



radiustrack®

THE ART AND SCIENCE OF SIMPLIFYING THE CURVE

QUALIFICATIONS SUBMITTAL

Civic & Cultural

Radius Track Corporation
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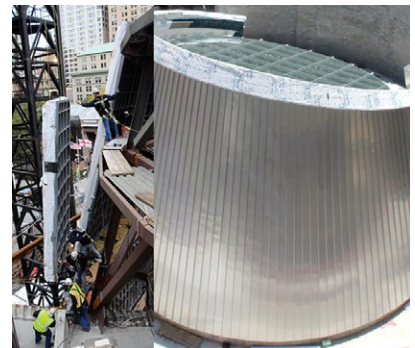
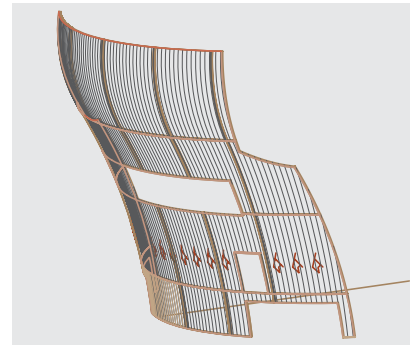
OVERVIEW

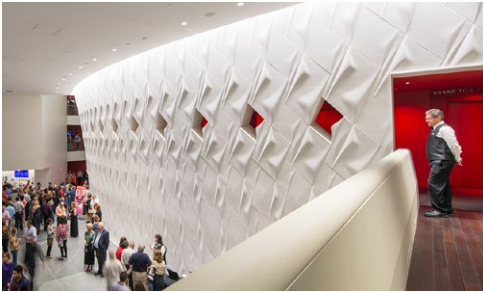
With decades of experience and tens of thousands of successfully completed projects, Radius Track Corporation pioneered pre-curved cold-formed steel (CFS) framing solutions. Our expertise stems from breakthrough non-structural and structural framing technology that frees architects to design and contractors to execute curved and complex surfaces with efficiency and precision.

Since the first patented invention, Radius Track® expanded manufacturing capabilities to join a custom-designed Computer Numeric Controlled Bending (CNCB) system with large machines to automatically fabricate custom formed framing profiles. Much more than a manufacturer of precision CFS framing, Radius Track® understands architecture, interior design, BIM, and framing. Our design team works with architects, engineers, construction managers, and contractors to translate design intent into constructible framing solutions through 3D modeling, data management, coordination, and CNC fabrication. Our solutions are grouped into four categories:

- **Design Assist BIM/3D Modeling**
- **Curved-Right® Custom Framing**
- **Unitized Framing Solutions**

Radius Track is a privately owned and operated corporation dedicated to providing constructible solutions for innovative designs using teamwork, coordination, technology, and experience. Whether we are working with you to design framing for a doubly curved feature wall, a grand dome with inset windows, a truncated conical unitized façade supporting an oculus, or furring for a curved wall, our goal is to provide a framing solution to meet the design intent and project specifications on time, within budget.





Tobin Center for the Performing Arts

San Antonio, TX

Architect: LMN Architects & Marmon Mok

Awards

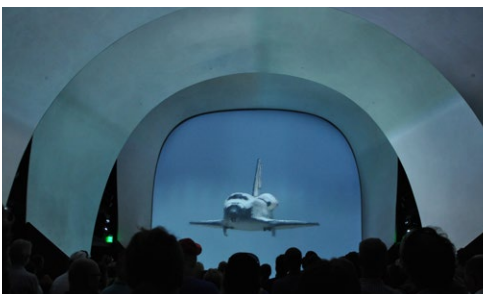
- 2014 CISCA Construction Excellence Award**



