

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. 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.

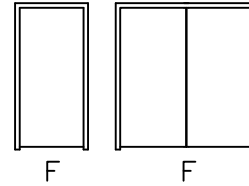
OPTIONAL HARDWARE AND ACCESSORIES:

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.

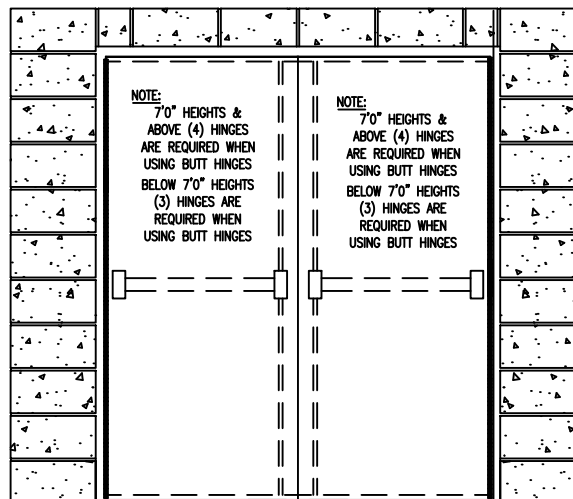
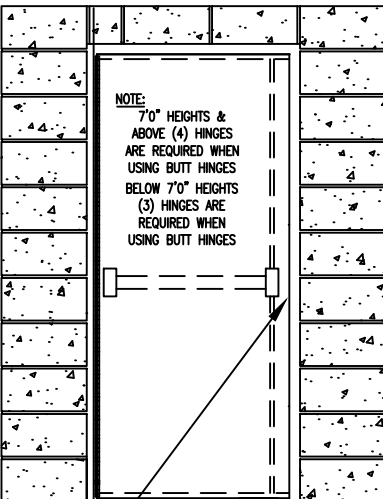
DOOR DESIGN



SUGGESTED USE:
DISASTER AND 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"



(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.

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341
FEMA 361/320		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341

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****

D17A-1A

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.

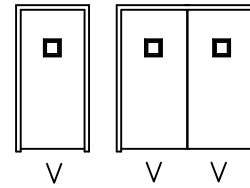
OPTIONAL HARDWARE AND ACCESSORIES:

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.

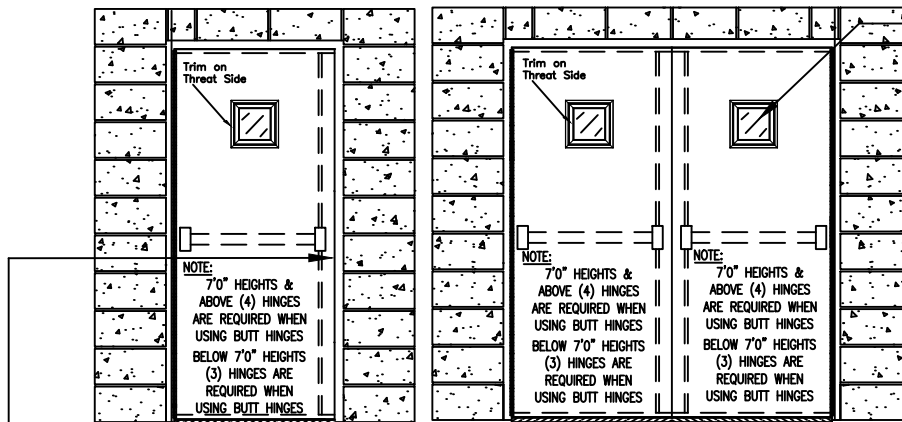
DOOR DESIGN



SUGGESTED USE:
DISASTER AND 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"



10"x10" VISIBLE GLASS ONLY

CONTRAFAM 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.

- 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.

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341
FEMA 361/320		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341

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.

