**TECH-DATA**

**ASSA ABLOY**

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. 60 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.

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

**UL CLASSIFIED TO:**
  and Residential Safe Rooms"

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**STANDARD**

<table>
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<tr>
<th>SWING DIRECTION</th>
<th>IMPACT</th>
<th>RATING</th>
<th>DESIGN (PSF)</th>
<th>TEST (PSF)</th>
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<tr>
<td>ICC 500/NSSA OUTSWING</td>
<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
<td>+/-284</td>
<td>+/-341</td>
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<tr>
<td>FEMA 361/320 OUTSWING</td>
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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 +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, jambs anchors or when welded to building structure**
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:
  and Residential Safe Rooms”

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

(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.

3/8" DOOR UNDERCUT WHEN SARGENT 655 STRIKE IS USED.
5/8" DOOR UNDERCUT WHEN SARGENT 653 STRIKE IS USED.
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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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 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

MANUFACTURER'S CONTINUOUS HINGE TEMPLATE WILL DETERMINE CLEARANCE
ACTUAL LEAF WIDTH
ACTUAL LEAF WIDTH

MANUFACTURER'S CONTINUOUS HINGE TEMPLATE WILL DETERMINE CLEARANCE
ACTUAL LEAF WIDTH
ACTUAL LEAF WIDTH

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

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

**NOTE:** 7/8" HINGES & ABOVE (4) Hinges are required when using butt hinges below 7/8" (3) hinges are required when using butt hinges

- 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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**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.

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

UL CLASSIFIED TO:

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 60-1/8" 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**
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 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 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

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
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 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-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 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.

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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'-0", 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 108,
UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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

10" x 10" VISIBLE GLASS ONLY
CONTRAFIAM 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 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.
DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE
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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)
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

** *** 1/2" BACKBEND *** 1" LESS THAN DEPTH *** 1/2" BACKBEND
THROAT

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

1-9/16" Varies 1-15/16"
RABBET SOFFIT RABBET

** 4-1/4" THRU 14"

** 5/8" STOP

---

** 1/2" BACKBEND
THROAT

** *** 1/2" BACKBEND

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

1-15/16" Varies 1-15/16"
RABBET SOFFIT RABBET

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

** 5/8" STOP

---

** 1/2" BACKBEND
THROAT

** *** 1/2" BACKBEND

** SERIES SR
SINGLE RABBET PROFILE
FOR 1-3/4" THICK DOORS

1-15/16" Varies
RABBET SOFFIT

4" THRU 14"

** 5/8" STOP

---

** 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 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 GAUGE 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.

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.

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# ASSEMBLIES MAY BE LIMITED TO 300"x700" 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)

Experience a safer
and more open world
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'-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

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:
DISASTER & TORNADO SHELTERS
STORM SHELTERS
COMMUNITY SHELTERS
SCHOOL SHELTERS
SCHOOL "SAFE" ROOMS
RESIDENTIAL "SAFE" ROOMS

Corbin Ruswin 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 Ruswin & 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-B & 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"

• 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 MORITSED 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" x 7'-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)
1-3/4" StormPro® 361 & 320 TORNADO RESISTANT GLAZED 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'-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 120C, 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
- 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.

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

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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 GROUNDED 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 EXISTING OPENING ANCHORS IS 1/2”, 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 GALVANNEALED OR COLD ROLLED STEEL.
FRAMES MAY BE KNOWN 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.

** 4-5/8” THRU 14”

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

Typical StormPro® Hinge

HINGE SAME JAMB SHOWN

INTERMEDIATE HINGES ARE EQUALLY SPACED.

STORMPRO ONLY
7/8” HEAVY & ABOVE 10” HINGES REQUIRED WHEN USING BUT HINGES
BELOW 7/8” HEAVY (1) HINGES ARE REQUIRED WHEN USING BUT HINGES

SEE PAGE D17A-11 FOR APPROVED STORMPRO HINGES

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

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

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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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.

Experience a safer and more open world

*Corbin Russwin FE6600 & Sargent FM7300 concealed vertical rods, top & bottom bolts, & mortise lock body casette must be factory installed in a CEQO 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 UNITL THE MORTISE LOCK IS READY TO BE INSTALLED.
ASSA ABLOY

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 108, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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

10" x 10" VISIBLE GLASS ONLY

CONTRAIN Ultramax 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 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.