Anderson Collection at Stanford University

Stanford, CA

Architect: Ennead Architects LLP



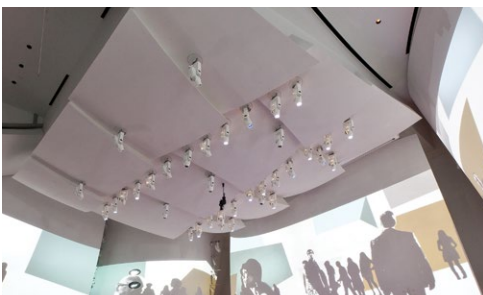
Space Shuttle Atlantis Attraction

Kennedy Space Center Visitor Complex, Titusville, FL

Architect: PGAV Destinations

Awards

- 2013 CISCA Construction Excellence Award**
- 2014 AAM Multimedia Installation Muse Award – American Alliance of Museums*



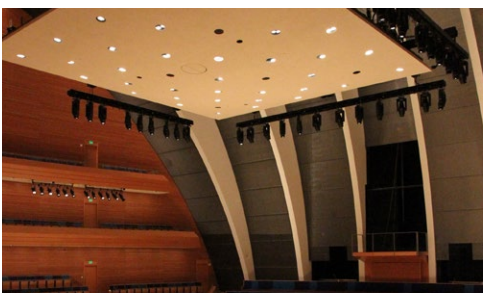
New World Center: Performance Hall

Miami Beach, FL

Architect: Frank Gehry Partners

Awards

- 2010 CISCA Construction Excellence Awards
Gold Award Winner-Interior Finishes**