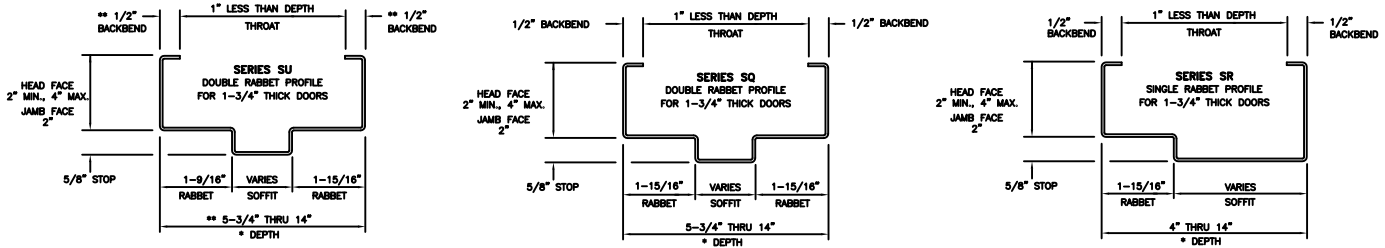
****FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE****

06/04/20

D17A-1B

ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH SARGENT FM8700 SURFACE VERTICAL ROD EXIT DEVICE UL CLASSIFIED TO ICC 500(2014), FEMA P-361 (2015) AND FEMA P-320(2014)

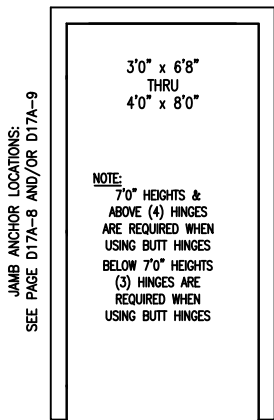
Frame Profile Options and Parameters



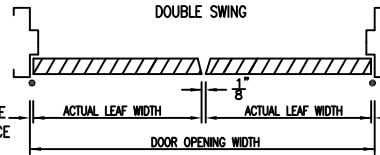
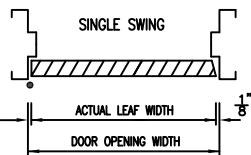
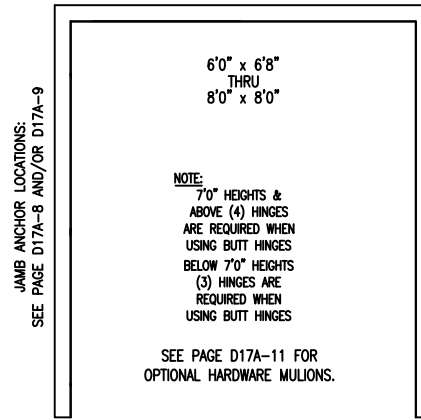
NOTES:

- * 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 A60 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)

08/19/19

D17A-2

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.

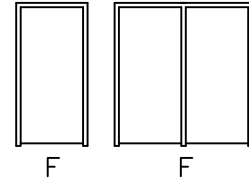
OPTIONAL HARDWARE AND ACCESSORIES:

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.

DOOR DESIGN



MULLION:

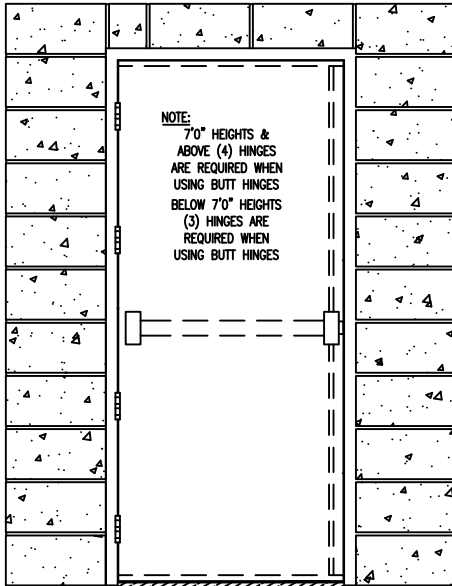
CORBIN RUSSWIN FE707A or FE708A

SUGGESTED USE:

- DISASTER AND 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"



- 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)

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341
FEMA 361,320		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341

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

08/27/19

D17A-2A

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.

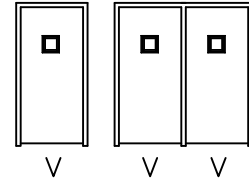
OPTIONAL HARDWARE AND ACCESSORIES:

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.

