

EHPA

Tornado systems certified for Enhanced Hurricane Protection Areas



Overview

Allegion's EHPA offering is a hurricane solution, approved to withstand tornado impacts and pressures. It is available for flush single and pair applications.

EHPA shelters are identified in FBC and ICC500 for new K-12 and higher education facilities to designate portions of schools for use as emergency shelters. This solution provides certified emergency shelter and protection against tornadoes and tornado-strength hurricanes in those critical applications, for a minimum of 24 hours.

This offering has been tested to account for the impact and pressure needs of a tornado solution, along with the cyclic pressures accounted for in hurricane testing to protect areas with a higher likelihood of hurricane-related windstorms. It has been tested to ICC500, a standard specifically written around the design and construction of storm shelters, and complies with Florida Building Code, a comprehensive document addressing unique performance characteristics of hurricane-resistant construction.

Features and benefits

Performance and ratings

- Certified and labeled through Intertek to ICC500 and through the Florida Building Commission for EHPA compliance
- Tested with multiple impacts of 15 lb 2x4's at over 100mph as required by ICC 500 protocols and certified for tornado resistance by Intertek
- Tested to resist 250 MPH winds
- Tested to resist flying debris and multiple impacts from 15-pound 2x4's at over 100 MPH
- ITS/WHI Fire rated up to 3 hours

Certified Assemblies

Only with approved Allegion Hardware

- Von Duprin WS98/9927 2-point (single or rated pair) and WS98/9957 3-point (rated single)
- Schlage LM9300 Multipoint
- SB360 Surface bolt for inactive leaf

Ordering

- Available for from Steelcraft as Paladin PW doors and FP frames using Order Entry Works (OEW)
- Available for orders from Republic as DF Tornado doors and frames using Frontier

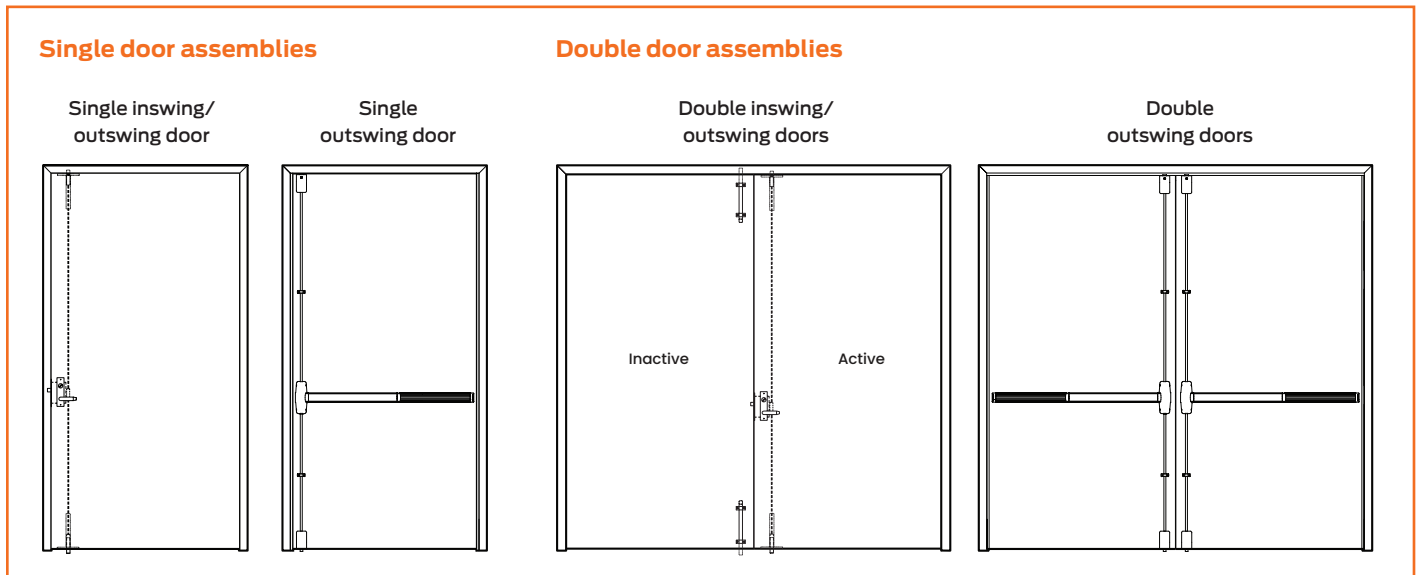
When to use EHPA

EHPA is defined by ICC 500, which requires compliance with higher impact levels than typical risk categories. EHPA shelters are required for new educational facilities in Florida, but also might be identified by the following scenarios:

- Hurricane assemblies identified to withstand tornado pressures and impacts or 250 mph wind zones in accordance with ICC 500
- Hurricane shelters, tornado shelters, or combined hurricane and tornado shelters
- Emergency shelters for new K-12 and Florida college educational facilities
- References to IBC 423, FBC 423.1, or FBC 453.25 and references to ICC 500 for Hurricane applications
- Requests for Level E or Risk Category IV with higher impact or pressure requirements
- Level D and E test with 9 pound 2x4's shot at 50 and 80 f/s respectively, while EHPA is shot with 15 pound 2x4's at 100 mph
- Level D or E Hurricane design pressures are often below 170 PSF while EHPA requires over 200 PSF
- Reference to EHPA or the FBC FL 41734.1 (Flush) or 41734.2 (glazed) listings
- FEMA 361 Tornadoes and Hurricanes is referenced
 - Note that the hurricane-only solution referenced in "FEMA 361 Safe Rooms for Tornadoes and Hurricanes" includes tornado and hurricane criteria so reference to FEMA for Hurricanes may not be indicative of EHPA

Excluded from our EHPA approved offering

- Glass Lights are not yet compliant with EHPA but can be used for resistance without certification (ICC500 label only)
- Shutters
- Securitech hardware



About Allegion

Allegion (NYSE: ALLE) is a global pioneer in seamless access, with leading brands like CISA®, Interflex®, LCN®, Schlage®, SimonsVoss® and Von Duprin®. Focusing on security around the door and adjacent areas, Allegion secures people and assets with a range of solutions for homes, businesses, schools and institutions.

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