

GLASS PERFORMANCE DAYS 2025

PRESERVING THE PAST, SHAPING THE FUTURE WITH GLASS-CLAD LIBRARIES

-

CRISTACURVA

Introduction:

Radical Transformation:

From enclosed masonry buildings to light-filled modern-day glass structures

•Emerging Trend:

Blending historical preservation with forward-thinking design

•Innovation Showcases:

Award-winning Far Rockaway Library in Queens, New York

Upcoming Omaha Central Public Library









THEN: 1960's Structure

NOW: Embodies Openness & Community Engagement





Geometric Artistic Design

Illuminated Spaces

External Views





Laminated Insulated Glass

Gradiant Colors

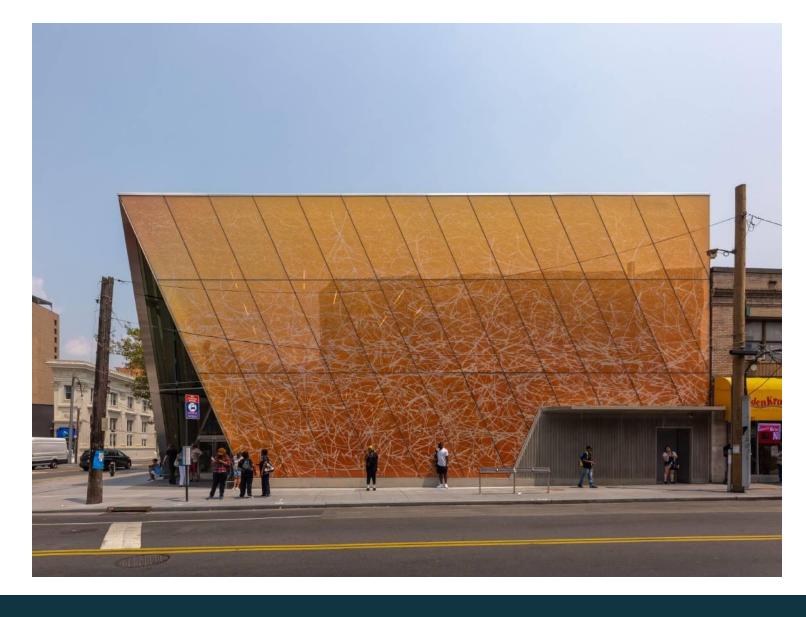
High Resolution Design Work

None Alike



Seamless Angular Formation

Strong
Architectural
Presence







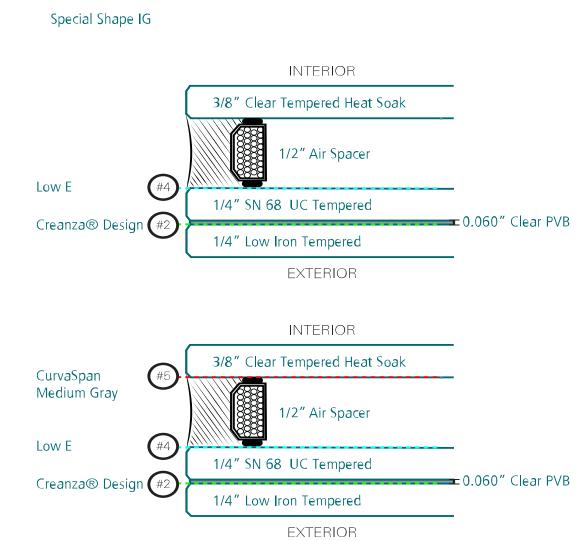
144 Parallelogram IGU's

144 Different Digital Printed Designs

Some Exceeding 5.00m (196")