DOOR DESIGN



MULLION:

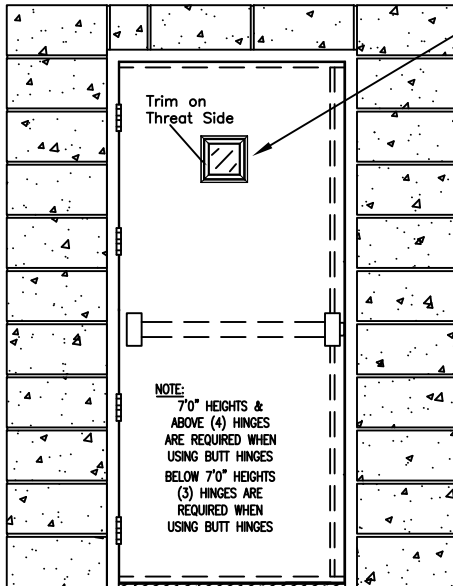
CORBIN RUSSWIN FE707A or FE708A

SUGGESTED USE:

- DISASTER AND 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"



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)

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341
FEMA 361,320		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-284	+/-341

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****

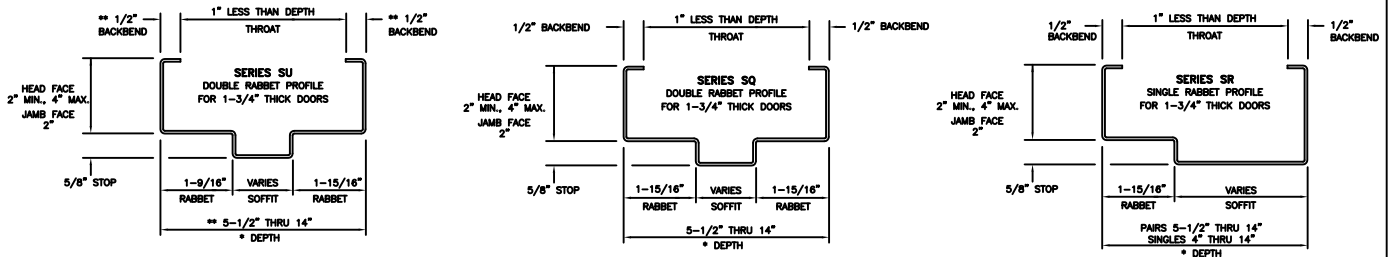
08/27/19

ASSA ABLOY

1-3/4" StormPro® 361 & 320 TORNADO RESISTANT DOOR & FRAME WITH CORBIN RUSSWIN FE5400S SURFACE MULTI POINT EXIT DEVICE
 UL CLASSIFIED TO ICC 500(2014), FEMA P-361 (2015) AND FEMA P-320 (2014)

D17A-2B

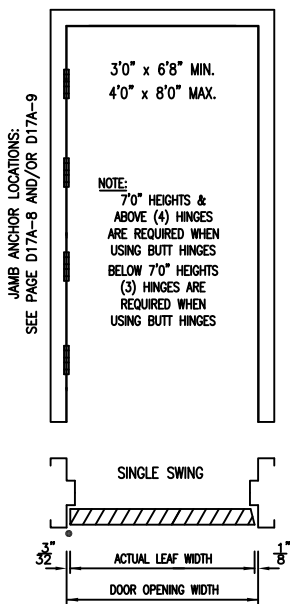
Frame Profile Options and Parameters



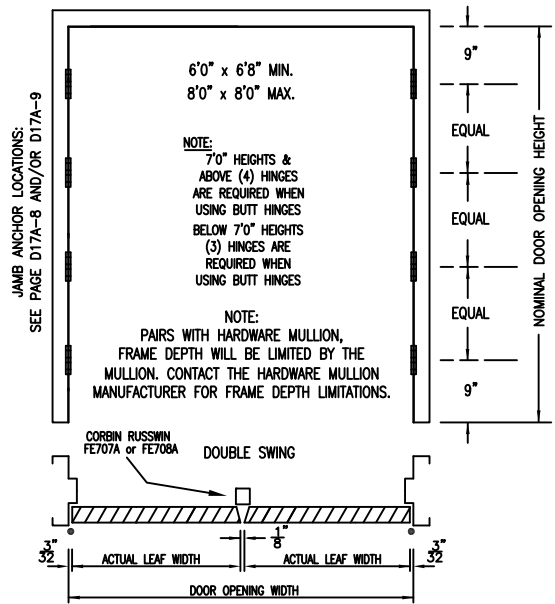
NOTES:

- * 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 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)

8/14/19

D17A-3

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 D17-11.

