

# LightWise® VERTICAL ARCHITECTURAL SYSTEMS

## TORNADO RESISTANT WINDOWS

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YOU'LL FEEL SAFE AND SECURE KNOWING THIS  
WINDOW CAN RESIST WIND SPEEDS OF 250 MPH

Seves Glass Block has engineered a high-performance window that provides effective protection against air pressure and flying debris caused by tornado-force winds. The following information can assist you in the design and incorporation of these windows into your projects.

This window is the perfect choice for Safe Rooms, Community Shelters, Schools and Government Facilities. See what is happening outside the shelter while providing needed protection from the elements. LightWise® Architectural Systems Tornado Resistant Windows are factory assembled, steel framed glass block windows. Custom sizes are available.

- ASTM 330 - 08
- ICC/NSSA 500 - 08
- AAMA 520 & ASTM 2268
- Passed Air Pressure Tests (+309 / -413) psf
- Easy To Install & Available In Various Sizes
- Highest Standards of Performance For FEMA 361 / 320
  - Air Pressure & Tornado Missile Impact Test

# LightWise® VERTICAL ARCHITECTURAL SYSTEMS

TORNADO RESISTANT GLASS BLOCK WINDOWS



## Safety, Durability, & Light Transmittance:

LightWise® Architectural Systems Tornado Resistant Windows are extraordinarily versatile and available in various sizes. Utilizing laminated VISTABRIK® solid glass block with a steel frame and grid, this window requires minimal maintenance and is ideal for facilities where safety and security is critical.

LightWise® Architectural Systems Tornado Resistant Windows provide the needed protection from the elements while letting people see what is happening outside of the shelter, and letting daylight into a space that would otherwise rely on artificial light.

In accordance with FEMA 361, LightWise® Architectural Systems Tornado Resistant Windows passed several levels of air pressure tests including 309 positive psf and negative 413 psf. The 413 psf equates to a wind speed of over 400 mph. It is significant to note that the highest recorded wind speed on earth was 253 mph.

## Performance Features & Benefits:

- Effective protection against air pressure and flying debris caused by tornado-force winds
- Highest standard of performance for FEMA 361  
“Design and Construction Guidelines for Community Safe Rooms”
- Factory assembled for consistent quality

## This Factory Assembled Window Provides:

- Strength and durability of steel
- Beauty and strength of laminated VISTABRIK®
- Enhanced security with vision and light transmission
- Resistance to Tornado-force winds and flying debris
- Reduced on-site labor costs
- Protection from damaging UV rays

## Laminated VISTABRIK® Solid Glass Block:



Laminated VISTABRIK®  
- Clear



Laminated VISTABRIK®  
- Stippled

## Seves Glass Block Tornado Resistant Windows Are Manufactured To Meet The Following Standards:

- ASTM E283  
- Standard Test Method for Determining Rate of Air Leakage
- FEMA 361  
- Air Pressure and Tornado Missile Impact Test  
- Two hits: 15lbs., 2x4 @100 mph
- FWMA 320  
- Taking Shelter From the Storm:  
- Building a Safe Room For Your Home or Small Business
- ICC/NSSA 500–2008
- ASTM E330-02  
- Standard Test Method for Structural Performance
- Passed air pressure tests (+309/-413) psf., which equates to a wind speed of over 400 mph (with a 1.5 safety factor).



Steel frame with 8" x 8"  
Laminated VISTABRIK® Solid Glass Block.  
Patent Pending

*SEVES Glass Block has a sales and technical support team that is ready to help you design, engineer and specify glass block solutions.*