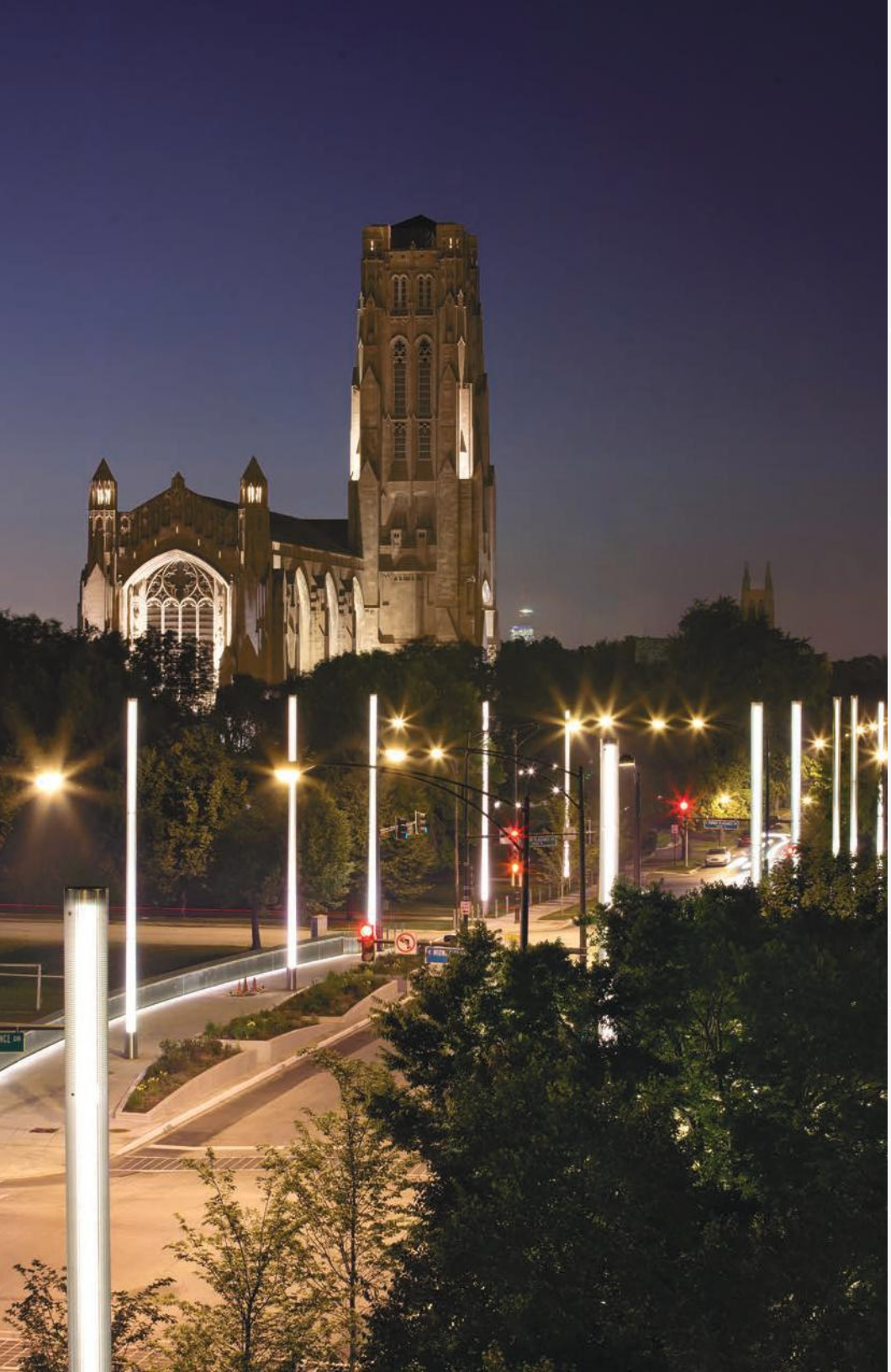
A brand of
Aqseptence Group

inspiration
REALIZED



Introduction 5

Step 1 | Inspiration 6
7 World Trade Center 9
Mayo Sports Clinic 10
Hope Tower 11

Step 2 | Application 12
7 World Trade Center 15
University of Chicago 16
Hall Arts Center 17

Step 3 | Configuration 18
7 World Trade Center 21
Guthrie Theater 22
Fallen Heroes Memorial 23

Step 4 | Support 24
Design Support 25
Manufacturing Expertise 25
Field Services 25
Maintenance 25

WELCOME

Dare to Design the Future

From the first flicker of an idea for a stunning space through the details of planning and documentation, Johnson Architectural Elements is a trusted partner for bringing your vision to life.

Drawing on more than century of screen manufacturing innovation, we consult with you to explore boundary-bending possibilities, respectfully consider the requirements of your project and draft customized technical solutions that create excellence in both form and function.

Your next architectural adventure awaits—count on us for the highest engineering standards, precision in fabrication and a collaborative relationship where imagination becomes reality.

JOHNSON
ARCHITECTURAL ELEMENTS

A brand of
Aqseptence Group

INSPIRATION

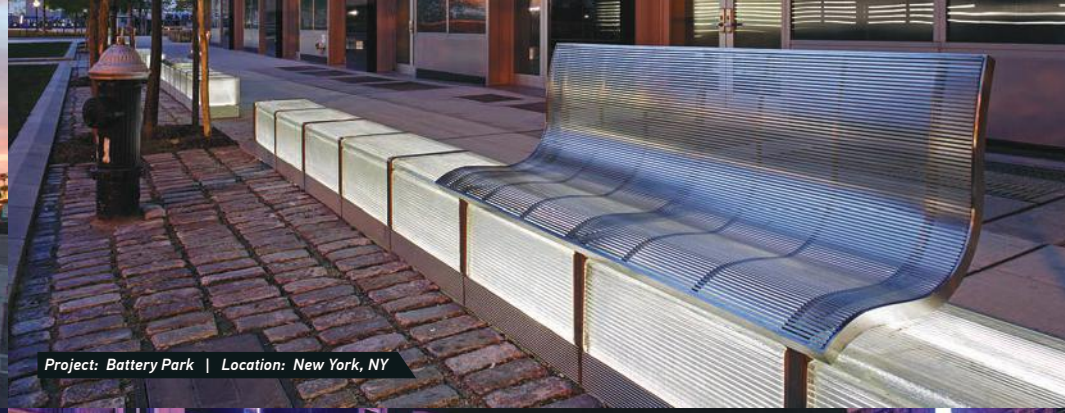
The Spark Can Come From Anywhere

Each project starts with an idea. Before you have a concrete plan, before you consider what you can build with materials that already exist, Johnson Architectural Elements participates in the creative process.