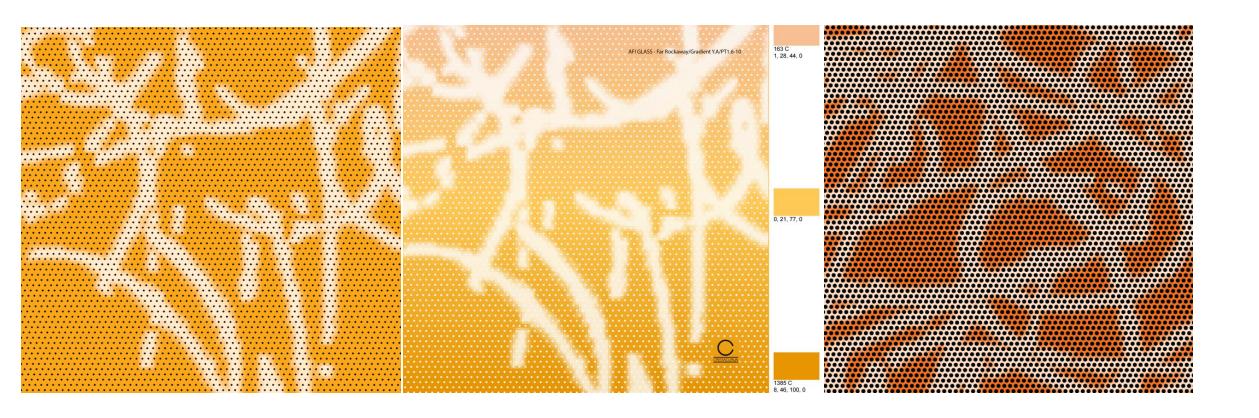


Insulated
Glass Unit
Configurations

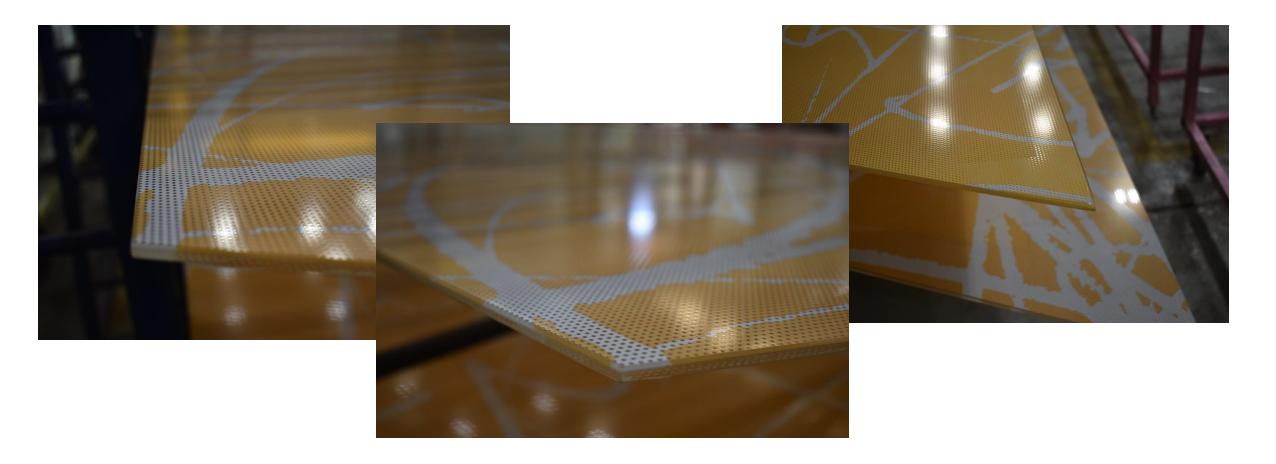




The printed patterns were not only different amongst themselves, but they were also very unique. The design had a gradient that went from one specific color hue to another, along with a special linear design printed over these colors. The color matching process was very challenging for the fabricator as the desired color scheme included various yellow and orange hues.





