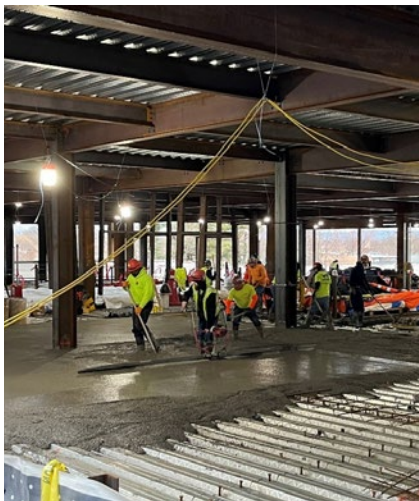




**EUCLID CHEMICAL**

## PROJECT PROFILE

# MEDICAL CENTER TOWER ADDITION



*Photo courtesy of Fox61*

## PROJECT DATA

**Location** – Hartford, CT

**Application** – Concrete Slabs on Metal Deck

**Architect/Engineer** – Cannon Design

**General Contractor** – DPR Inc.

**Concrete Producer** – Tilcon CT, a CRH Company

**Applicator** – Concrete Contractor Manafort Brothers Inc.

**Total Area** – 190,000 ft<sup>2</sup> (17,500 m<sup>2</sup>)

## PRODUCTS FEATURED

### TUF-STRAND™ SF

Synthetic Macrofiber

### PLASTOL™ 5000

High Range Water Reducing Admixture

### EUCON® MR

Mid-Range Water Reducing Admixture

## SCOPE OF PROJECT

Use of Tuf-Strand SF in lieu of WWF in the elevated slab on metal decks

Use of admixtures for enhanced workability and water control for efficient concrete pumping

## PROJECT SUMMARY

Originally constructed in the early 1990s, Connecticut Children's Medical Center in Hartford was designed with a steel podium capable of supporting future vertical expansion. Nearly three decades later, Cannon Design was engaged to deliver that expansion in a way that addressed contemporary healthcare delivery requirements. Rather than executing the original semicircular tower concept, the design team developed a rectilinear, eight-story, 190,000 ft<sup>2</sup> clinical tower that rises above the existing podium and is partially supported by new basement-level foundations. The reimagined tower integrates seamlessly with the existing structure while providing long-term flexibility for evolving clinical needs.

Tuf-Strand SF synthetic fibers were used in lieu of welded wire fabric in the elevated slabs on metal deck, improving jobsite efficiency while providing reliable reinforcement. Plastol 5000 enhanced workability and pumpability of the concrete mix, while Eucon MR reduced water demand to support consistent strength and performance. Together, these solutions helped streamline construction, improve concrete performance, and support the successful delivery of this complex healthcare expansion.