

<u> UAD-LOCK</u> PROJECT PROFILE



The Dewey Beach area on Delaware's Atlantic coast encompasses some of the country's most beautiful scenery but is prone to winds in the range of 75-100mph, hurricanes, and flooding. This can be disastrous for many traditionally built homes. To protect this 7,100sqft custom home from the ravages of coastal living, and accommodate the complex design requirements, Turnstone Builders chose to build with concrete using Quad-Lock Insulated Concrete Forms (ICF) and Quad-Deck. This showcase home utilizes Quad-Lock ICF on all exterior walls with 6" and 12" of concrete as well as a Quad-Deck rooftop deck. The energy efficiency, air quality and sound attenuation of this home will keep the occupants



comfortable and safe for many years to come.

Why Quad-Lock was Chosen

- Able to withstand extreme storms, high winds and tidal surges prevalent on the Atlantic coast
- Resistance to mold, rot, pests and deterioration from salt water
- Availability of multiple R-Values (R-22 and R-38 combinations)
- Easily create varied angles on site with multiple wall transitions
- Seamless integration with Quad-Deck to add to overall energy savings
- 40% reduction in size of HVAC system
- Virtually no maintenance and upkeep

Interesting Facts

Location: Completion Date: Building Size (Total): Quad-Lock Walls: % of Exterior Walls: Quad-Deck: ICF Installation Time: Total Construction Time: Wall Bracing: Exterior: Waterproofing:

North Indian Beach, DE June 2011 7.100saft 7.000sqft 100% 2600sqft Roof Deck 2 months 11 months Panel Jacks Stucco Enkadrain



The Design Vision

Turnstone Builders envisioned a custom built, highend home that would demonstrate how the challenges and risks of building in coastal areas can be mitigated by using insulating concrete form building systems. With varying angled walls on each level and multiple corners, this home was not a 'run-of-the-mill' box. Quad-Lock allowed for all of these unique design elements to be constructed on site with no special order components. With the use of 20ft pilings, steel beams and rebar varying from No. 4 to No. 8, Quad-Lock was easily adapted to integrate with these design specifications. The developers were also able to downsize the HVAC by 40%, another benefit of ICF construction.





"We chose Quad-Lock because of the complexity of the house. It is a very versatile product and as far as doing the angles, the changes in the wall thicknesses between 6" and 12", Quad-Lock was the better product." Harvey Ryan Turnstone Builders

"We believe that ICF homes will be the new high standard of coastal living." Dave Eppes

Turnstone Builders

Project Partners

- Owner/Developer: General Contractor: Architect: Engineer: Quad-Lock Dealer: Additional Partners:
- Turnstone Builders, DE Turnstone Builders Susan Frederick MacIntosh Cropper Concrete GNP Inc. Iron Works, Structural Steel Atlantic Concrete



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