

Small projects with glass



Project Photo: MTH

Rendering: Lothan VanHook DeStefano Architecture

Canopy at McClurg Court

Location, year: Chicago, Illinois, 2016

Client: MTH

Architect: Lothan VanHook DeStefano

Stutzki Role: Detail development, engineering

Hardware manufacturers: Tripyramid, Sadev

Glass: Laminated, with SentryGlass Interlayer

This addition to the entrance of an existing building is a 39 ft span, wing-shaped canopy with hanging point-supported glass. The design was refined in a team with architect, contractor, and the engineer during a design-assist phase. The exterior structure is completely stainless steel, shop-fabricated and polished; installed on site with bolts, without any welding.





An artist's rendering shows a glass slide off the side of the U.S. Bank Tower. The ride from the 70th floor to the 69th floor will cost thrill-seekers \$8. (OUE Ltd.)

Glass Slide from US Bank Tower

Location, year: Los Angeles, CA, 2016

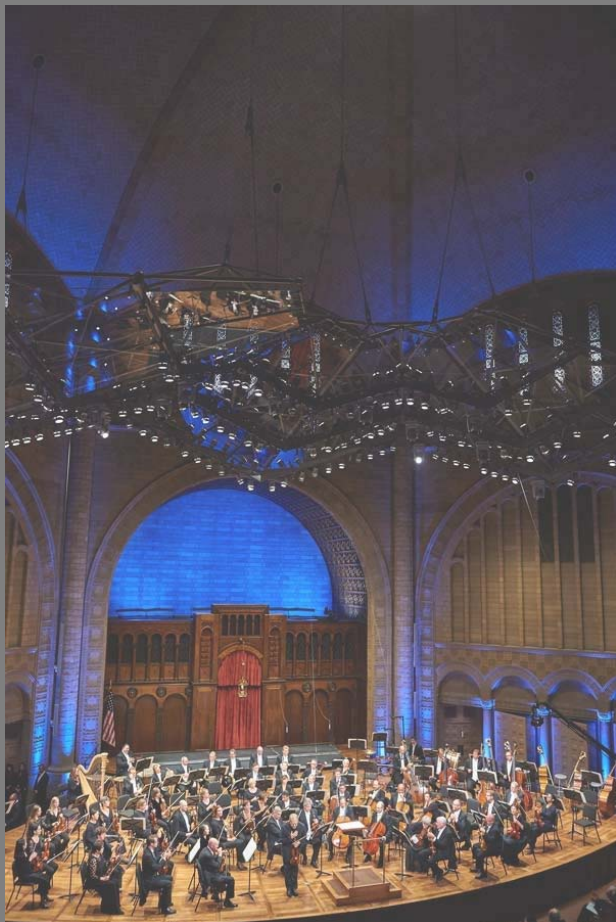
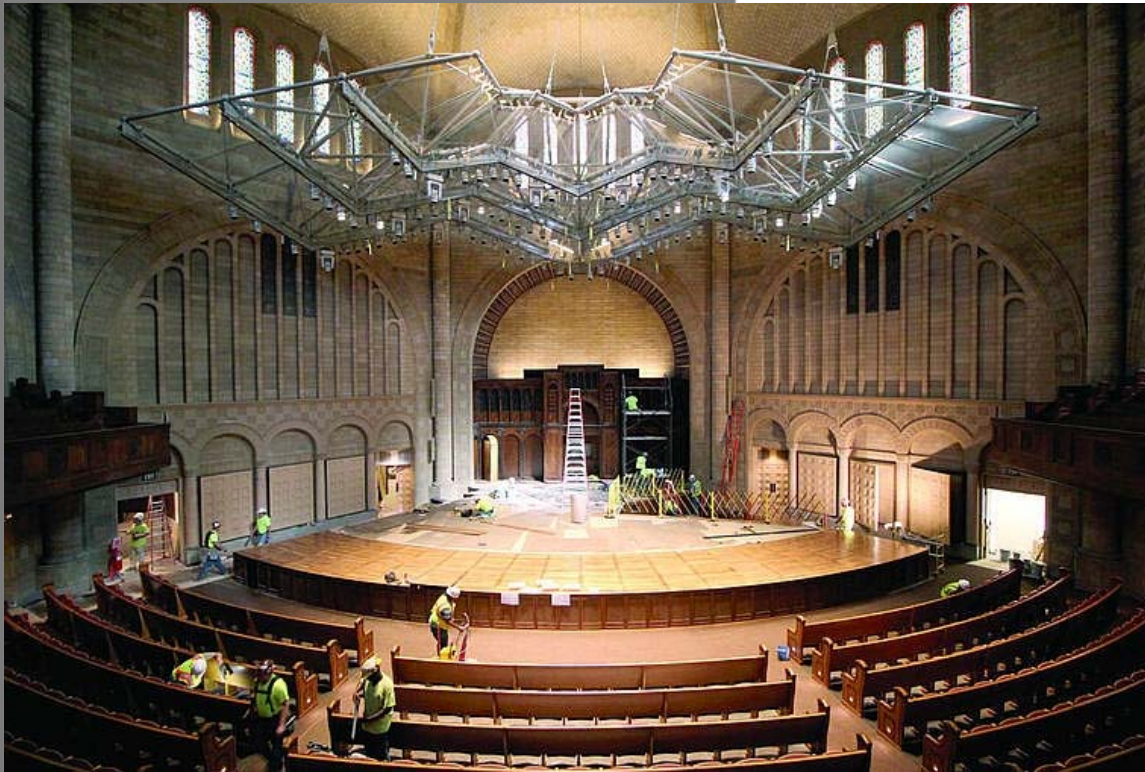
Client: Sentech Architectural Systems

