

Team Austria Wins Solar Decathlon 2013 - Irvine, California

2013-11-20

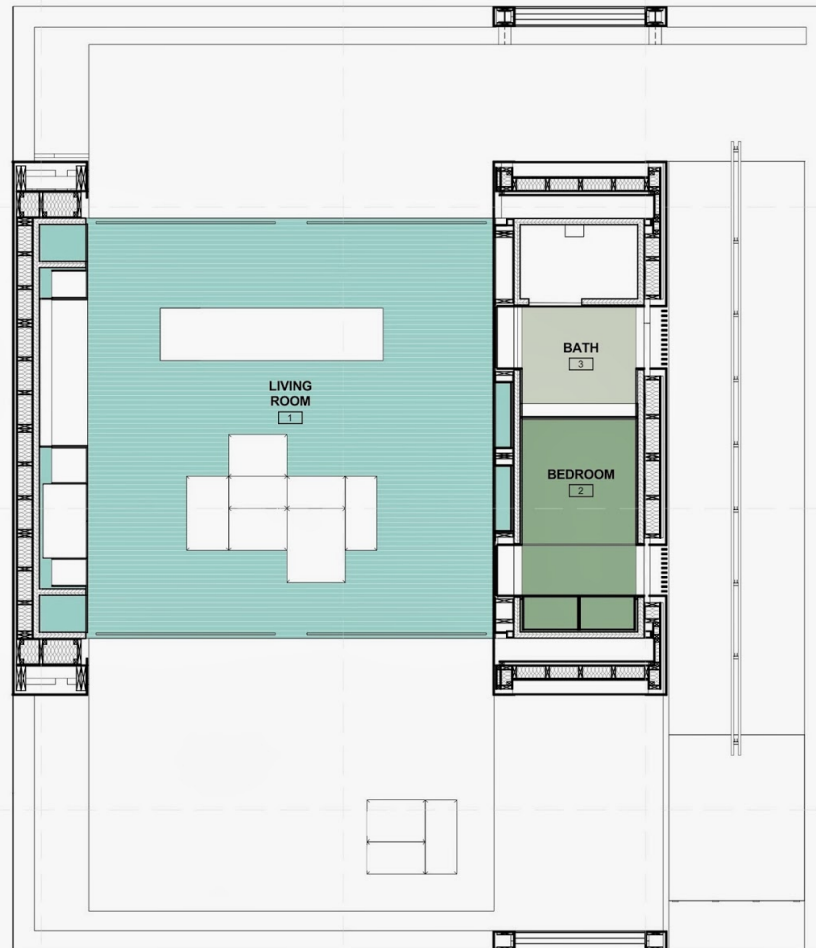


The 2013 Solar Decathlon winner is the LSI house by Team Australia. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon

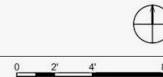
With a total score of 951.922, the LSI house designed and built by Team Austria, has won the 2013 Solar Decathlon.

The prototype house is a timber-frame structure designed for transportability. Two patios extend the 639-square-foot (59-square-meter) home's living area. The larger of the two also incorporates an herb garden irrigated by a rainwater reservoir.

ROOM SCHEDULE			
NAME	OUTLINE	SQUARE FOOTAGE	SQUARE FOOTAGE
LIVING ROOM	31,80 m	50 m ²	539 ft ²
BEDROOM	10,70 m	6 m ²	68 ft ²
BATH	6,58 m	3 m ²	31 ft ²
		59 m ²	639 ft ²



(A4) G-101 Square Footage_02
1:48



LISI's passive solar design incorporates a system of automated awnings and shades to maintain thermal comfort within the living space. A photovoltaic array supplies power to offset energy use.

Active systems include a two-unit air-water heat pump system that provides domestic hot water and heating and cooling with a multifunction air and water subfloor delivery system. Waste heat is also recovered from the home's shower and HVAC system.



Main interior living space. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon

The U.S. Department of Energy sponsors the biannual competition, which this year was held in Irvine, California, after more than a decade of competitions held at the National Mall in Washington, D.C.



