

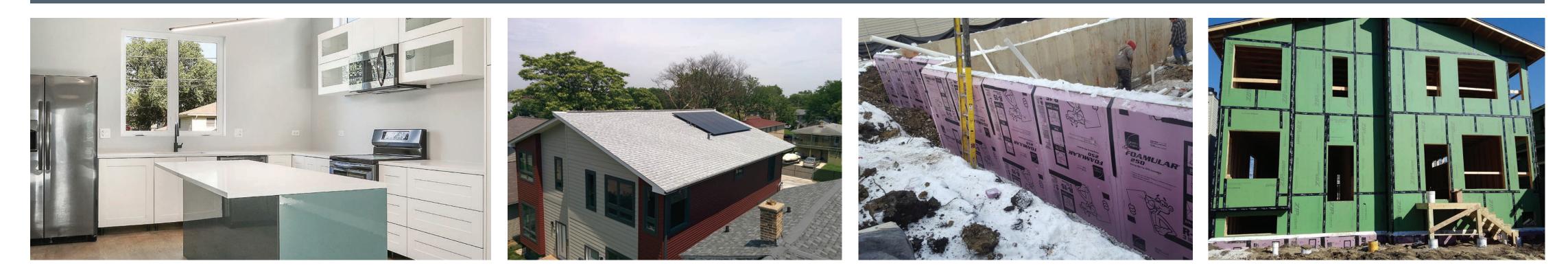
BrightLeaf Homes

Double Take Townhomes | La Grange, IL | MyBrightLeafHome.com





"Energy bills are less than half of our previous home with 20% more square footage." Home owner



PROJECT DATA

- Layout: 4 bdrm, 3 bath, 2 fl + bsmt, 2,280 ft²
- Climate: IECC 5A, cold
- **Completed:** June 2018

KEY FEATURES

- Walls: 2x4s staggered 12" o.c. on 2x6 plates, advanced framed; R-26 dense-packed cellulose, $\frac{1}{2}$ " taped coated OSB, fiber cement siding. Beveled window sills.
- **Roof:** 24" o.c. engineered roof trusses; ¹/₂" coated OSB sheathing, 13" raised-heel trusses, 24" overhangs, 30-lb felt, ice-and-water shield at eaves. Light asphalt shingles.
- Attic: Vented: all top plates foamed, 16" R-60 blown cellulose, raised-heel trusses.
- **Category:** custom spec

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 49; with PV 37
- Annual Energy Costs: without PV \$1,750; with PV \$1,400
- Annual Energy Cost Savings: (VS typical new homes) without PV \$1,700; with PV \$2,050
- Annual Energy Savings: without PV 50 MMbtu; with PV 60 MMbtu
- **Savings in the First 30 Years:** \$100,900

CONTACT

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Energy Efficiency & Renewable Energy



- Foundation: Basement; exterior 3" rigid XPS plus dimpled plastic drain mat, 2" XPS under slab, 10-mil vapor barrier and capillary break.
- Windows: Low-e, argon-filled, triple-pane, vinyl frames; U=0.22-0.18, SHGC=0.26.
- **Air Sealing:** 1.6 ACH 50.
- **Ventilation:** Air-cycler-controlled fresh air intake balanced to timered exhaust fans.
- **HVAC:** 96% AFUE gas furnace, 14 SEER AC. Ducts in conditioned space.
- Hot Water: Tankless gas condensing, 0.97 EF.
- Lighting: 97% LED, 4 ENERGY STAR ceiling fans.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, bathroom exhaust fans.
- **Solar:** 2.5-kW PV; 10-panel PV system with room for 20 more panels.
- Water Conservation: WaterSense fixtures and plumbing system.
- Energy Management System: Smart energy monitoring system.
- **Other:** Electric vehicle charging station; room for PV expansion; Indoor AirPLUS certified. Storm resistance: 2-ft overhangs, structural truss connectors, oversized anchor washers, site graded for 10" to 24" slope away from house. Stormwater management system.



For more information on the DOE Zero Energy Ready Home program, go to http://energy.gov/eere/buildings/zeroenergy-ready-home or scan the QR code.



PNNL-SA-137723 September 2018

2018 WINNE: