



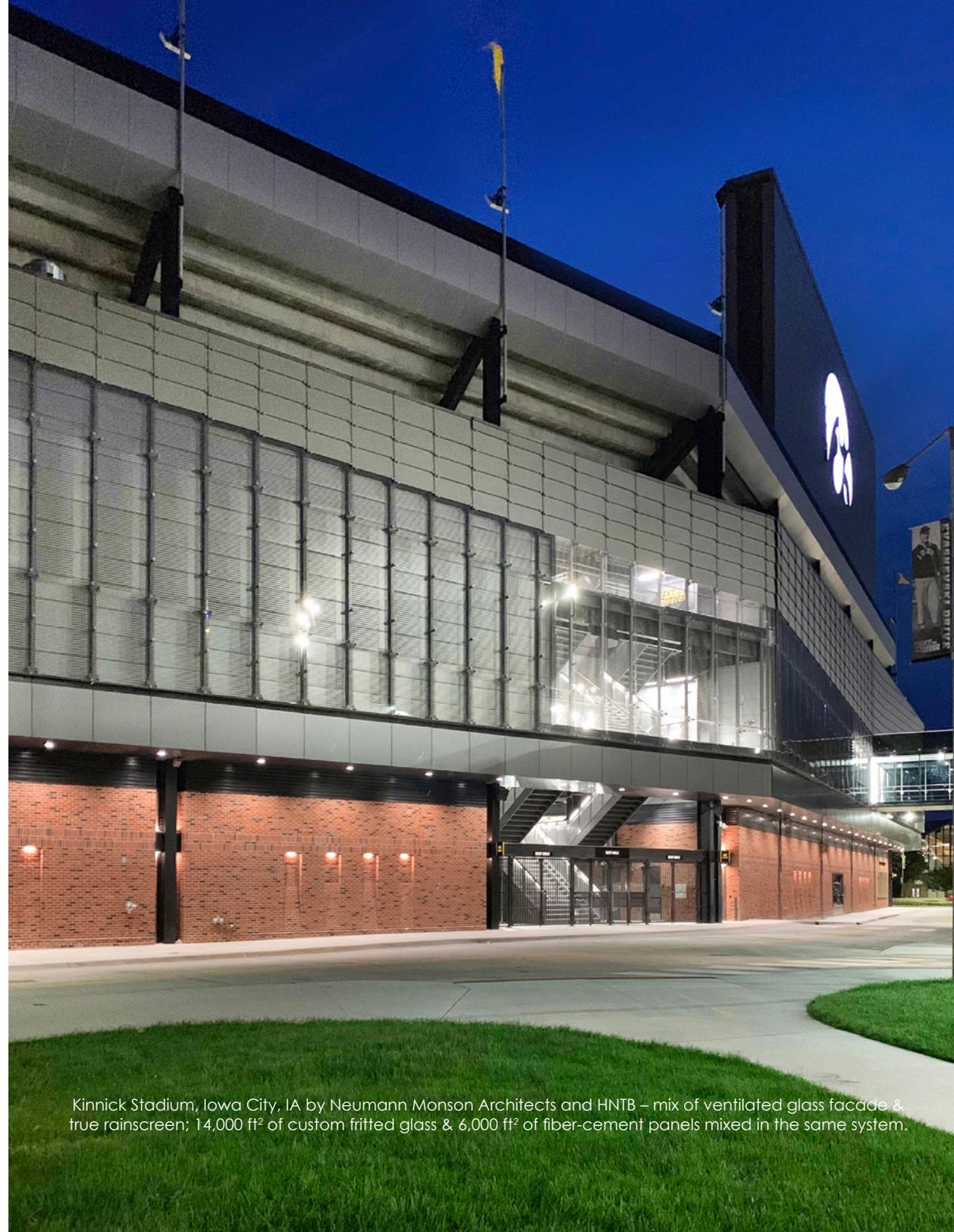
Engineered Decorative Glass Facades

**BENDHEIM**

# G L A S S RAINSCREENS & VENTILATED F A C A D E S TRANSFORM BUILDINGS

Create ethereal buildings and budget-smart complex facade geometries with Bendheim's exterior glass systems. They can easily attach to the structural walls or slabs of a new or existing building to:

