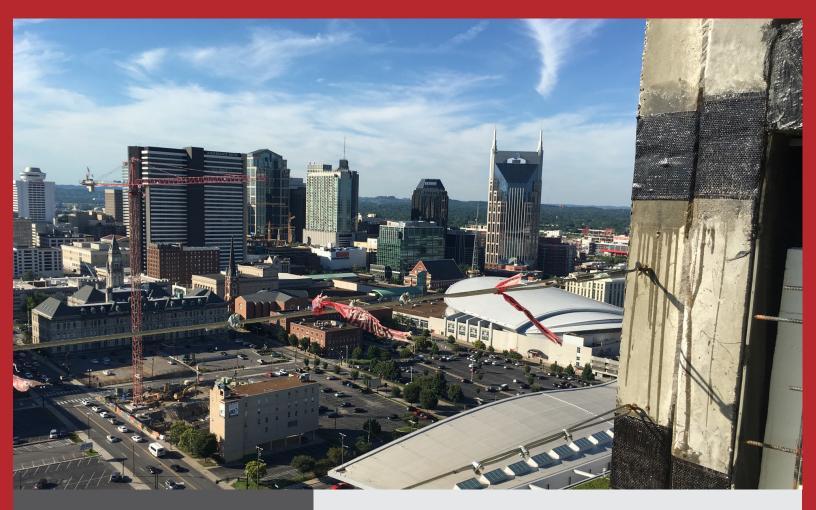CFRP CASE STUDY

HIGH RISE CRACK REPAIR

LOCATION
Nashville, Tennessee

CLIENT
Ground Up Builders, Inc.

PRODUCTS USED

- RCF™ Structural Epoxy Injection Resin
- Rhino Carbon Fiber™ CFRP (Bidirectional): 560 GSM, 12" Wide
- RCF™ Saturant-Adhesive Epoxy

CASE BACKGROUND

On a newly constructed high rise in downtown Nashville, engineers had concerns with cold joints at the top of an exterior wall.

The engineering team hired by the Ground Up Builders company recommended to inject the cracks with epoxy injection resin, then CFRP would be applied with saturant-adhesive epoxy to reinforce and strengthen the structure.

ICC
ES®

THE SOLUTION

After reviewing the product attributes, they determined that 560 GSM, 12" wide **Rhino Carbon Fiber™ CFRP (Bidirectional)** would be applied with **RCF™ Saturant-Adhesive Epoxy**. The bidirectional weave orientation was chosen to provide strength across the crack and help hold the two sections of the wall together. They injected the crack using **RCF™ Structural Epoxy Injection Resin** and then overlaid it with CFRP.
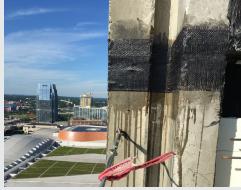
The **Rhino Carbon Fiber™** company was able to send all of the products required for the repair overnight and the Ground Up Builders company was able to begin the repairs the following day.

There were also cracks in the newly constructed pool on top of the building and they were able to use the same repair method that was used on the cold joints to address these cracks.

The Ground Up Builders company used **Rhino Carbon Fiber™** concrete crack repair and structural strengthening products to meet the needs of the project while staying on schedule and on budget.

RHINO CARBON FIBER™ CFRP (BIDIRECTIONAL)

COLD JOINTS

RCF™ SATURANT-ADHESIVE EPOXY

GROUND UP BUILDERS, INC.

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