

Installations of Alpen Fiberglass Windows in Historic Buildings

Bruce Curtis (Museum Collections) Building, CU Boulder



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Case Study

Installation of Alpen Fiberglass Windows in a Historic Structure

Alpen 925 Series – Case Study – Palo Alto Net Zero



Palo Alto Net Zero House | Palo Alto, California

Architect: Pedro de Lemos

Windows: 925 Series

Construction Type: Net Zero Renovation

Design Standard: Net Zero Energy

Objective: Artist and architect Pedro de Lemos built this historic home in the heart of Palo Alto in 1936. Silicon Valley entrepreneur Marc Porat completely renovated with the aim of making the house Net Zero and carbon neutral. Five principles guided the renovation process: Energy Efficiency, Comfort, Health, Water, and Historic Preservation. The Palo Alto Net Zero team fully documents both the mission and the process on its website. To date the energy monitoring system installed by the owner shows a 62% reduction in energy consumption. On-site solar energy generation as well as supply from Palo Alto Green, a local program to supply 100% renewable energy, meet all remaining energy needs.

Solution: In order to improve window performance without compromising historical integrity, Alpen Windows 925 Series storm windows were fitted over the original single-pane windows. To increase natural light the front door was reconstructed with high-performance glass panes. Furthermore, designer/builder Timeline Design used QuietRock soundproofing drywall to achieve first-rate acoustic performance in the historic structure.