



AIA
Continuing
Education
Provider

Event Spaces Portfolio



**30 YEARS & 1000 PROJECTS
LATER...**

**OPENAIRE BUILDS
RETRACTABLE ROOFS
AROUND THE GLOBE**

IS YOURS NEXT?

What we do



How to Work with Us

- We work with architects, developers, investors, contractors, construction managers, general contractors, independent builders, property owners and more...
- OpenAire can participate in your project from design to manufacturing, to construction / installation and hand-over plus can provide architectural and engineering services, operations support, financial/investment planning, business planning etc.
- We are typically included in projects at the Concept Design or Schematic Design Phase. We work with your team to implement your vision.
- The best warranty in the industry: minimum 5 year full parts and labour warranty, training, worldwide support and maintenance

Collaborative Design

- In-house design and engineering
- Certified fabrication & welding facility
- Dedicated customer support and project management
- Revit, Solid Edge, CAD

Engineer Standards

- Minimum L/200 deflection criteria in every design
- Free span enclosures of over 180' (55 m)
- Free-span dome configurations more than 300' (91 m)
- Custom Engineering for all climates & geographies including:
 - High snow/rain loads
 - Seismic zones
 - Hurricane/tornados

Aluminum Construction

- Thermally broken aluminum frames/extrusions
- Baked on paint finish prevents corrosion making them Maintenance Free
- Proven Lower Lifecycle Costs for aluminum buildings
- Key component in energy efficient LEED certification



Salinas Municipal Aquatic Center, CA
LEED GOLD RATING



Roger Carter Community Center, MD
LEED SILVER RATING

8 BENEFITS OF ADDING A RETRACTABLE ROOF

TO YOUR DESIGN OR FACILITY



1 PROMOTES HEALTH AND HYGIENE

Opt for fresh air circulation and daylight for a healthier environment, a new standard in future design.



2 MAXIMIZING SPACE AND REVENUE

Convert unused space or extend "usable" space to turn it into a year-round revenue generator.



3 LOWER LIFECYCLE COSTS

Reduced operating costs add up to drastic savings.



4 NATURAL LIGHT AND ILLUMINATION

Welcome the outdoors inside with a retractable solution that allows for flexibility.



5 PERFECT CONDITIONS YEAR-ROUND

Rain or shine, your space converts to an indoor or outdoor space in minutes.



6 CREATE A PLACE PEOPLE WANT TO VISIT

Attract people to your bright, airy, stunning venue any time, any day.



7 MAINTENANCE-FREE

Never repaint again, means no more extended closures for downtime.



8 ENERGY EFFICIENT

Natural ventilation allows heat to escape and for reduced use of mechanical air-handling equipment.



1. Promotes Health and Hygiene

Ventilation is required to achieve and maintain good air quality, as well as thermal comfort levels for the occupants of any space.

There is little evidence that ventilation directly reduces the risk of disease transmission, but many studies suggest that **insufficient ventilation increases disease transmission.**¹

In this time of a global pandemic, the health of guests in your business is critical. New studies demonstrate the correlation between the transmission of COVID19 in closed environments vs. open air circulation.

In a recent Japan study, the odds a primary case transmitted COVID-19 in a closed environment was 18.7x greater compared to an open-air environment.²

2. Maximizes Space and Revenue

If you have a patio, rooftop or any space that is seasonal, you can enclose it (lot coverage permitting) giving you additional footprint for year round programming. You can also add a retractable skylight and retractable walls (to some building types) to areas that may be under-utilized or purpose specific, turning these into more flexible/programmable environments

Adding an amenity with lower maintenance costs and operating costs allows business owners to focus capital on other areas, and reduce overhead.



3. Lower Life-Cycle Costs

Savings when operating a retractable roof (translucent or transparent) enclosure include both the cost of hydro, gas and reduce your reliance on electrical lighting during the day.

In a nutshell when the roof is open, you turn off the mechanical systems and lights in the space. This is the intent of all global energy codes. To use less energy.

Using outdoor air as a dehumidifying source when it is cost effective, rather than using a mechanical dehumidification system, can greatly reduce total operating costs, provide better indoor air quality, and improve system reliability.³



4. Natural Light and Illumination

There is undeniable evidence first, that daylit spaces hold the potential to yield substantial benefits, including increased energy savings, increased revenue in retail applications, and improvements to human health and productivity.⁴

There are a variety of studies showing that daylight is the third most important factor in improving retail sales, behind hours of operation and years since last renovation.⁵

In other words, a day lit space with good hours and a clean, new environment will make more money.

