

All Natural, All Recycled Home
Vital Systems - Natural Building and Design, Inc and DeBoer Architects
www.vitalsystems.net



A&P Orchards is a five acre apple orchard in the Sebastopol-Occidental region of California. 2 acres have recently been cleared for an organic market garden and a 1200 sq foot home was designed and built by Vital Systems with DeBoer Architects last year. The home features:

- 2 story straw bale walls exterior pinned with bamboo and welded wire mesh
- earthen cob wall sections, fireplace and wing walls
- straw clay (*leichtlehm*) wall and sculptural elements
- Insteel 3-D insulating panel walls in the sunroom
- earthen (radiant) floor throughout the ground level
- reclaimed madrone floors upstairs
- Earthen/lime plasters with lime wash finish exterior and Alis interior
- Certified sustainably harvested and or salvaged framing lumber with I joist rafters (Optimal Value Engineering).
- Wet Blown Cellulose ceiling insulation
- Meadowood (rye grass) ceiling
- recycled metal roofing
- salvaged redwood trim & raw madrone posts
- plumbed for future gray water and solar hot water

as well as a highly functional and aesthetic passive solar design – the radiant floor was needed only 4 days last winter.