- ◆ Shield occupants & structures from the elements: wind, rain, snow, direct sun
- ◆ Facilitate speedier fabrication and easier, faster installation than traditional point-supported / spider systems **(thanks to no holes through the glass)**
- ◆ Maintain daylighting advantages, while providing a sense of privacy, through the use of translucent light-diffusing glass, including custom designs
- ◆ Improve safety by facilitating visibility & natural surveillance, allowing users to see and be seen, hear and be heard
- ◆ Sustainably renew a building without the need for costly, wasteful, disruptive demolition



Kinnick Stadium, Iowa City, IA by Neumann Monson Architects and HNTB – mix of ventilated glass facade & true rainscreen; 14,000 ft<sup>2</sup> of custom fritted glass & 6,000 ft<sup>2</sup> of fiber-cement panels mixed in the same system.



### NEW LIFE FOR OLD BUILDINGS

3001 Orchard Parkway, San Jose, CA by MODULUS – Decorative glass rainscreen elevates the building profile. Less than a year after renovation, the property sold for a \$18.5M profit – over 100% return on investment.



### HIGH-RISES | “LANTERN” CROWNS

1 Hudson Yards Tower, NYC by Davis Brody Bond – Translucent white textured glass conceals unsightly rooftop mechanical systems. The customized clips open from the back for ease of installation or replacement.



### NATURALLY-VENTILATED PARKING STRUCTURES | STADIUMS

727 West Madison Parking Facade, Chicago, IL by FitzGerald Associates – Bendheim’s custom design saved over \$1M by eliminating costly structural steel supports and providing generous natural ventilation.



### BUDGET-FRIENDLY COMPLEX FACADES

University of Ljubljana, Slovenia – Second-skin glass facade transforms the building shape, lending a textural, sculptural quality. Benefits include cost savings and risk mitigation.

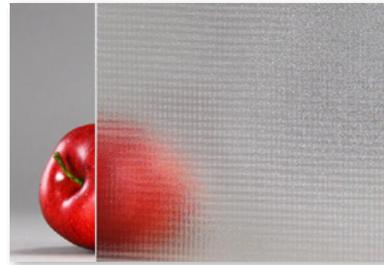
**VIRTUALLY UNLIMITED CUSTOMIZED GLASS OPTIONS (SAFETY TEMPERED / LAMINATED)**



Fritted (Spandrel/Full or Patterns)



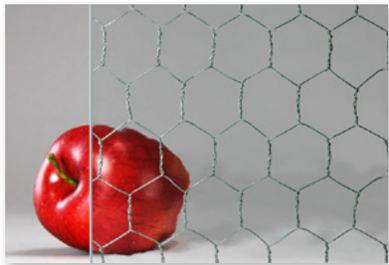
Etched Mirrors



Textured



Etched



Decorative Laminated



Color-Laminated

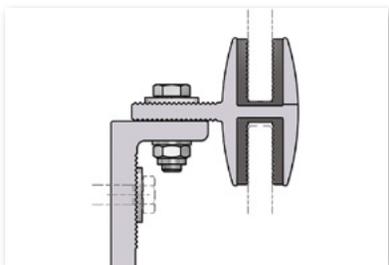


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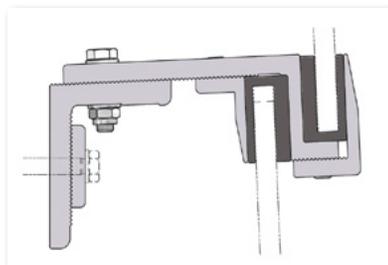


Clear

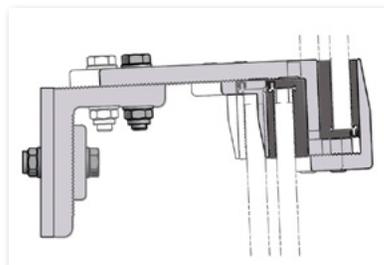
**CUSTOMIZABLE PATENTED COMPRESSION FITTINGS (COLOR POWDER COATED / CLEAR ANODIZED)**



