

Economical Solutions Solving a problem by utilizing a product with natural qualities suited for the task at hand will normally produce an economical solution to the problem. Using precast concrete products from Prestressed Casting Company in tornado resistant structures does exactly that.

FEMA Guidelines The application of FEMA guidelines in designing a tornado resistant structure can be challenging. The structure must be designed to resist enormous wind loads, uplift, and flying missile impact loads. Utilizing precast concrete products is an economical method of dealing with these unusual loading conditions.

Precast Design Precast concrete can be designed to meet these specialized FEMA requirements, often with only minor refinements to the normal reinforcing and connection design philosophy typically used in standard precast concrete construction. This can result in significant cost and schedule reductions on these special projects.

- Quality storm shelters constructed with standard precast concrete product shapes.
- Precast concrete decks can be designed to meet "flying missile" resistance criteria without the need for field placed topping.
- Engineering of the precast concrete elements to meet FEMA 361 requirements is part of Prestressed Casting Company's precast concrete package.
- The inherent weight of precast concrete products can be advantageous by reducing potential "up-lift" forces at the footings.
- Spans of up to 100'-0" are possible with a precast double tee roof system.

*"We found their work to be **quality** and their attitude **cooperative**; we would not hesitate to utilize their services again"*

- Tim A. Risley, A.I.A.
Tim A. Risley and Associates
Architects and Planners
Cook School Storm Shelter



Cook School Storm Shelter - Ft. Smith, Arkansas



Barling School Storm Shelter - Ft. Smith, Arkansas

TORNADO RESISTANT STRUCTURES

Buffalo Storm Shelter - Buffalo, Missouri




Prestressed Casting Co.