Lighting loads can be reduced by incorporating natural lighting into the envelope design and by using efficient lighting options.⁶

5. Perfect Year Round Conditions

Open and Close the roof at the push of a button. Turn your space into one that can be used for events, parties, an indoor/outdoor rentable venue. Mother Nature will no longer have an impact on any use of your space. The roofs of our largest facilities close in minutes. So with the addition of optional rain sensors the enclosure will do the work for you.



6. Create a place people want to Visit

To compete in towns and cities across the country, all hotels, restaurants, bars, etc, must stay ahead of the trends to attract new guests. This is called improving your marketability.

Offering upgraded facilities that are safer and healthier, to compete with other venues, is critical. Ensuring that these can be open year round enhances their value and ROI via programming opportunities.

A retractable roof ensures you are free from weather related concerns. In addition, the 'peace of mind' associated with being in a bright, open and naturally ventilated space is appealing and "marketable" to attract guests.

7. Maintenance Free Facility

Aluminum is lightweight, high-strength, corrosion-resistant and widely recycled. It maximizes building efficiency by balancing the functions of heating, cooling, lighting, shading and ventilation. In addition, aluminum in buildings has been proven to last for multiple decades with minimal maintenance, lowering the lifecycle footprint of a building.⁷



8. Energy Efficient

All energy codes, globally, require new or renovated structures and buildings to use less energy. Aluminum is superior to steel and iron in its ability to reflect the infrared (heat) rays of the sun. ***Properly coated aluminum roofs can reflect up to 95 percent of the solar energy that strikes them, dramatically improving energy efficiency. This makes aluminum is a key component in LEED-certified green buildings should you be looking for that designation.***⁹

In addition when the roof is open and the walls are open, your space becomes a naturally “chimney”. This is a low cost alternative to expensive energy consuming mechanical ventilation systems.

Learn & Earn

OpenAire now offers a
Continuing Education Credit
for Architects = 1 AIA LU-HSW

LEARN:

- How they can be added to new & existing buildings
- The health, safety, benefits for occupants
- How retractable roofs can save energy costs \$\$
- The benefits of a Naturally Ventilated Space
- How large volumes of air will potentially reduce the load of airborne disease pathogens
- How retractable roofs are a sustainable and can reduce the carbon footprint of a building
- How they can your reduce building yearly operating costs

<https://openaire.com/continuingeducation/>

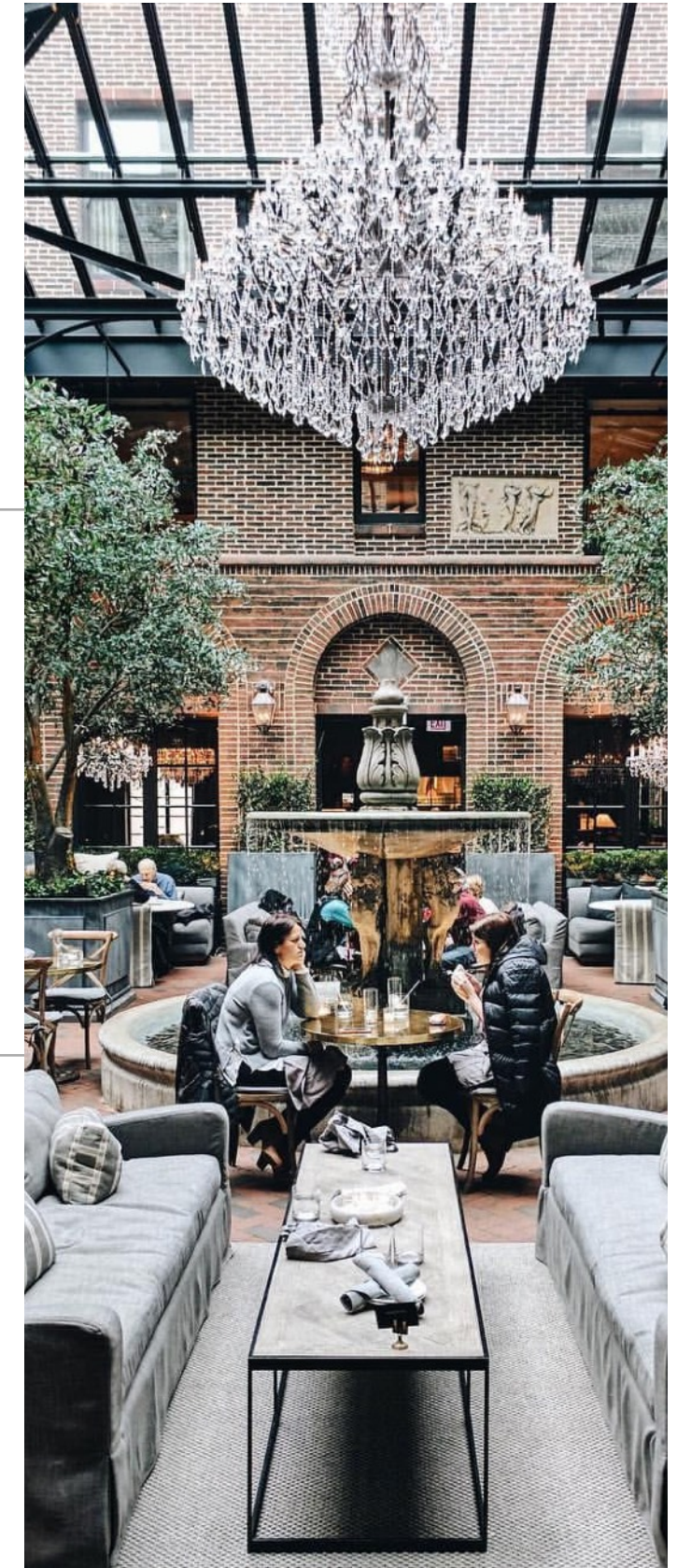
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Credits:

