

“The remarkable skill level of our IUPAT glaziers allowed them to quickly master this innovative new system and its wiring.”

*Michelle Baker, Project Manager
American Architectural Glass, Inc.*

Location: Delaware, Ohio

Completed: 2019

Architect: SHP

Construction Manager: Elford Construction

Curtain Wall Manufacturer: Graham Architectural Products

Storefront & Door Manufacturer: YKK AP America

Glass Manufacturer: View Dynamic Glass

Scope of Work: Install dynamic glass for 13,000 square feet of curtain wall and 1,000 of the 7,000 square feet of storefront framing. Wire each glass panel individually to a control panel attached to roof sensors and to an accessible area within the building, and hide all wiring. Install 4,000 square feet of fiberglass sandwich panels.

DELAWARE AREA CAREER CENTER

Installing and individually wiring 15,000 square feet of glass panels so smart, each one senses and adapts to the weather.

Vibrant innovation defines the Delaware Area Career Center. Featuring dynamic glass, each window panel is individually wired with intelligent controls that automatically adjust for optimal daylight, energy savings and comfort. It's a next-generation masterpiece where education not only lives; it thrives.

American Architectural Glass, Inc. (AAG) was selected to install and individually wire dynamic glass in 13,000 square feet of curtain wall and approximately 1,000 of the 7,000 square feet of storefront framing. They also installed 4,000 square feet of fiberglass sandwich panels.



The Challenge

This was one of the largest installations ever for this type of glass — and AAG glaziers had never done this type of wiring before. The owner wanted every

component to be accessible, yet hidden, and controlled automatically and manually. This meant the designated controller for each piece of glass and all wiring had to be hidden and attached to both the roof sensor and an accessible place within the building. Adding to the difficulty, a long construction hold turned this into a rush project.

The Solution

AAG worked closely with the glass manufacturer, in pre-planning and on the job site, to make sure every aspect of the dynamic glass system worked perfectly. Along with mastering the highly complex wiring, AAG glaziers devised a curtain wall framing system to both hide the

controllers and make them accessible. The control panels were wired to the roof sensor and, for manual access, snaked into closets and hidden. Up to 18 glaziers worked on the project simultaneously to complete it on time, making the near-impossible a reality.

The IUPAT Industry Partner Advantage

“I don't think we could have taken on this project if our glaziers and foreman weren't part of the IUPAT,” said Michelle Baker, AAG Project Manager. “Their ability to quickly master a high-tech dynamic glass system and its wiring is testimony to their training and high skill level.”