Whether you find inspiration in sight of a sunrise, the sound of a city or the experience of a carnival—we work to help solidify your most imaginative concepts and encourage "what if" thinking. Our strength is in igniting the passion that turns ideas into opportunities.

Involving us at this early stage results in custom, made-to-order materials assured to successfully contribute to a stunning result. From brainstorming to exploring manufacturing implications, we are ready to roll up our sleeves as soon as the spark of inspiration finds you—all you have to do is invite us to the conversation.

Project: Mesa Fiesta | Location: Mesa, AZ



Project: Battery Park | Location: New York, NY

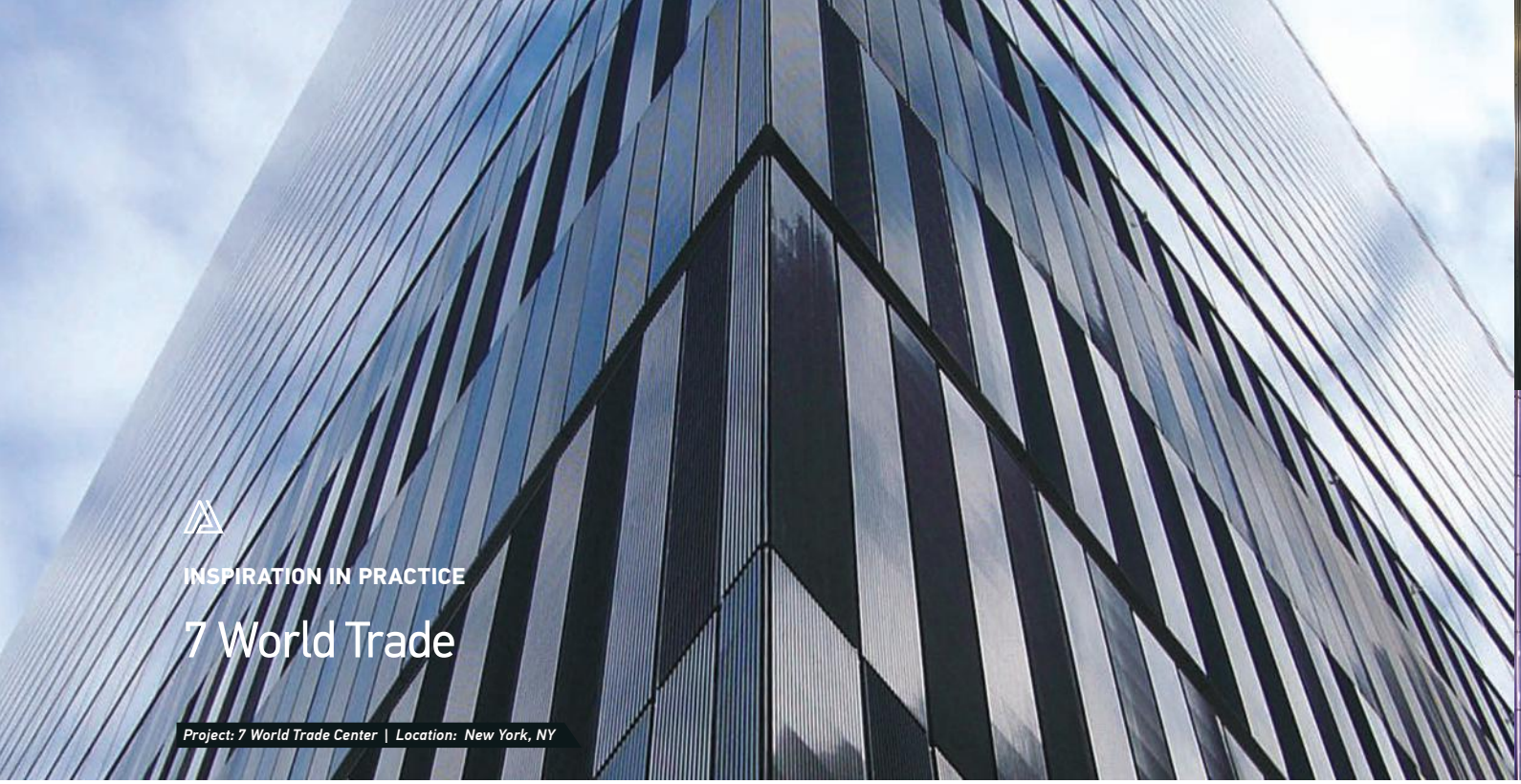
Project: Hoboken Pier | Location: Hoboken, NJ

Project: City Square | Location: Annonay, France

Project: FDNY Engine 277 | Location: Brooklyn, NY

Collaborate with Johnson Architectural Elements for concepts that:

- Evoke powerful imagery for a cultural epicenter with brilliant elements
- Integrate materials that reflect the state-of-the-art nature of a business
- Use components to evoke a sense of calm that puts people at ease in public spaces
- Ensure aesthetic beauty and exceptional performance of equipment
- Create a harmonious transition from landscape to lobby with sustainable substances
- Fuse contemporary design with timeless materials to convey the spirit of a brand
- Motivate movement with unique wayfinding structures
- Make an elegant statement using just the right balance of style and substance



INSPIRATION IN PRACTICE

7 World Trade

Project: 7 World Trade Center | Location: New York, NY

Project: 7 World Trade Center | Location: New York, NY

Project: 7 World Trade Center | Location: New York, NY

As the first World Trade building rebuilt in New York City, New York after September 11, 2001, and the power sub-station for lower Manhattan, this was a high-profile project from start to finish. Johnson Architectural Elements came together with the project's design firm, which came to us with a conceptual idea—to create a powerful image aligned with the strength and resiliency of New York City.