 0.1 IACET CEU*	 1 AIA LU/HSW	 1 AIBD P-CE	 AAA 1 Structured Learning Hour	 AANB 1 Hour of Core Learning	 AAPEI 1 Structured Learning Hour
 MAA 1 Structured Learning Hour	 NLAA 1 Hour of Core Learning	 NSAA 1 Hour of Core Learning	 NWTAA 1 Structured Learning Hour	 OAA 1 Learning Hour	 SAA 1 Hour of Core Learning

Retail





Restoration Hardware: Three Arts Building
Chicago Illinois



Shopping Mall
Old Quebec Street, Guelph, Ontario

Restaurants

Bar/Lounge

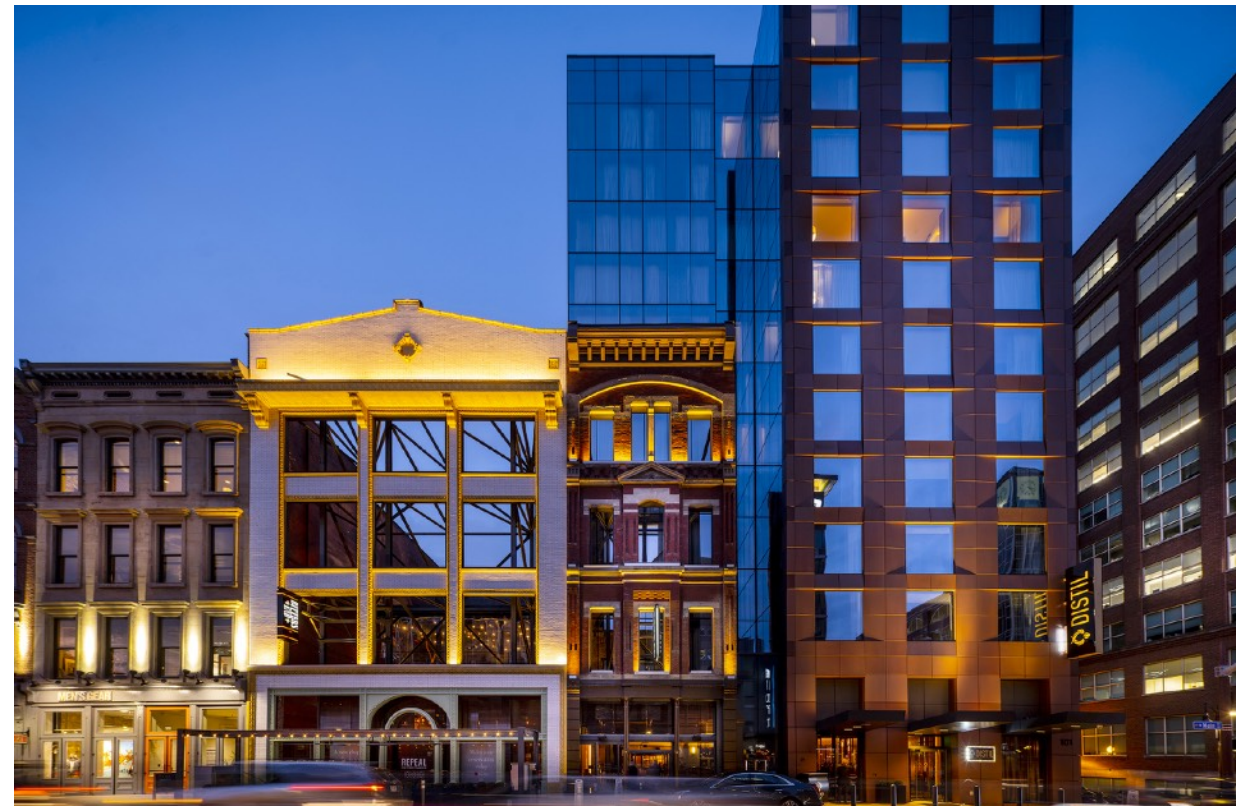
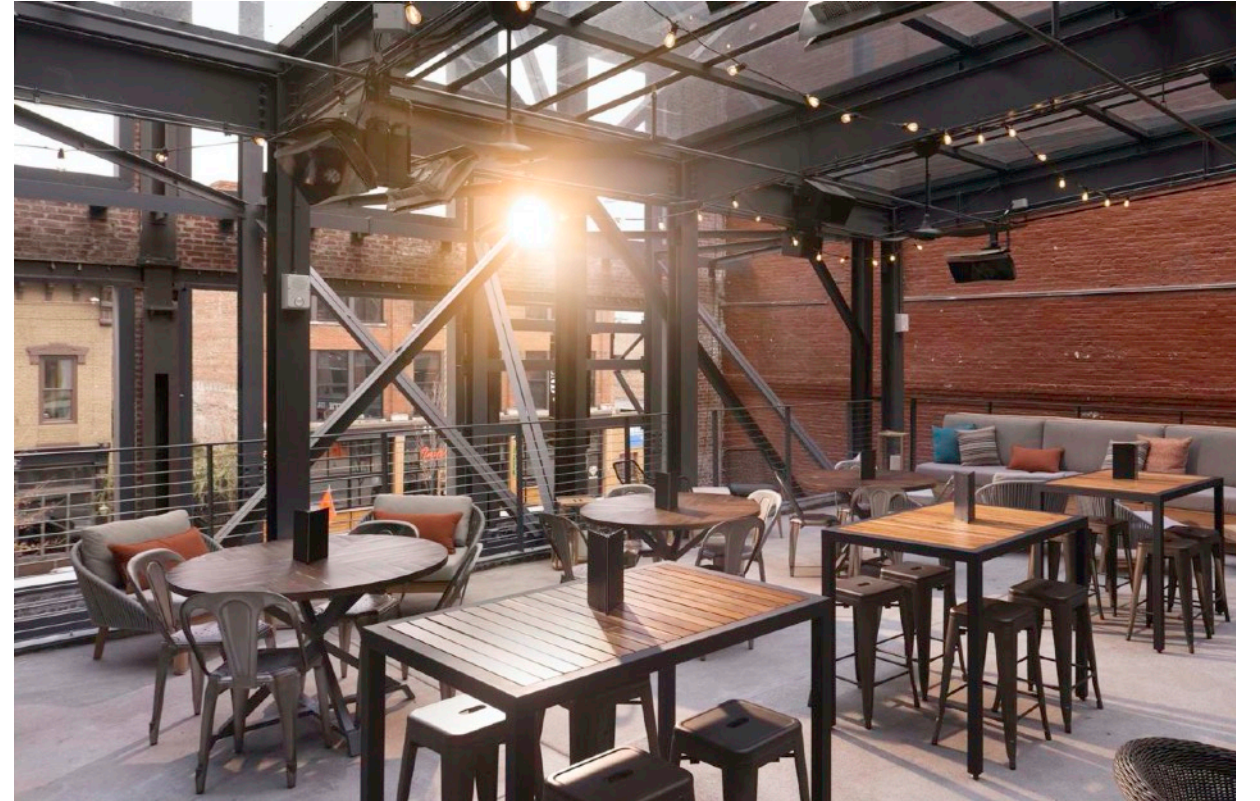




