

# **CUSTOM CURTAIN WALL SYSTEM DESIGN**

by

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## **THE BASICS**

Performance Criteria

Commonly Used Types of Glazing Systems

Best Practices

- Maintaining System Continuity (Water, Air/Vapor, Thermal)
- Accommodating Movement

Design Team Coordination

- Structural Engineer
- Mechanical Engineer
- Architectural and Interior Design

## **CASE STUDY**

Project Description (Mixed-Use High-Rise)

- Architectural Design Intent
- Project Constraints
- Performance Objectives
- Initial Design Decisions

Custom Curtain Wall System

- Design Loads
- Custom Mullion
- Connection Sizing
- Building Movements
- Integrating with the Building Structure

Detailing Around Challenges

- Floor to Ceiling Glazing
- Thermal Performance- Condensation Check

Incorporating Exterior Trim

Horizontal

Vertical

Coordinating with a Building Maintenance Unit

Interfacing with PTACS and Louvers

Integrating Doors

## **ENSURING QUALITY**

Preconstruction

Visual Mockups

Performance Mockups

On-site Field Testing