**1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH SARGENT FM8700 SURFACE VERTICAL ROD EXIT DEVICE**

**DOOR:**
MIN. 3'-0" x 6'-8", MAX. 4'-0" x 8'-0" SINGLES or MIN. 6'-0" x 6'-8", MAX. 8'-0" x 8'-0" PAIRS,
14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WITH 14 GA TOP & BOTTOM CHANNELS,
WELDED TOP CAP AND POLYSTYRENE CORE.

**EXIT DEVICE:**
SARGENT FM8700 SERIES SURFACE VERTICAL ROD.

**CLOSER:**
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

**HINGES:**
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

**OPTIONAL HARDWARE AND ACCESSORIES:**
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED
ON PAGES D17A-10 AND D17A-11.

**OPTIONAL FIRE RATING:**
UP TO AND INCLUDING 3 HRS IN ACCORDANCE WITH UL 10B, UL 10C,
UL 1784, & NFPA 252 FOR HONEYCOMB CORE DOORS ONLY.

**UL CLASSIFIED TO:**
  and Residential Safe Rooms"
- FEMA P-320 (2014) "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Buisness"

**NOTE:**
7/8" heights & above (4) hinges are required when using butt hinges below 7/8" heights
(3) hinges are required when using butt hinges

*(4) THERMAL PINS REQUIRED IN LOCK EDGE OF DOOR AND JAMB ON SINGLE FIRE RATED OPENINGS ONLY. (PINS SUPPLIED BY OTHERS) FOR FIELD PREP INSTRUCTIONS SEE HARDWARE MANUFACTURER’S INSTALLATION DOCUMENTS.*

**SUGGESTED USE:**
- DISASTER AND TORNADO SHELTERS
- STORM SHELTERS
- COMMUNITY SHELTERS
- SCHOOL SHELTERS
- SCHOOL SHELTERS
- RESIDENTIAL "SAFE" ROOMS

**DESIGN PRESSURES, ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES. DESIGN PRESSURE MAY BE LIMITED TO +246/-225 PSF AND TEST PRESSURE MAY BE LIMITED TO +296/-270 PSF.**

**DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.**

**FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE**

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<td>FEMA 361/320</td>
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<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
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**Experience a safer**

and more open world
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT GLAZED DOOR & FRAME WITH SARGENT FM8700 SURFACE VERTICAL ROD EXIT DEVICE

DOOR:
MIN. 3’-0" x 6’-8", MAX. 4’-0" x 8’-0" SINGLES or MIN. 6’-0" x 6’-8", MAX. 8’-0" x 8’-0" PAIRS, 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WITH 14 GA TOP & BOTTOM CHANNELS, WELDED TOP CAP AND POLYSTYRENE CORE.

EXIT DEVICE:
SARGENT FM8700 SERIES SURFACE VERTICAL ROD.

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED Hinges ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTE FOR GLAZED OPENINGS.
IN ACCORDANCE WITH UL 10B, UL 10C, UL 1784, & NFPA 252 FOR HONEYCOMB CORE DOORS ONLY.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction of ‘Storm Shelters’"
• FEMA P-320 (2014) "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Business"

SUGGESTED USE:
DISASTER AND TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL SAFE ROOMS
RESIDENTIAL "SAFE" ROOMS

D17A-11

10" x 10" VISIBLE GLASS ONLY

CONTRAFLAM ULTIMAX 90 MUST BE FACTORY INSTALLED.
GLASS THICKNESS IS 2-1/16" NOMINAL.
GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.

GLASS NOMINALLY CENTERED IN WIDTH AND LOCATED 60-1/8" ABOVE
DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MULTIPLE LITES NOT ALLOWED.

(4) THERMAL PINS REQUIRED IN LOCK EDGE OF DOOR AND JAMB ON SINGLE FIRE RATED OPENINGS ONLY. (PINS SUPPLIED BY OTHERS) FOR FIELD PREP INSTRUCTIONS SEE HARDWARE MANUFACTURER’S INSTALLATION DOCUMENTS.

5/8" DOOR UNDERCUT
1/8" MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE
BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE
FLOOR MUST BE Poured LEVEL AND FRAME MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.

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DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

**FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE**
ASSA ABLOY

1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME
WITH SARGENT FM8700 SURFACE VERTICAL ROD EXIT DEVICE

Frame Profile Options and Parameters

NOTES:
- FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS
- BACKBENDS FOR 5-3/4" DEPTH MAY BE 7/16", WHICH MEANS THE THROAT WOULD BE 4-7/8".
- SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBET.
- FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.
- SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.
- FRAMES ARE 14 GAGE HOT-DIPPED GALVANNEALED OR COLD ROLLED STEEL.
- FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.
- OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

FRAME HEAD ANCHOR LOCATIONS:
SEE PAGE D17A-8 AND/OR D17A-9

FRAME HEAD ANCHOR LOCATIONS:
SEE PAGE D17A-8 AND/OR D17A-9

HORIZONTAL SECTIONS

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
ASSA ABLOY
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME
WITH CORBIN RUSSWIN FE5400S SURFACE MULTI POINT EXIT DEVICE

DOOR:
MIN. 3'-0" X 6'-8", MAX. 4'-0" X 8'-0" SINGLES or MIN. 6'-0" X 6'-8", MAX. 8'-0" x 8'-0" PAIRS,
14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WITH 14 GA. TOP & BOTTOM CHANNELS,
WELDED TOP CAP AND POLYSTYRENE CORE.

EXIT DEVICE:
CORBIN RUSSWIN FE5400S SERIES

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 3 HRS IN ACCORDANCE WITH UL 10B, UL 10C,
UL 1784, & NFPA 252 FOR HONEYCOMB CORE DOORS ONLY.

SUGGESTED USE:
DISASTER AND TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL "SAFE" ROOMS
RESIDENTIAL "SAFE" ROOMS

DOOR DESIGN

MULLION:
CORBIN RUSSWIN FE707A or FE708A

UL CLASSIFIED TO:
- FEMA P-320 (2014) "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Business"

- 5/8" DOOR UNDERCUT
- 1/8" MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE
- BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE.
- FLOOR MUST BE Poured LEVEL AND FRAME MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm

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ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

**FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE**

Experience a safer
and more open world
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT GLAZED DOOR AND FRAME WITH CORBIN RUSSWIN FE5400S SURFACE MULTI POINT EXIT DEVICE

DOOR:
MIN. 3'-0" X 6'-8", MAX. 4'-0" X 8'-0" SINGLES or MIN. 6'-0" X 6'-8", MAX. 8'-0" X 8'-0" PAIRS,
14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WITH 14 GA. TOP & BOTTOM CHANNELS,
WELDED TOP CAP AND POLYSTYRENE CORE.

EXIT DEVICE:
CORBIN RUSSWIN FE5400S SERIES

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE WITH UL 10B, UL 10C,
UL 1784, & NFPA 252 FOR HONEYCOMB CORE DOORS ONLY.

UL CLASSIFIED TO:

SUGGESTED USE:
DISASTER AND TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL “SAFE” ROOMS
RESIDENTIAL “SAFE” ROOMS

10’x10’ VISIBLE GLASS ONLY
CONTRAPLAM ULTIMAX 90 MUST BE FACTORY INSTALLED.
GLASS THICKNESS IS 2-1/16” NOMINAL.
GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.
GLASS NOMINALLY CENTERED IN WIDTH AND LOCATED 60-1/8” ABOVE DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MULTIPLE LITES NOT ALLOWED.

5/8" DOOR UNDERCUT
1/8” MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE
BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE.
FLOOR MUST BE Poured LEVEL AND FRAME MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.

Conversion: 1” = 25.4 mm, e.g., 1-3/4” = 44.45 mm

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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

**Frames are not required to be grouted when using existing wall jamb anchors or when welded to building structure**
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH CORBIN RUSSWIN FE5400S SURFACE MULTI POINT EXIT DEVICE

Frame Profile Options and Parameters

NOTES:
* FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS
** BACKBENDS FOR 5-3/4" DEPTH MAY BE 7/16", WHICH MEANS THE THROAT WOULD BE 4-7/8".
SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBET.
FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.
SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.
FRAMES ARE 14 GAUGE HOT-DIPPED A60 GALVANNEALED OR COLD ROLLED STEEL.
FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE SHOWN ON PAGES D17A-10 AND D17A-11.

FRAME HEAD ANCHOR LOCATIONS:
SEE PAGE D17A-8 AND/OR D17A-9

JAMB ANCHOR LOCATIONS:
SEE PAGE D17A-9 AND/OR D17A-9

HORIZONTAL SECTIONS
"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm

Experience a safer and more open world
ASSA ABLOY
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH
CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

DOOR:
MIN. 2'-8" x 6'-8", MAX. 4'-0" x 8'-0" LEAF SIZE, 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS,
WELDED TOP CAP AND WITH POLYSTYRENE CORE.
POLYURETHANE CORE MAY BE PROVIDED AT FACTORY DISCRETION.

