

StormPro® Tornado Resistant Assemblies UL Classified to ICC500 - 2014



StormPro® Tornado Resistant Assemblies from Ceco Door are designed to withstand debris from tornado-force winds and can help save lives.

The extra heavy duty StormPro® assemblies help to fortify the opening to withstand extreme wind speeds and flying debris during a tornado. StormPro doors and frame assemblies meet the requirements for fire protection, ICC 500-2014 and FEMA guidelines.

Sustained winds of 130 mph to 250 mph are generally associated with tornadoes. Building owners in tornado-prone areas must take proper precautions to protect occupants. Damage can be caused by flying debris (referred to as windborne missiles). If wind speeds are high enough, missiles can be propelled at a building with enough force to penetrate windows, walls or the roof. An object such as a 2" x 4" wood stud weighing 15 pounds, when carried by a 250-mph wind, can have a horizontal speed of 100-mph. The resulting impact force will penetrate the most commonly used building materials.

Ceco Door developed StormPro® products to resist missile penetration of buildings designed as shelters to protect occupants from injury. Today, StormPro® assemblies are available in either an in swing or out swing design, in single or paired door openings.

Applications:

- Community Shelters
- Safe Rooms
- Corporate Campuses
- Schools and Government Facilities

Features:

- UL classified to ICC 500-2014, up to 4'0" x 8'0" singles and 8'0" x 8'0" pairs
- Assemblies are UL Certified for up to and including 3 hour fire ratings
- Single and paired shutter options with three or four sided frames available

ASSA ABLOY StormPro® Assemblies Meet UL Certification for Fire, ICC 500-2014 and FEMA Guidelines

| Locking Hardware Series Description | Configuration | Mullion / Astragal | FEMA Designation | Min and Max Size | 3 Hr. Max Fire rating | Door Core | Min Door - Frame Gauge | Frame Depth Min - Max | Max Impact Energy Resistance (ft-lbs) | Max Design Pressure |
|--|---------------------------|-------------------------------|------------------|----------------------------|----------------------------|--|------------------------|-----------------------|---------------------------------------|-----------------------|
| Corbin Russwin FE6600 Series or SARGENT FM7300 Series Multi-point Locks | Single In Swing Out Swing | N/A | 320 & 361 | 2'8" x 7'0" 4'0" x 8'0" | 2'8" x 7'0" 4'0" x 8'0" | Polyurethane Honeycomb | 14 - 14 | 4 - 14 | 15 lb 2x4 at 100 mph | +/- 252 psf |
| Corbin Russwin FE6600 Series or SARGENT FM7300 Series Multi-point Locks with SARGENT 988 Series or Corbin Russwin 988CR Series Surface Bolts | Pair In Swing Out Swing | Flat Plate Astragal | 320 & 361 | 5'4" x 7'0" 8'0" x 8'0" | 5'4" x 7'0" 8'0" x 8'0" | Polyurethane Honeycomb | 14 - 14 | 4 - 14 | 15 lb 2x4 at 100 mph | +/- 252 psf |
| SARGENT FM8700 Series Surface Vertical Rod | Single Out Swing | N/A | 361 | 3'0" x 6'8" 4'0" x 8'0" | 3'0" x 6'8" 4'0" x 8'0" | Polystyrene Honeycomb | 16 - 14 | 5-3/4 - 14 | 15 lb 2x4 at 100 mph | +/- 284 psf +246/-225 |
| SARGENT FM8700 Series Surface Vertical Rod | Pair Out Swing | N/A | 361 | 6'0" x 6'8" 8'0" x 8'0" | 6'0" x 6'8" 8'0" x 8'0" | Polystyrene Honeycomb | 16 - 14 | 5-3/4 - 14 | 15 lb 2x4 at 100 mph | +/- 284 psf +246/-225 |
| Corbin Russwin FE5400S Series Multi-point Exit | Single Out Swing | N/A | 361 | 3'0" x 6'8" 4'0" x 8'0" | 3'0" x 6'8" 4'0" x 8'0" | Polystyrene Honeycomb | 16 - 14 | 4 - 14 | 15 lb 2x4 at 100 mph | +/-284 psf |
| Corbin Russwin FE5400S Series Multi-point Exit | Pair Out Swing | Corbin Russwin FE707A/ FE708A | 361 | 6'0" x 6'8" 8'0" x 8'0" | 6'0" x 6'8" 8'0" x 8'0" | Polystyrene Honeycomb | 16 - 14 | 5-1/2 - 14 | 15 lb 2x4 at 100 mph | +/-284 psf |
| Corbin Russwin FE6700 Series or SARGENT FM6100 Series Multi-point Locks | Shutter Single In Swing | N/A | 361 | 2'6" x 3'0" 4'0" x 6'8" | 2'6" x 3'0" 4'0" x 6'8" | Polystyrene Fire Rated Steel stiffened | 16 - 14 | 4 - 14 | 15 lb 2x4 at 100 mph | +/- 284 psf |
| Corbin Russwin FE6700 Series or SARGENT FM6100 Series Multi-point Locks | Shutter Pair In Swing | N/A | 361 | 5'0" x 4'0" 8'0" x 6'8" | N/A | Polystyrene | 16 - 14 | 4 - 14 | 15 lb 2x4 at 100 mph | +/- 284 psf |
| 3 Medeco Maxum Deadbolts and SARGENT 10 Line Series 10 x 10 Lite Available | Single In Swing | N/A | 320 | 2'8" x 6'8" 3'0" x 7'0" | N/A | Steel Stiffened | 14 - 16 | 4 - 14 | 15 lb 2x4 at 100 mph | +/-252 psf |

Important Notes and Options

- Frame head face: 2" standard, optional 4"
- Communicating frame option with multi-point lock
- Anchors: masonry and existing opening
- Material: galvannel or cold rold steel
- Lock hardware: electronic trims available with ElectroLynx® Connectors (Reference hardware templates for details)
- Hinges: McKinney SP 4-1/2" HW steel hinges minimum, McKinney steel continuous hinge optional
- Undercut: determined by door condition (reference hardware template for details)
- Other hardware options include closers, stop/holder, kick plates, position switches, power transfers, rod guards, and viewers

Test Procedures

- ICC 500 - 2014, Standard for the Design, Construction and Performance of Storm Shelters. National Storm Shelter Association (NSSA)

FEMA Guidelines

- FEMA 361, "Design and Construction Guidance for Community Shelters", Federal Emergency Management Agency, August 2015
- FEMA 320 "Taking Shelter from the Storm" August 2014

Ceco Door

9159 Telecom Drive • Milan, TN 38358
Tel (888) 232-6366 • Fax (888) 232-6462
archhelp@cecodoor.com
www.cecodoor.com

Corbin Russwin FE6600 and SARGENT FM7300 concealed vertical rods, top and bottom bolts, and mortise lock body cassette must be factory installed in a Ceco StormPro door. All other hardware components are shipped directly from SARGENT or Corbin Russwin and must be installed by a factory trained installer. **Important: do not remove any hardware blocking or filler plates in the door or the frame until the mortise lock is ready to be installed.**

ASSA ABLOY, the global leader
in door opening solutions

Ceco is a brand associated with AADG, Inc., an ASSA ABLOY Group company. Copyright © 2018, AADG, Inc. All rights reserved. Reproduction in whole or in part without the express written permission of AADG, Inc. is prohibited.