Using this inspiration, we collaborated to flesh out a fully realized vision that includes a brilliant building façade and a sense of continuity between the exterior and interior spaces.

To bring this vision to life, we helped to consider what materials would achieve the desired effect, including materials that could be used outdoors and indoors, plus complement strong illumination features, such as reflection of daylight and LED lighting that responds to passing pedestrians and atmospheric conditions.

Owner:	*Port Authority of New York and New Jersey*
Client:	*Silverstein Properties and Consolidated Edison Co.*
Architect:	*Skidmore, Owings & Merrill LLP*
Designer:	*James Carpenter Design Associates, Inc.*

Project: Mayo Sports Clinic | Location: Minneapolis, MN

Project: Mayo Sports Clinic | Location: Minneapolis, MN

Project: Mayo Sports Clinic | Location: Minneapolis, MN

INSPIRATION IN PRACTICE

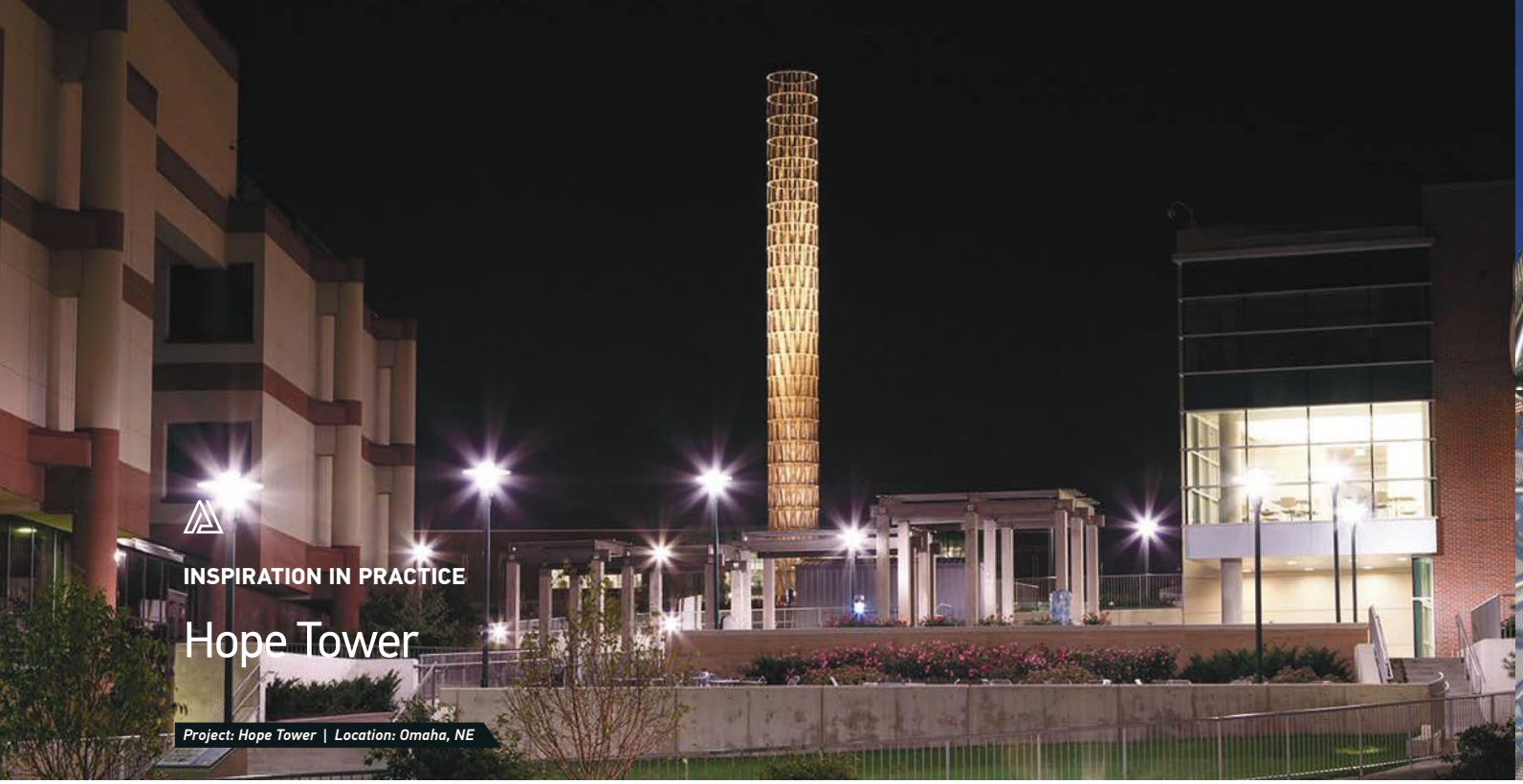
Mayo Sports Medicine Center

The Mayo Clinic wanted to extend its global expertise in sports medicine to Minneapolis, Minnesota with a state-of-the-art facility for comprehensive and world-class sports medicine care. As part of a significant redevelopment project, this 20,000-square-foot space at Mayo Clinic Square in downtown Minneapolis offers the latest in sports medicine technology, treatment options and performance training equipment.

Johnson Architectural Elements understood it would be important to use modern building designs and materials that would provide, reinforce and reflect with the advanced healthcare services offered within the Sports Medicine Center.

To help realize this concept, we provided a solution comprising materials configured with the 63 Vee-Wire, which is found on a seven foot interior column covers and 19 infill panels for reception and lobby desks.

