

Hinge House

Charlottesville Albemarle Technical Education Center



Since 1973 The Charlottesville Albemarle Technical Education Center (CATEC) has served Charlottesville City and Albemarle County to provide technical education to high school students and adults. While CATEC has been building homes for over two decades, the [Hinge House](#) will be the program's first LEED for Homes Certified home. **Timber Truss** Housing Systems worked with Charles Hendricks of the [Gaines Group](#), to provide the mono pitch roof trusses for this project. These trusses were designed to accommodate the increased insulation values necessary on the home.



The Day Residence

Upstream Construction



From the Builder's [web page](#):

This two-story 3,000 square foot home sits at the base of the Blue Ridge Mountains and is in the process of becoming LEED for Homes Certified. The Insulated Concrete Form (ICF) walls and blown soy insulation in the roof create a tight building envelope for maximum energy efficiency. An Energy Recovery Ventilator (ERV) brings in fresh air at regular intervals. Additionally, a geothermal heat pump uses the relatively constant temperature of the earth 5½ feet below the surface to drive the heating and cooling system.

Timber Truss worked with Terry Herndon at [Upstream Construction](#) to provide floor trusses integrated with the homes advanced HVAC system.