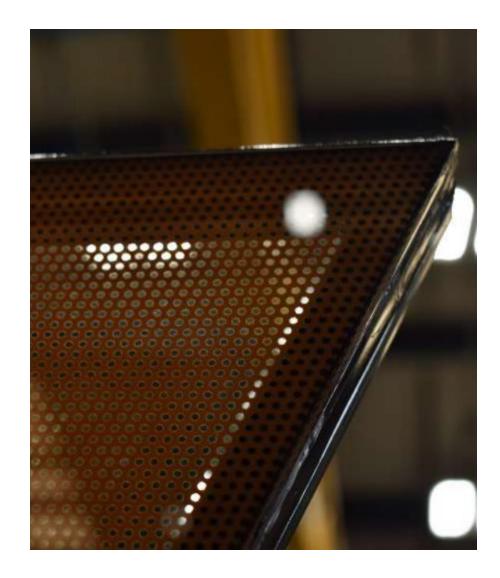


Ceramic Inks

Complex Color Formulation Process

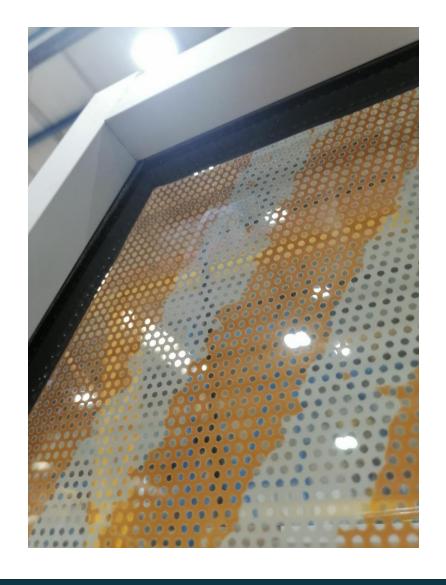
Achieved Architects Vision





Scale Modeling

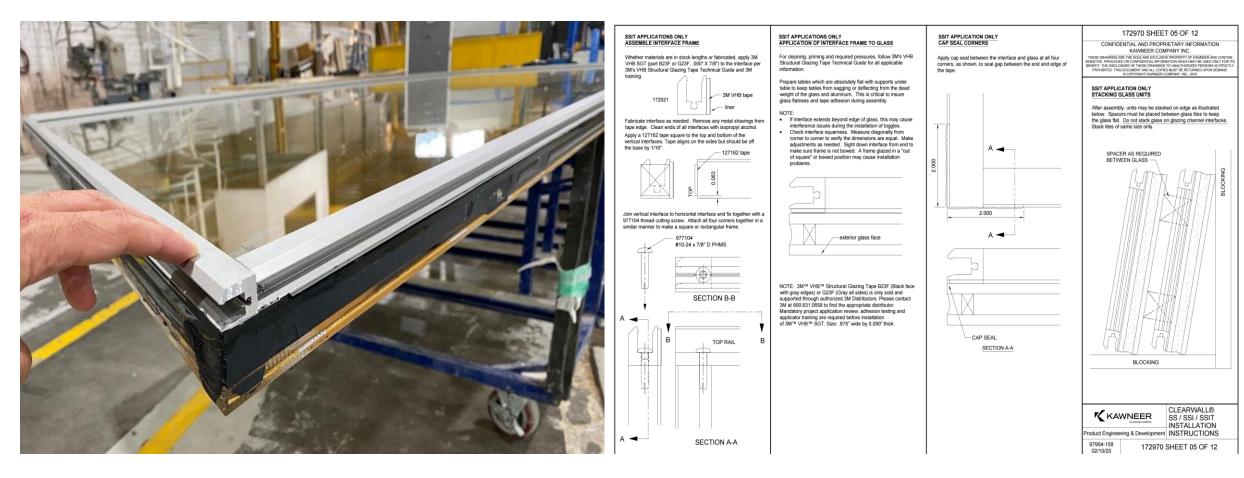
Full-Size Mockups





Visual Inspections During Fabrication



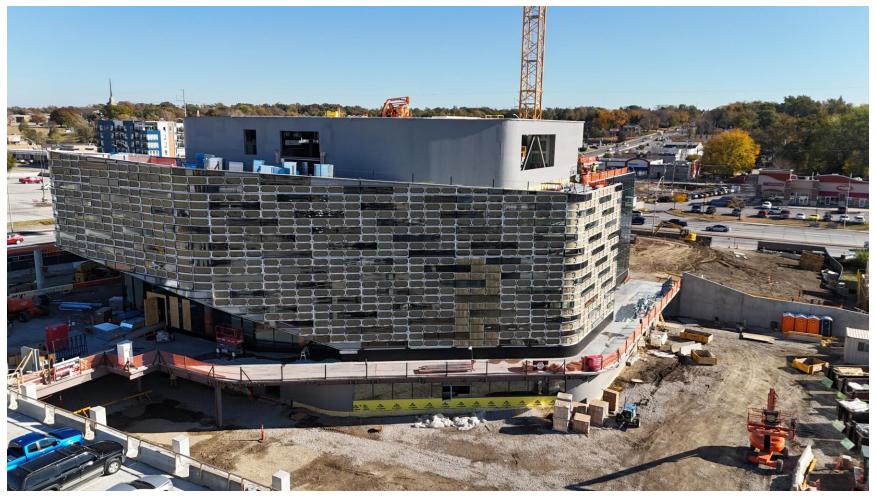


Turnkey System

Metal Channel Application







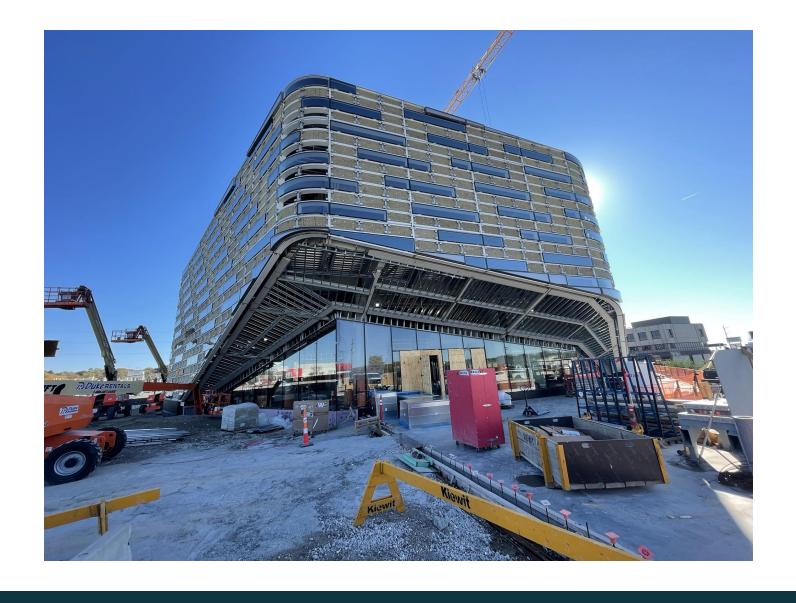
Currently Under Construction



Triple-Glazed

Demanding
Energy
Performance
specification

Oversized,
Flat and Curved
Combination

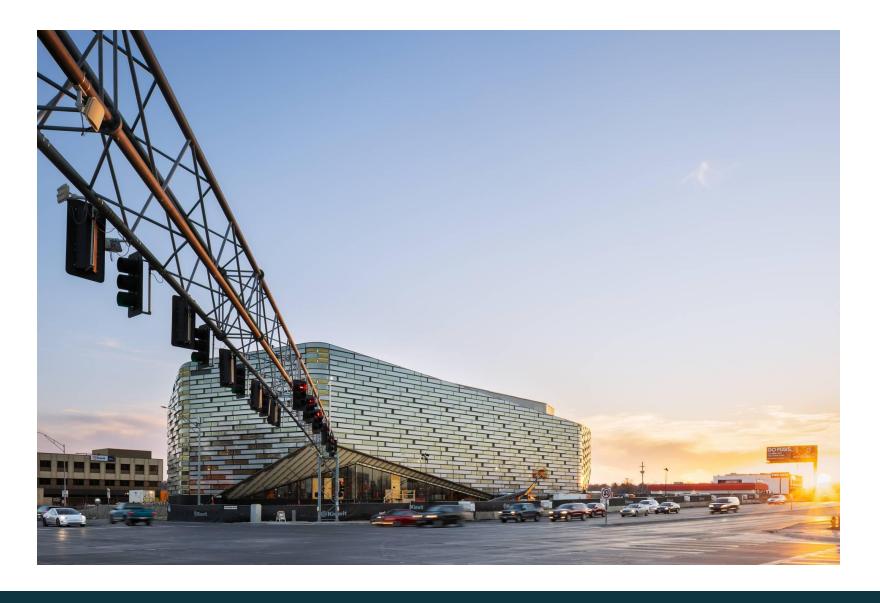




Luminous

Exterior

Presence





Natural Light Filled Interiors