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


NOTES:
* FRAME DEPTHS AVAILABLE IN 1/8" INCREMENTS
** MINIMUM DEPTHS 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 DEPTHS APPLIES TO ALL ANCHOR CONDITIONS EXCEPT 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 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 GAGE HOT-DIPPED A60 GALVANNEALED COLD ROLLED STEEL.

FRAMES MAY BE LOCK 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

INTERMEDIATE HINGES ARE EQUALLY SPACED.

# ASSEMBLIES MAY BE LIMITED TO 60" X 70"

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

Experience a safer and more open world
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 988, 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.

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"

- 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.

"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 6’0”x7’0” MINIMUM SIZE.

DESIGNED TO ENDURE TORNADO FORCE WINDS AND FLYING DEBRIS. DEVELOPED TO RESIST MISSILE PENETRATION 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.

LOCK:
CORBIN RUSSWIN FE6600 SERIES or SARGENT FM7300 SERIES

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

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:
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OPTIONAL HARDWARE AND ACCESSORIES:
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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" x 10" VISIBLE GLASS ONLY
CONTRAFORM 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 UTES NOT ALLOWED.

- 3/8" DOOR UNDERSLOT
- 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.

10 GAGE FLAT PLATE ASTRAGAL STRIP IS OPTIONAL AND WOULD BE FACTORY ATTACHED WITH SCREWS TO THE THREAT SIDE OF THE INACTIVE DOOR.

UL CLASSIFIED TO:
- ICC 500(2014) "ICC/NSSA Standard for the Design and Construction or Storm Shelters"
- 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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<td>FEMA 320, 361</td>
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<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)
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 RABBIT PROFILE
FOR 1-3/4" THICK DOORS

5/8" STOP

1-15/16" VARIES
1-15/16"

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 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 GAUGE 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.

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

# Assemblies may be limited to 6'0"x7'0" 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

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

**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 SHOWN ON EXTERIOR WALL
- BEAD SET TO STOP--POCKET TO BE SET IN THE FIELD
- GLASS BY OTHERS, AND IS NOT REQUIRED TO BE IMPACT RESISTANT.

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<td>15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH</td>
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</table>

**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"
Frame Profile Options and Parameters

**Series SU**
- Double Rabbet Profile for 1-3/4" thick doors
- 1-9/16" varies 1-15/16"
- Rabbet "Soffit" Rabbet
- ***4-1/4" thru 14"**" depth

**Series SQ**
- Double Rabbet Profile for 1-3/4" thick doors
- 1-15/16" varies 1-15/16"
- Rabbet "Soffit" Rabbet
- ****4-5/8" thru 14"**" depth

**Series SR**
- Single Rabbet Profile for 1-3/4" thick doors
- 1-15/16" varies 4" Thru 14"
- Rabbet "Soffit"
- **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 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 AS0 galvanized or cold rolled steel.
- Frames will have welded corners.
- Approved optional hardware and accessories are shown on pages D17A–10 and D17A–11.

**VERTICAL SECTION**
- Protective Plating
- 15/16" undercut

**HORIZONTAL SECTION**
- Protective Plating
- Threat Side

Inswing or Outswing
- See page D17A–5B for all anchor quantities & locations.

(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". SEE PAGE D17A–8 FOR WIRE & MASONRY "T" ANCHORS, ANCHOR BOLTS & CAP PLUGS.

FRAME ANCHORING

THE CENTER LOCK BOLT & CENTERLINE OF LOCK JAMB STRIKE WILL BE LOCATED AT THE VERTICAL CENTER OF THE OPENING AS A STANDARD.

1-1/4" Min. Concrete Embedment
3500 PSI Concrete

3/8" Powers-Lok-Bolt AS Sleeve Anchor

**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.

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

1-1/8" MIN. PLATE EDGE DISTANCE

5 SCREW PITCH MIN. PROTRUSION

FASTENERS BY OTHERS

EXISTING HOST STRUCTURE OR STEEL EMBEDMENT PLATE
1/4" MIN. THICK STEEL (A36 MIN.)

