

# UNDERFLOOR SERVICE DISTRIBUTION

by Tate Access Floors

Smurfit-Stone Container Corporation  
Creve Coeur, MO

## DATA CENTER PROJECT

15,000 access floor sq. ft.

### PRODUCTS USED:

Concore 2000  
24" FFH  
Bolted Stringer Understructure  
Underfloor air  
Modular Power, Voice and Data



## Subject

SMURFIT-STONE CONTAINER CORPORATION  
DATA CENTER

When Smurfit-Stone Container Corporation began consolidating offices around the St Louis area they also decided to move their data center from Alton, Ill. to their new headquarters at in Creve Coeur, MO. where they occupy seven of the 10 floors. The move allowed the new center to expand from 7,000 to 15,000 square feet. The initial move-in only required about 7,500 square feet, but they wanted to have additional space that could be ready to expand in the future. The facility was also equipped with a state of the art NOC enabling IT to monitor everything from server usage to room temperatures from a stationary desk. There is very little reason to be on the data center floor among the racks.

### Tate Access Floors for Data Centers:

A raised floor environment offers the flexibility for expansion Smurfit-Stone was seeking. By incorporating Tate ConCore 2000 panels on a 24" bolted stringer system the Smurfit-Stone facility has the rolling load capacity to handle the move in of new equipment during future expansion. Furthermore, there is plenty of underfloor capacity to handle the additional cooling requirements as equipment is added.

Design features such as a hot aisle/cold aisle configuration, the use of blanking panels to fill open spaces in racks, and properly sealing all floor cutouts are just a few of the techniques used to improve cooling efficiency. The flexibility of placing or reconfiguring airflow panels as the facility grows and heat loads change will help keep the configuration in tact and equipment cool. "With built in redundancy for virtually every system including multiple power feeds and back-up CRAC units, this facility is capable of operating well into the future." said Gary Hickerson, IT Manager, Smurfit-Stone.

*"We were looking to attain cooling capacity of 75 watts per square foot. By using underfloor air distribution with proper data center design we easily attained our goal." Gary Hickerson, IT Manager, Smurfit-Stone.*

### TATE AUTHORIZED DEALER

Bick Group  
St. Louis, MO

### ARCHITECTURAL FIRM

Bick Group  
St. Louis, MO

### GENERAL CONTRACTOR

Bick Group  
St. Louis, MO

### ENGINEERING FIRM

Bick Group  
St. Louis, MO

**Tate**<sup>®</sup>