



Energy Star® labeled homes typically use 20-30% less energy than standard homes

Steven Winter Associates, Inc.

Energy Star® Ratings Paragon Homes

Sterling, VA

Project Data: Market-Rate, Single Family

To participate in the [EPA's Energy Star® Labeled Homes Program](#), either the prescriptive or performance method approaches must be followed. The performance method requires that a building energy model be completed by a certified HERS rater, but provides the trade-off flexibility lacking in the prescriptive method.

Many building energy simulation softwares (REM/rate, TREAT, Energy Gauge) can be used to determine the HERS rating for a home. Building parameters and geometries are entered into the software and a HERS rating is generated that compares the estimated energy use of the design home to a reference home that is compliant with the 2004 IECC.

Every point below 100 in the HERS rating, indicates a 1% reduction in site-energy consumption as compared to the reference home. Depending on your location, Energy Star homes achieve 15-20% energy savings (80-85 HERS Index) relative to the reference home.

The Paragon Home shown to the right (HERS Index 67) had a high-performance building envelope, Energy Star rated heat pump, lights, exhaust fans and appliances, as well as a tankless water heater and programmable thermostat.



Client: Paragon Homes

Location: Sterling, VA

Building Type: Residential

Building Size: 4600 sf, 4 bedroom

Project Status: Completed

Reference: www.paragonhomes.org

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