



# Amaris Homes LLC

Afton Model | Afton, MN | MinnesotaGreenHomeBuilder.com



Photos courtesy of Amaris Homes LLC

“We have a very high level of customer satisfaction since we converted to sustainable green home building.” *Raymond Pruban, Amaris Homes, LLC*



## PROJECT DATA

- **Layout:** 4 bdrm, 2.5 bath, 2 fl, 3,734 ft<sup>2</sup>
- **Climate:** IECC 6A, cold
- **Completed:** September 2015
- **Category:** custom spec

### MODELED PERFORMANCE DATA

- **HERS Index:** without PV 39, with PV 9
- **Projected Annual Energy Costs:** without PV \$1,960, with PV \$700
- **Projected Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,000, with PV \$3,350
- **Annual Energy Savings:** without PV 10,900 kWh, 1,100 therms; with PV 15,300 kWh with PV, 1,100 therms

## KEY FEATURES

- **Walls:** 2x6 24" o.c., R-21 closed-cell spray foam plus R-5.5 rigid foam over 7/16" plywood for R-26 total; house wrap, engineered wood siding.
- **Roof:** Ice-and-water shield 36" past wall line; 15# felt; metal valley, edge, and step flashing; kick-out flashing; 3' overhangs at eaves; continuous ridge vent; vents and baffles in each truss bay; architectural asphalt shingles.
- **Attic:** Vented, raised-heel trusses; 2" closed-cell foam on ceiling deck for interior barrier plus 12" blown cellulose for R-65.5 total. R-49 closed-cell spray foam in vaulted ceilings.
- **Foundation:** Slab-on-grade, R-10 rigid exterior foam, R-10 rigid foam under slab.
- **Windows:** Double-pane, low-e, argon-filled, vinyl-framed, U=0.22; SHGC=0.21.
- **Air Sealing:** 1.10 ACH 50.
- **Ventilation:** ERV, motion-controlled exhaust fans. MERV 16 filter.
- **HVAC:** 0.95 AFUE gas boiler for in-floor radiant heat; 9.8 HSPF/16 SEER air-source heat pump with spray-sealed metal ducts in three zones.
- **Hot Water:** Gas boiler; super-insulated indirect storage tank; recirc pump.
- **Lighting:** 100% LED.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and three exhaust fans.
- **Solar:** 12.1-kW PV.
- **Water Conservation:** EPA WaterSense fixtures. Rainwater harvesting.
- **Energy Management System:** Smart phone PV tracking; thermostat & lighting controls.
- **Other:** One electric car charger. Low-VOC finishes. Wheelchair accessible; wider hallways & doors; zero barrier shower. Metal ties roof to foundation.

## CONTACT

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