



Proton International at UAB

Proton International at UAB is the first proton therapy facility in Alabama. The 32,000 square foot facility utilizes proton beam technology in order to deliver a more precise dose of radiation to a cancerous tumor. It is estimated that more than some 250,000 cancer patients could benefit from proton therapy in the future.

More than 7,300 yards of concrete does not sound like a large job, but what sets this project apart from the rest is the mixes and the time required to manage the mixes once they were poured. Multiple 700+ yard pours were scheduled for this project, with most of the pours requiring a pour rate of 100 yards per hour.

Proton International at UAB contains a vault within the building that used more than 6,000 yards of high density concrete. Each of the walls in the vault are 10-14 feet wide. The purpose for the width of the walls is to contain the 90 ton cyclotron used for the proton therapy. Maturity probes were also used on this pour. This allowed Ready Mix USA's Quality Control team to monitor the core temperatures of the concrete vs. the exterior temperatures during placement. This prevented thermal cracking of the concrete, which could affect the overall strength of the concrete.

Location: Birmingham, AL

Category:

Square Feet: 32,000

Cubic Yardage: 7,300

Project Value: \$24.6 Million

Date: April, 2018 - June 2019



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