OPTIONAL FIRE RATING:

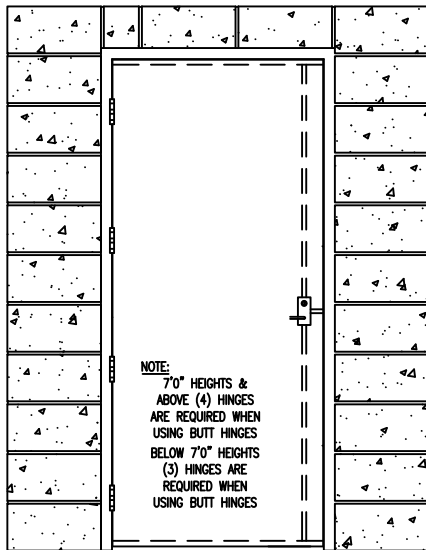
UP TO AND INCLUDING 90 MINUTES IN ACCORDANCE, WITH UL10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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.

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
- 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.

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	INSWING OR	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

08/26/19

D17A-3A

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:

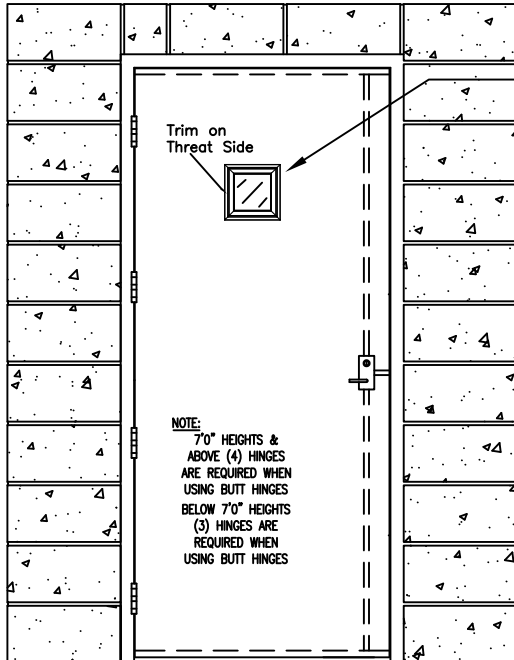
UP TO AND INCLUDING 90 MINUTES IN ACCORDANCE, WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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.

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 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"

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	INSWING OR	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361	OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

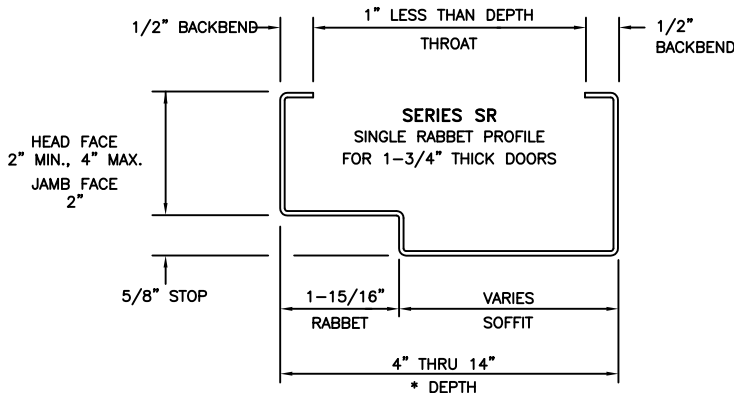
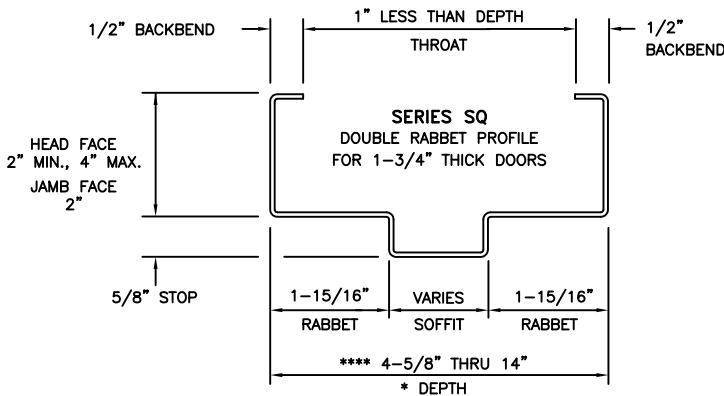
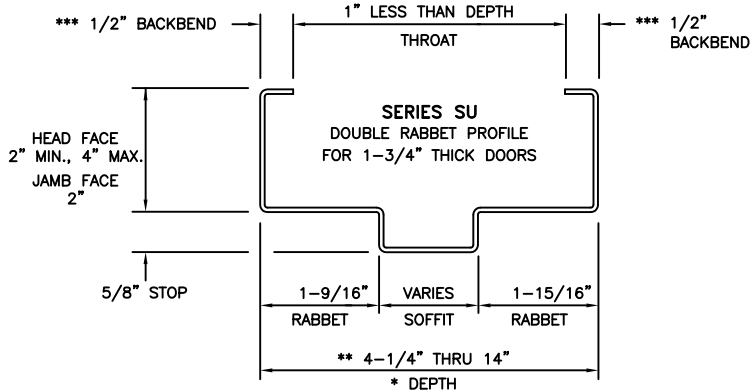
08/26/19

