

Luxury Las Vegas Resort Rises Using Several Formwork Solutions to Conquer Complex Design

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When complete, the Circa Resort & Casino will be newest player in downtown Las Vegas on the Fremont Street Experience. Slated to debut in December of 2020, the new luxurious resort will have 777 rooms and suites to fill the 1.25 million-square-foot property. The entertainment and hospitality hub will include five restaurants, a two-level casino, a large sports book, as well as a rooftop deck and amphitheater with six swimming pools.

To build the large, complicated structure, created several challenges The project required two levels of DokaTruss tables. There are also two levels of reshoring, for 35 levels total. For levels 2-6, clear height requires DokaTruss to be supported on Super Props. Level 6 south slab is cantilevered out 1 ft. 4 in. Level 7 south slab is cantilevered out 11 ft. 7 in. And, levels 13-35 east slab come in 2 ft. 2 in. from previous level. To perform this, it was necessary to use approximately 20,500 sq. ft. of DokaTruss and infill per level. The clear heights ranged from 23 ft. to 8 ft. 10 in. Super Props with scaffold bracing for larger heights were used and standard truss legs were used for the typical heights.

To construct the vertical concrete, **Doka's** Super Climber SCP is being used in combination with Large-area formwork Top 50 for the concrete core. Super Climber allows the Top50 wall formwork to be suspended from an overhead superstructure and hydraulically lifted from level to level. This allows the core formwork to be independent of the tower crane so it can focus on on other jobsite activities with the overall goal of increasing productivity.

Construction on the Circa Resort and Casino is scheduled to be complete in November 2020 for a December opening.

Source: Doka