Thermal Comfort

Glare Control





Insulated Glass
Unit
Configurations

Different Low-E Glass Types Flat & Curved

1/4" Low Iron Heat Strengthened

1/2" Air Space

1/4" Low Iron Heat Strengthened

1/2" Air Space

1/2" Air Space

1/4" SN 68 UC Tempered

EXTERIOR

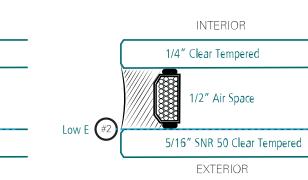
INTERIOR

1/4" Low Iron Tempered

1/2" Air Space

5/16" SN 68 UC Tempered

EXTERIOR



1/4" Low Iron Heat Strengthened

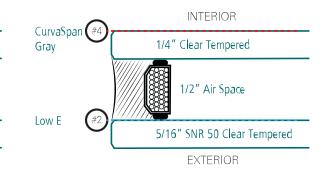
1/2" Air Space

1/4" Low Iron Heat Strengthened

1/2" Air Space

1/4" SN 68 Crystal Gray Tempered

EXTERIOR





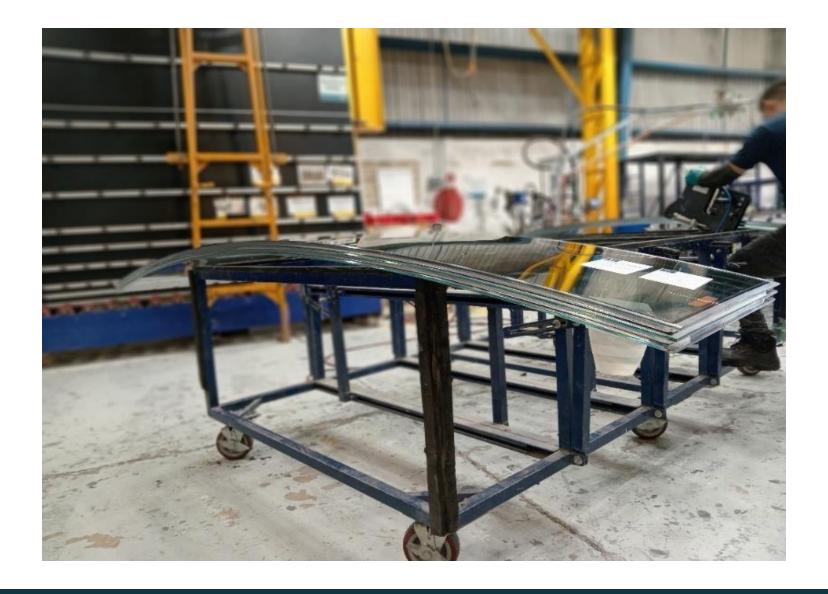
Low E (#2

Scope:

623 Curved & Flat Triple IGUs

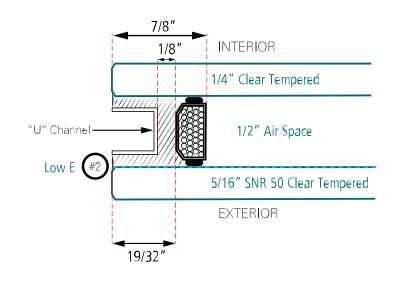
392 Regular Double IGUs

910 Curved and Flat Monolithic Glass



Turnkey System

Embedded U-Channels









Preserving the Past

Shaping the Future with Glass-Clad Libraries

Conclusions:

- Case Studies represent excellent examples of innovation within New-Day Library Architecture
- Public library designs now incorporate the functionality and aesthetic characteristics of glass cladding facades
- Collaborative efforts between the architectural teams, contractors, glazing installers, and the glass fabricator are paramount to cultivating these building projects



Thank you