FRAME POURED IN PLACE WITH THE WALL DOES NOT REQUIRE ANCHORS

BUILDING STRUCTURE MAX. SHIM SPACE 1/4"

SINGLE RABBIT OPTIONAL

1.250" GREATER THAN FRAME DEPTH

STEEL SHIMS BY OTHERS

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

2" X JAMB DEPTH + 1.250"

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 FARMS 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.

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

Experience a safer and more open world
TECH-DATA

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
ACTIVE SHUTTER SURFACE BOLTS:
REINFORCED FOR CORBIN RUSSWIN 988CR, SARGENT 988, OR YALE 988
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 BUT HINGE PREPS.
HEIGHTS GREATER THAN 5'-0" THRU 6'-8" WILL HAVE
(4) MORTISE BUT 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:
• 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"

• 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.

ASSSEMBLY 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)

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 RABBIT.

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

SEE PAGES D17A-68 & D17A-8 FOR ALL ANCHOR LOCATIONS & DETAILS.

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

FRAMES WILL HAVE WELDED CORNERS.

HEIGHTS FROM 4" 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.

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"
RABBIT "SOFFIT" RABBIT
** 4-1/4" THRU 14"
* DEPTH

5/8" STOP

HEAD & SILL FACE 2" MIN. THRU 4" MAX.
JAMB FACE 2"

1/2" BACKBEND
1" LESS THAN DEPTH THROAT

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

1-15/16" VARIES 1-15/16"
RABBIT "SOFFIT" RABBIT
**** 4-5/8" THRU 14"
* DEPTH

5/8" STOP

HEAD & SILL FACE 2" MIN. THRU 4" MAX.
JAMB FACE 2"

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"
RABBIT SOFFIT 4" THRU 14"
* DEPTH

5/8" STOP

HEAD & SILL FACE 2" MIN. THRU 4" MAX.
JAMB FACE 2"

OPTIONAL FLAT PLATE ASTRAGAL:
10 GAGE 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

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

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 6’0” wide:
Min. of (6) anchors located from center line of the door meeting edges both sides 8”, 15” and 6” from door jamb rabbot.

Greater than 6’0” thru 7’0” wide:
Min. of (8) anchors located from center line of the door meeting edges both sides 8”, 15”, 22” & 6” from door jamb rabbot.

Greater than 7’0” thru 8’0” wide:
Min. of (8) anchors located from center line of the door meeting edges both sides 8”, 15”, 24” & 6” from door jamb rabbot.

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.

**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 DESIGNATED AND VERIFIED BY OTHERS.

FRAMES POURED IN PLACE WITH THE WALL DOES NOT REQUIRE ANCHORS

ANCHORING BY WELDING TO BUILDING STRUCTURE

18 GAUGE 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” THICKNESS.

STEEL SHIMS BY OTHERS

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

** 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 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 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. 28–10U15XLLX26DLHR
(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”) 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:

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.”  
(Converson: 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, 28–10U15XLLX26DLHR
(3) MEDECO MAXUM COMMERCIAL HIGH SECURITY DEADBOLTS, 1IC602T–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.

HINGE:
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.

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"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

Series SU
Double Rabbet Profile
For 1-3/4" Thick Doors

- 1" LESS THAN DEPTH
- HEAD FACE 2" MIN., 4" MAX.
- JAMB FACE 2"
- 5/8" STOP
- 1-9/16" Varies 1-15/16"
- RABBET Soffit RABBET
- ** 4-1/4" THRU 14" * DEPTH

Series SQ
Double Rabbet Profile
For 1-3/4" Thick Doors

- 1" LESS THAN DEPTH
- HEAD FACE 2" MIN., 4" MAX.
- JAMB FACE 2"
- 5/8" STOP
- 1-15/16" Varies 1-15/16"
- RABBET Soffit RABBET
- **** 4-5/8" THRU 14" * DEPTH

Series SR
Single Rabbet Profile
For 1-3/4" Thick Doors

- 1" LESS THAN DEPTH
- HEAD FACE 2" MIN., 4" MAX.
- JAMB FACE 2"
- 5/8" STOP
- 1-15/16" Varies 1-15/16"
- RABBET Soffit
- 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 7-1/16", 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 rabbet.
- 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 preparation. Deadbolt strike prepss are a 1" round hole with reinforcing welded to the throat of the frame. Deadbolt strike prepss do not require strikes to be installed.
- See pages D17A-8 & D17A-9 for all anchor quantities & locations.
- Frames are 16 gage 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" undercut to center of glass, centered in door width available. Optional door with glass available as inswing 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.