Kauffman Center for the Performing Arts: Helzberg Hall

Kansas City, MO

Architect: Moshe Safdie of Safdie Architects

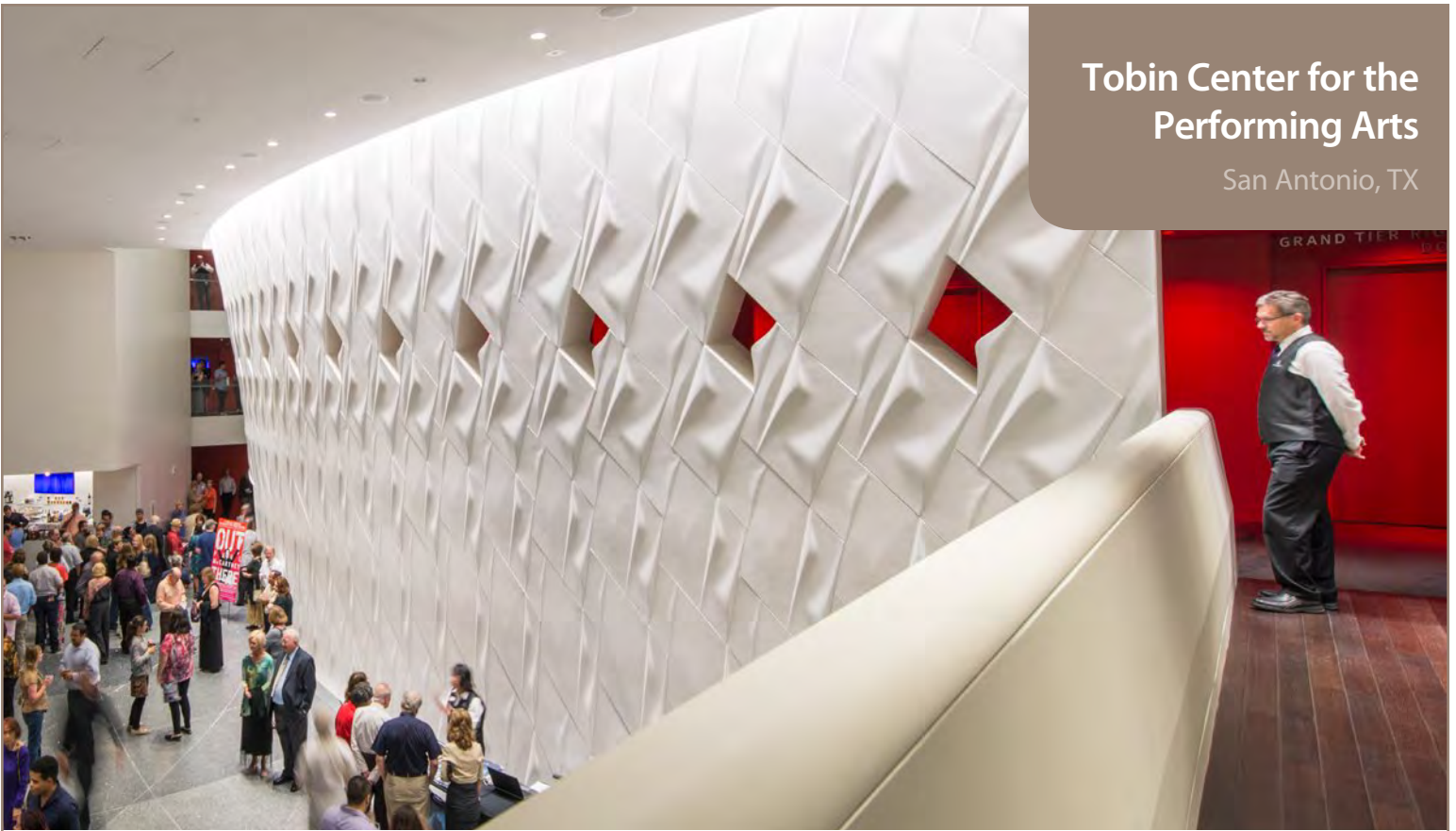
Awards

- 2011 Annual Excellence Award – Walls and Ceilings Magazine**

* Project Awards, ** Radius Track Awards

Tobin Center for the Performing Arts

San Antonio, TX



Sculptural Curves Soar at the Tobin Center

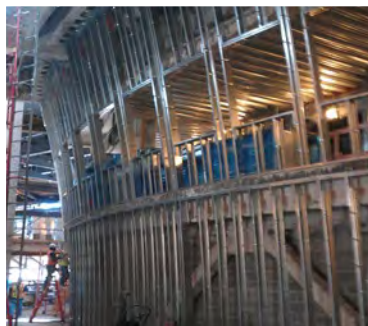
Architect: LMN Architects & Marmon Mok

General Contractor: Linbeck Group LLC & Zachry Construction

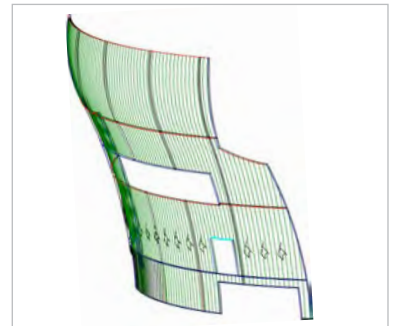
Sub Contractor: Baker Triangle

Curved Framing Solution Provider: Radius Track Corporation

Soaring nearly 70 feet tall is a sculptural feature wall with a 100-foot arc length that follows the compound curvature of the south end of the performance hall.



Curved-Right® pre-curved stud, track, and header elements frame the compound curves for the sculptural wall and support the GFRG panel assembly.



Data extracted from our Curved-Right 3D model was used for CNC fabrication of the pre-curved framing elements.

Anderson Collection at Stanford University

Stanford, CA



'Whale Belly' shaped curved ceiling tops Anderson Collection building at Stanford University

Architect: Ennead Architects LLP

General Contractor: Devcon Construction Inc.

Sub Contractor: J&J Acoustics

Curved Framing Solution Provider: Radius Track Corporation

Visitors to the Anderson Collection building enter a two story lobby open to a grand staircase extending to galleries above. Topping it all is an expansive curved ceiling nicknamed the "Whale Belly".



A Curved-Right® pre-curved framing solution allowed J&J Acoustics to frame 99% of the ceiling using scissor lifts instead of full scaffolding.



J&J Acoustics estimate the scissor lift installation decreased the overall construction schedule by 6 weeks.