LOCK:
CORBIN RUSSWIN FE6600 SERIES OR SARGENT FM7300 SERIES

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES
ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTES IN ACCORDANCE, WITH UL10B,
UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SUGGESTED USE:
DISASTER & TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL “SAFE” ROOMS
RESIDENTIAL “SAFE” ROOMS

- Corbin Russwin FE6600 & Sargent FM7300 concealed vertical rods, top & bottom bolts, & mortise lock body casette must be factory installed in a CECO StormPro door. All other hardware components are shipped directly from Sargent or Corbin Russwin & must be installed by a factory trained installer.
- IMPORTANT: DO NOT REMOVE ANY HARDWARE BLOCKING OR FILLER PLATES IN DOOR & THE FRAME UNTIL THE MORTISE LOCK IS READY TO BE INSTALLED.

UL CLASSIFIED TO:
- FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

- 3/8" DOOR UNDERCUT
- 3/8" MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
- WHEN USING 3-SIDED FRAMES, BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE.
- WHEN USING 3-SIDED FRAMES, BOTTOM STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
- FLOORS MUST BE POURLED LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
- 4-SIDED FRAMES ARE OPTIONAL.
- DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

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DESIGN PRESSURES, ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES. DESIGN PRESSURE MAY BE LIMITED TO +/-252 PSF AND TEST PRESSURE MAY BE LIMITED TO +/-302 PSF. ASSEMBLIES MAY BE LIMITED TO 30"x70" MINIMUM SIZE.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

Experience a safer and more open world
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT GLAZED DOOR & FRAME
WITH CORBIN RUSSWIN FE6600 OR SARGENT FM7300 CONCEALED MULTI POINT LOCK

DOOR:
MIN. 2'-8" x 6'-8", MAX. 4'-0" x 8'-0" LEAF SIZE, 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAP AND WITH POLYSTYRENE CORE.

LOCK:
CORBIN RUSSWIN FE6600 SERIES OR SARGENT FM7300 SERIES

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTES IN ACCORDANCE, WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR LOCATIONS.

10"x10" VISIBLE GLASS ONLY
CONTRAFLAM ULTIMAX 90 MUST BE FACTORY INSTALLED.
GLASS THICKNESS IS 2-1/16" NOMINAL. GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.
GLASS NOMINALLY CENTERED IN WIDTH AND LOCATED 60-3/8" ABOVE DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MULTIPLE LITES NOT ALLOWED.

- 3/8" DOOR UNDERCUT
- 3/8" MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
- WHEN USING 3-SIDED FRAMES, BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE.
- WHEN USING 3-SIDED FRAMES, BOTTOM STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
- FLOORS MUST BE Poured LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
- 4-SIDED FRAMES ARE OPTIONAL.
- DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

UL CLASSIFIED TO:
* ICC 500(2014) "ICC/NSSA Standard for the Design and Construction or Storm Shelters"
* FEMA P-361 (2015) "Safe Rooms for Tornados & Hurricanes: Guidance for Community and Residential Safe Rooms"
* FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.
DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE" (Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
Frame Profile Options and Parameters

1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK


Frame Profile Options and Parameters

** NOTES: **
* Minimum depth available in 1/8" increments
** Minimum depth applies to all anchor conditions except existing opening anchors. Minimum depth for existing opening anchors is 4-5/8".
** Backbends for 5-3/4" depth may be 7/16", which means the throat would be 4-7/8".
** Minimum depth applies to all anchor conditions except existing opening anchors. Minimum depth for existing opening anchors is 5".

Smaller depths may require existing opening anchors to be located on the door rabbit.

Frames are not required to be grouted when using existing wall jamb anchors or when welded to building structure.

See pages D17A-8 & D17A-9 for all anchor quantities & locations.

Frames are 14 gage hot-dipped A60 galvannealed or cold rolled steel.

Frames may be knock down or welded corners.

See frame elevation below for hinge quantities, locations and opening sizes.

Approved hardware and accessories are listed on pages D17A-10 and D17A-11.

4-sided frames are optional.

See page D17A-8 and/or D17A-9 for all anchor locations.

# Assemblies may be limited to 30"x70" minimum size for compliance with domestic government sourcing regulations, trade agreements or acquisition policies.

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT COMMUNICATING SINGLE DOOR & FRAME WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

ALL INFORMATION ON THIS PAGE APPLIES TO THE STORMPRO ASSEMBLY

DOOR:
MIN. 2'-6" x 6'-9", MAX. 4'-0" x 8'-0" LEAF SIZE, 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAP AND WITH POLYSTYRENE CORE. POLYURETHANE CORE MAY BE PROVIDED AT FACTORY DISCRETION.

LOCK:
CORBIN RUSSWIN FE6600 SERIES OR SARGENT FM7300 SERIES

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.
NON-STORMPRO DOORS DO NOT REQUIRE THE SAME HARDWARE, QUANTITIES OR LOCATIONS AS THE STORMPRO DOORS.

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 3 HRS IN ACCORDANCE, WITH UL10B, UL10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SUGGESTED USE:
*Corbin Russwin FE6600 & Sargent FM7300 concealed vertical rods, top & bottom bolts, & 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 & must be installed by a factory trained installer.

*IMPORTANT: DO NOT REMOVE ANY HARDWARE BLOCKING OR FILLER PLATES IN DOOR & THE FRAME UNTIL THE MORTISE LOCK IS READY TO BE INSTALLED.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction of Storm Shelters"
• FEMA P-361(2015) "Safe Rooms for Tornados & Hurricanes: Guidance for Community and Residential Safe Rooms"
• FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

• 3/8" DOOR UNDERCUT
• 3/8" MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
• BOTTOM STRIKE MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLT TO PROPERLY ENGAGE STRIKE.
• BOTTOM STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
• FLOORS MUST BE Poured LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
• DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

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DESIGN PRESSURES, ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES. DESIGN PRESSURE MAY BE LIMITED TO +/-252 PSF AND TEST PRESSURE MAY BE LIMITED TO +/-302 PSF. ASSEMBLIES MAY BE LIMITED TO 3'0"x7'0" MINIMUM SIZE.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE."

(Conversion: 1' = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
ALL INFORMATION ON THIS PAGE APPLIES TO THE STORMPRO ASSEMBLY

DOOR:
MIN. 2'-8" x 6'-8", MAX. 4'-0" x 8'-0" LEAF SIZE, 14 GA. A60
GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAP AND
WITH POLYSTYRENE CORE.

LOCK:
CORBIN RUSSWIN FE6600 SERIES OR SARGENT FM7300 SERIES

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.
NON-STORMPRO DOORS DO NOT REQUIRE THE SAME HARDWARE,
QUANTITIES OR LOCATIONS AS THE STORMPRO DOORS.

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES
ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE, WITH UL10B,
UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

10"x10" VISIBLE GLASS ONLY
CONTRAFLAM ULTIMAX 90 MUST BE FACTORY INSTALLED.
GLASS THICKNESS IS 2-1/16" NOMINAL.
GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.
GLASS NOMINALLY CENTERED IN WIDTH AND LOCATED 60-3/8" ABOVE
DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MULTIPLE LITES NOT ALLOWED.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction or Storm Shelters"
• FEMA P-361(2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
• FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR
ACQUISITION POLICIES.

DEIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS, DEVELOPED TO RESIST MISSILE
PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS
FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

“FRAMES ARE NOT REQUIRED TO BE GROOVED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.”

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT COMMUNICATING SINGLE STORMPRO DOOR & FRAME WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 MULTI POINT LOCK


Frame Profile Options and Parameters

**NOTES:**

* FRAME DEPTHS AVAILABLE IN 1/8” INCREMENTS
  
  **MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT OPENING ANCHORS. MINIMUM DEPTH FOR OPENING ANCHORS IS 5”, DEPTHS MAY ALSO BE LIMITED BY STORMPRO DOOR AND NON-STORMPRO DOOR HARDWARE.
  
  SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBET.
  
  FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.
  
  SEE PAGES D17A–8 & D17A–9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.
  
  FRAMES ARE 14 GAGE HOT-DIPPED GALVANIZED OR COLD ROLLED STEEL.
  
  FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.
  
  SEE FRAME ELEVATION BELOW FOR HINGE QUANTITIES, LOCATIONS AND OPENING SIZES. NON-STORMPRO FRAMES DO NOT REQUIRE THE SAME HARDWARE, QUANTITIES OR LOCATIONS AS THE STORMPRO FRAMES.
  
  HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A–10 AND D17A–11. 4-SIDED FRAMES ARE NOT ALLOWED.
  
  WHEN DETERMINING FRAME DEPTH, CONSIDERATION SHOULD BE GIVEN REGARDING IF THE DEPTH WILL ACCOMMODATE HARDWARE INSTALLED ON BOTH THE PASSAGE DOOR AND STORMPRO DOOR.
  