HORIZONTAL SECTION

(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>Approved min. opening size up to and including max. opening size</td>
<td>Welded to the Building Structure</td>
<td>Minimum of 5 weld locations &amp; must weld on both faces of the frame head &amp; all at each location: one location at the centerline of the door meeting edges, 2 are located 6&quot; from the centerline of the door meeting edges &amp; 2 welds are located 6&quot; from each door jam rabbit.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including max. opening size</td>
<td>Welded to the Building Structure</td>
<td>Minimum of 2 weld locations required. Locations are 8&quot; from each door jam rabbit. Must weld on both faces of the frame head &amp; all at each location.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including max. opening size</td>
<td>Welded to the Building Structure</td>
<td>Weld locations, maximum of 1/2&quot; from the sill, max. 10&quot; from the head rabbit and 24&quot; max. on center. Must weld on both faces of the frame at each location.</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, 3/8" SMS/SELF DRILLING SCREW/UNC BOLT (BY OTHERS)**

**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.**

**POURED IN PLACE WALL**

**EXISTING OPENING –PIPE & PLATE FRAME NOT REQUIRED TO BE GROUTED**

**MASONRY – WIRE ANCHORS**

**MASONRY T ANCHORS**

The throat of the frame jambs must be fully grouted with min. 1800 PSI grout.

**ALTERNATE PROFILE**

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

Experience a safer and more open world
### TECH-DATA


**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. opening size up to &amp; including 6” x 7”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Minimum of 6 anchors. On both sides of the centerline of the door meeting edges: one each located at 8”, 15”, and 22” from the centerline of the door meeting edges. 2 anchors required 6” from each door jamb rabbet.</td>
</tr>
<tr>
<td>Greater than 6” x 7” and up to and including 7” x 7”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Minimum of 8 anchors. On both sides of the centerline of the door meeting edges: one each located at 8”, 15”, and 22” from the centerline of the door meeting edges. 2 anchors required 6” from each door jamb rabbet.</td>
</tr>
<tr>
<td>Greater than 7” x 7” and up to and including 8” x 8”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Minimum of 8 anchors. On both sides of the centerline of the door meeting edges: one each located at 8”, 15”, and 24” from the centerline of the door meeting edges. 2 anchors required 6” from each door jamb rabbet.</td>
</tr>
<tr>
<td>Approved min. opening size up to &amp; including 4” x 8”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Expansion Bolt or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Minimum of 2 anchors required. Locations are 6” from each door jamb rabbet. When anchors are located in the door rabbet and latching hardware is FM7300/FE6600, the anchor at the lock jamb side will be located at 9”.</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 groused 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. opening size up to and including 6” x 7”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Maximum of 8” from the sill, maximum of 4” from the head rabbet, and 24” maximum on center.</td>
</tr>
<tr>
<td>Greater than 6” x 7” and up to and including 7” x 7”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Maximum of 8” from the sill, maximum of 4” from the head rabbet, and 21” maximum on center.</td>
</tr>
<tr>
<td>Greater than 7” x 7” and up to and including 8” x 8”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Maximum of 8” from the sill, maximum of 4” from the head rabbet, and 18” maximum on center.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including 3” x 7”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Anchor or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Maximum of 8” from the sill, maximum of 4” from the head rabbet, and 21” maximum on center.</td>
</tr>
<tr>
<td>Greater than 3” x 7” and up to and including 4” x 8”</td>
<td>Existing Wall Anchors Powers 3/8” Lok-Bolt AS Sleeve Expansion Bolt or 3/8” SMS / Self Drilling Screw / UNC Bolt</td>
<td>Maximum of 8” from the sill, maximum of 4” from the head rabbet, and 18” maximum on center.</td>
</tr>
</tbody>
</table>

