



Tim O'Brien Homes

The Mulberry | Madison, WI | TimOBrienHomes.com



Photos courtesy of Tim O'Brien Homes

"We barely had to run the air conditioning, and we've had some hot days." Homeowners



PROJECT DATA

- **Layout:** 4 bdrm, 5 bath, 2 fl + bsmt, 4,736 ft²
- **Climate:** IECC 6A, cold
- **Completed:** April 2022
- **Category:** Custom for Buyer

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 35
- **Annual Energy Costs:** without PV \$2,370
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$1,550
- **Annual Energy Savings:** without PV 13,200 kWh, 360 therms
- **Savings in the First 30 Years:** without PV \$75,050

KEY FEATURES

- **Walls:** Staggered stud, 2x4' 16" o.c. on 2x8 plates, R-35 total: 7.5" wall cavity filled with R-30 dense-packed blown fiberglass, 1-1/16" graphite EPS, 7/16" OSB, draining house wrap, vinyl or stone veneer siding.
- **Roof:** Gable truss roof: self-adhered membrane at eaves and valleys, synthetic underlayment, architectural shingles. Aluminum soffit vents, ridge vents.
- **Attic:** Vented attic: 16.5" R-50 blown fiberglass; 7" raised heel trusses. 1/2" R-3 closed cell spray foam over sill plates, chases, and can lights. Ridge vents.
- **Foundation:** Insulated basement: all walls have 2" R-10 foil-faced rigid foam on interior. Finished walls also have 2x4 framing and R-11 fiberglass unfaced batt.
- **Windows:** Double-pane, argon-filled; low-e2; vinyl-framed; U=0.27; SHGC=0.26.
- **Air Sealing:** 1.03 ACH50. Whole house sealed with aerosolized acrylic sealant.
- **Ventilation:** ERV, tied to central air handler. MERV 11 filter on return, MERV 8 on intake.
- **HVAC:** Gas furnace, 97 AFUE; central air-source heat pump, 16 SEER, 9.5 HSPF.
- **Hot Water:** Heat pump water heater, 72 gallon, 3.5 EF.
- **Lighting:** 100% LED, clerestory windows.
- **Appliances:** ENERGY STAR microwave, dishwasher, refrigerator.
- **Solar:** Solar ready, conduit and plywood for inverter box installed.
- **Water Conservation:** Whole house EPA WaterSense-certified. Central manifold, PEX pipe.
- **Energy Management System:** Programmable thermostat.
- **Other:** Radon detector, air cleaner. Electric vehicle charger in garage. High school training program. Locally sourced doors, windows, and cabinets.

CONTACT

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