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The ten key principles of cyclone resistant construction Choose the location carefully to avoid the full force of the wind or flood Use building layout with a simple regular shape, to avoid concentration of pressure. Build the roof at an angle of 30° to 45° to prevent it being lifted off by the wind.

An Australian duo has created a series of cyclone-resistant prefabricated shelters for remote communities in Vanuatu. The buildings are adapted from a prefabricated, recycled plastic house prototype, named Nev House, which are designed by Ken McBryde, a principal at Hassell. Thirteen school and community halls and a medical clinic were recently installed on the remote Tanna Island in an effort help rebuild the island after it was devastated by Cyclone Pam in March 2015.

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Australia's Cyclone-Resistant Home. In the tropical climate of Far

North Queensland, Australia, cyclones regularly threaten the homes and lives of residents. Charles Wright Architects built the Stamp Home in FNQ as a safe shelter from cyclones that is also environmentally friendly. The Stamp House is situated on a tiny island in the middle of a pond, accessed by a long walkway over the pond.

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Courtesy of Marvel Architects. The Challenge. The aim of this proposal is to produce a minimal, ecologically-sensitive, and resistant alternative to post-disaster housing solutions.

Key principles of cyclone resistant construction The following care should be taken in designing buildings in cyclone-prone areas: Foundations should be deeper. R.C.C. framed structures are to be preferred over load-bearing structures. Sloping roofs should be avoided. Cantilever projections should be avoided.

Cyclone resistant building architecture. Source (s): National Disaster Management Authority (India) (NDMA) United Nations Development Programme - Headquarters (UNDP) This document addresses structures safety and durability in cyclone hazard prone areas. It details the procedure to follow to design a building that will be resistant to damages during high winds/cyclones, following the applicable Indian Standard Specifications for building materials and techniques.

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Demand was rapidly shrinking for the multi-million-dollar, 40,000-square-foot mansions the 28-year veteran of the Tampa building industry is known for. "With the huge houses, we didn't feel like the market was going in that direction forever," he says. "My partner and I and the people in our office wanted to move toward green building."

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