



CRAFTED WITH PASSION. BUILT TO PERFORM.

650 First Avenue – New York, NY

Historic Major Renovation and New Construction
Commercial to Residential Conversion



11,000 sq. ft. custom window wall including operable window panels and terrace doors; 238 architectural windows



Project Highlights

Located at 650 First Avenue on Manhattan's east side, the historic brick building from 1894 has been completely renovated and converted from a commercial property to a residential one. Crystal provided new architectural windows for the existing building and a stunning custom curved glass window wall system for the vertical expansion atop the building. The resulting residential building offers 111 luxury apartments, a fitness center, on-site lounges, a furnished roof deck, and 24-hour lobby concierge.

With minimal 2-¼" sightlines, the Crystal window wall system offers fabulous floor-to-ceiling views from the inside, fantastic aesthetics for the façade exterior, and truly replicates the look and function of curtain wall. The unitized window panels for the 4-story vertical expansion were approximately 80-90" in width with heights up to 120" (10 feet), depending on the floor, with custom designed curved glass sections at the corners. The Crystal Series W50i window wall system for this Manhattan project incorporated a floor slab bypass option, operable in-swing casements (with limit opening devices) and terrace doors, as well as fixed vision and spandrel panels. The Series 9200 architectural windows on the original portion of the building perfectly complement the historic brick façade, offering residents effortless operation and a consistently comfortable interior environment.



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Project Partners

Developer/General Contractor:

First and River, LLC, Lake Success, NY
(part of the Lalezarian Properties organization)

Architect: Ismael Leyva Architects, New York, NY

Fenestration Installer: Façade Improvement, Brooklyn, NY



Product	Rating	U-Value	Sound Attenuation
Series W50i Window Wall System	AW-PG55	As low as 0.215	OITC: 26-37 STC: 32-43
Series 9200 Fixed and Casement Windows	AW-PG100	As low as 0.23	OITC: 25-35

Products and Services

Series W50i Window Wall System

- Over 11,000 sq. ft. glass façade
- Curved glass panels in select locations
- 5" frame depth
- Polyamide strut thermal break
- Minimal 2-1/4" sightlines
- Expansive openings: 80-90" wide by 120" high
- Optional slab bypass
- Triple gasket male/female joints
- Inswing casements, fixed vision and spandrel panels and terrace doors
- Installs safely and swiftly from the interior

Series 9200 Architectural Windows

- Inswing casement and fixed styles
- 3-1/4" jamb depth
- Polyamide strut thermal break
- Zero sightline sash
- Concealed heavy-duty hinges
- Triple gasket seals
- Optional opening limit devices

Insulated Glass Units

- Window wall: WHTB dual-pane tempered low-E SDF178 glass, 1-1/4" with argon gas
- Slab bypass panels: 1/4" tempered monolithic spandrel glass with Eisengrau Grey back paint
- Bird-friendly glass with white frit up through 6th floor

Finish and Accessories

- AAMA 2604 powder coat two-tone finish, Charcoal Grey exterior and white interior
- Receptors, subsills, F-clips, and anchor plates
- Operating windows include opening limit devices



Contact Crystal at 800-472-9988 or www.crystalwindows.com today and learn how we can transform your next project into a beautiful built reality.