ASSA ABLOY

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

UL Classified to ICC 500 (2014), FEMA P-361 (2015) and FEMA P-320 (2014)

Frame Profile Options and Parameters



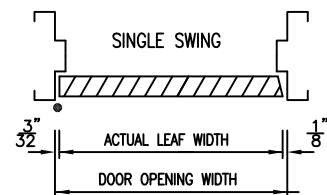
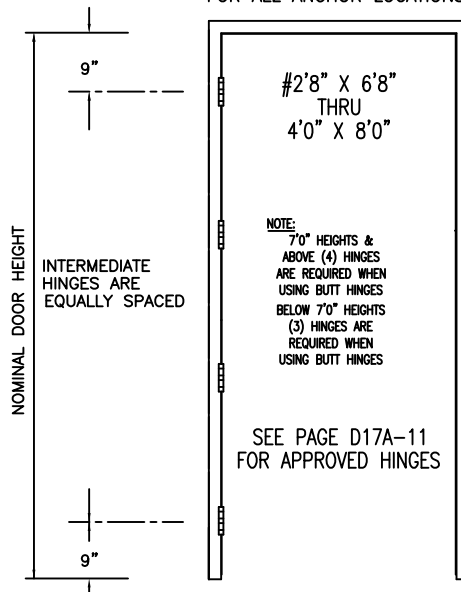
ASSEMBLIES MAY BE LIMITED TO 3'0"x7'0" MINIMUM SIZE FOR COMPLIANCE WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

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

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-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.



HORIZONTAL SECTION

D17A-3B

08/16/19

D17A-3C

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:

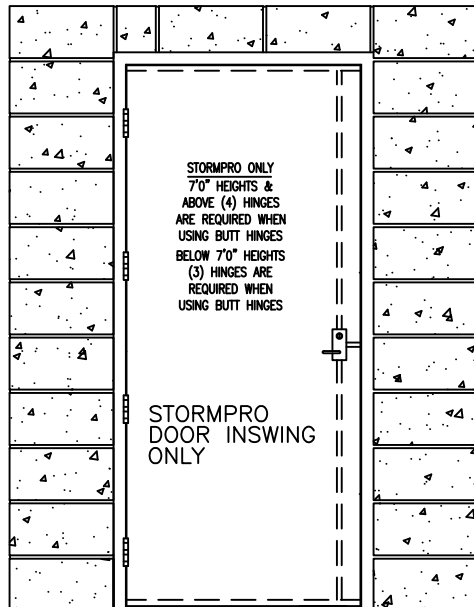
UP TO AND INCLUDING 3 HRS IN ACCORDANCE, WITH UL10B, UL10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

SUGGESTED USE:

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

- Corbin 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.

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 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.

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	INSWING ONLY	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

08/28/19

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

D17A-3D

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:

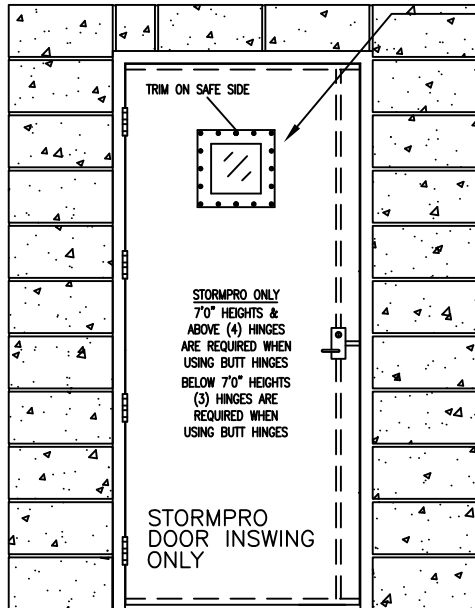
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE, WITH UL10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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.