  MINIMUM FRAME DEPTHS SHOWN ON THIS PAGE ARE FOR STORMPRO LIMITS, BUT MAY NOT ACCOMMODATE HARDWARE INSTALLED ON BOTH THE STORMPRO AND PASSAGE DOOR.

#ASSEMBLIES MAY BE LIMITED TO 30” X 70”
MINIMUM SIZE FOR COMPLIANCE WITH DOMESTIC GOVERNMENT SOURCING RESTRICTIONS, TRADE AGREEMENT OR ACQUISITION POLICIES.

StormPro® door assembly with Corbin Russwin FE6600 or Sargent FM7300 latching hardware

Any non-classified door assembly including, but not limited to: Hollow Metal/Wood/FRP Flush/Entranced/Si6e & Rail Glazed/Non-Glazed

SAME JAMB SWING (THREAT) SIDE

StormPro® door assembly with Corbin Russwin FE6600 or Sargent FM7300 latching hardware

Any non-classified door assembly including, but not limited to: Hollow Metal/Wood/FRP Flush/Entranced/Si6e & Rail Glazed/Non-Glazed

INTERIOR (SAFE) SIDE

EXTERIOR (THREAT) SIDE

See page D17A–8 and/or D17A–9 for all anchor locations.

9”

$2’9” x 6’8” THRU 4’0” x 8’0”

STORMPRO ONLY
72” heights & above 18” hinges are required when using butt hinges below 72” heights
18” hinges are required when using butt hinges

See page D17A–9 for approved StormPro hinges

HINGE SAME JAMB SHOWN

SINGLE SWING

3 1/2” ACTUAL LEAF WIDTH

1” DOOR OPENING WIDTH

HORIZONTAL SECTION
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT PAIRS WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI-POINT LOCK

DOORS:
MIN. 5'-0" x 6'-8", MAX. 8'-0" x 8'-0" OPENING SIZE. 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAP AND WITH POLYSTYRENE CORE. POLYURETHANE CORE MAY BE PROVIDED AT FACTORY DISCRETION.

LOCK:
CORBIN RUSSWIN FE6600 SERIES or SARGENT FM7300 SERIES

INACTIVE DOOR SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 988, OR YALE 988Y

CLOSER:
APPROVED CLOSETES ARE LISTED ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 3 HRS IN ACCORDANCE WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR LOCATIONS.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction of Storm Shelters"
• FEMA P-361(2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
• FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

"FRAMES ARE NOT REQUIRED TO BE GROUNDED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

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DESIGN PRESSURES, ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES. DESIGN PRESSURE MAY BE LIMITED TO +/-252 PSF AND TEST PRESSURE MAY BE LIMITED TO +/-302 PSF. ASSEMBLIES MAY BE LIMITED TO 60"x70" MINIMUM SIZE.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

Experience a safer and more open world
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT GLAZED PAIRS WITH
CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

DOORS:
MIN. 5'-4" x 6'-8", MAX. 8'-0" x 8'-0" OPENING SIZE. 14 GA. A60 GALVANNEALED OR COLD ROLLED
FACE SHEETS, WELDED TOP CAP AND WITH POLYSTYRENE CORE.

LOCK:
CORBIN RUSSWIN FE6600 SERIES or SARGENT FM7300 SERIES

INACTIVE DOOR SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 988, OR YALE 988

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A–11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A–11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A–10 AND D17A–11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE WITH UL 10B,
UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SEE PAGES D17A–8 & D17A–9 FOR ALL ANCHOR LOCATIONS.

10"x10" VISIBLE GLASS ONLY
CONTRAFLAM ULTIMAX 90 MUST BE FACTORY INSTALLED. GLASS THICKNESS IS 2-1/16" NOMINAL. GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.
GLASS NOMINALLY CENTERED IN WIDTH AND LOCATED 60-3/8" ABOVE DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MUTIPLE LITES NOT ALLOWED.

3/8" DOOR UNDERCUT
3/8" MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
WHEN USING 3-SIDED FRAMES, BOTTOM STRIKES MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLTS TO PROPERLY ENGAGE STRIKES.
WHEN USING 3-SIDED FRAMES, BOTTOM LOCK STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
FLOORS MUST BE Poured LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
4-SIDED FRAMES ARE OPTIONAL.
DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

10 GAGE FLAT PLATE ASTRAGAL STRIP IS OPTIONAL AND WOULD BE FACTORY ATTACHED WITH SCREWS TO THE THREAT SIDE OF THE ACTIVE OR INACTIVE DOOR, DEPENDING ON IN SWING OR OUT SWING APPLICATION.

UL CLASSIFIED TO:
* ICC 500(2014) "ICC/NSSA Standard for the Design and Construction or Storm Shelters"
* FEMA P-361(2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
* FEMA P-320 (2014) "Taking Shelter from the storm: Buildng a Safe Room for Your Home or Small Buisness"

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm

Experience a safer
and more open world
1-3/4\" StormPro\textsuperscript{®} 361 & 320 TORNADO RESISTANT PAIRS WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK


Frame Profile Options and Parameters

** 1/2" BACKBEND

1" LESS THAN DEPTH

THROAT

*** 1/2 BACKBEND

SERIES SU
DOUBLE RABBIT PROFILE
FOR 1−3/4" THICK DOORS

1−9/16"
VARIES
1−15/16"

4−1/4" THRU 14"

* DEPTH

1/2" BACKBEND

1" LESS THAN DEPTH

THROAT

1/2" BACKBEND

SERIES SQ
DOUBLE RABBIT PROFILE
FOR 1−3/4" THICK DOORS

1−15/16"
VARIES
1−15/16"

4−5/8" THRU 14"

* DEPTH

1/2" BACKBEND

1" LESS THAN DEPTH

THROAT

SERIES SR
SINGLE RABBIT PROFILE
FOR 1−3/4" THICK DOORS

1−15/16"
VARIES
1−15/16"

4" THRU 14"

* DEPTH

NOTES:

- FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS
- MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT EXISTING OPENING ANCHORS. MINIMUM DEPTH FOR EXISTING OPENING ANCHORS IS 4−5/8".
- BACKBENDS FOR 5−3/4" DEPTH MAY BE 7/16", WHICH MEANS THE THROAT WOULD BE 4−7/8".
- MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT EXISTING OPENING ANCHORS. MINIMUM DEPTH FOR EXISTING OPENING ANCHORS IS 5".
- SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBET.
- FRAMES ARE NOT REQUIRED TO BE GROUNDED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.
- SEE PAGES D17A−8 & D17A−9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.
- FRAMES ARE 14 GAUGE HOT−DIPPED A60 GALVANNEALED or COLD ROLLED STEEL.
- FRAMES MAY BE KNOCK DOWN or WELDED CORNERS.
- SEE FRAME ELEVATION BELOW FOR HINGE QUANTITIES, LOCATIONS AND OPENING SIZES.
- HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A−10 AND D17A−11.
- 4−SIDED FRAMES ARE OPTIONAL.
- 3/8" STD DOOR UNDERCUT
- 3/8" MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE.
- SEE PAGE D17A−8 AND/OR D17A−9 FOR ALL ANCHOR LOCATIONS

HORIZONTAL SECTION

#5/4" X 6/0" THRU 8/0" X 8/0"

NOTE: 7/8" HEIGHTS & ABOVE (4) HINGES ARE REQUIRED WHEN USING SUIT Hinges BETWEEN 7/8" HEIGHTS (3) Hinges ARE REQUIRED WHEN USING SUIT Hinges

SEE PAGE D17A−11 FOR APPROVED HINGES

DOUBLE SWING

#ASSEMBLIES MAY BE LIMITED TO 60"X70"
MINIMUM SIZE FOR COMPLIANCE WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

(Corversion: 1" = 25.4 mm, e.g., 1−3/4" = 44.45 mm)
ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT COMMUNICATING PAIRS
WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

ALL INFORMATION ON THIS PAGE APPLIES TO THE STORMPRO ASSEMBLY

DOORS:
MIN. 5'–4" x 6'–8", MAX. 8'–0" x 8'–0" OPENING SIZE. 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAPS AND WITH POLYSTYRENE CORE. POLYURETHANE CORE MAY BE PROVIDED AT FACTORY DISCRETION.

LOCK:
CORBIN RUSSWIN FE6600 SERIES OR SARGENT FM7300 SERIES

INACTIVE DOOR SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 986, OR YALE 988

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A–11. NON-STORMPRO DOORS DO NOT REQUIRE THE SAME HARDWARE, QUANTITIES OR LOCATIONS AS THE STORMPRO DOORS.

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A–11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A–10 AND D17A–11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 3 HRS IN ACCORDANCE WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SEE PAGES D17A–8 & D17A–9 FOR ALL ANCHOR LOCATIONS.

