

Auburn University – MIDC Blue

Strategic Approach:

- Type of Project:
Two Story Single Family House
- Location/Climate: Auburn, AL , CZ 3A
- Design Strategy:
Open layout that minimizes hallways with stacked utilities maximizes usable space.
- Technical Strategy
 - Enclosure: Fibercement Board ,Rainscreen, R-5 Rigid Insulation, Housewrap, Sheathing, over a 2'O.C. Stud Cavity containing R-15 Batt Insulation
 - HVAC: Ductless Mini-Split and circulation air by integrated ERV
 - IAQ: Low chemical materials and high-merv filtrations
- Construction Cost Strategy: Used money saved on right-sizing for high-performance features, eliminated duct system, eliminated basement

Technical Specifications:

Wall R-Value: **R-15 + 5**
Ceiling R-Value: **R-38**
Foundation Wall R-Value: **R-5**
Window U-Value: **.28 - .30 (varies)**
Window SHGC: **.25 - .18 (varies)**
Heat Pump HSPF: **9.3**
Heat Pump SEER: **17.5**
Water Heater EF: **2.4**

Key Statistics:

Location: **Auburn, Alabama**
2009 IECC Climate Zone: **3A**
Square Feet: **1,608**
Number of Stories: **2**
Number of Bedrooms: **3**
Number of Bathrooms: **2.5**
Estimated Construction Cost: **\$178,000**
HERS Index Score: **44**
Estimated Monthly Energy Cost: **\$71**