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



10"x10" VISIBLE GLASS ONLY

CONTRAFAM 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:

- 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"

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	IN SWING ONLY	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

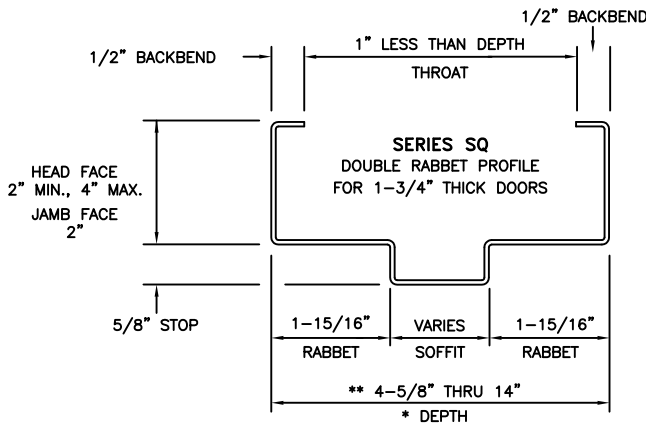
08/28/19

ASSA ABLOY

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

UL Classified to ICC 500 (2014), FEMA P-361 (2015) and FEMA P-320 (2014)

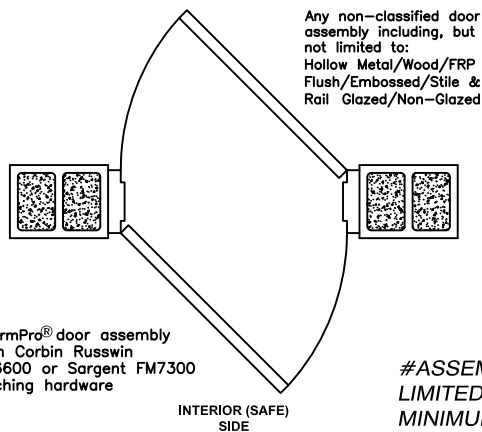
Frame Profile Options and Parameters



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". 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 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. 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.

OPPOSITE JAMB SWING
EXTERIOR (THREAT) SIDE



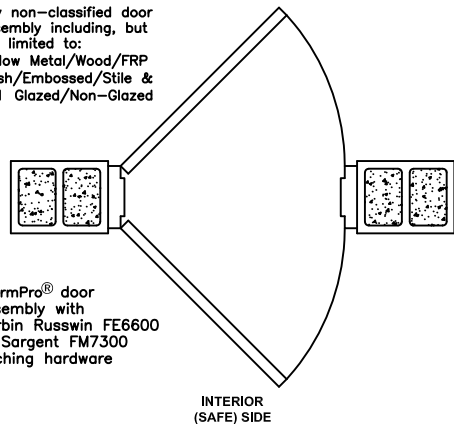
Any non-classified door assembly including, but not limited to:
Hollow Metal/Wood/FRP
Flush/Embossed/Stile & Rail
Glazed/Non-Glazed

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

INTERIOR (SAFE) SIDE

#ASSEMBLIES MAY BE LIMITED TO 3'0"x7'0" MINIMUM SIZE FOR COMPLIANCE WITH DOMESTIC GOVERNMENT SOURCING RESTRICTIONS, TRADE AGREEMENT OR ACQUISITION PLOICIES.

SAME JAMB SWING
EXTERIOR (THREAT) SIDE

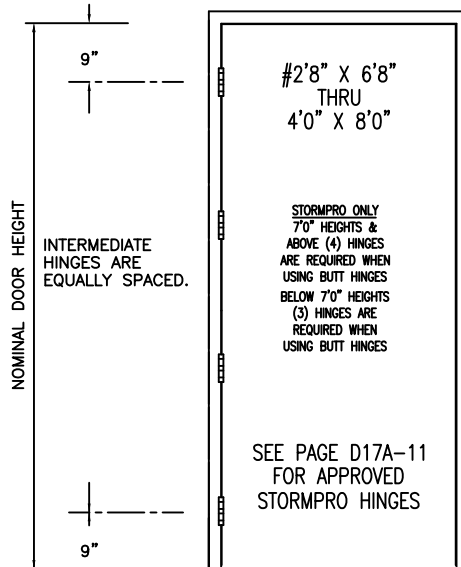


Any non-classified door assembly including, but not limited to:
Hollow Metal/Wood/FRP
Flush/Embossed/Stile & Rail
Glazed/Non-Glazed