Entry ramp and cloth shades. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



Exterior overview of LISI house. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



Main patio with shades deployed. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



Interior living space. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



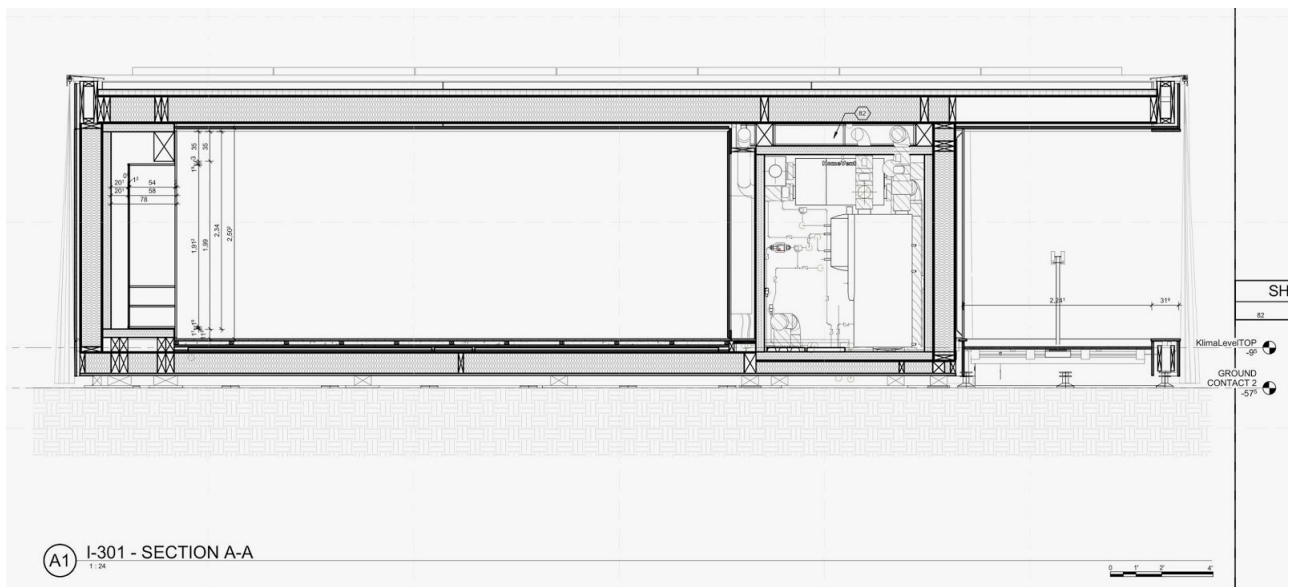
Bedroom. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



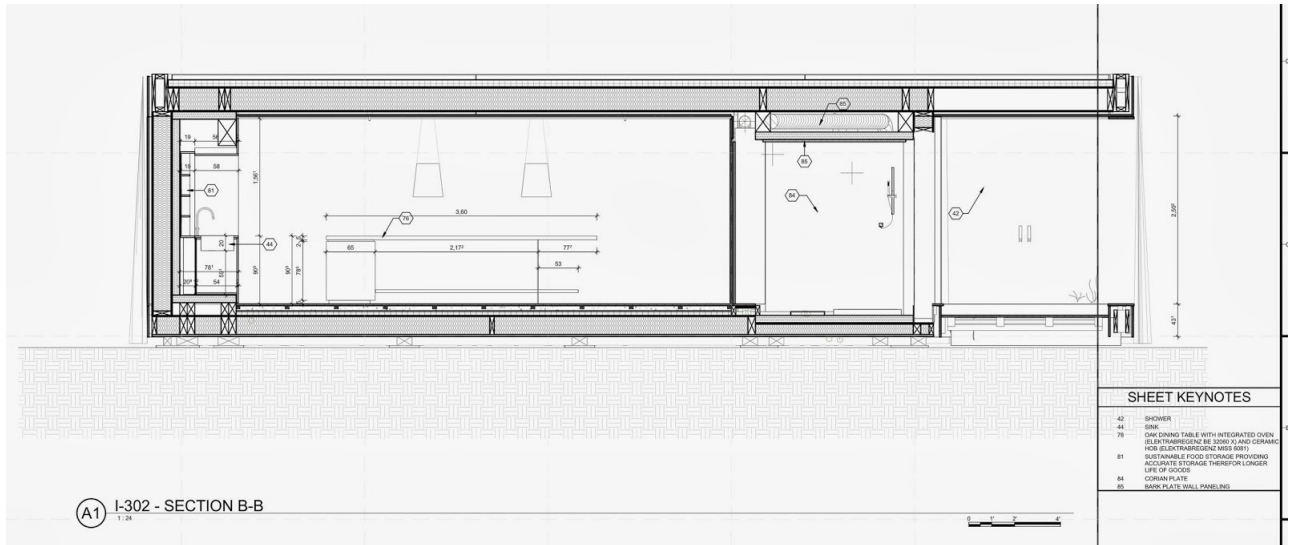
Bathroom. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



Patio. Photo: Jason Flakes/U.S. Department of Energy Solar Decathlon



Section drawing. Image: Team Austria



Section drawing. Image: Team Ausria

Source: Architecture Week People & Places Blog