

Project:

DPR Construction

Building Type: Office



Renovating a current building into a Net-Zero office space for its Phoenix team was the objective of DPR Construction, a forward-thinking national commercial general contractor and construction manager specializing in technically complex and sustainable projects. Incorporating its innovative mindset and goal for all employees to work in a sustainable, healthy environment, the company created a living laboratory for living and working.

Objective

To build a first-of-its-kind, revitalized building that serves as a statewide example of how sustainable design can be integrated into an efficient, effective, and environmentally responsible office space. Rising from the remains of a circa-1972 boutique, this newly reconstructed 16,533 sq ft building incorporates innovative features to improve energy efficiency. Holistically designed with environment and comfort of its employees in mind, the new office integrates alternative ways to light the space; the expansive walls of windows and 82 strategically positioned Solatube® units nearly eliminate the need for artificial daytime lighting 365 days a year.



Products Used

- 21 Solatube SolaMaster® Series 750 DS-C (21 in. / 530 mm) with Prismatic Diffusers
- 24 Solatube SolaMaster Series 750 DS-O (21 in. / 530 mm) with Prismatic Diffusers
- 35 Solatube Brighten Up® Series 290 DS (10 in. / 250 mm) with Vusion Diffusers
- 2 Solatube Brighten Up Series 160 DS (10 in. / 250 mm) with Vusion Diffusers

Solution

DPR Construction daylit the building with 82 Solatube units, strategically positioned throughout the premises. Studies were conducted to determine the appropriate height, location and size of the Solatube units, and to ensure that daylight was evenly distributed throughout the space. The Solatube Daylighting Systems directly helped the building attain Net-Zero Energy Building (NZEB) certification and LEED®-NC Platinum certification.

Testimonial

“Through the use of Solatube Daylighting Systems, we were able to downsize the photovoltaic system by eliminating the energy required for artificial lighting. They played a critical role in reducing energy loads and achieving Net-Zero energy consumption.”

Dave Elrod, LEED AP
Regional Manager
DPR Construction

