

## 465 North Park Tower in Chicago Contemporary, curvy curtainwall creates sustainable, luxury living

Enhancing the Chicago skyline and the Streeterville neighborhood, 465 North Park Apartment Tower rises 48 stories atop a four-story podium. Capped with an illuminated crown, the residential tower encompasses 588,000 square feet offering 444 luxury rental units, two amenity levels, and 11,650 square feet of retail/commercial space. The property's tenants enjoy comfortable interiors, spacious floorplans and floor-to-ceiling window views of the city, river and Lake Michigan.

To create this new, modern, architectural icon, developer Jupiter Realty Company said it "challenged a team of inspired designers and proven advisors to create a place that's special. A place that makes its residents feel special. The result can be seen in every detail. The sensuous curve of our glass curtainwall – inspired by aspen leaves – maximizes views from every residence. Inside, our gracious spiral staircase – designed to evoke a nautilus shell – creates a warm and welcoming lobby."



photo credit © Pappageorge Haymes Partners

Designed by Pappageorge Haymes Partners, the exterior is comprised of several EFCO products. EFCO relied on a combination of Technoform's polyamide thermal barrier and plastic hybrid stainless steel (PHSS) warm edge spacer to meet the project's specified aesthetics, thermal performance, durability and sustainability. The property is pursuing Gold certification through the U.S. Green Building Council's LEED® rating system.

For the building's first and second floor lobby and main entrance, EFCO provided nearly 12,000 square feet of 5600 curtain wall. The above-ground parking garage was enclosed with approximately 9,000 square feet of EFCO's 8750 unitized curtain wall. More than 5,000 windows and 200 doors were installed using EFCO's 450X and OG45 window wall, and T450-I Terrastile doors on the tower balconies and D300 storefront doors on the entries.

Pete Dyer, EFCO's regional sales manager, explained, "The project has various floor heights from the podium, to the parking garage, to the main tower and amenity floors. Using the EFCO Series 5600, 8750 and 450X products allowed for a seamless transition of systems from one floor to the next without changing the architects' design intent, while maintaining the project's specified thermal efficiencies."



photo credit PDET photography

EFCO Corporation has been a Technoform customer since 2006. This long-time partnership can be attributed, in part, to Technoform's focus on customer service, solutions and support. "Our goal always is to listen to our customers and provide sustainable solutions that improve their products," explained Technoform's Bill Blazek.

"Technoform's durable, warm edge spacers and thermal barrier strips allow our products to provide outstanding thermal performance without sacrificing structural integrity," said Josh Wignall, EFCO's director of marketing. "For



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Josh Wignall, EFCO Corporation



example, our 450X windows use both Technoform’s thermal break and thermal spacer to offer industry-leading measured performance as high as 75 for condensation resistance factor (CRF) and a U-Factor as low as 0.24 btu/hr.ft<sup>2</sup>.F°.”

In addition to reducing condensation and improving thermal performance, EFCO’s 8750 curtainwall with Technoform’s components has been tested to achieve a Sound Transmission Class (STC) rating of 30 or higher, contributing to the acoustic comfort of the residents. Reducing unwanted solar heat gain, while maximizing natural light, EFCO pre-glazed insulating glass containing Guardian SunGuard® AG 43 into the aluminum framing material under quality-controlled facility conditions.

Beyond performance, Technoform’s PHSS warm edge spacer and polyamide thermal barrier also contributed to the project’s appearance. Specified in gray, the spacer’s color blended with the gray-toned glass and finished aluminum. The thermal barrier also made it more economical to use dual finishing techniques. The glazing systems’ aluminum framing has different finishes on the interior and exterior: A mica coating in a “Silver Burst” color was applied

on the exterior and Class 1 clear was anodized on the interior.

The finishes enhance both the aluminum’s aesthetic and its durability. The aluminum also contributed to the project’s sustainability goals. Dyer noted, “The aluminum billet for EFCO products are sourced from within one mile of our manufacturing facility, and all aluminum used by EFCO includes pre- and post-recycled content.”

The finished, unitized and pre-glazed curtainwall, window wall and entrance systems were shipped to Chicago-based Blue Sky, LLC for on-site installation under Power Construction’s supervision. EFCO worked closely with Power Construction and Pappageorge Haymes to keep the project on schedule and within budget.

Construction began in the summer of 2016 and was completed by the summer of 2018 as scheduled and within budget.

**Project:** 465 North Park

**Location:** 465 North Park Drive, Chicago, Illinois 60611

**Developer:** Jupiter Realty Company; Chicago

**Architect:** Pappageorge Haymes Partners; Chicago

**Facade consultant:** Hollingsworth Architects LLC; Chicago

**General contractor:** Power Construction Co. LLC; Chicago

**Facade - installing contractor:** Blue Sky LLC; Libertyville, Illinois

**Facade - glazing systems’ manufacturer:** EFCO Corporation

**Facade - glazing systems’ glass manufacturer:** Guardian Glass

**Product:** Technoform’s thermal barrier strip and PHSS spacer 15/32”



## TECHNOFORM

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