

Auburn University – MIDC Orange

Strategic Approach:

- Type of Project:
Two Story Home
- Location/Climate: Auburn, AL, CZ 3
- Design Strategy:
Open layout with minimum circulation surrounding a centralized open space.
- Technical Strategy
 - Enclosure: Rigid insulation sheathing.
 - HVAC: Mini-Split and ERV air circulation system.
 - IAQ: Low chemical materials and high-merv filtrations
- Construction Cost Strategy: Used money saved on right sizing for high-performance features, eliminated basement, and smart framing.

Technical Specifications:

Wall R-Value: **R-20**

Ceiling R-Value: **R-35**

Foundation R-Value: Perimeter **R-5**

Window R-Value: **R-**

Window SHGC: **.170**

Heat Pump HSPF: **9.3**

Heat Pump SEER: **17.5**

Water Heater EF: **2.3**

Key Statistics:

Location: **Auburn, Alabama**

2009 IECC Climate Zone: **3**

Square Feet: **1,640**

Number of Stories: **2**

Number of Bedrooms: **3**

Number of Bathrooms: **2.5**

Estimated Construction Cost: **\$186,554**

HERS Index Score: **47**

Estimated Monthly Energy Cost: **\$80**

