

## PROJECT PROFILE

April, 2011

Client: University of South Carolina, Patterson Hall

- General Contractor: Shields Sexton
- Architect: Gavin Design Group
- End User: Cabarras Glass Co.
- Distributor: Fastco of Charlotte



## Campus job has tight, inflexible schedule

### A complete makeover on a prominent University dorm, in just 14 months is a tall order

COLUMBIA, SC — When the 2010 school year ended last May, Patterson Hall on the campus of the University of South Carolina, Columbia, SC, closed its doors to get ready for a major renovation. A project that includes converting rooms to suite-style units, all new furnishings and a completely redone lobby. Beyond the cosmetic changes are a series of structural refinements including seismic reinforcement, sprinklers for fire suppression and an upgraded fire detection system. With the project scheduled for completion by mid-summer 2011, the school is targeting Silver LEED certification for the new residence hall.

With an aggressive 14-month schedule, there can be no room for delays or inefficient operations. The existing building is being gutted and retrofitted with four 10-story towers—one on each of its corners.

### Powers Fasteners provides an edge

Among the most important of the renovations is the installation of new windows and curtain wall systems. Each has to meet high load values. Cabarras Glass, in the initial stages, was concerned that it may have to use adhesive anchors because of the load requirements and edge distance requirements of the installation — adhesive anchors could have added as much as three times the cost in labor alone and slowed the process to a point where completing on the tight schedule could have been in doubt.

Working with the local Powers representatives, Cabarras Glass was able to obtain a nondisplacement-type anchor to meet the edge distance requirements. And, Powers provided technical support, including its unique PDA2 computer software, to demonstrate to the site's structural engineers that the anchors would also satisfy the load requirements.

More than 22,000 blue-tipped Wedge-Bolt+ anchors went into the project in two basic sizes: 1/4 x 3-inch and 3/8 x 3-inch. The Wedge-Bolt+ is a one piece, heavy duty anchor with a hex head. It is easy to install and can be readily removed. Designed for consistent and reliable performance in cracked or uncracked concrete, it is IBC listed — ICC-ES ESR-2526, Category 1.

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