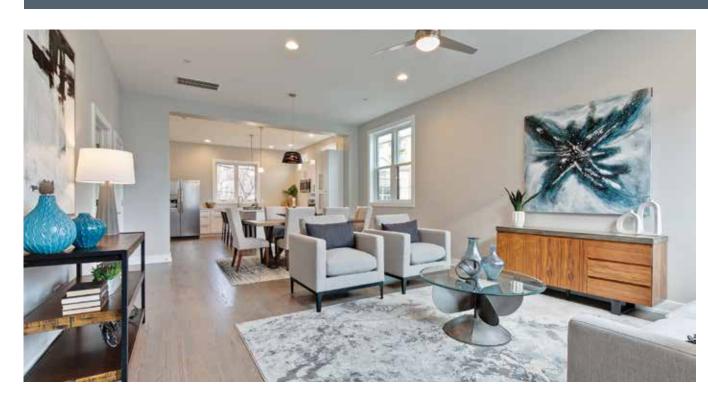


BrightLeaf Homes

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PROJECT DATA

- **Layout:** 4 bdrm, 3.5 bath, 2 fls + bsmt, 2,520 ft²
- Climate: IECC 5A, coldCompleted: January 2020
- Category: Attached Housing

MODELED PERFORMANCE DATA

- HERS Index: without PV 48; with PV 32
- Annual Energy Costs: without PV \$1,350; with PV \$1,050
- Annual Energy Cost Savings: (vs typical new homes) without PV \$1,950; with PV \$2,200
- Annual Energy Savings: without PV 16,000 kWh; with PV 19,100 kWh
- Savings in the First 30 Years: without PV \$80,800; with PV \$92,200

CONTACT

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KEY FEATURES

- Walls: Staggered Stud, R-25 total: 2x4 staggered every 12" on 2x6 plate, blown fiberglass. Coated OSB; fiber cement and vinyl siding. Adv. framed-2-ft grid.
- Roof: Truss gable roof: ½" coated OSB taped seams, 30lb felt, asphalt shingles. 13" raised heels, 24" overhang. 6.55/12 pitch is ideal angle for PV. Energy Star Cool Roof.
- Attic: Vented attic: R-61 total: 16" blown cellulose. All top plates foamed.
- Foundation: Insulated basement, R-15 total: 8" poured concrete, 5 ft below grade, 3 ft above grade. Exterior 3" rigid XPS, drain mat. Under slab: crushed rock, 10-mil, 3" XPS.
- Windows: Triple-pane, argon-filled, low-e, vinyl double-hung and fixed frames, U=0.19, SHGC=0.24. Bevel sills, standard sizes 3x5 or 2x3 ft.
- Air Sealing: 1.08 ACH 50. Airtight drywall.
- Ventilation: Balanced: controlled central fan with fresh air intake and timered exhaust fans, MERV 13 filter at central return. Humidity-sensored bath fans.
- HVAC: Central heat pump, 17 SEER, 12.5 EER, 3.62 COP, 2 ductless mini-splits in basement.
- Hot Water: Tankless gas, 0.97 EF. Compact plumbing design.
- Lighting: 100% LED. Lighting controls integrated with home automation. Daylight.
- **Appliances:** ENERGY STAR refrigerator, clothes washer and dryer, water heater, dishwasher.
- Solar: 3.05 kW; central inverter allows for future battery backup.
- Water Conservation: EPA WaterSense fixtures, drought-resistant landscaping. Rain barrels.
- Energy Management System: Smart home integration with control of lighting and HVAC.
- Other: Electric vehicle charging, low/no VOC primer, paint, adhesives, caulk, carpet, pad.





