



Operable



Operable



5000 SERIES™

Custom formed from heavy gauge steel and provides the greatest latitude for design flexibility and hardware options for high-traffic areas.

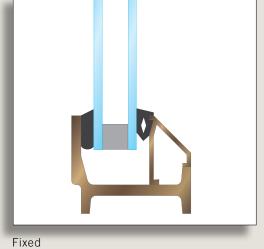
BRONZE

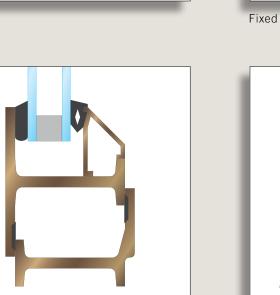
EMPIRE BRONZE™ JAMESTOWN175™ SERIES

Offers the ageless beauty of solid bronze with the elegant sightlines, durability, and meticulous manufacturing techniques synonymous with all Hope's products.

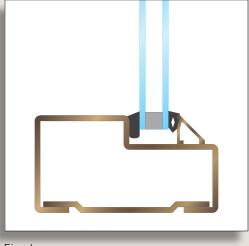
EMPIRE BRONZE™ 5000 SERIES™

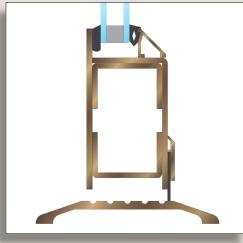
Custom formed from heavy gauge bronze and provides the greatest latitude for design flexibility and hardware options for high-traffic areas.





Operable





Door





MUSIC BOX FILMS

PROJECT

When film distributor Music Box Films decided to convert a 7,000-square foot, two-story space into a single-story building with a mezzanine for its new offices, Hope's was selected to provide custom, handcrafted steel windows and doors. Located in Chicago's West Loop enterprise zone, the project was awarded a prestigious Small Project Award from the Chicago Chapter of the American Institute of Architects (AIA).

RETROFIT ARTFULLY HARMONIZING OLD WITH NEW

APPLICATION & BENEFITS

Hope's provided Jamestown175[™] Series solid hot-rolled steel windows and 5000 Series[™] steel doors – along with custom mullion, muntin, and glazing solutions – to meet the design requirements for the exterior façade and vestibule. *Chicago Architect* magazine quoted an AIA award juror who referred to the "juxtaposition between modern and old," a common design objective Hope's windows and doors have fulfilled for more than a century.





Our space was renovated with the aesthetic of the sci-fi classic 'Blade Runner' in mind. The building speaks to our vision and commitment to artistry.

Music Box Films

Architect: Shapiro Associates, Chicago, IL Contractor: Knudsen Construction, Inc., Calumet City, IL Engineering Consultants: McGuire Engineers, Inc, Chicago, IL, and Samartano & Co., Chicago, IL Owner: Music Box Films

Windows: Jamestown175 Series steel windows Doors: 5000 Series steel doors

MARY E. SWITZER BUILDING

PROJECT

Built in the 1930s and listed on the National Register of Historic Places, the 592,000-square foot Mary E. Switzer Building in Washington, D.C. required a complex, two-phase modernization inside and out. Hope's was recruited to design and fabricate historically compliant blast protection windows with updated thermal qualities, conforming to the existing Egyptian Revival architectural details.

GOVERNMENT BLAST PROTECTION, HISTORICALLY CONSISTENT

APPLICATION & BENEFITS

To meet governmental standards for anti-terrorism and historical compliance, Hope's steel windows with blast protection were custom designed to complement the integrity of this important period building. Hope's successfully open-air tested its blast resistant windows and met the General Services Administration (GSA) security criteria for Level C and the Department of Defense (DoD) Anti-terrorism Standards.



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Hope's has earned a heartfelt 'thank you' for everything they have done to make the windows on our project a resounding success. The project could not have come to fruition so seamlessly or expeditiously without the dedication and attention to detail by the whole organization.

Jonathan Mitz Senior Project Manager Grunley Construction Co., Inc.

Architect: HNTB, Arlington, VA

Contractor: Grunley Construction Co., Inc., Rockville, MD

Engineering/Construction: Amco Metal Products, Inc., Gaithersburg, MD

Owner: U.S. General Services Administration

Windows: Liberty Series[™] steel blast resistant windows

UNIVERSITY OF CALIFORNIA SCHOOL OF CINEMATIC ARTS

PROJECT

Hope's steel windows and doors were installed in the new home of the University of Southern California's School of Cinematic Arts – a four-acre complex of six buildings, including two named after George Lucas and Steven Spielberg. The project was sparked by a \$175 million donation from Lucas, who specifically requested the new campus reflect the historic Mediterranean (or Southern California Mission) style prevalent in 1929, the year USC adopted film studies as part of its curriculum.