Space Shuttle Atlantis Attraction

Kennedy Space Center, FL



Telescoping Arches Bring Multimedia Show to Life

Architect: PGAV Destinations

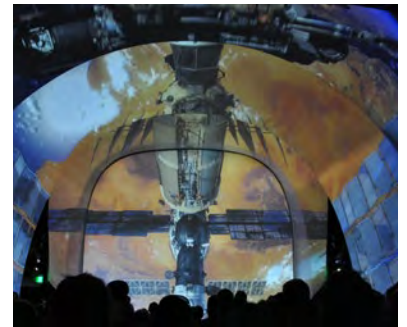
General Contractor: Whiting-Turner Orlando

Unitized & Curved Framing Solution Provider: Radius Track Corporation

On their way to see the Space Shuttle Atlantis attraction, visitors pass through an intimate theater designed by PGAV Destinations. Enclosed with telescoping arches, guests are immersed in a multimedia show.



Radius Track® fabricated unitized CFS framing for the theater's arches using design data extracted from their 3D model used for clash detection and fit.



The preassembled units for the 40' wide x 25' tall arches were set into place by the contractor using GPS coordinates provided by Radius Track.

New World Center Performance Hall

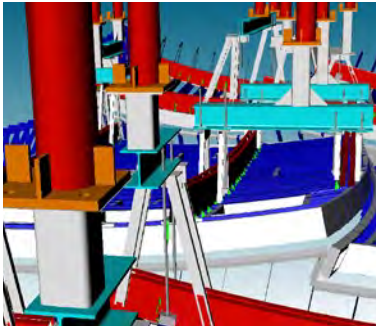
Miami Beach, FL



Acoustic Excellence Achieved with Curved Sails and Clouds at Performance Hall

Architect: Frank Gehry Partners
General Contractor: Facchina Construction of Florida
Curved Framing Solution Provider: Radius Track Corporation

2010 CISCA Construction Excellence- Gold Award Winner. Designed by Frank Gehry, FAIA, the interior architecture of the Performance Hall at New World Center is a collection of 259 different forms: dramatic "sails" and "stalactites," challenging "knife edges" at every surface edge, and high ceiling "clouds" with 105 unique surfaces.

