Project Overview

STRENGTHENING OF UNREINFORCED CONCRETE BLOCK WALLS WITH GLASS FRP

Name: United Airlines
Type: Airport
Location: Oakland International Airport
Completed: November 1997

PROBLEM

The United Airlines maintenance facility at the Oakland California International Airport is a URM building that can accommodate six large aircraft at any one time.

The URM walls surrounding the stairway needed a seismic upgrade. Because of the nearby aircraft, dust caused by the retrofit needed to be kept at a minimum level.

SOLUTION

QuakeWrap® glass fabric was used to strengthen all walls. Chemical cleaning and stripping of walls minimized dust.

- Facility could hold 6 large aircrafts
- Retrofit could not cause excessive dust
  - 4000 ft² of QuakeWrap® glass fabric was used
  - Wall surface was chemically cleaned to minimize dust
  - Project was completed in less than 2 weeks

Credits

Structural Engineer: The Crosby Group, Redwood City, CA
General Contractor: Watertight Restoration, Inc., Burlingame, CA

“The FRP Retrofit Experts”
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