EDUCATION CINEMA SCHOOL PROJECT, A BLOCKBUSTER SUCCESS

APPLICATION & BENEFITS

Hope's Jamestown175[™] Series solid hot-rolled steel windows and doors were installed in all three phases of the project. The design elements included 200 custom crafted arched and rectangular windows. In addition to providing an elegant aesthetic, the durability and structural strength of Hope's products enabled the project team to achieve another design objective: create buildings that would last for generations. Even before the final phase began, the project received the prestigious Grand Prize at the 41st annual Los Angeles Architectural Awards.







Carter Moore, Architect Urban Design Group

Architect: Urban Design Group, Dallas, TX

Contractor (Phases 1 and 2): Hathaway Dinwiddie, Los Angeles, CA

Contractor (Phase 3): MATT Construction, Santa Fe Springs, CA

Glazier (Phases 1 and 2): Vision Systems, El Cajon, CA Glazier (Phase 3): Giroux Glass Inc., Los Angeles, CA Owner: University of Southern California Windows: Jamestown175 Series steel windows Doors: Jamestown175 Series steel doors

Photos: John Linden

BIRTHPLACE OF COUNTRY MUSIC MUSEUM

PROJECT

After more than a decade of planning and fundraising, the restoration of an historic 1920s-era, 24,000-square foot building quickly became the home of the newly created, state-of-the-art Birthplace of Country Music Museum. An affiliate of the Smithsonian Institution, the museum celebrates the 1927 Bristol Sessions, the first commercially successful recordings of country music, a milestone recognized by the Library of Congress. Johnny Cash declared it to be "the single most important event in the history of country music."

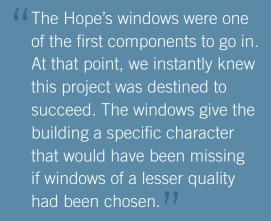
PRESERVATION AUTHENTIC COUNTRY

APPLICATION & BENEFITS

Architects Peyton Boyd and Michael Haslam worked with Hope's to specify University Series[™] windows – solid hot-rolled steel window profiles designed for projects requiring historic replication of exterior putty glazed steel windows. Hope's 5000 Series[™] steel doors are formed from heavy-gauge steel and offer the greatest latitude for customization.

"Because everyone wanted to see the exterior of this building restored to its former self, it was essential to select a window product with historically appropriate frame profiles," says Boyd. "We always design with energy efficiency in mind and love that Hope's products feature frames, mullions, and applied muntins that are handled in a way that delivers the performance we expect of our windows and doors."





Jessica Turner Director and Head Curator Birthplace of Country Music Museum

Architect: Peyton Boyd Architect PC, Abingdon, VA

Owner: Birthplace of Country Music, Bristol, TN

Windows: University Series steel windows

Doors: 5000 Series steel doors



CHAPEL OF THE RESURRECTION, VALPARAISO UNIVERSITY

PROJECT

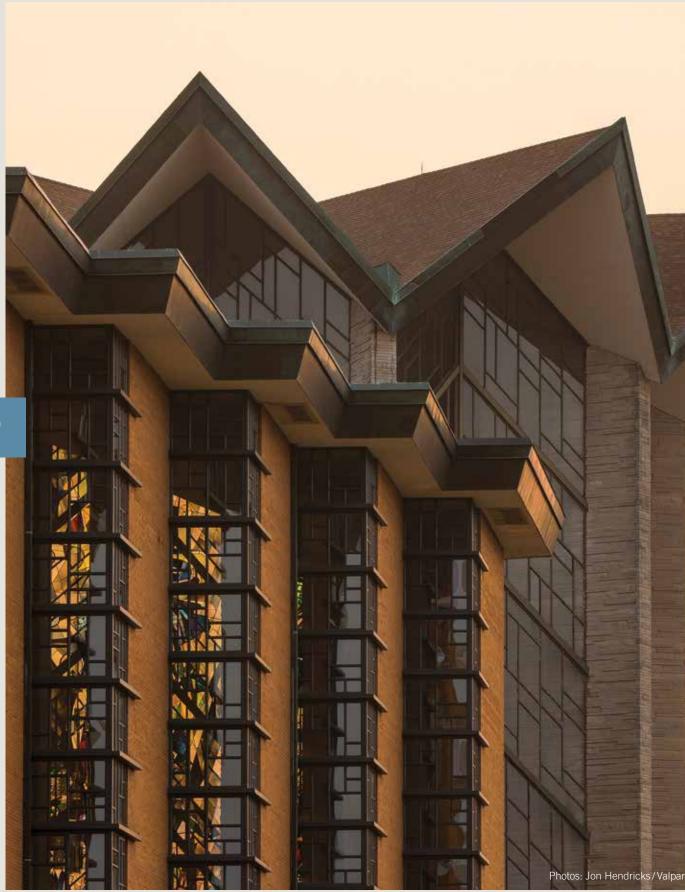
Rising over the highest point on the campus of Valparaiso University is the Chapel of the Resurrection. After celebrating its 50th anniversary in 2009, the beloved chapel, used for both religious services and secular events, underwent an extensive preservation project that included the replacement of its 24 soaring windows that surround the chapel's nave. The original 58-foot tall windows covering 16,700 square feet were removed and replaced with a combination of both fixed and operable Hope's solid hot-rolled steel windows. Hope's Jamestown175[™] Series design suite was selected to precisely match the sightlines of the original windows, which were also precisely color-matched to the originals.