Lincoln Social Rooftop, 711 High Street
Columbus, Ohio



Kamakura - 150 State Street
Boston, MA



Bitters End @ Hotel Distil and Moxy Louisville
Louisville, Kentucky



Gibsons Italia: RiverPoint Tower
Chicago, Illinois



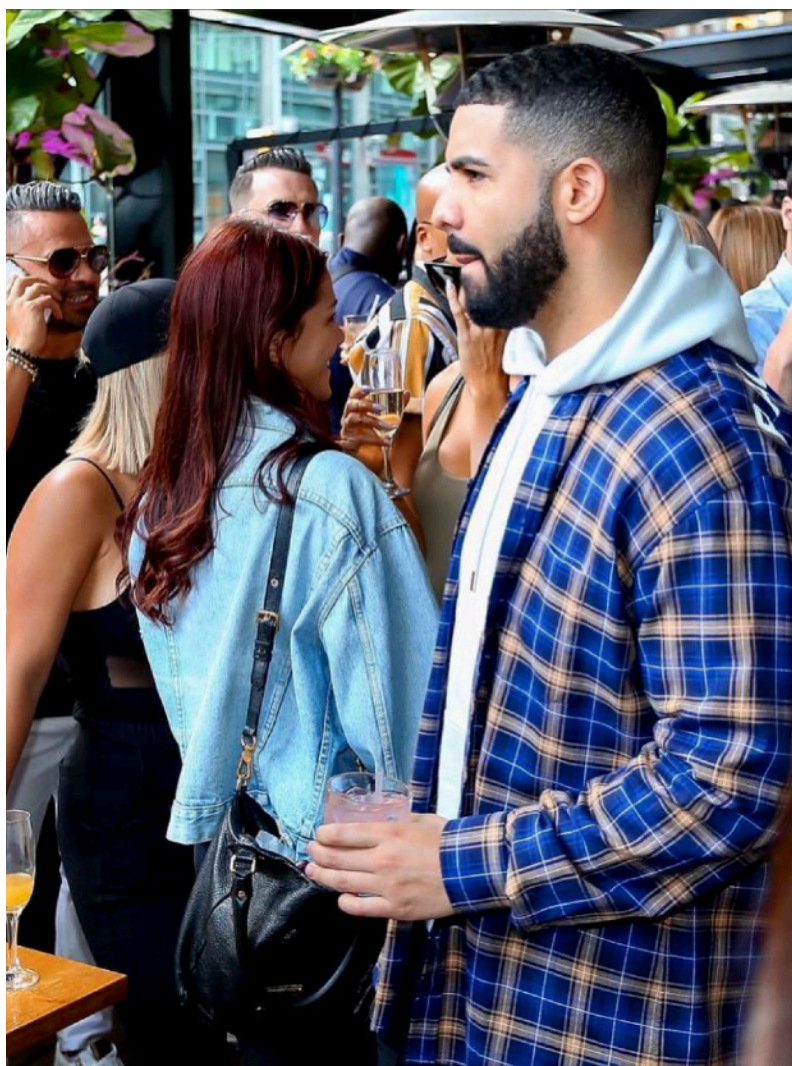
Gibsons Italia: RiverPoint Tower
Chicago, Illinois



