Charis Homes
The Royal Magnolia | Uniontown, OH | CharisHomes.com

“Within a week of moving in, our son’s cough started to clear up and he was acting like himself again.” Homeowner

PROJECT DATA

• Layout: 3 bdrm, 2 bath, 1 fl + bsmt, 4,468 ft²
• Climate: IECC 5A, cold
• Completed: May 2020
• Category: Custom Spec

MODELED PERFORMANCE DATA

• HERS Index: without PV 43
• Annual Energy Costs: without PV $1,650
• Annual Energy Cost Savings: (vs typical new homes) without PV $1,600
• Annual Energy Savings: without PV 6,300 kWh
• Savings in the First 30 Years: without PV $77,000

KEY FEATURES

• Walls: 2x6, 16” o.c., R-26 total: Advanced framed, in cavity R-23 rockwool batt, 1” graphite EPS with perforated coating, 1/8” OSB sheathing, house wrap, fiber cement siding.
• Roof: Truss gabled roof: 7/16” OSB decking, synthetic underlayment, 36” self-adhered membrane at valleys and eaves; metal drip edge, ridge vent, 30-year architectural shingles.
• Attic: Vented attic: 14.9” R-50 blown cellulose. Top plates and penetrations sealed.
• Windows: Double-pane, argon, low-e, fiberglass, internal louvers. U=0.26, SHGC=0.26.
• Air Sealing: 1.91 ACH50, rigid foam and house wrap seams taped.
• Ventilation: Controlled central fan with fresh air intake and balanced exhaust, MERV 11 filter.
• HVAC: Gas furnace, 96 AFUE, 19 SEER AC unit, rigid metal ducts.
• Hot Water: Gas tank, 50-gal, 0.70 EF.
• Lighting: 100% LED, motion sensors, sky lights, solar tubes.
• Appliances: ENERGY STAR dishwasher.
• Solar: N/A
• Water Conservation: WaterSense fixtures, hot water recirculation pump.
• Energy Management System: Wi-Fi HVAC controls.
• Other: Low/no-VOC foam, caulk, paint, stain, OSB, flooring, glues, insulation.

CONTACT

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