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APPLICATION NOTES

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Increase worker safety, build on the ground

Oklahoma gets first LEED-certified dormitory

Panelized Delivery Method™ (PDM) allows for expedited delivery and project completion. Workers are not subject to dangerous heights, increasing construction speed while decreasing insurance premiums.



Southern Nazarene University in Bethany, Oklahoma built a new student dormitory under a tight construction schedule. Slated to open before the start of the second semester, a quicker build time better suited this project. Therefore, the fabricator, Naylor Construction elected to convert the building from a precast plank system to a panelized steel-framed structure to save time and reduce material costs. The fabricator opted to use Versa-Floor™ because its Panelized Delivery Method™ (PDM) allows for expedited delivery, construction and increased worker safety.

Build on the ground, hoist to the sky

PDM offers the advantage of assembling floor panels on the ground. Not only does this increase safety, but it also reduces assembly time. Cranes hoist finished panels into position to attach to the steel structure. Additionally, there was a 40% reduction in insurance premiums—saving the customer on

overall project costs, since 75% of the panel assembly was performed on the ground.

Panelized steel-framed structure lightens load

The project required 100,000 sq. ft. of deck. With this in mind, the fabricator chose to use Deep-Dek® 4.5 composite made from 18-gauge steel and combined with 5-in. thick, 4,000 psi lightweight concrete. This concrete reduced foundation loads by 30%. All floor panels, most of which are up to 28 ft. long, were assembled and installed in 18 days. Note that MEP needs are handled by built-in chase-ways.

This four-story dormitory, which houses 290 students, was the third building in Oklahoma and first residence hall to achieve LEED certification. Better design, smarter delivery, and more efficient construction made this quick construction achievement possible.

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