60 Vines Uptown
Dallas Texas



60 Vines Uptown
Dallas Texas



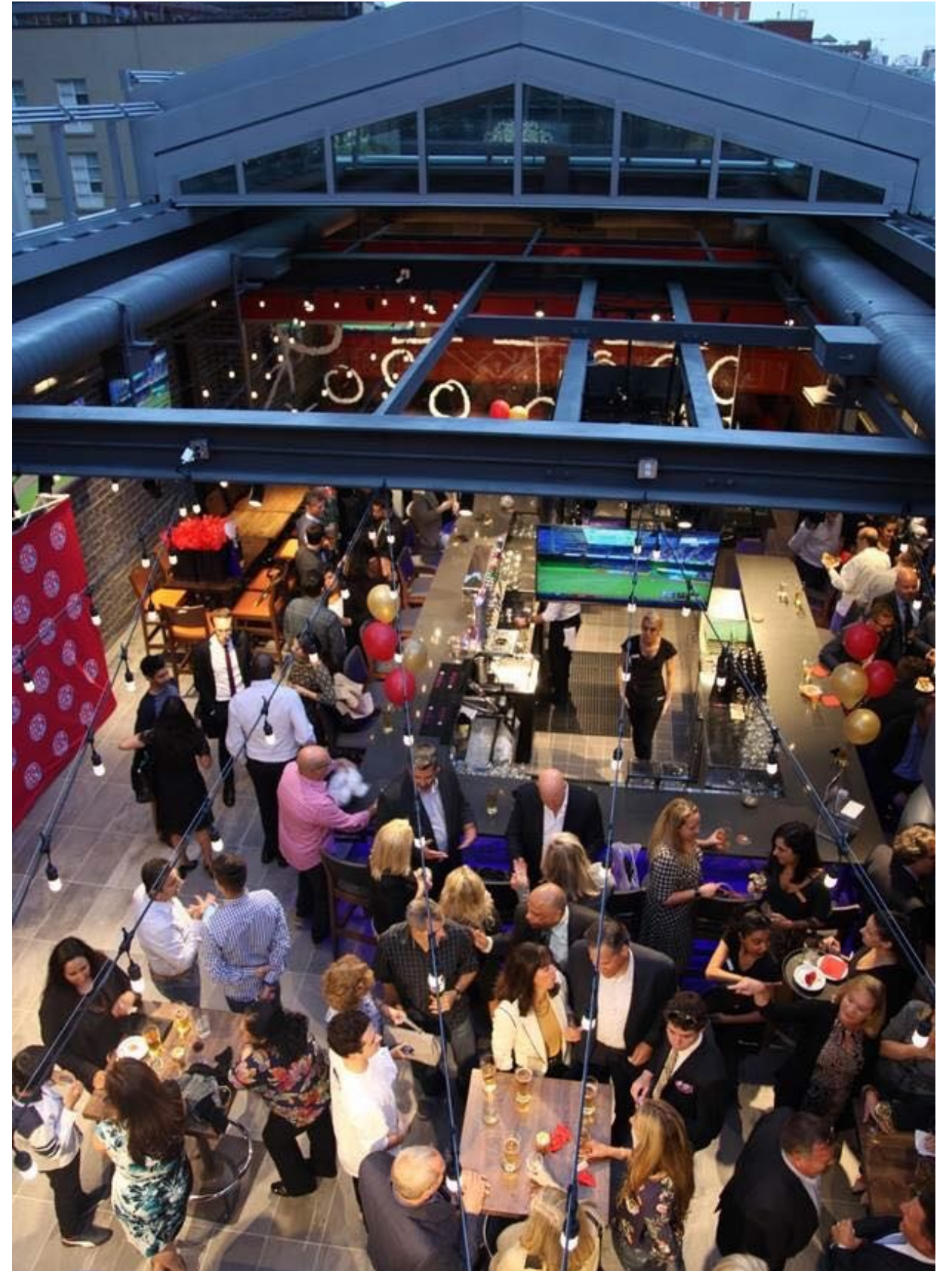
Pick 6ix - Drake
Toronto Ontario



Barcelona Tavern - Liberty Village
Toronto, Ontario



Boston Pizza
Toronto Ontario





Boston Pizza
Toronto Ontario



Kelly's Landing
Toronto, Ontario



Kelly's Landing
Toronto, Ontario



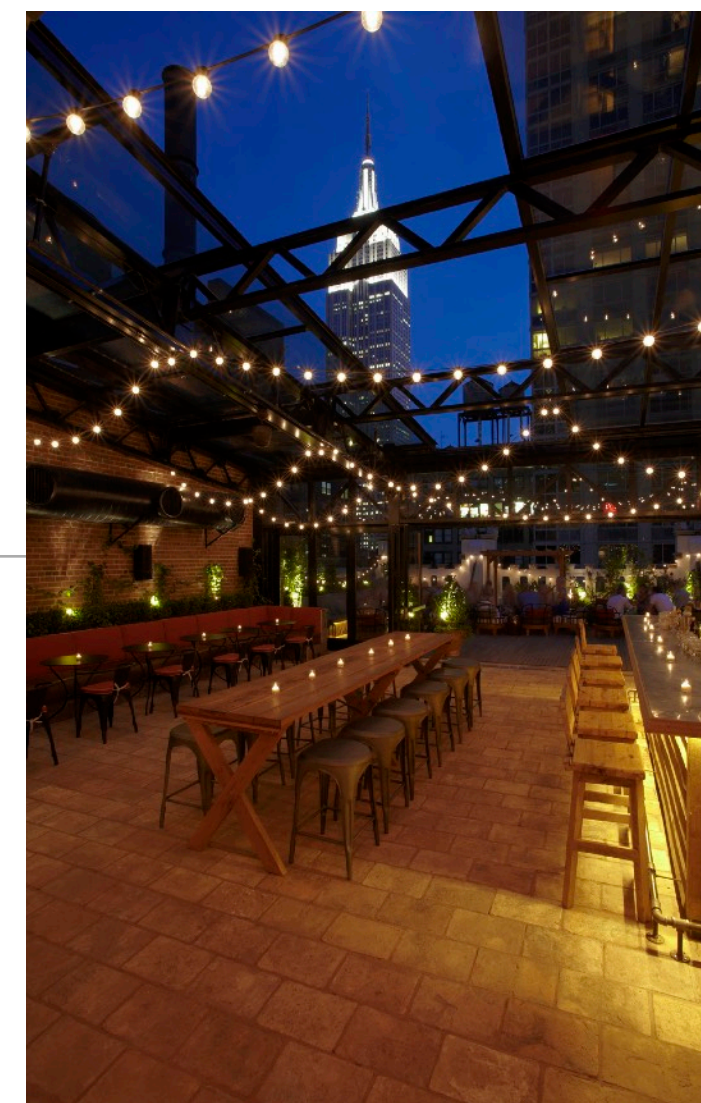
Crooked Cue Pool Hall and Restaurant: Phase 1
Etobicoke, Ontario