Stutzki Role: Virtual testing (Numerical simulations) of glass-to-glass connections

Glass: Multi-laminate, with SentryGlass Interlayer

The full physical test program of the glass connections was preceded by virtual testing. This helps to extrapolate the test results into the analytical model of the complete structure.

This is the second thrill-ride STUTZKI helped to engineer (the first one being **THE TILT** at the John Hancock Tower in Chicago)



Acoustic Canopy at Case Western University

Location, year: Case Western, Cleveland, 2015

Architect / Client: MGA Partners / LinEI

Stutzki Role: Engineer for the space frame and glass

Glass: Laminated, with SentryGlass Interlayer

The Temple-Tifereth Israel at Case Western had been recently repurposed into the Milton and Tamar Maltz Performing Arts Center.

According to Kellogg, project manager for general contractor Turner Construction Co., the key challenges were reconfiguring Silver Hall for flexible staging, which now allows performances and concerts of various sizes, and installation of an acoustic canopy evoking a giant winged creature, part-origami, part-pterodactyl.

That canopy consists of 54 pieces of glass, each weighing 500 to 600 pounds (*each tilted with a different angle to disperse the echoes*). Six cables hung from the 88-foot-high ceiling trusses support it.

From: Cleveland Jewish News, Sept. 15, 2015



Photos: Gruzen Samton



Renderings: Gruzen Samton

Glass Stacks at the Moynihan Courthouse

Location, year: New York City, 2016

Architect: Gruzen-Samton / IBI-Group

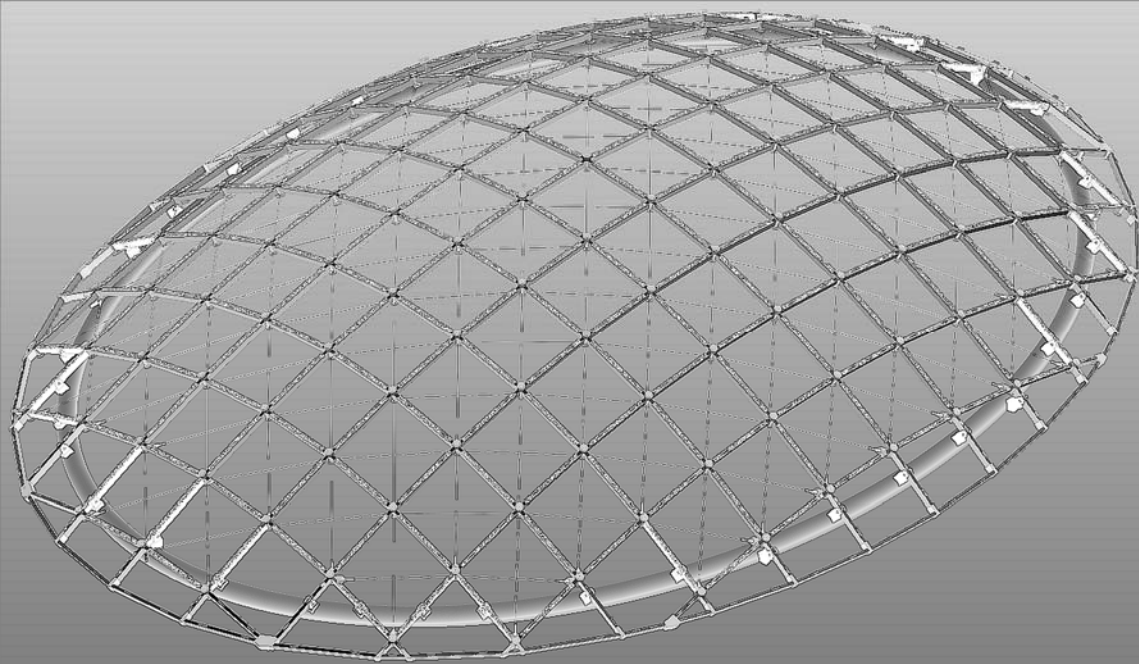
Client: Gruzen-Samton / IBI-Group

Stutzki Role: Consulting and Engineering

Glass: Starphire laminated with SentryGlass

Five stacks built out of 15 feet tall glass plates serve the dual purpose of art sculptures and part of the infrastructure. The glass structures have been developed to withstand wind and gravity without mechanical fasteners.

Gradual frit patterns allow for an appearance that is crystalline and airy light at the same time.



On the drawing boards: Grid shells for the TRANSBAY project in San Francisco

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- Stress Analysis, Sizing of Components, and Structural Engineering.
- Structural Glass Engineering
- Submittal Drawings and Shop Drawings
- 3D Conceptual Modeling