



## Flagstaff, Park City, Utah

The Flagstaff core project consists of 46 pieces of 12-inch thick box cores stacked to form two stair towers, one elevator shaft, and one mechanical shaft. The Flagstaff cores were cast into an adjustable form, allowing for casting of multiple wall thicknesses, and multiple sizes and heights. The core form also permits inclusions of all openings in one casting piece. Casting allows the cores to be stacked vertically, and then precast stairs and landing are inserted into the core shaft.

The cores were initially designed as cast-in-place, but with a winter casting schedule, the contractor looked for a more viable solution. Prefabrication allowed all pieces to be cast in a controlled environment, and erected on site with considerable time savings. Steel was later erected around the towers in the spring and summer. This was the first monolithic precast box project using shear elements in a building located in Utah.

### Project Facts:

<b>Market Segment:</b>	Multi-family
<b>Building Type:</b>	Resort Development
<b>Products Used:</b>	Precast box cores



### Project Design Team:

<b>Owner:</b>	East West Partners, Avon, CO
<b>General Contractor:</b>	Okland Construction Company, Salt Lake City, UT
<b>Architect:</b>	Segerberg Mayhew, Lakewood, CO
<b>Engineer of Record:</b>	Monroe and Newell, Denver, CO



### Company Information:

EnCon Colorado  
8600 Welby Road  
Denver, CO 80229  
303.287.4284  
[www.EnConColorado.com](http://www.EnConColorado.com)  
[Sales@EnConColorado.com](mailto:Sales@EnConColorado.com)





Casting enables the cores to be stacked vertically, and then the precast stairs and landings are inserted into the shaft. The integration of the elements is performed with in-house modeling to ensure the correct fit.

The cores are cast in an adjustable form, allowing for casting of multiple wall thicknesses, multiple sizes, and multiple heights. The form also permits inclusions of all openings in one casting.

Stairs can be cast with integral landings or without landings. Units are cast on a form that allows for multiple widths, riser height, number of risers, and landing dimensions. The speed of installing precast stairs and landings allows contractors to have immediate access to floors as they are constructed. Stairs can also be fabricated with nosings installed, allowing use in outdoor situations. Several available nosings are specially designed for use in precast stair units.