Crooked Cue Pool Hall and Restaurant: Phase 2
Etobicoke, Ontario



Local Leaside
Toronto, Ontario, Canada



Refinery Hotel: Rooftop Patio
New York City, New York



Gusto 101
Toronto, Canada



Flowers Restaurant
Arizona



Pizza Express
St Brelade, Jersey



Power Plant LIVE! Beer Garden
Baltimore, Maryland



Xfinity Live! Victory Hall, Beer Garden
Philadelphia, Pennsylvania



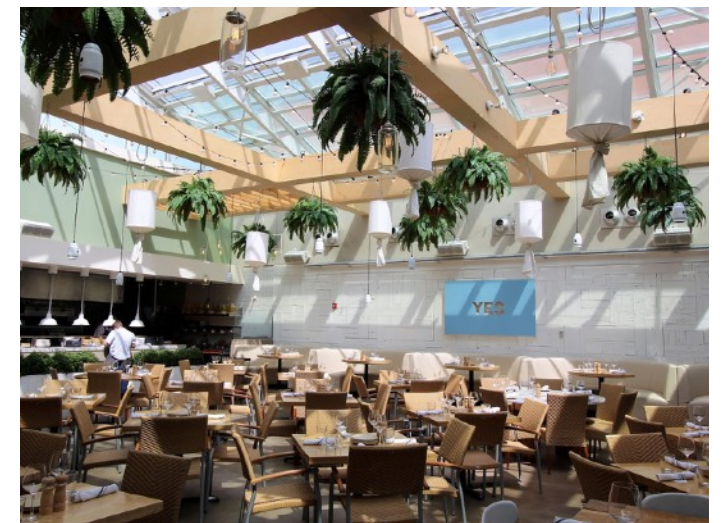
4th St Live! Goose Island Beer Bridge
Louisville Kentucky



Ballpark Village Live! Beer Garden
St.Louis, Missouri, USA



Hawthorne
Washington DC



SummerHouse Santa Monica
Chicago IL

Entertainment





Private Event Venue
Mumbai India



St.Louis Fox Sports Midwest Live: Ballpark Village Live!
One space multiple lighting/event designs



St.Louis Fox Sports Midwest Live: Ballpark Village Live!
One space multiple lighting/event designs



