

Sustainable Live/Work Home in Wisconsin



2011 "2nd Runner Up" Large Residential

Homeowners, David & Jennie Dumbleton planned this '100 Year-Plus Home' project with future generations in mind. Building with Quad-Lock ICF and concrete was the sustainable solution that will allow this home to last for generations to come. The 4,000sqft project provides extended family accommodations, home theater & wine cellar on the ground level, main living on the 2nd level, and their place of work on the 3rd level. Quad-Lock walls provide R-22 insulation below grade and R-30 above grade keeping the family comfortable in the extreme variations of the midwest seasons (temperatures average 78-100°F in summer months & can get as low as -20°F in the winters). Quad-Deck was utilized between levels and has been engineered for a future green roof. The Dumbleton family not only enjoy living in their beautiful home overlooking the historic Wisconsin River Valley, but also running their insurance business within this zen-like setting. Their Quad-Lock home is truly built to last.



Why Quad-Lock was Chosen

- ▶ Testimonials from other contractors & builders on the benefits and ease of installation of Quad-Lock
- ▶ Low waste and recyclability during construction
- ▶ Ability to transition easily between R-22 below grade and R-30 above
- ▶ Exemplary support from Quad-Lock Dealer (Midwest Construction Products)
- ▶ Sustainability
- ▶ Improved interior air quality
- ▶ Quad-Lock's exhaustive information library addressed all technical & training questions that the owners and builder had

Interesting Facts

Location:	Portage, WI
Completion Date:	September 2010
Building Size (Total):	4,000sqft
Quad-Lock Walls:	4,955sqft
Quad-Deck:	2,000sqft + 1,755sqft + 800sqft (future green roof)
ICF Installation Time:	120 days (inc. work stoppages for severe weather)
Total Construction Time:	432 days
Exterior:	Thin Stone Veneer, Ship Lap White Cedar
Windows:	Pella Impervia Fiberglass
Waterproofing:	Platon



Quad-Lock Project Profile - Wisconsin Live/Work Home

The Design Vision ▸

Built into a rugged and hilly 35-acre site, the project juts into the horizon with large cantilevered rooflines that appear to hover over the abundant windows which allow breathtaking 20-mile panoramic views to the East, South and West over the valley and six neighboring towns. The building was positioned and designed for maximum winter solar gain with the Quad-Deck cantilevers minimizing direct sun in the summer months. The project incorporates many LEED guidelines, so interior air quality, energy and water conservation, waste reduction and lower operating costs were primary goals of this building.



“The thermal mass and airtight construction achieved with the use of Quad-Lock ICF walls and Quad-Deck floors and roof, create a quiet & pleasant atmosphere all year round and that will last for decades to come.”

*Kyle Dumbleton
AIA LEED Assoc.*

The homeowners, who affectionately refer to their residence as ‘Hurry Back Home’, are extremely pleased with their utility bills this past year and feel that they are saving at least 70% in energy costs.



Project Partners ▸

Owner/Developer: David & Jennie Dumbleton & Dumbleton Insurance Agency
General Contractor: Midwest Modern, LLC
www.midwestmodern.com
Architect: Kyle Dumbleton, AIA, LEED Assoc.
Structural Engineer: Iverson Engineering, LLC
Quad-Lock Dealer: Midwest Construction Products
HVAC Design & Installation: Adams Columbia Electric
Additional Project Partners: Jim’s Plumbing
Wilcox Concrete
Frederick Excavating
Freedom Carpeting
Miller Cabinet Shop
Agnew Electric