**SUGGESTED USE:**
- DISASTER & TORNADO SHELTERS
- STORM SHELTERS
- COMMUNITY SHELTERS
- SCHOOL SHELTERS
- SCHOOL "SAFE" ROOMS
- RESIDENTIAL "SAFE" ROOMS

- Corbin Russwin FE6600 & Sargent FM7300 concealed vertical rods, top & bottom bolts, & 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 & must be installed by a factory trained installer.

- **IMPORTANT:** DO NOT REMOVE ANY HARDWARE BLOCKING OR FILLER PLATES IN DOOR & THE FRAME UNTIL THE MORTISE LOCK IS READY TO BE INSTALLED.

UL CLASSIFIED TO:
- **FEMA P-361(2015)** "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
- **FEMA P-320 (2014)** "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Business"

- 3/8" DOOR UNDERCUT
- 3/8" MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
- BOTTOM STRIKES MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLTS TO PROPERLY ENGAGE STRIKES.
- BOTTOM LOCK STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
- FLOORS MUST BE PORED LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
- DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

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DESIGN PRESSURES, ASSEMBLY CONSTRUCTION AND MANUFACTURING LOCATION MAY VARY TO COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES. DESIGN PRESSURE MAY BE LIMITED TO +/-252 PSF AND TEST PRESSURE MAY BE LIMITED TO +/-302 PSF. ASSEMBLIES MAY BE LIMITED TO 60°x70° MINIMUM SIZE.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
ASSA ABLOY
1-3/4” StormPro® 361 & 320 TORNADO RESISTANT GLAZED COMMUNICATING PAIRS WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

ALL INFORMATION ON THIS PAGE APPLIES TO THE STORMPRO ASSEMBLY

DOORS:
MIN. 5'–4” x 6’–8”, MAX. 8’–0” x 8’–0” OPENING SIZE, 14 GA.
A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, WELDED TOP CAPS AND WITH POLYSTYRENE CORE.

SUGGESTED USE:
DISASTER & TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL “SAFE” ROOMS
RESIDENTIAL “SAFE” ROOMS

LOCK:
CORBIN RUSSWIN FE6600 SERIES or SARGENT FM7300 SERIES

INACTIVE DOOR SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 988, OR YALE 988

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A–11.
NON-STORMPRO FRAMES DO NOT REQUIRE THE SAME HARDWARE, QUANTITIES OR LOCATIONS AS THE STORMPRO FRAMES.

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A–11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A–10 AND D17A–11.

OPTIONAL FIRE RATING:
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE WITH UL 10B,
UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SPECIAL NOTES:
• Corbin Russwin FE6600 & Sargent FM7300 concealed vertical rods, top & bottom bolts, & mortise lock body case must be factory installed in a CECO StormPro door. All other hardware components are shipped directly from Sargent or Corbin Russwin & must be installed by a factory trained installer.

• IMPORTANT: DO NOT REMOVE ANY HARDWARE BLOCKING OR FILLER PLATES IN DOOR & THE FRAME UNTIL THE MORTISE LOCK IS READY TO BE INSTALLED.

SEE PAGES D17A–8 & D17A–9 FOR ALL ANCHOR LOCATIONS.

10”x10” VISIBLE GLASS ONLY
CONTRAFLO U/LTECH 90 MUST BE FACTORY INSTALLED.
GLASS THICKNESS IS 2–1/16” NOMINAL.
GLASS WILL EXTEND BEYOND THE FACE OF THE DOOR ON THE THREAT SIDE.
GLASS NORMALLY CENTERED IN WIDTH AND LOCATED 60–3/8” ABOVE DOOR BOTTOM TO CENTERLINE OF GLASS ONLY.
MULTIPLE LITES NOT ALLOWED.

• 3/8” DOOR UNDERCUT
• 3/8” MAX. FROM BOTTOM OF DOOR TO TOP OF STRIKE
• BOTTOM STRIKES MUST BE ATTACHED TO CONCRETE OR STRUCTURAL STEEL AND ALLOW BOTTOM BOLTS TO PROPERLY ENGAGE STRIKES.
• BOTTOM LOCK STRIKE IS MANUFACTURED TO BE MORTISED IN FLOOR OR SURFACE MOUNTED.
• FLOORS MUST BE POURED LEVEL AND FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW DOORS TO FUNCTION PROPERLY.
• DOORS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction or Storm Shelters"
• FEMA P-361(2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
• FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

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<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
<td>±284</td>
<td>±341</td>
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<tr>
<td>FEMA 320, 361</td>
<td></td>
<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
<td>±284</td>
<td>±341</td>
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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

(Conversion: 1” = 25.4 mm, e.g., 1–3/4” = 44.45 mm)
ASSA ABLOY
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT COMMUNICATING PAIRS
WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK

Frame Profile Options and Parameters

1/2" BACKBEND

1" LESS THAN DEPTH

1/2" BACKBEND

HEAD FACE
2" MIN., 4" MAX.

JAMB FACE
2"

SERIES SQ
DOUBLE RABBET PROFILE
FOR 1-3/4" THICK DOORS

5/8" STOP

15/16" VARIES

15/16" RABBIT

SOFFIT

RABBIT

** 4-5/8" THRU 14" * DEPTH

NOTES:
• FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS

• MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT EXISTING OPENING ANCHORS. MINIMUM DEPTH FOR EXISTING OPENING ANCHORS IS 5", DEPTH MAY ALSO BE LIMITED BY STORMPRO DOORS AND NON STORMPRO DOOR'S HARDWARE.

• SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBET.

• FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.

• SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.

• FRAMES ARE 14 GAGE HOT-DIPPED GALVANNEALED OR COLD ROLLED STEEL.

• FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.

• HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

• SEE FRAME ELEVATION BELOW FOR HINGE QUANTITIES, LOCATIONS AND OPENING SIZES.

• NON-STORMPRO FRAMES DO NOT REQUIRE THE SAME HARDWARE, QUANTITIES OR LOCATIONS AS THE STORMPRO FRAMES.

• FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.

• 4-SIDED FRAMES ARE NOT ALLOWED.

• WHEN DETERMINING FRAME DEPTH, CONSIDERATION SHOULD BE GIVEN REGARDING IF THE FRAME DEPTH WILL ACCOMMODATE HARDWARE INSTALLED ON BOTH THE PASSAGE PAIR OF DOORS AND THE STORMPRO PAIR.

• MINIMUM FRAME DEPTHS SHOWN ON THIS PAGE ARE STORMPRO LIMITS, BUT MAY NOT ACCOMMODATE HARDWARE INSTALLED ON BOTH PAIRS.

#Assemblies may be limited to 6’0"x2’0" minimum size for compliance with domestic government sourcing regulations, trade agreements or acquisition policies.

SEE PAGE D17A-8 AND/OR D17A-9 FOR ALL ANCHOR LOCATIONS

8’0"x 8’0"

JAMB ANCHOR LOCATIONS:
SEE PAGE D17A-8 AND/OR D17A-9

3/8" STD DOOR UNDERCUT
3/8" MAX, BETWEEN BOTTOM 6’0" DOOR AND TOP OF STRIKE

STORMPRO PAIRS INSWING ONLY

(Conversion: 1” = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

Experience a safer
and more open world
ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT SINGLES WITH CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK

**SHUTTER:**
2 - 6' x 3'-0" MIN. & 4'-0" x 6'-8" MAX. LEAF SIZE, 14 GA. A60 GALVANNEALED or COLD ROLLED FACE SHEETS WITH 10 GA. LINER & POLYSTYRENE CORE.

**LOCK:**
CORBIN RUSSWIN FE6700 SERIES or SARGENT FM6100 SERIES

**CLOSER:**
APPROVED CLOSERS ARE LISTED ON PAGE D17A–11.

**HINGES:**
APPROVED HINGES ARE LISTED ON PAGE D17A–11.

**HINGE NOTES:**
HEIGHTS FROM 3'-0" THRU 5'-0" WILL HAVE (3) MORTISE BUT HINGE PREPS.
HEIGHTS GREATER THAN 5'-0" THRU 6'-8" WILL HAVE (4) MORTISE BUT HINGE PREPS.

**OPTIONAL HARDWARE AND ACCESSORIES:**
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE SHOWN ON PAGES D17A–10 AND D17A–11.

**OPTIONAL FIRE RATING:**
UP TO AND INCLUDING 3 HOURS IN ACCORDANCE WITH UL 10B, UL 10C & NFPA 252 WITH STEEL STIFFENED CORE ONLY.

SEE PAGE D17A–5B FOR ALL ANCHOR LOCATIONS

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**SUGGESTED USE:**
DISASTER AND TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL "SAFE" ROOMS
RESIDENTIAL "SAFE" ROOMS

**UL CLASSIFIED TO:**
- FEMA P-320 (2014) "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Business"

- 1/4" UNDERCUT ONLY
- SILL MUST BE LEVEL & FRAME MUST BE INSTALLED SQUARE & PLUMB TO ALLOW SHUTTER TO FUNCTION PROPERLY.
- SHUTTER AND FRAME MUST BE ORDERED AT THE SAME TIME.

