Project: Honolulu International Airport

Location: Honolulu, Hawaii
Market: Aviation

Details: 275’ x 190’ x 30’ Air Cargo Facility plus 275’ x 347’ x 30’ Hangar

Adaptability for dynamic environments

Hawaiian Airlines, the State of Hawaii and Honolulu International Airport (HNL) looked to vastly expand their hangar and air cargo capacity. Because of site constraints, the project required a unique design.

Challenges

- Corrosive marine environment with wind, rain and high UV exposure
- Shallow coral base at the site, ruling out traditional foundations
- Unknown future expansion plans

“It’s always a challenge to do major improvements to an active airport. The program was designed in a sequence to keep operations running 24/7.”

Carolyn Sluyter
Public Information Officer, State of Hawaii

Solutions

- Corrosion-resistant structural framework with a non-corrosive PVC cladding, which allows natural light in while reflecting solar load
- Flexible foundation requirements
- Consolidation of existing cargo, aircraft maintenance, loading docks and customer service operations into 150,000 ft^2 facility
- Room for expansion by adding trusses and extending the fabric roof

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