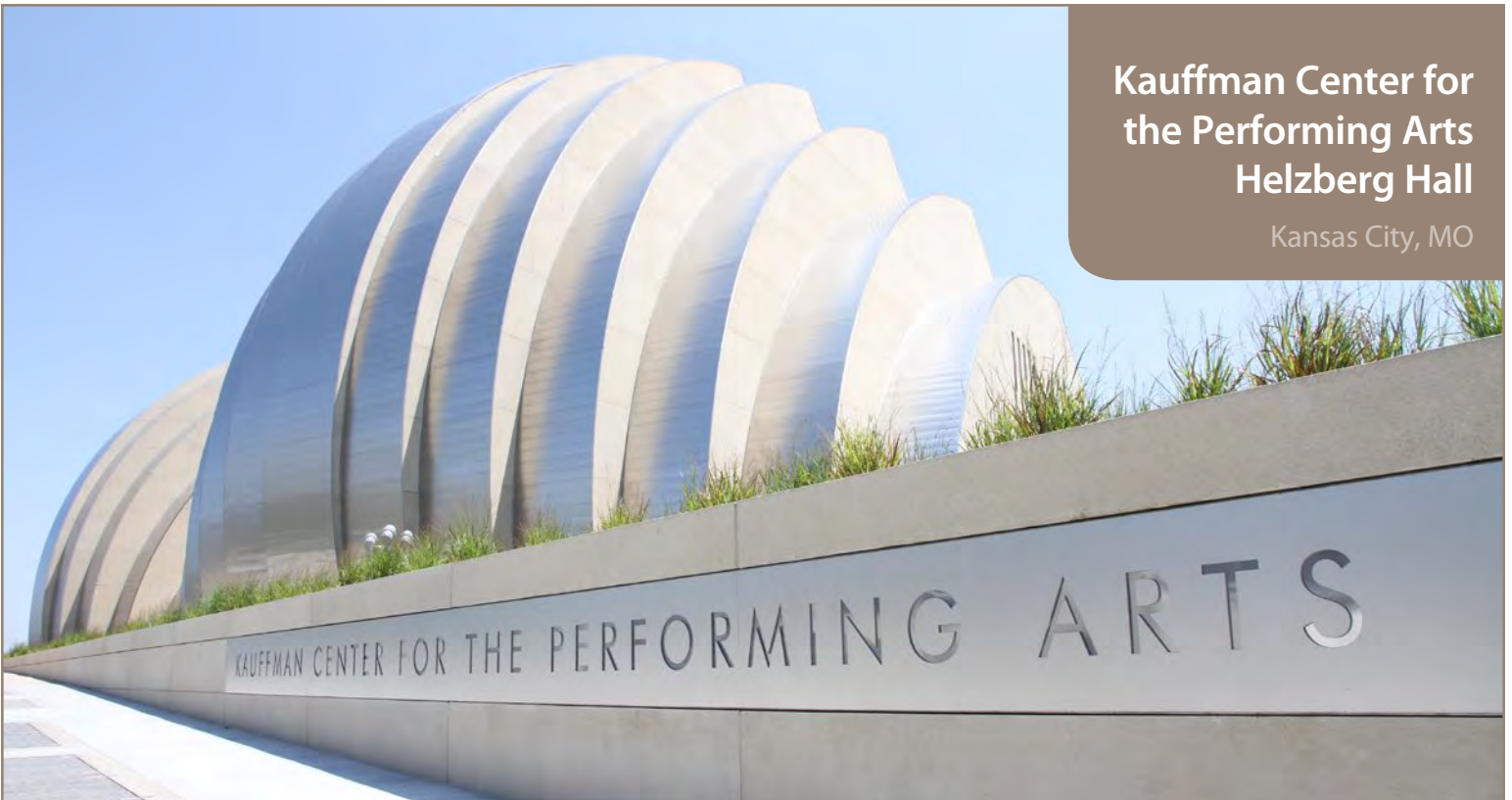


Using 3D modeling, Radius Track® designed a CFS framing system to meet the design intent using curved track, curved studs, curved box beams, curved hat channel and knife edges. The entire system was shaped to acoustically specific curves and coordinated with AV, AC and lighting design to detect and resolve clashes.

Radius Track's 3D model provided the data for them to fabricate 3,432 curved studs, 2,632 curved track framing pieces, 94% one of a kind. Curved box beams set in place using laser technology connected Acoustic Sails framed in curved track and studs to stalactites via 3-axis adjustable hanger assemblies.

Kauffman Center for the Performing Arts Helzberg Hall

Kansas City, MO



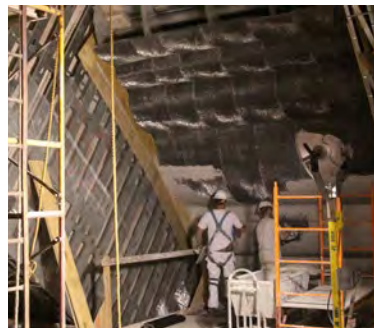
Hidden Convex Curves Deliver Sound to Concertgoers at Helzberg Hall

Architect: Moshe Safdie of Safdie Architects

General Contractor: Performance Contracting Inc.

Curved Framing Solution Provider: Radius Track Corporation

The gentle curves of the 100-foot high ceiling, 50-foot high orchestra reflector, and acoustically transparent metal mesh between tall ribs behind the orchestra floor are only part of the acoustic story at Helzberg Hall.



Behind the acoustically transparent metal mesh, convex reflective surfaces in 3 sizes, small medium and large, prevent acoustic focus and provide diffusion of sound to all seats in the audience.



Radius Track® used 3D modeling to design the curved CFS framing solution for each size of the convex shape, fabricated the pieces needed, labeled them, and shipped them to the site ready to be installed.