



Lifetime Fitness Tennis Center, Centennial, Colorado

The Lifetime Fitness Centennial Tennis Center addition provides a new, state of the art tennis facility for the South Denver metro area. The 34,530 square foot facility is the second Lifetime building on the Centennial campus, and houses ten indoor courts, a video analysis room, a tennis specific pro shop, locker rooms, an indoor viewing lounge, and indoor landscaping.

Extensive coordination was necessary to ensure that Lifetime Fitness' rigorous project requirements were met. With the entire structure being comprised of precast components, an onsite crane for erection and installation, a project team facilitating, and the current Lifetime gym facility open while serving members, the project activities had to avoid any potential disruption to the existing facility and meet an expedited schedule. Stresscon provided all precast products and completed the erection of the facility in a 28 day period.

The precast scope consisted of 428 pieces, including a roof composed of prestressed sixteen inch deep double tees, inverted tee beams, columns, sandblast architectural cornice, solid walls, and insulated architectural sandblast thin brick wall panels. Lifetime owns a shallow depth proprietary double tee form, which was shipped to and installed at the Colorado Springs plant. The specific section details were created by Lifetime, and the double tees were fabricated by Stresscon per the details specified. Stresscon was able to deliver the precast cornice components, along with high energy efficiency Thermomass walls, columns, inverted tee beams, and tubby tees to meet all precast design requirements.

Project Facts:

Market Segment: Public
Building Type: Clubhouse/Tennis Center
Products Used: Tubby tees, inverted tee beams, columns, cornice, solid wall, wall panels



Project Design Team:

Owner: Lifetime Fitness, Chanhassen, MN
General Contractor: FCA Construction/Lifetime Fitness, Chanhassen, MN
Architect: Lifetime Fitness, Chanhassen, MN



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A special architectural color scheme enhances this aesthetically pleasing project, and is compatible with the existing Lifetime gym facility. The distinct color combination of three colors of utility size thin brick includes ivory, medium sandstone, and dark sandstone. Two colors of architectural face mix in buff and medium brown are used on the precast panels to blend the new building with the existing Lifetime Fitness facility. A buff band with acid etch finish separates the brick colors and creates design appeal in the panels.



The twelve inch Thermomass wall panels were produced on a long line production facility, allowing for prestressing of the walls to maximize the structural capacity and create an economical, architectural wall panel. Thin brick was cast into the wall panels with the use of a 1/3 running bond form liner and the required architectural face mix to brick color match. The wall panels are designed to meet ASHRAE requirements, project economies, and insulation requirements.



Lifetime decided to create a total precast structure incorporating an architectural sandblast cornice to minimize future maintenance costs. The Centennial Tennis Center is Lifetime's first total precast project, and the first project with precast cornice features. The company stressed the need for superior quality with attention to detail. A collaborative approach by Stresscon and Lifetime Fitness ensured that Lifetime's system change allowed for greater product quality and long term durability.