**SHUTTER & WINDOW ASSEMBLY OPTION**

**VERTICAL SECTION**

**HORIZONTAL SECTION**

INSWING OR OUTSWING

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<tr>
<td>FEMA 361 &amp; 320</td>
<td>INSWING OR OUTSWING</td>
<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
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ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

Experience a safer and more open world

Frame Profile Options and Parameters

** Frame Depths Available within 1/8" Increments

** Minimum Depth Applies to All Anchor Conditions Except Existing Opening Anchors. Minimum Depth for Existing Opening Anchors is 4-5/8".

*** Backbends for 5-3/4" Depth May Be 7/16", Which Means the Throat Would Be 4-7/8".

**** Minimum Depth Applies to All Anchor Conditions Except Existing Opening Anchors. Minimum Depth for Existing Opening Anchors is 5".

Smaller Depths May Require Existing Opening Anchors to Be Located on the Door Rabbet.

Frames are Not Required to Be Grouted When Using Existing Wall Jamb Anchors or When Welded to Building Structure.

See Page D17A-5B for All Anchor Quantities & Locations.

Frames are 14 Gauge Hot-Dipped & Galvanized or Cold Rolled Steel.

Frames Will Have Welded Corners.

Approved Optional Hardware and Accessories Are Shown on Pages D17A-10 and D17A-11.

Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm
ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT SINGLES WITH
CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK

FRAME HEAD & SILL ANCHORS:
EXISTING OPENING DIMPLES W/ BOLTS, SCREWS OR WELD TO BUILDING STRUCTURE
3 ANCHORS PER HEAD & SILL 2'6" THRU 4'0".

FRAME ANCHORING
SEE PAGE D17A-8 FOR WIRE & MASONRY "T" ANCHORS,
ANCHOR BOLTS & CAP PLUGS.

The throat of frame jambs must be fully groused with min. 1800 psi grous when installing with wire or masonry T anchors.

Frames are not required to be groused when using existing wall jamb anchors or welded to building structure.

3500 PSI Concrete
Steel Embedment Plate**
(When Used)
1/4" Max Shim Allowed for Single Jamb, 3/8" Total for Both Jambs

**ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES SHALL BE DESIGNED AND VERIFIED BY OTHERS.

5 SCREW PITCH MIN. PROTRUSION
1/4" MIN. THICK STEEL (A36 MIN.)

FRAME POURRED IN PLACE WITH THE WALL DOES NOT REQUIRE ANCHORS

ANCHORING BY WELDING TO BUILDING STRUCTURE
18 GAGE MIN., 1/4" MAX. THICK A-36 STEEL SHIMS CENTERED UNDER FRAME WELD PERIMETER OF 5/8" X 2" X 5/8" ENDS OF SHIMS TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS SIZED AS FOLLOWS USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.035" TO 0.125" SHIM THICKNESS. WELD SIZE 1/8" FOR 0.125" TO 1/4" SHIM THICKNESS.

WELD HOLLOW METAL FRAME TO SHIM WITH 3/16" WELD, 1" LONG BOTH SIDES OF FRAME

STEEL SHIMS BY OTHERS

CONVERSION: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm

Experience a safer and more open world
ASSA ABLOY

1-3/4" StormPro® Shutter TORNADO RESISTANT PAIRS WITH
CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK

SHUTTERS:
MIN. 5'-0" x 4'-0", MAX. 8'-0" x 6'-8" OPENING SIZE. 14 GA. A60 GALVANNEALED OR COLD ROLLED
FACE SHEETS WITH 10 GAGE LINER, STIFFENER & POLYSTYRENE CORE. PAIRS CAN BE INSWING OR OUTSWING.

LOCK:
CORBIN RUSSWIN FE6700 SERIES or SARGENT FM6100 SERIES

INACTIVE SHUTTER SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 988, OR YALE 988Y

CLOSER:
APPROVED CLOSERS ARE SHOWN ON PAGE D17A–11.

HINGES:
APPROVED HINGES ARE SHOWN ON PAGE D17A–11.

HINGE NOTES:
HEIGHTS FROM 4'0" THRU 5'0" WILL HAVE
(3) MORTISE BUTT HINGE PREPS.
HEIGHTS GREATER THAN 5'0" THRU 6'8" WILL HAVE
(4) MORTISE BUTT HINGE PREPS.

OPTIONAL HARDWARE & ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES
ARE LISTED ON PAGES D17A–10 AND D17A–11.

FIRE RATING:
NOT AVAILABLE

SUGGESTED USE:
DISASTER & TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL “SAFE” ROOMS
RESIDENTIAL “SAFE” ROOMS

UL CLASSIFIED TO:
and Construction of Storm Shelters”
• FEMA P-361(2015) “Safe Rooms for Tornadoes &
Hurricanes: Guidance for Community and Residential
Safe Rooms”
• FEMA P-320 (2014) “Taking Shelter from the storm:
Building a Safe Room for Your Home or Small Business”

• 1/4" DOOR UNDERCUT. 1/4" MAX. FROM BOTTOM OF
SHUTTER TO TOP OF LOCK STRIKE.
• FRAMES MUST BE INSTALLED SQUARE AND PLUMB TO ALLOW
SHUTTERS TO FUNCTION PROPERLY.
• BOTTOM STRIKES MUST BE ATTACHED TO FRAME SILL AND
ALLOW BOTTOM BOLTS TO PROPERLY ENGAGE STRIKES.
• SHUTTERS AND FRAMES MUST BE ORDERED AT THE SAME TIME.

ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE
PENETRATION FOR USE IN BUILDINGS DESIGNED AS SHELTERS OR SAFE ROOMS TO PROTECT OCCUPANTS
FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

(Conversion: 1" = 25.4 mm, e.g., 1–3/4" = 44.45 mm)

Experience a safer
and more open world
Frame Profile Options and Parameters

### 4-SIDED FRAME

**SERIES SU**
- **BACKBEND**: 1" THROAT
- **DEPTH**: 1-9/16" VARIES 1-15/16" RABBIT **SOFFIT** RABBIT
- **4-1/4" THRU 14"**

**SERIES SQ**
- **BACKBEND**: 1" THROAT
- **DEPTH**: 1-15/16" VARIES 1-15/16" RABBIT **SOFFIT** RABBIT
- **4-5/8" THRU 14"**

**SERIES SR**
- **BACKBEND**: 1" THROAT
- **DEPTH**: 1-15/16" VARIES 1-15/16" RABBIT **SOFFIT**
- **4" THRU 14"**

**NOTES:**
- Frame depths available in 1/8" increments.
- Minimum depth applies to all anchor conditions except existing opening anchors. Minimum depth for existing opening anchors is 4-5/8".
- Backbends for 5-3/4" depth may be 7/16" which means the throat would be 4-7/8".
- Minimum depth applies to all anchor conditions except existing opening anchors. Minimum depth for existing opening anchors is 5".
- Smaller depths may require existing opening anchors to be located on the door rabbet.
- Frames are not required to be grouted when using existing wall jamb anchors or when welded to building structure.
- See pages D17A-6B & D17A-8 for all anchor locations & details.
- Frames are 14 gauge hot-dipped galvanized or cold rolled steel.
- Frames will have welded corners.
- Heights from 4’0” thru 5’0” will have (3) hinge preps, heights over 5’0” thru 6’0” will have (4) hinge preps.
- Approved optional hardware and accessories are listed on pages D17A-10 and D17A-11.

**OPTIONAL FLAT PLATE ASTRAGAL:** 10 gauge flat plate astragal is factory attached with screws to the threat side of the active or inactive shutter, depending on in swing or out swing application.

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT PAIRS WITH
CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK

FRAME ANCHORING

See page D17A–8 for other anchor details.

FRAME HEAD & SILL ANCHOR LOCATIONS:

Existing opening dimples with bolts, screws, or weld to building structure. Up to & including 60” wide:
Min. of (6) anchors located from center line of the door meeting edges both sides 8”, 15” and 6” from door jamb rabbet.

Greater than 60” thru 70” wide:
Min. of (8) anchors located from center line of the door meeting edges both sides 8”, 15”, 22” & 6” from door jamb rabbet.

Greater than 70” thru 80” wide:
Min. of (8) anchors located from center line of the door meeting edges both sides 8”, 15”, 24” & 6” from door jamb rabbet.

Note: For unequal width pairs, head & sill anchor quantity-spacing for each side of the centerline of the door meeting edges shall be determined as though the leaf size was part of an equal width pair.