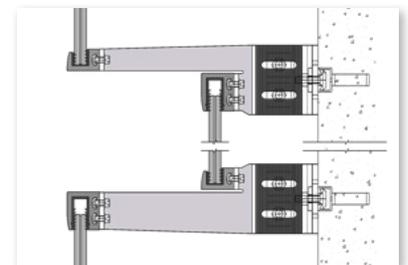
Wall-F: Flat / No Panel Overlap  
AAMA 509-09 Classification: V12/W1  
Ideal for planar facades featuring minimal joints



Wall-H: Horizontal Panel Overlap  
AAMA 509-09 Classification: V27/W1  
Ideal for dimensional, "shingled" planar facades



Wall-VH: Vertical & Horizontal Overlap  
AAMA 509-09 Classification: V28/W1  
Ideal for three-dimensional, textural facades



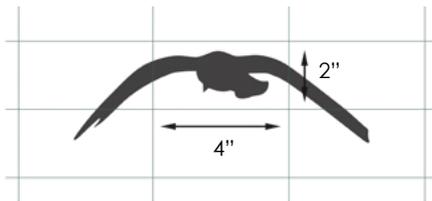
Fully Customized Engineered Fittings  
w/ Custom Panel Spacing & Overlap  
Ideal for parking facades requiring maximum ventilation

## GLASS BENEFITS

- Resilient against water, salt spray, wind, time, and UV light
- Non-porous, easy to maintain
- Non-combustible
- Permits daylight
- Promotes a sense of prestige, openness, and connection to the outdoors
- Can be back-lit & projected on

## BIRD-FRIENDLY GLASS

From bird-safe fully etched and fritted glass to textured glass that minimizes continuous reflections and patterns designed to the American Bird Conservancy's "2 x 4 rule":



## MAX. GLASS DIMENSIONS

- Max. panel size and thickness are based on your design & the wind loads
- Custom glass sizing, shapes, and layouts are facilitated by Bendheim's technical design team

**DESIGN SUPPORT** Our team can provide specification assistance, custom drawings, and engineering calculations. Typical AutoCAD & Revit drawings are available on our website or by e-mail. Please share your project details with your local representative: [bendheim.com/professional/find-a-rep](http://bendheim.com/professional/find-a-rep) or contact us directly at [rainscreens@bendheim.com](mailto:rainscreens@bendheim.com).

## BUDGET-SMART "JEWEL" GLASS FACADES

Decorative glass lends prestige, character, and longevity to buildings. Let our team's Design Assist expertise guide your project. Please send your ideas, target budget & drawings to [rainscreens@bendheim.com](mailto:rainscreens@bendheim.com).

## RIGOROUS TESTING

Bendheim's systems are tested in accordance with ASTM E330-02 & AAMA 509-09/AAMA 508-07 requirements for Water Penetration, Pressure Equalization, Air Leakage & Structural Performance. They stop over 90% of wind-driven moisture from reaching the building; the remaining <10% is dissipated through drainage and evaporation.

## QUICK INSTALLATION

- Patented systems require no cut-outs or holes in the glass for greater wall strength, easy adjustment & speedy installation
- Individual glass panels can be quickly and easily replaced without having to deglaze surrounding panels
- The fittings can be affixed to steel, aluminum, timber, or other substructures
- A separate sub-structure is not always necessary; the glass cladding can be attached directly to structurally-sound walls, slabs, masonry, curtain wall, etc.
- No previous training or special tools required

## EASY MAINTENANCE

Glass is non-porous and naturally hygienic, resisting water stains and graffiti. Inside/outside cleaning of ventilated glass facades is rarely necessary. When needed, simply use traditional window cleaning techniques. Installed as a rainscreen, the inside face seldom requires cleaning, as little (if any) dirt gets inside the cavity. If necessary, the back of the cladding can be hosed clean from the roof or through operable windows / catwalks behind the rainscreen.



Back cover: 727 West Madison Parking Structure by FitzGerald Associates © Tashio Martinez | Front cover: JCCC Arts + Design Studios by BNIM Architects © Nick Merrick | © 2020 Bendheim

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