Owner:	*Mayo Clinic*
Client:	*Mayo Clinic*
Architect:	*BWBR*



INSPIRATION IN PRACTICE

Hope Tower

Project: Hope Tower | Location: Omaha, NE

Project: Hope Tower | Location: Omaha, NE

ON THE JOB

Project: Hope Tower | Location: Omaha, NE

The University of Nebraska Medical Center in Omaha, Nebraska hoped to create an artistic centerpiece for the campus. Engaging with the design firm, Johnson Architectural Elements learned the intent was to create a work of art that could mimic the effects of the Nebraska sky, but also serve a functional purpose as a wayfinding marker for students.

Working together with the design firm, we discussed the vision—to create a 120-foot, cylindrical tower that fuses stainless steel and natural light—which both speak to the scientific character of the Medical Center. We helped explore what sort of considerations would need to be addressed, such as the ability for the top of the tower to withstand windy conditions.

Based on our ability to build structures, weld stainless and address the height, we met engineering and design requirements by developing the main structural elements of the tower, which then received a “skin” of triangular, perforated, stainless-steel panels.

Owner:	*University of Nebraska Medical Center*
Client:	*University of Nebraska Medical Center*
Architect:	*James Carpenter Design Associates, Inc.*
Designer:	*James Carpenter Design Associates, Inc.*


Match accent screens
at these locations

APPLICATION

Where Form and Function Find Their Balance

Once you have a concept in mind, Johnson Architectural Elements helps to build the framework for the materials in the project. Rely on us to assist with calculations on horizontal and vertical applications, determine material options that work within specified percentage open areas, predict installation issues and look at load requirements—all while keeping an eye on your objectives and aesthetic preferences.

An expert team of engineers, drafters and estimators are involved in the design process to ensure a solid solution that considers factors like height, width, diameter, depth, location, climate and more.

Whether it's light masts, grating, cladding or another application—you don't have to design it yourself or have all the answers. A world of possibilities awaits when you consider us an integral part of your team from schematic design to design development.

Project: MTA EXPO | Location: Los Angeles, CA

Project: Eaton Corp. | Location: Cleveland, OH

Project: Accenture Tower | Location: Minneapolis, MN

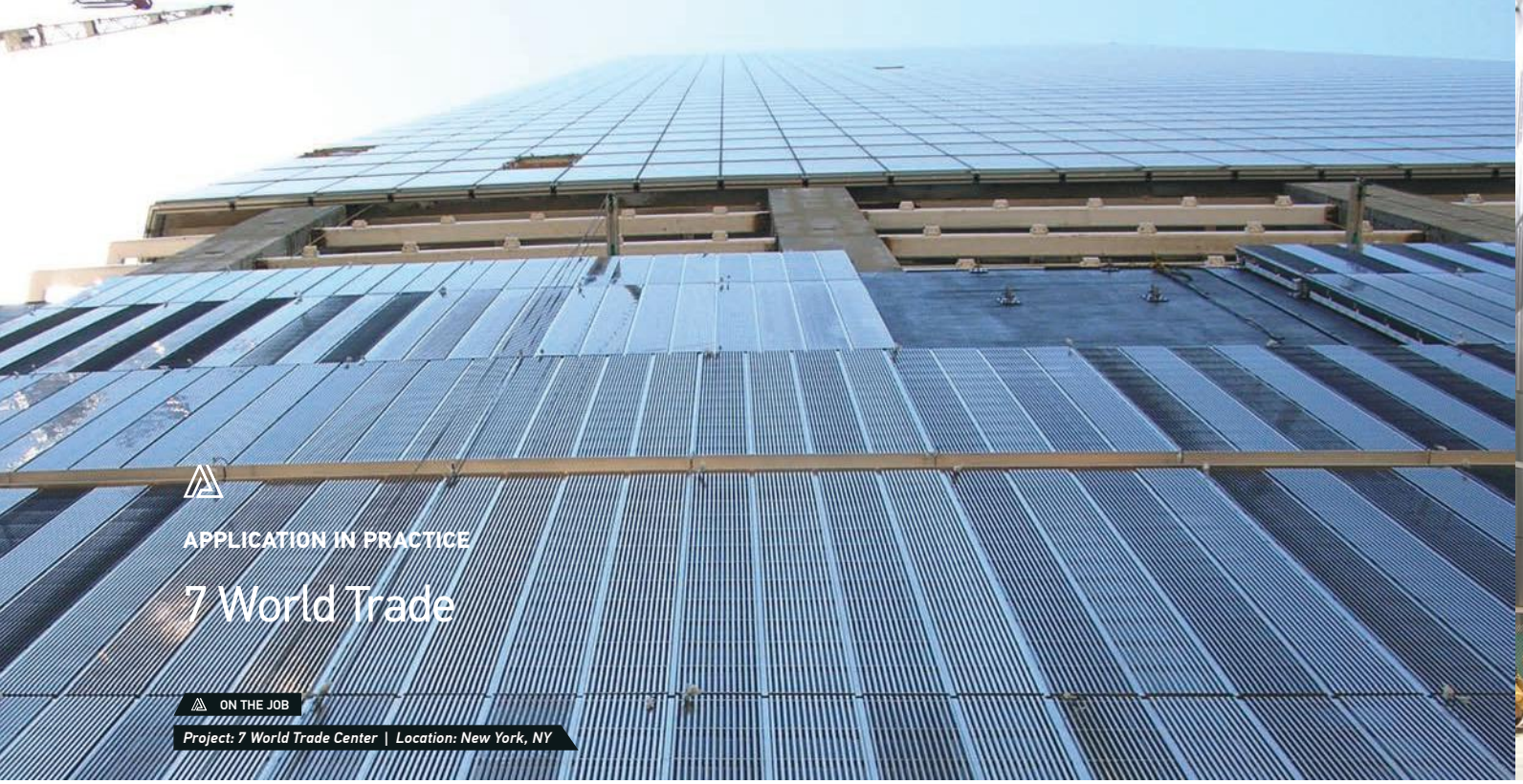
Project: Susono Factory | Location: Shizuoka, Japan

