

# The Bristol

West Palm Beach, Florida



## STORIES BUILT



Located along Florida's Intracoastal Waterway and adjacent to the Royal Park Bridge, the design for The Bristol luxury waterfront condominium tower was inspired by the image of a yacht sailing along the water and its ensuing wake. An undulating floor-to-ceiling glass façade and deep curving balconies evoke images of waves on the water. The 25-story tower features 69 high-end condominium units, all with views of the water and served by private elevators. Building amenities include a two-level lobby, salon and card room, fitness center with spas, and a pool and sun deck.

The project officially broke ground May 2016, with Ceko Concrete providing full concrete frame services. The scope of work included supplying cranes and supplying and installing 46,000 cubic yards of concrete, 3,500 tons of reinforcing steel, 632,000 pounds of

post-tensioning cable and more than 10,000 embeds for the building's glass railing system. Ceko also provided design assistance during preconstruction, helping to design the 10,000-plus railing embeds to minimize conflicts with reinforcement in the tower's post-tensioned flat plate structural system.

The PT flat plate system is the most economical choice for multi-unit residential work and accommodates bay sizes up to 30 x 30 feet. The formwork systems used were Ceko's own Speed Deck for podium levels, trusses for typical floors and Efcu shoring towers for the tower's higher levels.

### CHALLENGES

The project required a high level of coordination among team members to ensure the thousands of glass and railing embeds met tight location tolerances. The Ceko team also tackled several additional challenges, including construction of a basement—unusual for Florida structures so close to the ocean water—and balconies protruding as much as 13 feet beyond, which necessitated thickening the perimeter slabs to 10 inches thick. The high-strength vertical concrete that was specified for the tower resulted in the pouring team using three different concrete mixes for slab pours (due to the need to puddle per ACI concrete design and placement requirements).

The tower was completed by Suffolk Construction in May 2020, with condominium unit prices starting at \$5 million.

### FAST STATS

**Project Owner:** Golub & Co.

**General Contractor:** Suffolk Construction

**Designer/Architect:** Solomon Cordwell Buenz (SBC)

**Structural Engineer:** CS Associates LLC

**Ceko Scope:** Full concrete frame including formwork, concrete & reinforcing materials, placement and cranes

**Ceko Project Manager:** Donna Tomaszewski

**Ceko Superintendent:** James Massey

**Date Completed:** January 2018