

100 HOWE BUILDING

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Application range

Office

Type

Reference

The master plan for this project included the construction of a 376,000 square-foot building to house 2,200 employees within an existing office development. The design goals included LEED certification, flexibility for employees and functional spaces. The new facility required raised access flooring and UFAD in all office spaces to provide flexibility in workstation arrangements.

The design team considered several options, including UFAD with radiant cooled ceilings and UFAD with passive chilled beams. After a lengthy evaluation, TROX passive beams type TCB-RB and TROX FB-VAV series floor terminals were selected to meet the requirements of the project.

Energy usage data for the 100 Howe Building was collected for more than a year and showed a 41% reduction in electrical energy consumption and a 24% reduction in natural gas consumption compared to a similar-sized building on the same campus. In addition, the new 375,000 square-foot building required no additional maintenance staff despite a 25% increase in the management firm's portfolio.

As a result of the buildings energy efficient design, the building was named a 2010 ASHRAE (American Society of Heating, Refrigeration and Air-Conditioning Engineers) Technology Award Winner in the Commercial Buildings, New category.

The passive beam application is thought to be the largest of its kind in the central United States and the largest hybrid UFAD/chilled beam applications in the country.

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