Project: Duke University | Location: Durham, NC

Project: RMIT University | Location: Melbourne, Austrailia

Johnson Architectural Elements can craft materials for:

- Lighting elements such as light masts, lit bollards and light fixtures
- Grating for entrances, slip-resistant ramps and bridges, plus high-performance ventilation grills
- Landscape components like trench grating, tree grates, seating, handrails, fencing, bollards, infill panels and drainage
- Interior features including ceiling panels, column covers, security barriers, acoustic grills, stairs and decorative wall panels
- Exterior elements such as facades, sun screens, parking garage barriers, mechanical enclosures and louver covers
- Art and sculptures
- Custom applications



APPLICATION IN PRACTICE

7 World Trade

ON THE JOB

Project: 7 World Trade Center | Location: New York, NY

ON THE JOB

Project: 7 World Trade Center | Location: New York, NY

ON THE JOB

Project: 7 World Trade Center | Location: New York, NY

There was no shortage of requirements for the reconstruction of 7 World Trade following September 11. Johnson Architectural Elements worked closely with the project's design firm, through a series of conversations that led to performance and design requirements, including:

- The functional need to allow for air flow and ventilation for multiple electrical transformers housed in the first 10 stories of the building's base
- Strength for bi-directional blast protection—whether the building's transformers were to explode, or an external explosion were to impact the building
- Creation of a visually impressive exterior featuring a voluminous sense of light

It was clear the project materials would need to provide the flexibility to create functional and visually remarkable surfaces inside and outside the building.

Traditional wire mesh is a weave of non-structural and non-welded wire elements that wouldn't meet the needed strength for blast protection on the building. Perforated plate sheet metal wouldn't provide the efficiency needed for movement of air.

The building needed something that would address the desired structural, airflow performance, lighting and reflective properties. We came to the application phase of this project with experience in all three requirements areas, to create something truly unique—and never seen before.

Owner:	*Port Authority of New York and New Jersey*
Client:	*Silverstein Properties and Consolidated Edison Co.*
Architect:	*Skidmore, Owings & Merrill LLP*
Designer:	*James Carpenter Design Associates, Inc.*

Project: Midway Crossings | Location: Chicago, IL

Project: Midway Crossings | Location: Chicago, IL

Project: Midway Crossings | Location: Chicago, IL

APPLICATION IN PRACTICE

University of Chicago – Midway Crossing

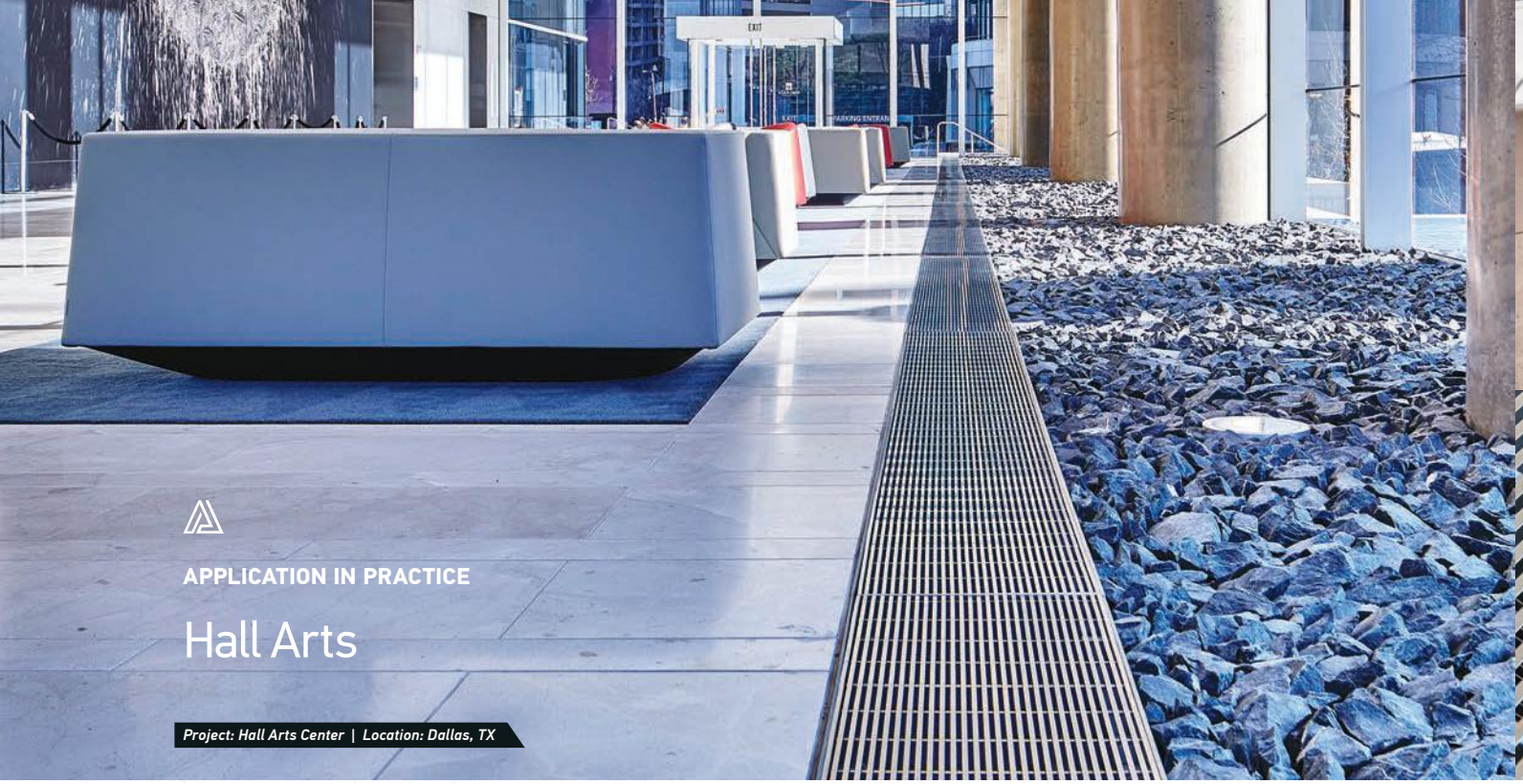
Midway Plaisance Park is a mile long division between the north and south campuses of the University of Chicago, Illinois. The school desired to establish a more coherent and engaging connection between the established north and expanding south areas of the metropolitan campus, plus signal safe passage for students in vehicles and on foot.

