



# SECURITY IN A STAND-ALONE SAFE ROOM

**FOX BLOCKS** gives proven structural integrity, resiliency and security to combat any weather event.



## Fox Blocks Safe Room Solution

- FEMA & ICC compliant design specs for monolithic reinforced concrete flat wall assemblies
- Steel reinforcement connection at roof, floor slab and footing
- Tested wall assemblies for 4", 6", or 8", 3000 psi concrete cores, #4 rebar at 16" o.c. each way.
- Wall assembly protects as an air, vapor and water-resistant barrier
- Walls compliant, per ICC 500 & FEMA P316 as impenetrable to flying debris (250 mph wind speed)
- Engineered as a strong continuous load path, resistant to lateral loads
- Easy, quick and safe to install
- Does not promote mold or mildew
- Compatible for FEMA approved cast-in-place doors
- Design capability for any interior size, ceiling height and roof assembly



**FEMA**



Fox Blocks specifications and testing meet safe room standards for ICC-500 2021 and FEMA P-361 2021.

## THE FOX BLOCKS SAFE ROOM SOLUTION

Create a safe and secure enclosure from any severe weather event using the simple design technology of **FOX BLOCKS** reinforced concrete. An all-in-one assembly for comfort and family security as a stand-alone safe room or designed within your home.



# FOX BLOCKS

## SAFE ROOM ADVANTAGES

### Design Requirements

#### STRUCTURAL INTEGRITY



#### HIGH WINDS



**FOX BLOCKS** Advantages

Solid monolithic reinforced concrete provides a high structural capacity to resist in-plane shear forces with a continuous load path and resistance for all lateral loads – inward, outward, up-lift and down-lift. Reinforcement in the walls and steel connections to the roof, the floor slab and the in-ground footings.

#### FLYING DEBRIS



Designed, engineered and tested to resist wind speeds and wind gusts of 200 to 250 mph or more during hurricanes or tornadoes. The tested reinforced concrete design (minimum of #4 rebar at 16" o.c., horizon and vertical), withstands the lateral forces of the wind loads in all directions.

#### FLOODING



Flying debris in high wind events is the number one cause of damage and injury. Laboratory third-party testing per ICC 500 has shown that flying debris, such as a 15 lb, 2x4 shot at over 100 mph (equiv. to 250 mph wind speed) will not penetrate or damage a Fox Blocks wall assembly.

#### RESILIENCY



The monolithic concrete wall assembly is engineered to handle the lateral load for water. The concrete enclosure will protect the occupants from rain, flooding and storm surge.

#### SECURITY



The ability in the design of a Fox Blocks safe room provides the resiliency to resist a combination of severe weather events – hurricanes, tornado, floods, and fires. The military has successfully tested and recognized ICFs for resistance to explosions. The properties of Fox Blocks do not promote mold or mildew growth and create a safe indoor air environment.

A safe room is a trusted protective shelter for you and your family from any weather event. The ultimate security is from the probability of injury or even death by not being in this type of shelter. Design as a stand-alone safe room or a safe room within your home.

*Find more information on Safe Rooms on our website.*

**FOXBLOCKS.COM | TRUEGRIDPAVER.COM | 877.369.2562**