

# UNDERFLOOR SERVICE DISTRIBUTION

by Tate

SAP Americas Headquarters  
Newtown Square, PA  
2009

## OWNER OCCUPIED PROJECT

218,000 gross sq ft  
185,000 access floor sq ft

Products Used:  
CC1250  
Modular Wiring/Cabling  
Underfloor Air Distribution



*"We saw an UFAD system as the most efficient air distribution system in terms of sustainability, and we liked the fact that it offers temperature control to building occupants. In addition, both benefits contributed to LEED points."*

*Gustavo Rodriguez,  
FXFOWLE senior designer*

## TATE AUTHORIZED DEALER

ARI Products  
Mt. Laurel, NJ

## ARCHITECTURAL FIRM

FXFOWLE Architects  
New York, NY

## GENERAL CONTRACTOR

Gilbane Building Co.  
Philadelphia, PA

## ENGINEERING FIRM

WSO Flack + Kurtz  
New York, NY

LEED Platinum Certified



## SAP Americas Headquarters

When the time came for SAP, an innovative and sustainable global provider of business software and technology, to expand their American Headquarters in Newtown Square, PA, they knew that they wanted to take a pioneering approach to their energy management. Their headquarters were expanded with sustainability as a main priority. SAP wanted to build an innovative facility which would provide their employees the health benefits that sustainable design brings. What resulted was a USGBC LEED® Platinum building.

Brain Barrett, project manager for SAP America Inc, notes that "SAP, through its core strategies and product offering, promotes both innovation and sustainability to our customers, so it was important that this building model those same strategies." This new award-winning building houses all the best aspects of sustainable design by combining geothermal wells, ice storage, under floor air distribution, radiant floors and a triple-gaze curtain wall to deliver and optimize the building's heating, ventilation and air-conditioning (HVAC) system.

Cooling for the building's office space is supplied by a central chiller plant that produces and stores ice during the overnight hours when energy demands and electric rates are lowest. The cool air that results from this system and warm air in winter is distributed throughout the building using a Tate® raised access floor system, which creates a sealed underfloor plenum to distribute air as well as wire and cabling. Clean, flexible and accessible, the Tate underfloor air distribution (UFAD) also contributes to LEED points by allowing employees access to personal comfort controls. Barrett also reports that the building also features a lower floor to ceiling height, thanks in large part to the raised floor. "We can run all the wiring, cabling and air under the floor, eliminating the need for ductwork overhead. As a result, we saved significant dollars in steel and other construction materials, because our overall building height is shorter.

Since opening in 2009, Barrett has noted that "the existing building, which is virtually all glass, much like the new building, is using 2.25 kilowatt per square feet, and the new building is using just 1.22 kilowatts." Through dedication to "green" building principles, the headquarters for SAP is a shining example of the benefits of green practices and design. Tate is honored to have assisted this project in achieving their sustainability goals.

**Tate**®