



**HAWTIN RESIDENCE
TETON COUNTY, WYOMING**

33 HERS Rating

Balanced Daylighting and Views

Integrated Mechanical Systems

LEED® Facts

Hawtin Residence
Teton County, Wyoming

LEED for Homes
Certification awarded April 28, 2009

Silver **79.5***

Innovation & Design 6/11

Location & Linkages 3/10

Sustainable Sites 12/22

Water Efficiency 4/15

Energy & Atmosphere 30/38

Materials & Resources 7.5/16

Indoor Environmental Quality 15/21

Awareness and Education 2/3

**Out of a possible 136 points*

The information provided is based on that stated in the LEED project certification submittals. USGBC and Chapters do not warrant or represent the accuracy of this information. Each building's actual performance is based on unique design, construction, operation, and maintenance/ Energy efficiency and sustainable results will vary.



HAWTIN RESIDENCE

Efficient & Sustainable

In a Harsh Climate

PROJECT BACKGROUND

Bruce Hawtin, FAIA used the commitments of his own firm, Hawtin Jorgensen Architects (HJA), to design and build an energy efficient and sustainable 4,226 square foot home (3,600 living area). In addition to LEED silver certification this home has achieved an Energy Star HERS rating of 33. Hawtin Jorgensen Architects has a strong reputation for energy efficient and sustainable buildings regardless of building type and was excited to showcase this residence to document that commitment.

CONTEMPORARY IN CONTEXT WITH THE ENVIRONMENT

This home is contemporary with its massing and use of materials relating it into the context of Jackson Hole, Wyoming. By protecting the natural vegetation of the site during construction and by utilizing native landscape material for the minimal amount of landscaping, the imposition of the home onto the site has been kept to a minimum. It fits and blends at the same time.

STRATEGIES AND RESULTS

The home was designed by balancing four primary strategies; site design and layout, building envelope efficiency, system efficiencies and active solar.

The house placement is designed to take advantage of the sun access, with consideration given to the wind, access by car, preserving the natural vegetation, and the views of the Teton Range.

The LEED criteria guided the energy efficiency and design of the building envelope. Some highlights of those efforts include: Increasing the efficiency of the building envelope (foundation – R=24, Floor – R=38, exterior walls – R=34, roof – R=52; windows U=.30), exposed concrete floors throughout with roof overhangs that allow passive solar gain in the winter and shade the summer sun.

The mechanical systems are among the most efficient widely available in our region; ground source heat pump provides hot water for the in floor radiant heating system and the energy recovery ventilation system operates through air-to-air heat exchangers.

The inclusion of a one KW grid connected photovoltaic panel system and a solar hot water heating system assist in achieving the sustainable goals of the home.

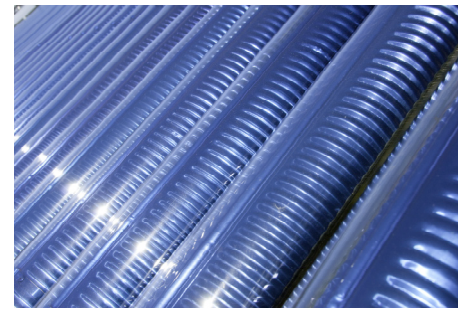
ABOUT HAWTIN JORGENSEN

Hawtin Jorgensen Architects was established in 1971 and has historically stressed energy efficiency and sustainability as a benchmark of its design approach and philosophy. HJA purposely works with diverse project types, which creates a high level of enthusiasm for each project. These projects have included single-family housing, multi-family housing, affordable housing, offices, schools, City and County facilities, light industrial, and commercial uses. Several of our projects have won American Institute of Architects Design Awards.



“Taking advantage of the site’s amenities gave us great views and access to the sun for an energy efficient, sustainable and an extremely habitable home”

Carolynn and Bruce Hawtin
Homeowner



Owner: Bruce and Carolynn Hawtin
Architect: Hawtin Jorgensen Architects
Civil Engineer: Rendezvous Engineering
LEED Home Provider: Energy Logic
Contractor: S2RT Construction
Electrical Engineer: Bradley Engineering
Interior Designer: Red Chair Interiors
Landscape Architect: Hershberger Designs
LEED Consultant: Hawtin Jorgensen Architects
Lighting Designer: Dave Niles & Associates
Mechanical Engineer: Quantum Group Engineering
Plumbing Engineer: Quantum Group Engineering
Structural Engineer: G&S Engineering

Project Size: 4,226 sq.ft.
Cost Per Square Foot: \$410 (cost per sq..ft.)

Photographs Courtesy of: Premier Property Photography

ABOUT WYOMING CHAPTER

The Wyoming Chapter promotes green building in Wyoming through educational programs and workshops, community outreach, collaboration with other organizations and the promotion of environmentally responsible practices within the Wyoming building community.



www.usgbcwyoming.com