To achieve this goal, the design firm planned to create a sense of continuity and mimic the reflective qualities of nearby Lake Michigan and Washington Park Lagoon, while providing well lit navigational elements. The resulting application was 32, 40-foot-tall vertical lights that create a bridge like experience across Midway Plaisance Park.

Based on the vision and defined application for this project, Johnson Architectural Elements was involved early in the project to help arrive at a viable solution for the desired luminous effect—consistent brightness from the bottom to the top of each light.

Our team developed and tested a custom material solution—stainless steel bases and masts, constructed of 93 Vee-Wire for the illuminating lights. We focused on the spaces between the wires, varying the open area so that when light travels upward, it maintains the same intensity at 10, 20 and 40 feet.

Owner:	*University of Chicago*
Client:	*University of Chicago*
Architect:	*Bauer Latoza*
Designer:	*James Carpenter Design Associates, Inc.*



Project: Hall Arts Center | Location: Dallas, TX

Project: Hall Arts Center | Location: Dallas, TX

APPLICATION IN PRACTICE

Hall Arts

Project: Hall Arts Center | Location: Dallas, TX

At the heart of the Dallas Arts District is Hall Arts, a mixed-use, multi-phase destination development. The project was designed to facilitate success and inspire creativity, boasting amenities like outdoor connectivity, unconventional workspaces, public displays of contemporary sculpture and art, plus access to on-premise and nearby restaurants, residences, and entertainment venues.

Johnson Architectural Elements knew that the finishes for Hall Arts had to be high end and visually exciting. We envisioned and realized floor grates that sit atop mechanicals, helping with air flow—and aligning with the contemporary interior design work.

The solution resulted in the use of the 250 Tri Wire configuration that's perfectly suited for the high end space, both in terms of aesthetics and performance. It allows the maximum air flow efficiency, pedestrian loading strength and a contemporary design flow, consistent with the surrounding materials.

Owner:	*Hall Group*
Client:	*Hall Group*
Architect:	*HKS, Inc.*
Designer:	*HKS, Inc.*

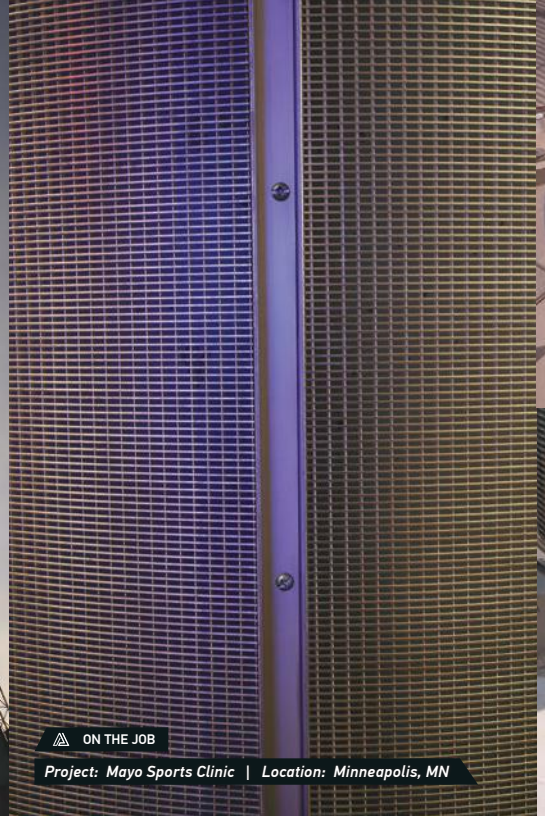
CONFIGURATION

Customization Offers the Freedom to Tackle Any Challenge

When it's time to transform your design into actuality, Johnson Architectural Elements firms up which materials will be used, offers finish options and engineers attachment methodologies to arrive at a detailed plan for timing and pricing.