PowerPlant Live! Baltimore
Multi-use event venue



Rebel Event Venue: Polson Pier Toronto
Multi-purpose event venue



Crystal Spring Resort, Grand Cascades, New Jersey
BioSphere/Event Venue



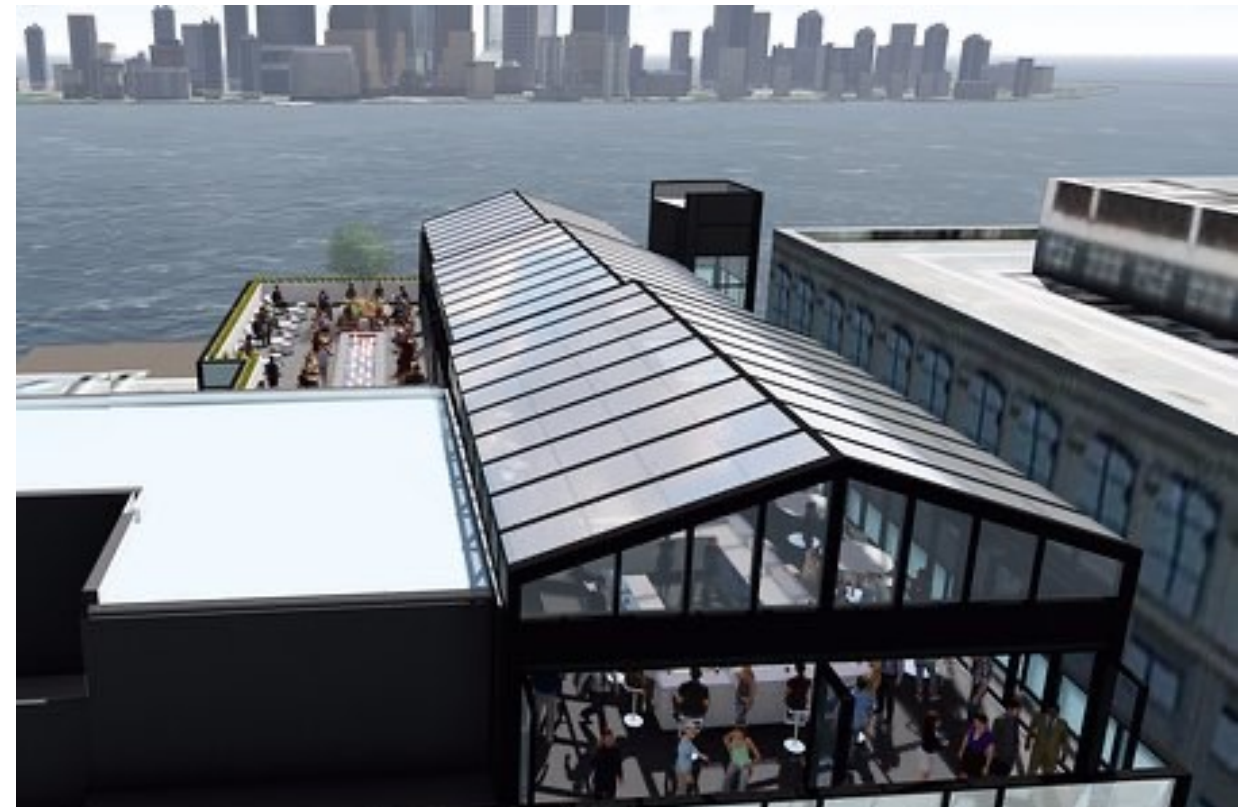
Moon Nightclub
Palms Hotel, Las Vegas



Charleston Riverfront Park Amphitheatre
Charleston. South Carolina

Hotels





Rooftop XP Lounge at Hyatt House
Jersey City, New Jersey



Moxy Hotel by Marriott - Rooftop Yoga Space
Washington DC



Best Western Plus Lamplighter Inn
London Ontario





Waterford Retirement Residence Event Space
Ottawa Ontario



Waterford Retirement Residence Event Space
Ottawa Ontario



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Thank you

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End Notes:

1. WHO; Natural Ventilation for Infection Control in Health-Care Settings, Edited by: James Atkinson, Yves Chartier, Carmen Lúcia Pessoa-Silva, Paul Jensen, Yuguo Li and Wing-Hong Seto, ISBN 978 92 4 154785 7 (NLM classification:WX 167), © World Health Organization 2009
2. Closed environments facilitate secondary transmission of coronavirus disease 2019 (COVID-19) Hiroshi Nishiura, Hitoshi Oshitani, Tetsuro Kobayashi, Tomoya Saito, Tomimasa Sunagawa, Tamano Matsui, Takaji Wakita, MHLW COVID-19 Response Team, Motoi Suzuki, medRxiv 2020.02.28.20029272; doi: <https://doi.org/10.1101/2020.02.28.20029272>
3. Energy efficiency in indoor aquatic facilities. Thoughtful choices yield significant energy savings, by Gary Lochner, Unison Comfort Technologies, innoventair.com
4. The Benefits of Natural Light: Research supports daylighting's positive effect on building performance and human health. Kevin Van Den Wymelenberg. architecturallighting.com; March 19, 2014
5. *ibid.*
6. Energy efficiency in indoor aquatic facilities. Thoughtful choices yield significant energy savings, by Gary Lochner, Unison Comfort Technologies, innoventair.com
7. <https://www.aluminum.org/aluminum-advantage/aluminum-101>
8. <https://www.aluminum.org/product-markets/building-construction>
9. *ibid.*