StormPro® Tornado Resistant Assemblies UL Classified to ICC500 - 2014

Ceco Door
ASSA ABLOY

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 helps 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 tornados. 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
- Shutter options with three and 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	3'0" x 7'0" 4'0" x 8'0"	3'0" 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	6'0" x 70" 8'0" x 80"	6'0" x 70" 8'0" x 80"	Polyurethane Honeycomb	14 - 14	4 - 14	15 lb 2x4 at 100 mph	+/- 252 psf
Corbin Russwin FE6700 Series or SARGENT FM6100 Series Multi-point Locks	Shutters In Swing	N/A	361	2'8" x 3'0" 4'0" x 6'8"	N/A	Polystyrene	16 - 14	4 - 14	15 lb 2x4 at 100 mph	+/- 284 psf
SARGENT FM8700 Series Surface Vertical Rod	Single Out Swing	N/A	361	3'0" x 7'0" 4'0" x 8'0"	3'0" x 7'0" 4'0" x 8'0"	Polyurethane 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 7'0" 8'0" x 8'0"	6'0" x 7'0" 8'0" x 8'0"	Polyurethane 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 7'0" 4'0" x 8'0"	3'0" x 7'0" 4'0" x 8'0"	Polyurethane 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 7'0" 8'0" x 8'0"	6'0" x 7'0" 8'0" x 8'0"	Polyurethane Honeycomb	16 - 14	5-1/2 - 14	15 lb 2x4 at 100 mph	+/-284 psf
3 Medeco Maxum Deadbolts and SARGENT 10 Line Series 10 x 10 Lite Avaliable	Single In Swing	N/A	320	3'0" 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"
- 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)

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

ASSA ABLOY, the global leader in door opening solutions