



Project Overview

FRP REPAIR OF CORRODED PEDESTALS OF A COOLING TOWER

Name: Tucson Main Library
Type: Office Building
Location: Tucson, Arizona
Completed: June 2005

PROBLEM

Leaking of water from the cooling tower located on the roof had resulted in severe corrosion damage to the four concrete pedestals that supported the tower.

As part of the replacement of the cooling tower with a new one, the pedestals required to be repaired and protected against future damage by corrosion.



SOLUTION

QuakeWrap® FRP Repair System was selected since it provides an air tight seal that effectively prevents future corrosion.

All deteriorated concrete was removed and the pedestals were finished with a polymer modified concrete. QuakeWrap® composite glass fabric was used to fully encase the pedestals, preventing them from contact with water from the cooling tower.



Technical Highlights

- Cooling tower concrete pedestals were damaged by corrosion due to lack of maintenance.
- Repair required protection against future contact of the pedestals and water.
- Repair with composite glass fabric was completed in one day.

Credits

Consultant: Schneider & Associates, Tucson, AZ
General Contractor: Environmental Strategies, Inc., Tucson, AZ



“The FRP Retrofit Experts”

Follow UP

At the time the above project was completed, we offered a two-year warranty on the repairs. Nearly **7 years later**, the above site was visited and the repaired pedestals were inspected. As can be seen in the following pictures taken on 3/7/2012, the pedestals are in perfect condition.



“The FRP Retrofit Experts”

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