**12 Gauge 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>Approved min. opening size up to and including max. opening size</td>
<td>12 Ga. Masonry “T” Anchors</td>
<td>Maximum of 8” from the sill, maximum of 6” from the head rabbet, and 24” maximum on center.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including max. opening size</td>
<td>12 Ga. Masonry “T” Anchors</td>
<td>Maximum of 8” from the sill, maximum of 6” from the head rabbet, and 24” maximum on center.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including 7” x 7”</td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12” from the sill, maximum of 10” from the head rabbet, and 16” maximum on center.</td>
</tr>
<tr>
<td>Greater than 7” x 7” and up to and including 8” x 8”</td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12” from the sill, maximum of 10” from the head rabbet, and 14” maximum on center.</td>
</tr>
<tr>
<td>Approved min. opening size up to and including 3” x 7”</td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12” from the sill, maximum of 10” from the head rabbet, and 18” maximum on center.</td>
</tr>
<tr>
<td>Greater than 3” x 7” and up to and including 4” x 8”</td>
<td>Wire Masonry Anchors</td>
<td>Maximum of 12” from the sill, maximum of 10” from the head rabbet, and 12” maximum on center.</td>
</tr>
</tbody>
</table>

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

Experience a safer and more open world
ASSA ABLOY StormPro® OPTIONAL ACCESSORIES

OPTIONS FOR SARGENT FM7300 OR CORBIN RUSSWIN FE6800 ASSEMBLIES

Pemko Perimeter Seals:
- 5773, 305 Perimeter Seal
- 5771 Astragal
- 5772 Astragal
- 305_N Split Astragal (Threat Side Only)
- 346 Rain Drip (Threat Side Mounting Only)
- 345 Door Bottom (Threat Side Mounting Only)

Electronic Power Transfer:
- Def. Handset Entry Systems, DBA Securitron Magnalock Corp.

Door Position Switch:
- DPS-M, Securitron Magnalock Corp.

Wire Harness:
- QC-C1500P Electrolynx Wire Harness

Kick Plate:
- Rockwood 620 or 622

Rockwood K1050 (Must be Screw Applied for Fire Rated Assemblies)

OPTIONS FOR SARGENT FM6100 OR CORBIN RUSSWIN FE6700 ASSEMBLIES

Pemko Perimeter Seals:
- 5773, 305 Perimeter Seal
- 346 Rain Drip (Threat Side Mounting Only)
- 345 Door Bottom (Threat Side Mounting Only)
- 5771 Astragal or 5772 Astragal
- 305_N Split Astragal (Threat Side Only)

Electronic Power Transfer:
- Def. Handset 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 ASSEMBLIES

Pemko Perimeter Seals:
- 5773, 305 Perimeter Seal, S771 Astragal or S772 Astragal
- 346 Rain Drip (Threat Side Mounting Only)
- 345 Door Bottom (Threat Side Mounting Only)

Electronic Power Transfer:
- Def. Handset Entry Systems, DBA Securitron Magnalock Corp.

Door Position Switch:
- DPS-M, Securitron Magnalock Corp.

Rod Guards:
- Rockwood BFG1050 (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 CORBIN RUSSWIN FE5400S ASSEMBLIES

Pemko Perimeter Seals:
- 5773, 305 Perimeter Seal, S771 Astragal or S772 Astragal
- 346 Rain Drip (Threat Side Mounting Only)
- 345 Door Bottom (Threat Side Mounting Only)

Electronic Power Transfer:
- Def. Handset Entry Systems, DBA Securitron Magnalock Corp.

Door Position Switch:
- DPS-M, Securitron Magnalock Corp.

Wire Harness:
- QC-C1500P Electrolynx Wire Harness

Rod Guards:
- Rockwood BFG1050 (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) MEDECO MAXUM DEADBOLT ASSEMBLIES

Pemko Perimeter Seals:
- 5773 or 305 Perimeter Seal
- 346 Rain Drip (Threat Side Mounting Only)
- 345 Door Bottom (Threat Side Mounting Only)

Electronic Power Transfer:
- Def. Handset 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

Experience a safer and more open world
ASSA ABLOY 1-3/4" StormPro® 320 & 361 APPROVED HINGES, CLOSERS, HOLDERS, STOP/HOLDERS AND HARDWARE MULLIONS

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 .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)