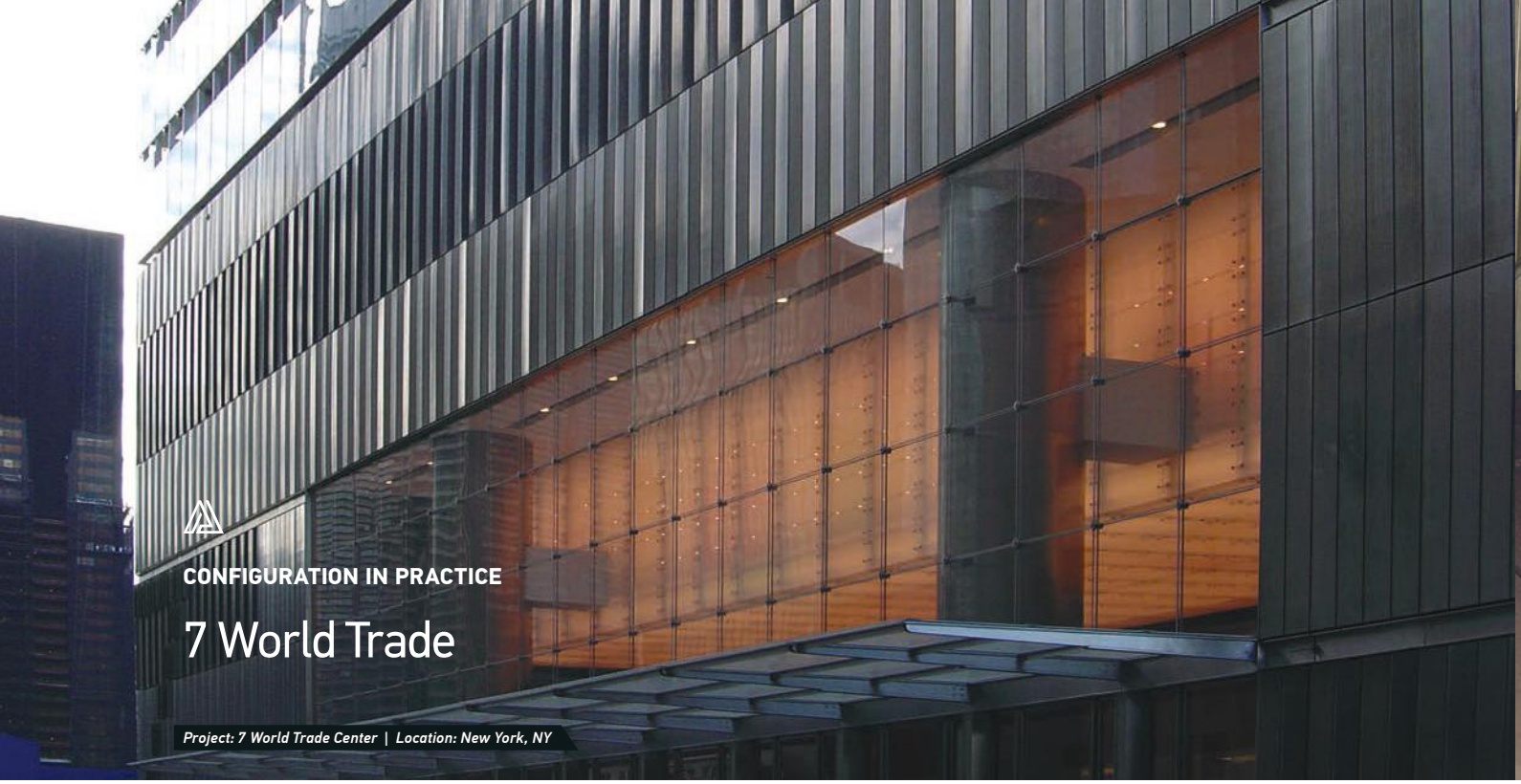
Get a glimpse of your vision before construction with the samples we provide to show options for how your composition can come together.

You won't get sold what we have—you'll get help creating and realizing your vision. Due to the collaborative nature of our work, a team of experts is at the ready to configure the exact solution required for your project. Connect with us to have an unparalleled resource to make your project come together seamlessly.



Johnson Architectural Elements offers an array of options to create the finished product:

- Surface wires and support rods can be bonded using a variety of processes, including resistance welding, MIG welding or TIG welding across multiple machine types
- Patented Vee-Wire® surface wires combined with shaped, strip or round support rods allow for customized spacing and finishes
- All metal choices for screens are recyclable, including stainless steel, carbon steel, copper-nickel alloys and duplex stainless steel
- Create a variety of effects with screen shape—flat, cylinder, oval, concave, convex, radius or special pattern cuts can be incorporated into the end material
- Complete the look with several finish choices, including standard mill, glass beaded, garnet blasted, painted, electro polished, chrome plated, sandblasted, powder coated, polished or brushed



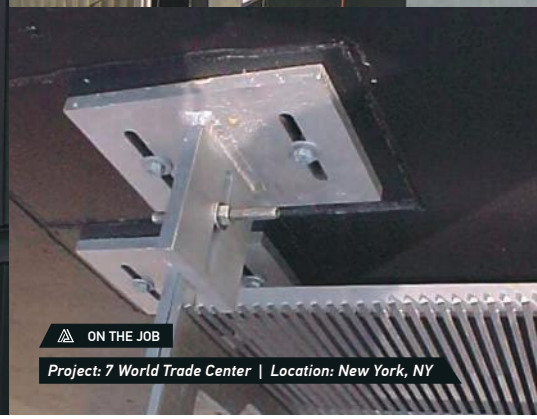
CONFIGURATION IN PRACTICE

7 World Trade

Project: 7 World Trade Center | Location: New York, NY

ON THE JOB

Project: 7 World Trade Center | Location: New York, NY



ON THE JOB

Project: 7 World Trade Center | Location: New York, NY

Considering the inspiration and digging deeply into the performance requirements for this prominent World Trade building, Johnson Architectural Elements supplied 58,000 square feet of stainless steel, two-panel material to create a uniform aesthetic design between the exterior panels and decorative covers for 30-foot structural columns in the interior's lobby.

In addition to the design firm's testing of the proposed solution, we did engineering simulations and our own testing to determine what would happen to the materials in various conditions to ensure all performance requirements would be met—and exceeded.

Our team of engineers, drafters, fabricators and welders brought years of design and manufacturing expertise to the project to ensure development and production of the best possible material solution. The finished product features our 500 Tri-Wire and 250 Tri-Wire, triangular prismatic wires oriented vertically and welded in a specified pattern and angle rotation.

Owner:	*Port Authority of New York and New Jersey*
Client:	*Silverstein Properties and Consolidated Edison Co.*
Architect:	*Skidmore, Owings & Merrill LLP*
Designer:	*James Carpenter Design Associates, Inc.*

CONFIGURATION IN PRACTICE

Guthrie Theater

When architecting the parking ramp for the Jean Nouvel-designed Guthrie Theater in Minneapolis, the design firm sought a stylish building product strong enough to keep cars in, while allowing carbon monoxide from the vehicles to escape. The aesthetic vision for the parking ramp was to match the stainless steel and tight skin look of the main theater building.