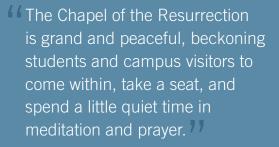
RELIGIOUS WINDOWS FOR WORSHIP

APPLICATION & BENEFITS

Hope's Jamestown175 Series windows feature solid hot-rolled steel – strong enough to allow for the narrowest frame dimensions and maximum glass area producing the best views possible. The 1-3/4" deep Jamestown175 Series windows are handcrafted, feature fully-welded construction, and are energy efficient. Hope's custom crafts every window for each project's design vision.







The Times of Northwest Indiana

Preservation Consultant: Architexas, Dallas, TX

General Contractor: The Hagerman Group, Fort Wayne, IN

Original Architect: Charles Stade and Associates, Park Ridge, IL

Owner: Valparaiso University, Valparaiso, IN

Windows: Jamestown175 Series steel windows

/Valparaiso University

THE GRILL AT BAL HARBOUR

PROJECT

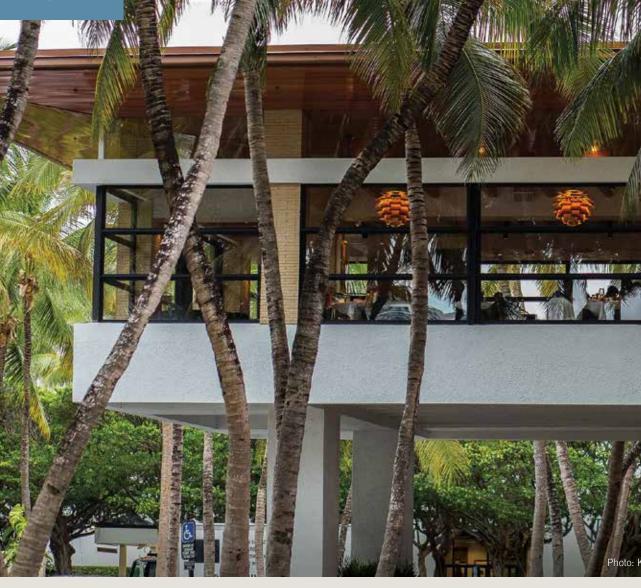
When the architect of Hillstone Restaurant Group was given the green light to design a new restaurant in Bal Harbour, Florida, he knew that only one manufacturer of steel windows and doors could help him achieve his unique vision and, at the same time, meet the stringent Miami-Dade impact and wind loading hurricane standards.

RETAIL FORM OF ART, HURRICANE SAFE

APPLICATION & BENEFITS

The Grill at Bal Harbour features Hope's Jamestown175[™] Series steel windows and doors and a 5000 Series[™] pocket door. Transparency abounds thanks to narrow sightlines, maximum glass area, and custom engineered vertical sliding windows able to create an outdoor dining experience. Most importantly, the windows and doors are poised to help protect people and property in the event of a hurricane.







Rakesh Patel Senior Project Architect Hillstone Restaurant Group

Architect: Hillstone Restaurant Group Owner: Hillstone Restaurant Group Windows: Jamestown175 Series steel windows Doors: Jamestown175 Series steel doors 5000 Series pocket door

PROFESSIONAL SERVICES

Hope's provides professional services including design consultation, technical assistance, projectspecific details and specifications, budgetary pricing, project management, custom submittal drawings, and engineering. To begin achieving your vision, contact Hope's today.



HOPE'S®

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