

Bicycle Garage: Curtain Wall Mullions Engineering

Millennium Park
Chicago, Illinois

Client: Steelite Systems, Los Angeles, CA
Architect: Muller & Muller, Chicago, IL
Contractor: F.H. Paschen, Chicago, IL

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Range of Services

- Engineering curtainwall mullion and rafter design
- Computer analysis; report; coordination

Project Overview

This project was part of Chicago's Millennium Park in the Loop. It was built for the Chicago Department of Transportation, and provides secure bicycle parking, bicycle repair, lockers, showers and other facilities for bicycle commuters to the downtown area. The facility is multi-level with a total of 12,000 square feet. The glass-enclosed atrium links all the levels and provides the street presence. The envelope is a glass curtain wall system designed by Steelite and Wickersheimer Engineers engineered the mullion system to withstand prescribed snow, wind and the dead loads of the rooftop photovoltaic solar collectors. The mullions are all steel tubes and connections to the building's steel frame are bolted.

Image 1 views the roof mullion system supported off the roof purlins and supporting the photovoltaic cells. Image 2 shows the vertical mullion system and its attachment to the steel structural wide flange system. The building has received several design awards.



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