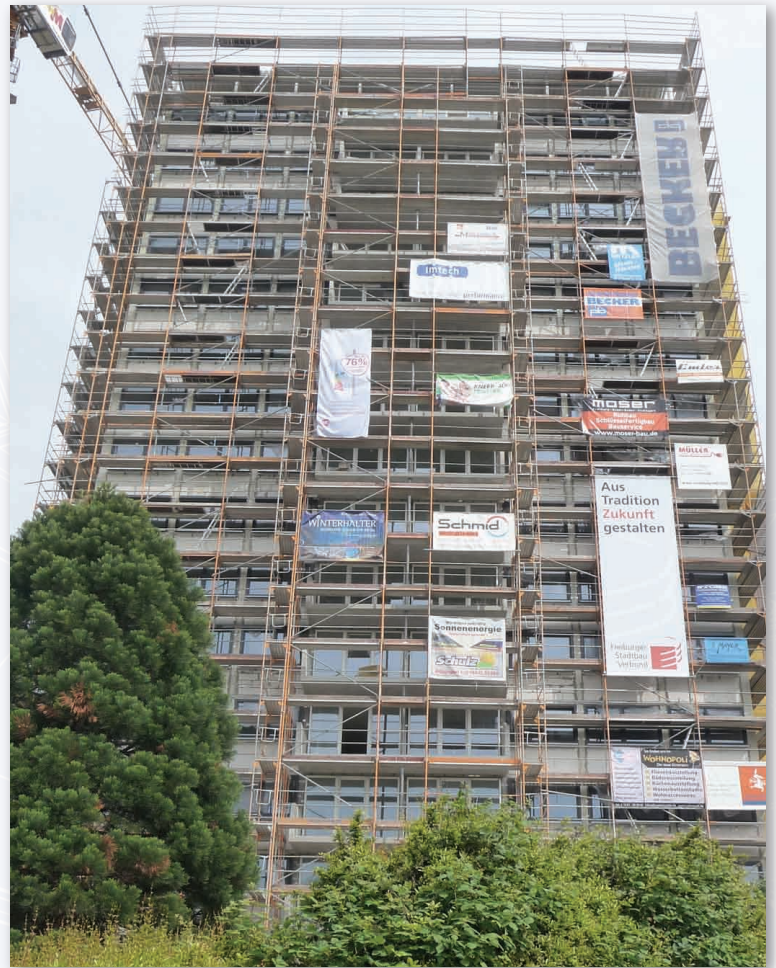


# Aerogel Insulation Stops Thermal Bridging in Apartment Windows

Highly effective thermal performance in tight space

## CASE STUDY



### DETAILS

Location: Freiburg, Germany  
Fabrication Partner: Stadur

### CHALLENGES

- Provide passive insulation to prevent thermal bridging in apartment roller blind boxes.

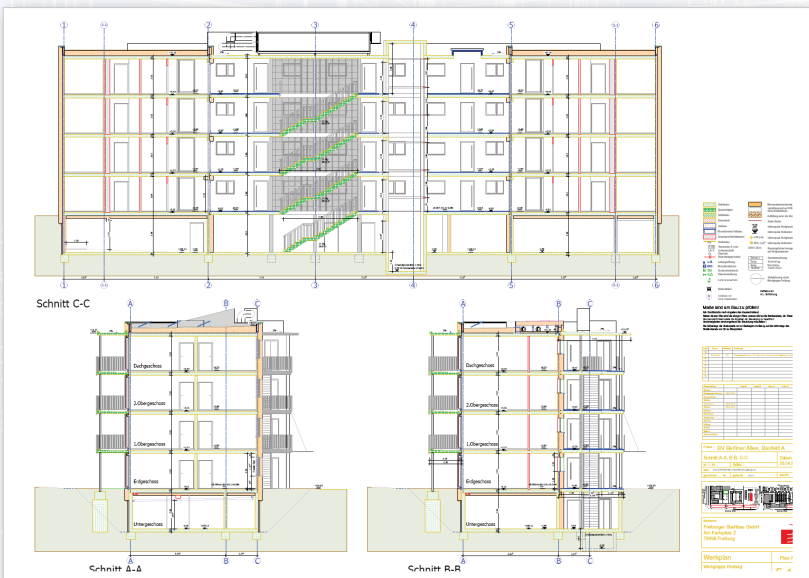
### SOLUTIONS

- Five layers of **Spaceloft®** (10 mm) aerogel insulation were installed behind the roller blind box.

### BENEFITS

- Spaceloft was the only insulation that could achieve the needed thermal performance in the thin space behind the roller blind box.
- Other insulations applied in same thickness could not as effectively prevent thermal bridging, due to Spaceloft's industry-leading thermal conductivity (lowest of any material).

- Cladding →
- Mineral Wool  
(200 mm passive standard) →
- Spaceloft  
(50 mm passive standard) →
- Roller Blind Box →
- Window →



Next two apartment blocks  
scheduled to be built in 2011