

DELTEC Homes => HURRICANE Proof!

Deltec Homes Hurricane Survival Rate

Notable Cat. 5 Hurricanes	Sustained Wind Speed	Deltec Survival Rate
Hugo, 1989	160 mph	100%
Andrew, 1992	175 mph	100%
Wilma, 2005	185 mph	100%
Katrina, 2005	175 mph	100%
Matthew, 2016	165 mph	100%
Irma, 2017	185 mph	99.54%
Michael, 2018	155 mph	100%
Dorian, 2019	183 mph	98.6%

Anatomy of a High Wind & Hurricane Resistant Home



deltechomes.com
800.642.2508

All aspects of a Deltec home are ingeniously designed to work as a system, making it the smartest home you can build for high wind areas.

A. SHAPE
Aerodynamic circular building envelope works with nature, not against it

1. Wind can't build up enough pressure on any side to cause a structural failure
2. Reinforced clear span roof is at optimum pitch (6/12) for wind deflection and reduced lift
3. Circular structure transfers environmental loads most efficiently, with a high degree of redundancy providing extra resilience and performance during critical events



B. ENGINEERING
Creating a building envelope to resist high wind and provide safety to its occupants

4. Radial truss array in roof and floors work like spokes on a wheel
5. Potential energy from sustained winds is dispersed throughout the structure instead of building up in a single area

E. SUSTAINABILITY
Utilizing products and construction techniques that enhance livability in the event of a prolonged power outage

12. Solar water heater provides uninterrupted hot water
13. Enhanced insulation maintains a more balanced temperature inside the home
14. High wind rated reflective metal roofs helps reduce radiant heat gain in the home
15. Passive solar design helps heat and cool the building through appropriate shading and window placement

D. CONNECTIONS
Emphasis on maintaining continuous load paths and strong connections between the roof, exterior walls, floor systems and foundation

9. Oversized truss hangers keep roof system anchored to walls
10. Walls have multiple construction ties to the floor system for structural stability and to transfer shear forces
11. Continuous metal strapping from roof trusses to foundation helps maintain structural stability

C. MATERIAL EXCELLENCE
Merging superior materials with a superior design results in a stronger and more durable structure

6. Machine rated 2400 psi framing lumber used in trusses and walls is twice as strong as typical framing material
7. Five Ply 5/8" plywood sheathing used instead of OSB on exterior walls, roof and floors strengthens the home and prevents flying debris from penetrating the structural envelope of the home
8. Reinforced windows with impact glass prevent wind and water from entering the home



For more than (50) years - [DELTEC Homes](#) (of North Carolina) - has designed, engineered, and built, unique, [ROUND homes](#) - in order to fight off **Global Warming**, and to withstand the very harshest of hurricane weather conditions.

Deltec offers its buyers over 1-million different design possibilities, with its one-of-a-kind “roof system” - that stabilizes its homes - built from the highest quality materials - to protect their home owners from severe weather threats [with most of the highest, being **CATEGORY (5) HURRICANES** - during June thru Nov].

NOTE: I personally, have no financial interest with DELTEC, whatsoever. However, my son (in PEI, Canada) did choose Deltec Homes to build “his” Round (**ROTATING!**) home. If you’d like to “see” it - click on my PIC. >>> 😊

