



Project Overview

REPAIR OF TILTUP CONCRETE WALL PANELS WITH GLASS FRP

Name: Courtaulds Aerospace
Type: Tilt-up Walls
Location: Glendale, California
Completed: October 1994

PROBLEM

The chemical facility building was damaged by the 6.7 magnitude Northridge Earthquake of January 1994. Courtaulds Aerospace needed the building to remain functional during the strengthening process. A large number of pipes passing through the facility could not be dismantled and had to be worked around during the retrofit process.



SOLUTION

Strips of glass fabric were cut and passed through small openings behind the pipes, so both the inside and outside of the damaged walls could be retrofitted.



Technical Highlights

- Damaged by the Northridge Earthquake of 1994 (6.7 magnitude)
- 18,400 ft² chemical facility warehouse
- Facility had to remain functional, throughout retrofit
- 20,000 ft² of QuakeWrap® glass fabric used
- Did not need to remove industrial pipes during FRP application
- Walls were finished with a UV-protective coating

Credits

Consultant: MGA Consulting Engineers, Glendale, CA
General Contractor: Jerry Roteman Construction, Downey, CA



“The FRP Retrofit Experts”