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

INTERIOR (SAFE) SIDE

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

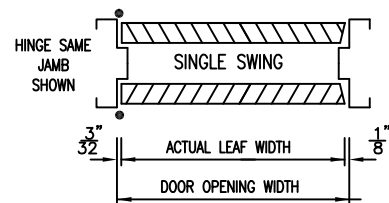


#2'8" X 6'8" THRU 4'0" X 8'0"

STORMPRO ONLY
7'0" HEIGHTS & ABOVE (4) HINGES ARE REQUIRED WHEN USING BUTT HINGES
BELOW 7'0" HEIGHTS (3) HINGES ARE REQUIRED WHEN USING BUTT HINGES

SEE PAGE D17A-11 FOR APPROVED STORMPRO HINGES

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



HORIZONTAL SECTION

(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

D17A-4

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. POLYURETHANE CORE MAY BE PROVIDED AT FACTORY DISCRETION.

LOCK:

CORBIN RUSSWIN FE6600 SERIES or SARGENT FM7300 SERIES

SUGGESTED USE:

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

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:

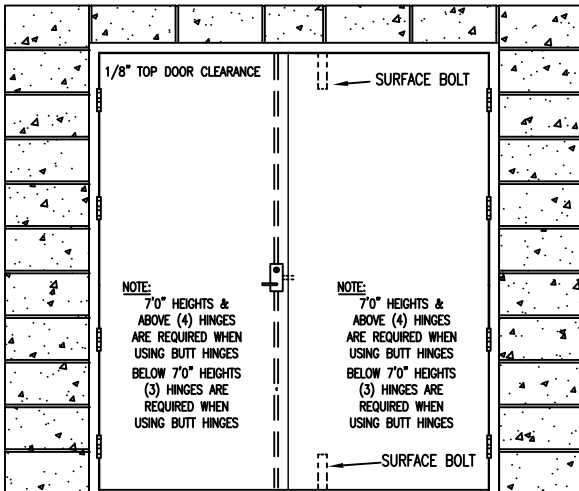
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:

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

- 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.

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



- 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 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 GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC500/NSSA	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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 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)

08/16/19

Experience a safer and more open world

ASSA ABLOY

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

D17A-4A

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 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:

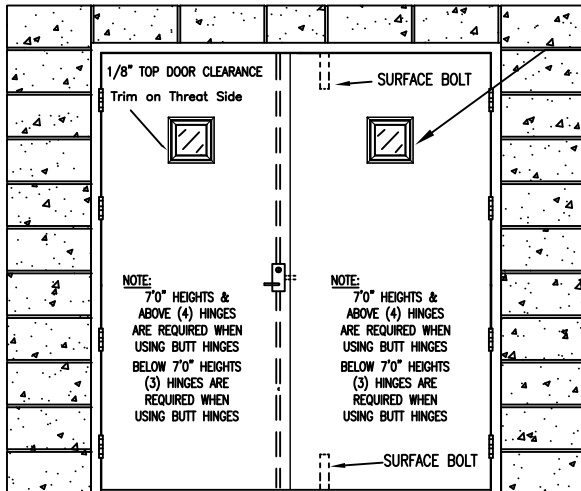
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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.

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



10"x10" VISIBLE GLASS ONLY

CONTRAFAM 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 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 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 GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC500/NSSA	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

