El Pueblo Ribera Court

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Introduction
Location

-La Jolla, San Diego
California
-32.49 degrees N, 117.16 degrees W
Climate

-Temperatures range from 49-76 fahrenheit (average low and average high year round)
-Up to two inches of precipitation in February, and as little as 0.1 inches in July
Site Environmental Conditions
Site Section

to ocean
Solar Access

-Site arrangement and low building height designed with intent that sunlight reach every patio
  -Mostly successful excluding units oriented closer to north
-Floor-to-ceiling glazing in front rooms allows them to be lit naturally
-Natural lighting and heating a reasonable option
Solar Shading

-Solar access is moderately controlled using the overhang into the courtyard

-To better accommodate for the immense sunlight at noon each day, optional features include:
  - Movable Louvers
  - Window coverings/ motorized window coverings
  - Inset Windows

-Each feature reducing reducing heat, cooling and lighting energy
Sustainability

-still standing today, as it was declared a historic site in 1977
-constructed from wood, glass and precast concrete
-relatively low embodied energy (15.9, 2.5 and 2.0 MJ/Kg respectively)
-using precast bricks allows for less formwork and time spent on site
-units are spread out around the site rather than being stacked (increases ecological footprint)
Unit Environmental Conditions
Individual Units

-Single floor, u-shaped buildings, with private patios
-Solid concrete walls, sliding wood and glass doors, transom windows, wooden roof structure
Ground Floor
Porch
Upper Level
Roof
Pergola
Superimposed
Unit Section
Ventilation

-Narrow buildings, open floor plans and vegetative shading promote natural ventilation
-Steady wind conditions and temperate climate make the site predisposed to wind driven ventilation strategies
-Potential improvements: windows opposite patio sliding doors, ensure all buildings bridge a pressure differential, increase ceiling height
Sources

Photos

1. http://lab3js.blogspot.ca/2013_09_01_archive.html