

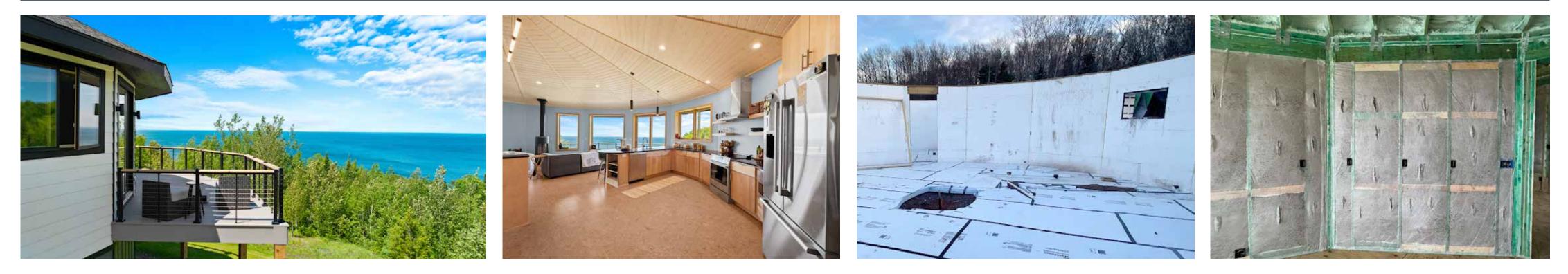
# Deltec Homes

Lakeside Round House | Atlantic Mine, MI | DeltecHomes.com





"Deltec's round homes are precision engineered to resist hurricane force winds... we believe that resilience is really a fundamental part of sustainability." *Deltec Homes* 



#### **PROJECT DATA**

- Layout: 3 bdrm, 2 bath, 1 fl + bsmt, 2,626 ft<sup>2</sup>
- Climate: IECC 7, very cold
- **Completed:** December 2023

### **KEY FEATURES**

- Walls: Double wall, panelized walls, R-49 total. Two 2x4 walls on 2x10 top and bottom plates: inner wall 16" o.c., 3.5" dense-pack cellulose; outer wall 24" o.c. with 3.5" closed-cell spray foam; 2.5" dense-pack cellulose between walls. 5%" OSB sheathing, draining housewrap, composite wood siding.
- **Roof:** Gable and round hip truss roof: scissor trusses; 5/8" plywood sheathing, synthetic roof

• Category: Custom

#### MODELED PERFORMANCE DATA

- ERI: without PV 36
- Annual Energy Costs: without PV \$1,200
- Annual Energy Cost Savings: (versus typical new homes) without PV \$2,900
- **Annual Energy Savings:** without PV 24,120 kWh
- Savings in the First 30 Years: without PV \$120,150

## CONTACT

Leigha Dickens 828-253-0483 Idickens@deltechomes.com

- underlayment, 12" raised heel; asphalt shingles.
- Attic: Unvented, 9" R-60 closed-cell spray foam under roof deck, 12" raised-heel trusses.
- Foundation: Insulated daylight basement: 14" ICFs, waterproof membrane, metal flashing, OSB, house wrap, fiber cement siding. 5" R-25 XPS under slab.
- Windows: Triple-pane windows, U=0.20, SHGC=0.27, low-e, argon-fill. Cellular shades, motorized blinds.
- Air Sealing: 0.96 ACH50; factory-built panels with gaskets at sheathing edges.
- **Ventilation:** ERV, separate ducting, supplies to living room, basement, bedrooms, returns from baths. 24/7 plus boost switches. Air quality monitors for radon, CO, CO2, PM2.5.
- HVAC: Air-to-water heat pump, 10.9 HSPF, 18 SEER, radiant floors, ductless fan coils.
- Hot Water: Heat pump water heater, 60-gal, 3.88 UEF. Core plumbing design.
- Lighting and Appliances: ENERGY STAR appliances.
- Solar: None
- Energy Management System: Smart electrical panel allows circuit-level monitoring.
- **Other:** Electric vehicle charger. Hurricane-resistant assembly. Kit homes.



Energy Efficiency & Renewable Energy



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



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