

## 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**

