

UNDERFLOOR SERVICE DISTRIBUTION

by Tate Access Floors

Des Moines Public Library
Des Moines, IA

HIGHER EDUCATION PROJECT

110,000 gross sq ft
80,000 sq ft access floor

PRODUCTS USED:

ConCore 1000
Underfloor Air System
Underfloor wire & cable

Recipient of the Central States Region(CSR) Award from the American Institute of Architecture



TATE AUTHORIZED DEALER

Allied Construction
Des Moines, IA

ARCHITECTURAL FIRM

David Chipperfield
London, England
Herbert Lewis Kruse Blunck
Des Moines, IA

GENERAL CONTRACTOR

The Weitz Company
Des Moines, IA

ENGINEERING FIRM

Proctor Mechanical Corp.
Des Moines, IA

Subject

DES MOINES PUBLIC LIBRARY

The new \$32.3 million dollar Des Moines Public Library was designed by David Chipperfield, London, in partnership with the architect of record, Herbert Lewis Kruse Blunck, Des Moines. It's big at 110,000 square feet, almost triple the size of the old 1903 library, with a 55,000-square-foot green roof planted with variegated sedum that will weather with the seasons. Primary concerns for this library was comfort for its occupants and flexibility if the need to rearrange arose. Tate Access Floors was able to meet these challenges with its underfloor service distribution system.

On the outside, the building has a copper glass skin that kicks out 87 percent of the ultraviolet rays and makes the building transparent. On the inside, library users will be thrilled with the expansive shelves of books, the addition of 50,000 brand new items, and the ease of accessibility to the library's special collections materials, as well as roomy reading spaces. The new library offers more than three times as many computers for public use, including a computer lab equipped with 29 computers! Supporting all of this is a raised access floor with underfloor service distribution. As a matter of fact, a special feature in the children's wing is the glass floor designed to show the inner workings of the 16 inch raised floor with its cables, wires, and ductwork providing heating, plumbing, electricity, and internet. Because the entire volume under the floor becomes a pressurized plenum, MIT units can be installed anywhere within the raised floor grid. When the layout changes, so can the location of any terminal. Control and power wiring are located under the floor, so they can be reconnected with the terminals via "Plug N Play" connectors. Easy access to wire and cable gives additional flexibility. With Tate's raised flooring and underfloor service distribution, the Des Moines Public Library can be reconfigured quickly and easily, without reconstruction or expensive outside labor, while providing a healthy, comfortable environment.

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