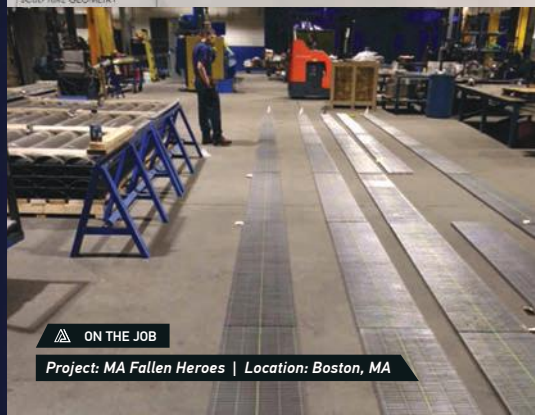
At the start of the project, a team from the Guthrie Theater visited Johnson Architectural Elements for a tour of the facility and the manufacturing process. While onsite, the Guthrie team also reviewed potential material configurations that would meet project requirements, including a certain percentage of open area, desired reflective qualities and necessary span capabilities between floors of the parking ramp.

Following multiple mock-ups to determine which wire and rod combinations would provide the envisioned appearance, our team answered the call by fabricating 12,500 square feet of screen paneling, comprised of 250 Tri-Wire panels spaced at .50" for an area that's 75 percent open. The Tri-Wires are welded to support rods with 12-inch spacing. To assist with maintenance accessibility, select 10-foot by five-foot Tri-Wire panels included a special hinge system, which we designed.

Owner:	*City of Minneapolis Parking Facilities*
Client:	*Guthrie Theater*
Architect:	*Jean Nouvel*
Designer:	*Architectural Alliance*

ON THE JOB

Project: MA Fallen Heroes | Location: Boston, MA



ON THE JOB

Project: MA Fallen Heroes | Location: Boston, MA

CONFIGURATION IN PRACTICE

Massachusetts Fallen Heroes Memorial

Project: MA Fallen Heroes | Location: Boston, MA

The Memorial is a place where families and friends of the brave heroes of Massachusetts can come together to reflect, honor and preserve the memory of those who have given their lives fighting in the global war on terrorism since September 11, 2001. Standing guard in Boston's Seaport Park, the Memorial is intended to evoke a sense of unity—and is the only one of its kind in the country.

The Memorial's design is a powerful beacon of light within a five-sided diaphanous column—one side for each branch of the service. In daylight, the tower reflects and refracts the waterfront's changing light—symbolizing the reflective nature of visits to the space. During the night, the tower is illuminated from within, providing a reminder that's visible from various vantage points in the Boston Harbor and downtown area.

Through collaborative conversations with the design firm, Johnson Architectural Elements understood the need to achieve an ephemeral quality for the tower during the day, including a gold color on the interior panels. To arrive at the right color and material configuration, we tested coloration possibilities of the stainless panels and created mock-ups.

Our team also completed wind load calculations and structural testing to determine appropriate dimensions and ensure integrity for the height of the Memorial's tower. Prior to the final assembly of the tower, our team tested fit-up of all our fabricated panels on all five sides of the Memorial, to ensure a timely launch during Patriot week in 2016.

Owner:	*Massachusetts Fallen Heroes*
Client:	*Massachusetts Fallen Heroes*
Architect:	*James Carpenter Design Associates, Inc.*
Designers:	*James Carpenter Design Associates, Inc. and Reed Hilderbrand*

SUPPORT

Design Support

Tap into a team of design and mechanical engineers, structural and metallurgical experts and drafters dedicated to serving the design challenges of architects, interior designers and landscape architects. Throughout the course of our engagement, we can help with things like developing representative shop drawings, determining and writing final specifications in Construction Specification Institute format and compiling construction documents.

Manufacturing Expertise

Evolved from the legacy of Johnson Screens, Johnson Architectural Elements has vast experience in stainless steel welding and shaping that you won't find anywhere else. An exclusive architectural manufacturing team, plus fabricators and welders are devoted to delivering the highest quality materials. With multiple locations around the world, we can provide fabrication at or near your installation site.

Field Services

When it's necessary to have support onsite, working directly with contractors—call on us for expert technicians to provide engineering, drafting, logistical, storage and installation services. We have broad resources at the ready to complement your project.

Maintenance

Once a project is complete, it might require ongoing care to ensure it continues to make the same impact as it did on installation day. Proprietary Steel Brite™ products remove visual staining that might occur when stainless steel is exposed to corrosive elements. Following cleaning, Passivator Rinse restores the natural corrosion protection properties of stainless steel and neutralizes any remaining chemicals. These products can be purchased for your maintenance team to use, or we can conduct field services for installed materials.

JOHNSON
ARCHITECTURAL ELEMENTS

NORTH AMERICA HEADQUARTERS

+1 651 636 3900 *Phone*
+1 651 638 3177 *Fax*

1950 Old Hwy 8 NW
New Brighton, MN 55112

johnsonarchitecturalelements.com

Johnson Architectural Elements has sales and manufacturing locations around the world, which allows for stronger collaboration, faster production and lower shipping costs. Our team is here to support you through every step of the process, no matter where inspiration strikes.

NORTH AMERICA

+1 651 636 3900 *Phone*
+1 651 638 3171 *Fax*
info.johnsonscreens.us@aqseptence.com

EUROPE

+33 5 49021600 *Phone*
+33 5 49021616 *Fax*
info.johnsonscreens.fr@aqseptence.com

JAPAN

+81 45 661 3575 *Phone*
+81 45 661 1921 *Fax*
info.johnsonscreens.jp@aqseptence.com

BRAZIL

+55 11 4341 5777 *Phone*
+55 11 4393 0414 *Fax*
info.johnsonscreens.br@aqseptence.com

AUSTRALIA - ASIA PACIFIC

+61 7 3867 5555 *Phone*
+61 7 3867 5566 *Fax*
info.johnsonscreens.au@aqseptence.com

INDIA

+91 2764 281007 / 281220 / 281221 *Phone*
+91 2764 281028 *Fax*
info.johnsonscreens.in@aqseptence.com

ARGENTINA

+54 11 4714 6699 *Phone*
+54 11 4714 2175 *Fax*
info.johnsonscreens.ar@aqseptence.com

CHILE

+56 02 9280700 *Phone*
+56 02 9280705 *Fax*
info.johnsonscreens.cl@aqseptence.com

Aqseptence Group
www.aqseptence.com