

## Wall Section Notes

- 1 6" Mineral wool batts
- 2a 6" continuous mineral wool board - 2 layers staggered 3" thick
- 2b Cascadia clip 6" - used to connect sunscreen wall stud to structural stud and prevent thermal bridge
- 3a 4" EPS foam foundation insulation extends down 4' below grade
- 3b 4" EPS foam slab insulation with termite resistant polystyrene
- 4 Zip board fully taped air and weather resistant barrier
- 5 Plywood with waterproof membrane
- 6 Termite shield vapor barrier
- 7 14" TJI roof support with 14" mineral wool batts and metal stud framing below for cove support
- 8 Typical walls - metal stud structural framing. Metal studs chosen for termite resistance and recycling ability
- 9 Steel beam header only at large expanse of living room windows
- 10 Metal roof painted white for durability and rainwater harvesting
- 11 Synthetic stucco on 5/8" glass-mat exterior gypsum sheathing
- 12 Triple glazed Zola aluminum clad wood windows
- 13 Sunscreen wall - ventilated air space. 6" air space under main roof, 1' airspace on south bedroom wing
- 14 7" overhang on the north side to block summer sun
- 15a Perforated stainless steel air vent at high and low side of roof
- 15b Perforated metal air intake
- 16a Temperature sensors embedded in roof deck and in airspace
- 16b Temperature sensors embedded in stucco, in airspace and behind continuous insulation
- 17 ERV Zehnder tubing on interior side of ceiling
- 18 Radiant tubing covering ceiling in aluminum wrapped osb panels
- 19 ERV air supply and exhaust in coves to hide utilities and avoid unsightly grills in walls and ceilings
- 20 1/2" gypsum board for radiant performance
- 21 Service distribution layer for shelving, power, blinds, wiring
- 22 Blinds
- 23 Porcelain tile floors for radiant performance
- 24 Radiant tubing in floor slab - only at exterior walls
- 25 Windows set toward interior to maximize shading of window boxes
- 26 Large window sill painted white reflects light to improve daylighting



Wall Section  
Sonoran Desert Passive House