



## **FOR IMMEDIATE RELEASE**

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When Jacobsen Construction poured the last load of concrete for The Regent at City Creek residential tower in mid-January, many wondered how those 20 floors of solid concrete had risen so quickly into the air. Truth be known, latest technology and amazing team work enabled the structure to rise in record time and with excellent quality.

When a high-rise residential tower rises into the sky at an average pace of a new floor every six days, something very different has been going on. According to Grant Thomas, City Creek's director of construction services, "This pace reached beyond what we had expected." An innovative jump form system and careful coordination closely aligned the 120 people working on the crews.

The walls of the 58 by 27-foot core that enclose the elevators and provide shear protection for the 260 ft. tall building each took 130 yards of concrete per floor. By using an automated self-climbing forming unit, each floor required only three hours to pour.

"It was amazing to see the forming system in action," says Kevin Brown, Jacobsen project executive. "The forms would crawl up each story by themselves, receive the concrete then snap apart."

Besides the core, each floor required another 20 columns to meet the earthquake protection requirements for the structure. Tied together by re-bar floor to floor and running the full height of the structure, these pillars were individually formed and poured for each floor.

"The pillars and core support the 11,000 sq. ft. post-tensioned floor plates," according to Dan Turney, Jacobsen's project manager. "Each floor is eight inches thick and carries all the concrete embedments to enable the mechanical, electrical and plumbing systems to be added later." Each floor has at least 180 separate penetrations to make the systems work.

"It was like watching a sea of ants descend on each floor," says Turney of the manpower required on site. "While all had individual tasks to do, they just went about doing them well." Each day's activities were carefully scheduled to make sure workers were not running into each other.

Embedded in each floor are the cables that give the floors their strength and stability. Once a deck was poured, and the concrete began to harden, the post-tensioning cables were pulled tight. “When you build in a seismic zone like Salt Lake City, you have to be exacting in your construction standards,” Turney says.

Floor quality in a residential facility is measured by its degree of flatness and lack of visible seams. Here the project also got very high marks. To maximize floor height in the condominium units, both sides of the floors needed to be uniform and smooth. Ceiling finishes are to be applied directly to the concrete slab bottom.

“City Creek owners asked for a flat floor, and we came awfully close to super flat specs,” says Dan Henrie, Jacobsen concrete superintendent.

To support each deck pour, a series of smooth tables, supported by shoring jacks, carried the weight. Crews would place and move the tables three times each floor. “Concrete floors weigh about 100 lbs. per square foot, so each of the 40 inch tables required multiple story shoring jacks to support the weight. “Placing and moving the shoring was a demanding task. Great engineering and devoted crews made it happen,” says Henrie.

A steel cap will be placed on the facility as exterior wall panels climb the 20-story tower and will completely enclose it. The interior finishes will begin as soon as the wall panels are in place. Reservations for The Regent at City Creek are now being taken through the City Creek Living sales office (see [www.citycreekliving.com](http://www.citycreekliving.com) ). Completion is expected in mid-2011.

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