

Storm Rated Doors and Certifications

Fib-R-Dor fiberglass door systems meet Florida building code approval, ASTM standard for Airblast Loading and GSA test for Dynamic Overpressure Loadings. Plus at 2 million and counting, Fib-R-Dor has far surpassed the ANSI One Million Cycle Test!



Fib-R-Dor door systems meet and exceed the stringent requirements of the Florida Building Code (FBC), International Residential Code (IRC), and the Texas Department of Insurance for hurricane rated openings. The International Building Code (IBC) and International Residential Code (IRC) are the model codes for the 2007 Florida Building Code and the soon to be adopted 2010 Florida Building Code. Contained within the building code are specific sections relating to design pressure calculation, testing and evaluation of products to be used in hurricane prone regions.

Chapter 16 of the Florida Building Code stipulates that the wind loads on every building be determined in accordance with ASCE 7. ASCE 7 determines design pressures for components and cladding used on building envelopes based on parameters such as geographic location, wind speed, importance of the building use and location of the opening on the building and size of the opening.

ASTM E1886/1996 is a standard that was created to ensure that products installed in coastal regions will provide adequate protection against the extreme weather conditions that are common with a hurricane. To meet the ASTM E1886/1996 standard, the door system must act as a barrier to water, maintain structural integrity under high wind conditions, including cycling from extreme positive to extreme negative pressures, and pass a "missile test" where a projectile is fired at the door panel at a high rate of speed.

Fib-R-Dor "FBC Series" is approved for use in the State of Florida under Florida Product Approval # FL14551 and meets the following codes:

ASTM Test

ASTM E1886 - Impact testing by missile and cyclic pressure differential test

ASTM E1996 - Large missile impact testing

ASTM E330 - Wind load testing of windows and doors by static air pressure difference

ASTM E331 - Water penetration testing

ASTM E283 - Air leakage testing by air pressure differences

ASTM D635-03 - Rate and extent of burning test

ASTM D1929-96 - Ignition temperature test

ASTM D2843-99 - Smoke density from burning test

Cycle Test

ANSI A250.4-2001 - Acceptance criteria for physical endurance for steel doors, frames, frame anchors and hardware reinforcement

Airblast Loading

ASTM F 1642-04 - Standard test method for Airblast Loading

GSA-TS01-2003 - US General Service Administration standard test method for Dynamic Overpressure Loadings