FRAME Poured IN PLACE WITH THE WALL DOES NOT REQUIRE ANCHORS

**ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES SHALL BE DESIGNED AND VERIFIED BY OTHERS.

ANCHORING BY WELDING TO BUILDING STRUCTURE

18 GAGE MIN., 1/4” MAX. THICK A-36 STEEL SHIMS CENTERED UNDER FRAME WELD PERIMETER OF 5/8” X 2” X 5/8” ENDS OF SHIMS TO STRUCTURAL BUILDING MEMBER WITH FILLET WELDS SIZED AS FOLLOWS USING E6018 ELECTRODES. FILLET WELD SIZE SAME AS SHIM THICKNESS FOR 0.053” TO 0.125” SHIM THICKNESS. WELD SIZE 1/8" FOR 0.125” TO 1/4” SHIM THICKNESS.

STEEL SHIMS BY OTHERS

WELD HOLLOW METAL FRAME TO SHIM WITH 3/16” WELD, 1” LONG BOTH SIDES OF FRAME

1 1/4” MIN. THICK STEEL (A36 MIN.)

EXISTING HOST STRUCTURE OR STEEL EMBEDMENT PLATE**
1-3/4" StormPro® 320 & 361
TORNADO RESISTANT FLUSH DOOR & FRAME

DOOR:
MIN. 2’—8" x 6’—8", MAX. 3’—0" x 7’—0" LEAF SIZE, 14 GA. A60 GALVANNEALED OR COLD ROLLED FAC SHEETS, 12 GA. TOP & BOTTOM CHANNELS WITH 14 GA. TOP & BOTTOM CAPS. EDGE SEAMS ARE FULLY WELDED WITH A 12 GA. FULL LENGTH STIFFENER ALONG THE LOCK EDGE. 16 GAGE INTERMEDIATE STIFFENERS ARE SPACED A MAX. OF 6" APART. POLYSTYRENE FILLER IS USED BETWEEN THE STIFFENERS. DOORS HAVE SQUARE LOCK AND HINGE EDGES.

HARDWARE PROVIDED (SHIPPED LOOSE):

PASSAGE SET LOCK & DEADBOLTS
(1) Sargent 10 line grade 1 passage set. 28–10U15XLX26DLHR

Hinges:
(3) McKinney SP3786 26D (4–1/2" x 4–1/2" x .180") WITHOUT QC OPTION

OPTIONAL HARDWARE NOT PROVIDED:

CLOSER:
APPROVED CLOSERS ARE SHOWN ON PAGE D17A-11.

HINGES:
APPROVED HINGES ARE SHOWN ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE SHOWN ON PAGES D17A-10 AND D17A-11.

UL CLASSIFIED TO:
• ICC 500(2014) "ICC/NSSA Standard for the Design and Construction of "Storm Shelters"
• FEMA P-361 (2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
• FEMA P-320 (2014) "Taking Shelter from the Storm: Building a Safe Room for Your Home or Small Business"

FIRE RATING:
NOT AVAILABLE

DOOR SWING:
INSWING OR OUTSWING

SUGGESTED USE:
RESIDENTIAL and SMALL BUSINESS "SAFE" ROOMS

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SAFE ROOMS OR SHELTERS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

“FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.”

(Conversion: 1” = 25.4 mm, e.g., 1–3/4” = 44.45 mm)
1-3/4" StormPro® 320 & 361 with Glass TORNADO RESISTANT DOOR & FRAME

DOOR:
MIN. 2'-8" x 6'-8", MAX. 3'-0" x 7'-0" LEAF SIZE, 14 GA. A60 GALVANNEALED OR COLD ROLLED FACE SHEETS, 12 GA. TOP & BOTTOM CHANNELS WITH 14 GA. TOP & BOTTOM CAPS. EDGE SEAMS ARE FULLY WELDED WITH A 12 GA. FULL LENGTH STIFFENER ALONG THE LOCK EDGE. 16 GAGE INTERMEDIATE STIFFENERS ARE SPACED A MAX. OF 6" APART. POLYSTYRENE FILLER IS USED BETWEEN THE STIFFENERS. DOORS HAVE SQUARE LOCK AND HINGE EDGES.

HARDWARE PROVIDED (SHIPPED LOOSE)

PASSAGE SET LOCK & DEADBOLTS
(1) SARGENT 10 LINE GRADE 1 PASSAGE SET. 28–10U15XLLX260LHR
(3) MEDECO MAXUM COMMERCIAL HIGH SECURITY DEADBOLTS. 11C602T–26–DL–T–N A, KA3

HINGES:
(3) McKinney SP3786 26D (4–1/2" X 4–1/2" X .180")

OPTIONAL HARDWARE NOT PROVIDED

CLOSER:
APPROVED CLOSERS ARE LISTED ON PAGE D17A–11.

HINGES:
APPROVED HINGES ARE LISTED ON PAGE D17A–11.

OPTIONAL HARDWARE AND ACCESSORIES:
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A–10 AND D17A–11.

FIRE RATING:
NOT AVAILABLE

DOOR SWING:
INSWING ONLY

SUGGESTED USE:
RESIDENTIAL and SMALL BUSINESS "SAFE" ROOMS

*10'X10' VISIBLE GLASS ONLY
*GLASS & KIT FACTORY INSTALLED ONLY
*MULTIPLE LITES NOT ALLOWED
*LOCATED 60" ABOVE DOOR BOTTOM TO CENTERLINE OF GLASS WITH 3/4" UNDERCUT & CENTERED IN DOOR WIDTH ONLY
* DESIGN PATENT PENDING
* INSWING ONLY

(Conversion: 1" = 25.4 mm, e.g., 1–3/4" = 44.45 mm)

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION FOR USE IN BUILDINGS DESIGNED AS SAFE ROOMS OR SHELTERS TO PROTECT OCCUPANTS FROM INJURY. SUCCESSFULLY TESTED AND COMPLIANT TO ICC 500-2014 STANDARD.

ASSEMBLY MAY NOT COMPLY WITH DOMESTIC GOVERNMENT SOURCING REGLATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE."
Frame Profile Options and Parameters

1-3/4" LESS THAN DEPTH
THROAT

1-9/16"  VARIES  1-15/16"
RABBIT  SOTFIT  RABBIT

** 4-1/4" THRU 14" + DEPTH

1/2" BACKBEND
HEAD FACE 2" MIN., 4" MAX.
JAMB FACE 2"

5/8" STOP

1-15/16"  VARIES  1-15/16"
RABBIT  SOTFIT  RABBIT

*** 1/2" BACKBEND

SEROUS SU
DOUBLE RABBIT PROFILE
FOR 1-3/4" THICK DOORS

1" LESS THAN DEPTH
THROAT

1/2" BACKBEND
HEAD FACE 2" MIN., 4" MAX.
JAMB FACE 2"

5/8" STOP

1-15/16"  VARIES  1-15/16"
RABBIT  SOTFIT  RABBIT

**** 4-5/8" THRU 14" + DEPTH

1/2" BACKBEND
HEAD FACE 2" MIN., 4" MAX.
JAMB FACE 2"

5/8" STOP

1-15/16"  VARIES  1-15/16"
RABBIT  SOTFIT  RABBIT

SEROUS SR
SINGLE RABBIT PROFILE
FOR 1-3/4" THICK DOORS

NOTES:

* FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS
** MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT EXISTING OPENING ANCHORS. MINIMUM DEPTH FOR EXISTING OPENING ANCHORS IS 4-5/8".
*** BACKBENDS FOR 5-3/4" DEPTH MAY BE 7/16", WHICH MEANS THE THROAT WOULD BE 4-7/8".
**** MINIMUM DEPTH APPLIES TO ALL ANCHOR CONDITIONS EXCEPT EXISTING OPENING ANCHORS. MINIMUM DEPTH FOR EXISTING OPENING ANCHORS IS 2".

SMALLER DEPTHS MAY REQUIRE EXISTING OPENING ANCHORS TO BE LOCATED ON THE DOOR RABBIT.

FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE.

FRAMES WILL HAVE 10" MORTAR GUARD/JUNCTION BOXES COVERING EACH DEADBOLT STRIKE PREP. DEADBOLT STRIKE PREPS ARE A 1" ROUND HOLE WITH REINFORCING WELDED TO THE THROAT OF THE FRAME. DEADBOLT STRIKE PREPS DO NOT REQUIRE STRIKES TO BE INSTALLED.

SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.

FRAMES ARE 16 GAUGE MIN. HOT-DIPPED A60 GALVANNEALED OR COLD ROLLED STEEL.

FRAMES MAY BE KNOCK DOWN OR WELDED CORNERS.

(2) 12 GA. HIGH FREQUENCY HINGE STRAPS PER HINGE REINFORCEMENT.

OPTIONAL (1) 10"X10" VISIBLE GLASS LOCATED 60" ABOVE DOOR BOTTOM WITH 3/8" UNDERCUT TO CENTER OF GLASS, CENTERED IN DOOR WIDTH AVAILABLE. OPTIONAL DOOR WITH GLASS AVAILABLE AS INSMING ONLY.

APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

SEE PAGES D17A-8 & D17A-9 FOR ALL ANCHOR QUANTITIES & LOCATIONS.

---

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>SWING DIRECTION</th>
<th>IMPACT DESCRIPTION</th>
<th>IMPACT RATING</th>
<th>DESIGN (PSF)</th>
<th>TEST (PSF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC 500/NSSA</td>
<td>INSMING OR OUTSM</td>
<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
<td>+/−254</td>
<td>+/−305</td>
<td></td>
</tr>
<tr>
<td>FEMA 320/361</td>
<td></td>
<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
<td>+/−254</td>
<td>+/−305</td>
<td></td>
</tr>
</tbody>
</table>

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
1-3/4" StormPro® 320 & 361 TORNADO RESISTANT
DOOR & FRAME ANCHOR LOCATIONS


ANCHORING BY WELDING TO BUILDING STRUCTURE

18 ga. min. –1/4” max. thick A-36 steel shims centered under frame. Weld perimeter of 5/8" x 2" x 5/8" ends of shims to structural building member with fillet welds sized as follows using E6018 electrodes. Fillet weld size same as shim thickness for 0.053” to 0.125” shim thickness. Weld size 1/8” for 0.125” to 1/4” shim thickness.

<table>
<thead>
<tr>
<th>Opening Size</th>
<th>Anchor Type</th>
<th>Anchor Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welded to the Building Structure</td>
<td>Minimum of 2 weld locations required. Locations are 8” from each door jamb rabbit.</td>
<td>Minimum of 2 weld locations required. Locations are 8” from each door jamb rabbit.</td>
</tr>
</tbody>
</table>

SEE APPROPRIATE PAGES TO MATCH HARDWARE AND SIZE INFORMATION. FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN WELDED TO BUILDING STRUCTURE.

1/4" MIN. STEEL (A36) EMBEDMENT PLATE or HOST STRUCTURE

3/8" SELF DRILLING SCREW/UNC BOLT (BY OTHERS)

Poured in place wall

1-1/8" MIN. PLATE EDGE DISTANCE

1/4" MAX. SHIM SPACE FOR 1 JAMB, 3/8" TOTAL FOR BOTH JAMBS

Screw attachment through existing embedment plate provided that drilling through plate is permissible as verified by others.

Vinyl cap plug

Vinyl cap plug (bag of 10) Part # 6111049
Vinyl cap plug (bag of 100) Part # 6111050

(Ships loose for field installation)

Existing opening –Pipe & Plate
Frame not required to be grouted

Alternate profile

Optional: 16 ga. one piece

Conversion: 1” = 25.4 mm, e.g. 1-3/4” = 44.45 mm

Experience a safer and more open world
1-3/4" StormPro® 320 & 361 TORNADO RESISTANT DOOR & FRAME
ANCHOR LOCATIONS. UL CLASSIFIED TO ICC 500 (2014), FEMA P-361 (2015)
AND FEMA P-320 (2014)
HEAD (AND OPTIONAL SILL WHERE AVAILABLE) ANCHOR LOCATIONS FOR
FM7300/FE6600, FM8700, FE5400S & (3) MEDECO DEADBOLTS ASSEMBLIES

NOTE: FOR UNEQUAL WIDTH PAIRS; ANCHOR QUANTITY/SPACING FOR EACH SIDE OF THE CENTERLINE OF THE
DOOR MEETING EDGES SHALL BE DETERMINED AS THOUGH THE LEAF SIZE WAS PART OF AN EQUAL WIDTH PAIR.

<table>
<thead>
<tr>
<th>Opening Size</th>
<th>Anchor Type</th>
<th>Anchor Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved min. open</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>Minimum of 6 anchors. On both</td>
</tr>
<tr>
<td>size up to &amp; including</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self  Drilling.</td>
<td>sides of the centerline of the</td>
</tr>
<tr>
<td>6&quot; x 7&quot;</td>
<td>Screw/UNC Bolt</td>
<td>door meeting edges: One each</td>
</tr>
<tr>
<td>Greater than 6&quot; x 7&quot;</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>located at 8&quot;, 15&quot;, and 22&quot;</td>
</tr>
<tr>
<td>and up to and 7&quot; x 7&quot;</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling</td>
<td>from the centerline of the door</td>
</tr>
<tr>
<td></td>
<td>Screw/UNC Bolt</td>
<td>meeting edges. 2 anchors</td>
</tr>
<tr>
<td>Greater than 7&quot; x 7&quot;</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>required 6&quot; from each door jamb</td>
</tr>
<tr>
<td>and up to and</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling</td>
<td>rabbet.</td>
</tr>
<tr>
<td>8&quot; x 8&quot;</td>
<td>Screw/UNC Bolt</td>
<td></td>
</tr>
<tr>
<td>Approved min. open</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>Minimum of 2 anchors required.</td>
</tr>
<tr>
<td>size up to &amp; including</td>
<td>Sleeve Expansion Bolt or 3/8&quot; SMS/</td>
<td>Locations are 6&quot; from each door</td>
</tr>
<tr>
<td>4&quot; x 8&quot;</td>
<td>Self Drilling Screw/UNC Bolt</td>
<td>jamb rabbet. When anchors are</td>
</tr>
<tr>
<td></td>
<td></td>
<td>located in the door rabbet and</td>
</tr>
<tr>
<td></td>
<td></td>
<td>latch hardware is FM7300/FE6600,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>the anchor at the lock jamb</td>
</tr>
<tr>
<td></td>
<td></td>
<td>side will be located at 9&quot;.</td>
</tr>
</tbody>
</table>

ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH
EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES
SHALL BE DESIGNED AND VERIFIED BY OTHERS. FRAMES ARE NOT REQUIRED TO BE GROUDED WHEN USING
EXISTING WALL JAMB ANCHORS. JAMB ANCHOR LOCATIONS FOR FM7300/FE6600, FM8700, FE5400S & (3)
MEDECO DEADBOLT ASSEMBLIES

Existing Opening & Screw Fastened Jamb Anchor Locations

<table>
<thead>
<tr>
<th>Opening Size</th>
<th>Anchor Type</th>
<th>Anchor Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approved min. open</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>Maximum of 8&quot; from the sill,</td>
</tr>
<tr>
<td>size up to &amp; including</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling.</td>
<td>maximum of 4&quot; from the head</td>
</tr>
<tr>
<td>6&quot; x 7&quot;</td>
<td>Screw/UNC Bolt</td>
<td>rabbet, and 24&quot; maximum on</td>
</tr>
<tr>
<td>Greater than 6&quot; x 7&quot;</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>center.</td>
</tr>
<tr>
<td>and up to and</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling</td>
<td>Maximum of 8&quot; from the sill,</td>
</tr>
<tr>
<td>7&quot; x 7&quot;</td>
<td>Screw/UNC Bolt</td>
<td>maximum of 4&quot; from the head</td>
</tr>
<tr>
<td>Greater than 7&quot; x 7&quot;</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>rabbet, and 21&quot; maximum on</td>
</tr>
<tr>
<td>and up to and</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling</td>
<td>center.</td>
</tr>
<tr>
<td>8&quot; x 8&quot;</td>
<td>Screw/UNC Bolt</td>
<td>Maximum of 8&quot; from the sill,</td>
</tr>
<tr>
<td>Greater than 3&quot; x 7&quot;</td>
<td>Existing Wall Anchors 3/8&quot; Lok-Bolt AS</td>
<td>maximum of 4&quot; from the head</td>
</tr>
<tr>
<td>and up to and</td>
<td>Sleeve Anchor or 3/8&quot; SMS/ Self Drilling</td>
<td>rabbet, and 18&quot; maximum on</td>
</tr>
<tr>
<td>4&quot; x 8&quot;</td>
<td>Screw/UNC Bolt</td>
<td>center.</td>
</tr>
</tbody>
</table>

12 Gage Masonry "T" anchors & Wire Masonry Anchors

<table>
<thead>
<tr>
<th>Opening Size</th>
<th>Anchor Type</th>
<th>Anchor Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Opening</td>
<td>12 Ga. Masonry &quot;T&quot; Anchors</td>
<td>Maximum of 8&quot; from the sill,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>maximum of 6&quot; from the head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rabbet, and 24&quot; maximum on</td>
</tr>
<tr>
<td>Single Opening</td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12&quot; from the sill,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>maximum of 10&quot; from the head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rabbet, and 16&quot; maximum on</td>
</tr>
<tr>
<td></td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12&quot; from the sill,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>maximum of 10&quot; from the head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rabbet, and 14&quot; maximum on</td>
</tr>
<tr>
<td></td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12&quot; from the sill,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>maximum of 10&quot; from the head</td>
</tr>
<tr>
<td></td>
<td></td>
<td>rabbet, and 18&quot; maximum on</td>
</tr>
</tbody>
</table>

(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)
ASSA ABLOY StormPro® OPTIONAL ACCESSORIES

