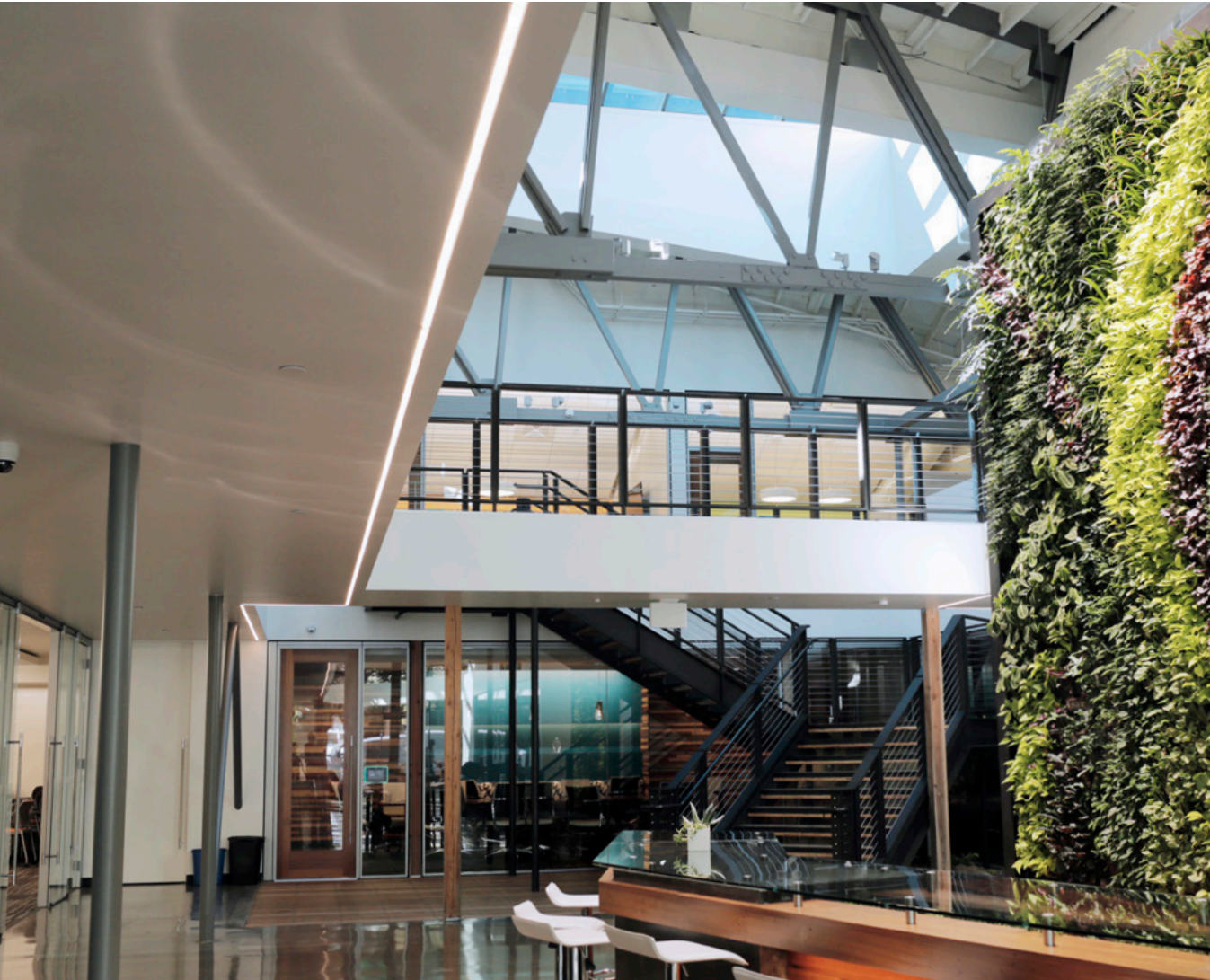


View Dynamic Glass controls light and heat at DPR Construction in San Francisco's first net-zero energy office building



Key element in achieving net-zero energy consumption

Naturally lit working environment without excessive heat or glare

A showcase for sustainable buildings

DPR Construction Headquarters

Architect: FME Architecture + Design
General contractor: DPR Construction
Glazier: Colliers Warehouse

DPR Construction Headquarters, San Francisco, CA

DPR Construction wanted its new building to be the greenest in the city, as well as serve as a showcase for their customers. They chose View Dynamic Glass to deliver comfort and solar control while saving energy.

Objectives DPR Construction is a national builder specializing in complex sustainability projects. Their vision was to design San Francisco's first net-zero energy office and use it to demonstrate the functionality and benefits of sustainable technologies. DPR's customers include leading companies whose mission is to change the world by inventing new technologies, making new discoveries and manufacturing new medicines.

It was important for DPR that their new office be a living endorsement of these technologies. By making the new office a living embodiment of DPR's commitment to innovative building solutions, such as electrochromic glass, the company encourages its customers to embrace these same energy-efficient technologies for themselves. "They can see, touch and feel the technology we are recommending for their projects," said Ted Van Der Linden, Director of Sustainability at DPR Construction.

Solution DPR faced challenges in controlling light and temperature in their new space, which features a 720 square foot skylight. Not only did they need to reduce the heat entering the building, they also had major glare problems

Team

Architect:
FME Architecture + Design

General contractor:
DPR Construction

Glazier:
Colliers Warehouse

Glazing system

Project type:
Retrofit

System type:
Skylight

Make and model:
Royalite Ridge Skylight

IGU makeup

Overall thickness:
1"

Outboard lite:
6mm tempered

Spacer:
½"

Inboard lite:
6mm tempered laminate



affecting workstations on the building's second floor. View Dynamic Glass was the chosen technology to control glare and minimize solar heat gain while still letting in the natural light people prefer.

Outcome The building had been using an average of 10,500 kilowatt hours per month, but thanks to View Dynamic Glass and other innovative technologies, DPR dramatically reduced its energy costs, from about \$1,800 a month down to only about \$20 per month. "View Dynamic Glass is one of the critical elements modulating the amount of light entering the space and controlling the heat gain," says Van Der Linden.

Payoffs

- 99% reduction in monthly energy costs
- On track to being San Francisco's first net-zero energy office
- Reduction and control over heat and glare
- Increased employee comfort