OPTIONS FOR SARGENT FM7300 OR CORBIN RUSSWIN FM6600 ASSEMBLY

PEMKO PERIMETER SEALS:
- S773, 305 PERIMETER SEAL
- S771 ASTRAGAL
- S772 ASTRAGAL
- 305_N SPLIT ASTRAGAL (THREAT SIDE ONLY)
- 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
- 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
- 2715 THRESHOLD
- ELECTRONIC POWER TRANSFER:
  - CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK CORP.
  - DOOR POSITION SWITCH:
  - DPS-M, SECURITRON MAGNALOCK CORP.
- WIRE HARNESS:
  - QC-C1500P ELECTROLYNX WIRE HARNESS
- DOOR VIEWERS:
  - ROCKWOOD 620 OR 622 KICK PLATE:
  - ROCKWOOD K1050 (MUST BE SCREW APPLIED FOR FIRE RATED ASSEMBLIES)

OPTIONS FOR SARGENT FM6100 OR CORBIN RUSSWIN FM6700 ASSEMBLY

PEMKO PERIMETER SEALS:
- S773, 305 PERIMETER SEAL
- 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
- 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
- S771 ASTRAGAL OR S772 ASTRAGAL
- 305_N SPLIT ASTRAGAL (THREAT SIDE ONLY)
- ELECTRONIC POWER TRANSFER:
  - CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK CORP.
  - DOOR POSITION SWITCH:
  - DPS-M, SECURITRON MAGNALOCK CORP.
  - DOOR VIEWERS:
  - ROCKWOOD 620 OR 622 KICK PLATE:
  - ROCKWOOD K1050 (MUST BE SCREW APPLIED FOR FIRE RATED ASSEMBLIES)
- WIRE HARNESS:
  - QC-C1500P ELECTROLYNX WIRE HARNESS

OPTIONS FOR SARGENT FM8700 ASSEMBLY

PEMKO PERIMETER SEALS:
- S773, 305 PERIMETER SEAL, S771 ASTRAGAL OR S772 ASTRAGAL
- 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
- 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
- 1715 THRESHOLD
- 305_N SPLIT ASTRAGAL (THREAT SIDE ONLY)
- ELECTRONIC POWER TRANSFER:
  - CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK CORP.
  - DOOR POSITION SWITCH:
  - DPS-M, SECURITRON MAGNALOCK CORP.
- ROD GUARDS:
  - ROCKWOOD BFLG1050 (NOT AVAILABLE FOR FIRE RATED ASSEMBLIES)
- DOOR VIEWERS:
  - ROCKWOOD 620 OR 622 KICK PLATE:
  - ROCKWOOD K1050 (MUST BE SCREW APPLIED FOR FIRE RATED ASSEMBLIES)
- WIRE HARNESS:
  - QC-C1500P ELECTROLYNX WIRE HARNESS

OPTIONS FOR SARGENT FM4005 ASSEMBLY

PEMKO PERIMETER SEALS:
- S773, 305 PERIMETER SEAL, S771 ASTRAGAL OR S772 ASTRAGAL
- 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
- 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
- 1715 THRESHOLD
- 305_N SPLIT ASTRAGAL (THREAT SIDE ONLY)
- ELECTRONIC POWER TRANSFER:
  - CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK CORP.
  - DOOR POSITION SWITCH:
  - DPS-M, SECURITRON MAGNALOCK CORP.
- WIRE HARNESS:
  - QC-C1500P ELECTROLYNX WIRE HARNESS
- ROD GUARDS:
  - ROCKWOOD BFLG1050 (NOT AVAILABLE FOR FIRE RATED ASSEMBLIES)
- DOOR VIEWERS:
  - ROCKWOOD 620 OR 622 KICK PLATE:
  - ROCKWOOD K1050 (MUST BE SCREW APPLIED FOR FIRE RATED ASSEMBLIES)

OPTIONS FOR (3) MEDCOCO MAXUM DEADBOLT ASSEMBLIES

PEMKO PERIMETER SEALS:
- S773 OR 305 PERIMETER SEAL
- 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
- 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
- 154, 171, 1715 OR 2715 THRESHOLD
- ELECTRONIC POWER TRANSFER:
  - CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK CORP.
  - DOOR POSITION SWITCH:
  - DPS-M, SECURITRON MAGNALOCK CORP.
- DOOR VIEWERS:
  - ROCKWOOD 620 OR 622 KICK PLATE:
  - ROCKWOOD K1050 (MUST BE SCREW APPLIED FOR FIRE RATED ASSEMBLIES)
- WIRE HARNESS:
  - QC-C1500P ELECTROLYNX WIRE HARNESS
CONTINUOUS HINGES
• MARKAR HG305 CONTINUOUS HINGE
• MARKAR FM300 CONTINUOUS HINGE (OUTSWING ONLY)
• MARKAR CONTINUOUS HINGES WITH OR WITHOUT EL OPTION
  NOTE: A CONTINUOUS HINGE REQUIRES A CONTINUOUS HINGE REINFORCEMENT
  IN DOOR AND FRAME.

WIDE THROW CONTINUOUS HINGES
• MARKAR HG305WT10 WIDE THROW HINGE WITH OR WITHOUT EL OPTION
• MARKAR FM300WT WIDE THROW HINGE (WT10 THRU WT50) OUTSWING ONLY WITH OR WITHOUT EL OPTION
  NOTE: A CONTINUOUS HINGE REQUIRES A CONTINUOUS HINGE REINFORCEMENT
  IN DOOR AND FRAME.

HEAVY WEIGHT STANDARD AND WIDE THROW FULL MORTISE BUTT HINGES
• McKinney SP3786 (4-1/2" x 4-1/2" x .180 OR 5" x 4-1/2" x .190)
• McKinney SP3386 (4-1/2" x 4-1/2" x .180 OR 5" x 4-1/2" x .190)
• McKinney SP3386 & SP3786 (4-1/2" x 5", 4-1/2" x 6", 4-1/2" x 7",
  4-1/2" x 8", 5" x 4-1/2", 5" x 5", 5" x 6", 5" x 7" & 5" x 8")
• McKinney SP3386 & SP3786 WITH OR WITHOUT QC OPTION.
• McKinney SP3386 & SP3786 WITH OR WITHOUT NRP
  NOTE: WHEN BUTT HINGES ARE APPLIED TO SHUTTER DOORS, A QUANTITY OF (3) HINGES ARE
  REQUIRED ON HEIGHTS FROM 3’0” TO 5’0” AND (4) HINGES OVER 5’0” THRU 6’8”.
  NOTE: WHEN BUTT HINGES ARE APPLIED TO ASSEMBLIES WITH FM8700, FE5400S, FE6600, AND FM7300
  LATCHING HARDWARE, ON HEIGHTS 7’0” & ABOVE (4) HINGES ARE REQUIRED. BELOW 7’0” HEIGHT (3) HINGES
  ARE REQUIRED.

DOOR CLOSERS
• CORBIN RUSSWIN DC8000 SERIES DOOR CLOSER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)
• NORTON 7500 SERIES DOOR CLOSER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)
• SARGENT 281 SERIES DOOR CLOSER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)
• YALE 4400 SERIES DOOR CLOSER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)

DOOR CLOSERS/HOLDERS
• SARGENT 2409 CLOSER/HOLDER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)
• SARGENT 351 EHT CLOSER/HOLDER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)
• NORTON 7700PT ELECTRIC DOOR CLOSER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)

OVERHEAD STOP/HOLDERS
• RIXSON 9 SERIES OVERHEAD STOP/HOLDER (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)

MECHANICAL HOLDERS
• ROCKWOOD 491S OR 494S MECHANICAL HOLDERS (THRU—BOLT MOUNTING OF BODY TO DOOR ONLY)

ELECTROMECHANICAL HOLDERS
• RIXSON 998, 998M, 999M, 980M, 990M, 991M, 996M OR 997M
  ELECTROMECHANICAL HOLDERS (THRU—BOLT MOUNTING OF DOOR ARMATURE TO DOOR ONLY)
• SARGENT 1560, 1561 OR 1562 ELECTROMECHANICAL HOLDERS
  (THRU—BOLT MOUNTING OF CONTACT PLATE TO DOOR ONLY)

MULLIONS
• SARGENT HC980 OR 12—HC980 MULLION AS AN OPTION WITH FM8700 ASSEMBLY ONLY

NOTES:
• THE SPECIFICATION WRITER SHOULD VERIFY THE CLOSER/HOLDER/STOP
  IS COMPATIBLE FOR USE WITH Communicating FRAMES/DOORS.
• PAIRS WITH HARDWARE MULLION, FRAME DEPTH WILL BE LIMITED BY THE MULLION.
  CONTACT THE HARDWARE MULLION MANUFACTURER FOR FRAME DEPTH LIMITATIONS.

(Conversion: 1” = 25.4 mm, e.g., 1-3/4” = 44.45 mm)