08/21/19

Experience a safer and more open world

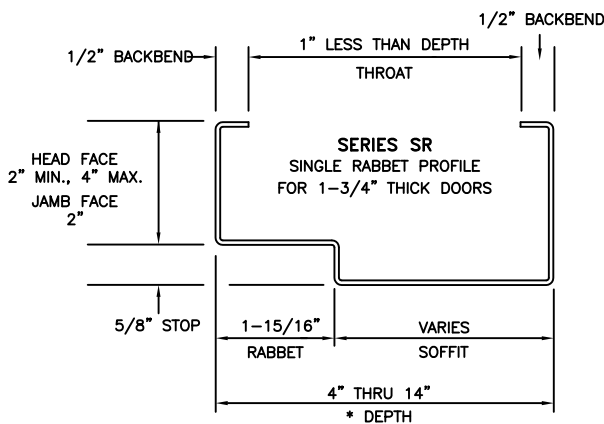
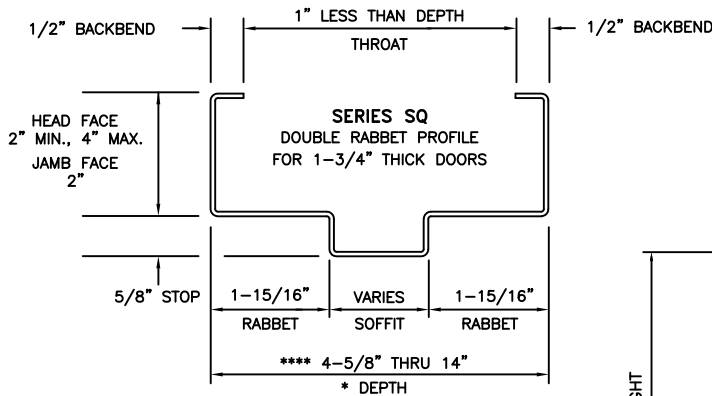
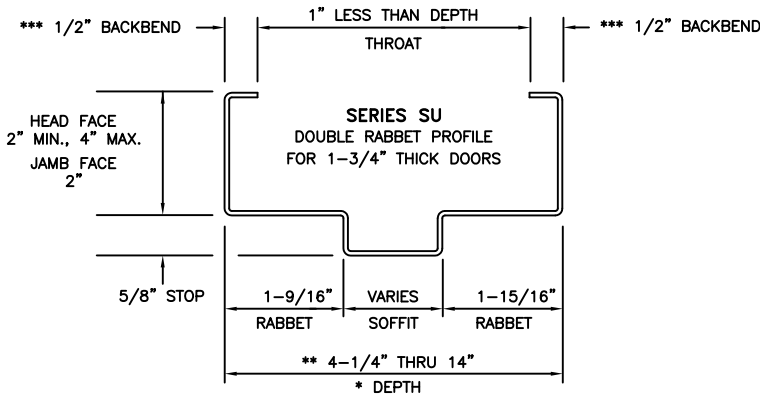
ASSA ABLOY

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

UL Classified to ICC 500 (2014), FEMA P-361 (2015) and FEMA P-320 (2014)

D17A-4B

Frame Profile Options and Parameters



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 GROUDED 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.

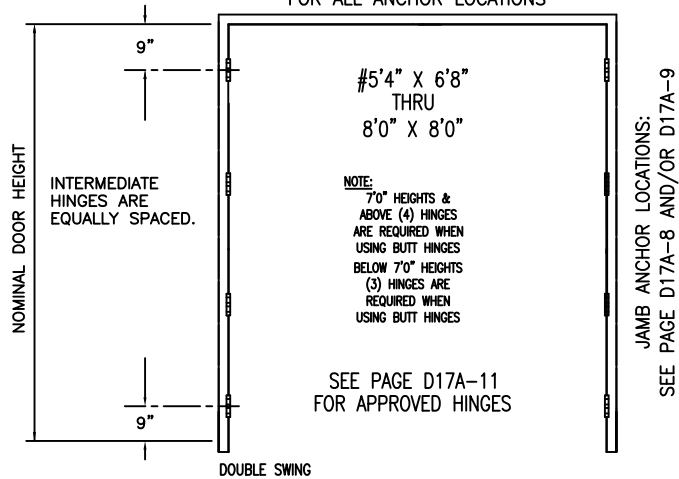
HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

4-SIDED FRAMES ARE OPTIONAL.

3/8" STD DOOR UNDERCUT

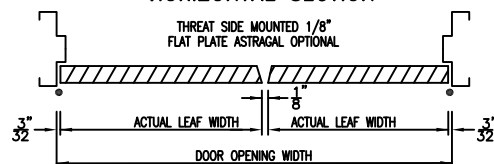
3/8" MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE.

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



#ASSEMBLIES MAY BE LIMITED TO 6'0"x7'0" MINIMUM SIZE FOR COMPLIANCE WITH DOMESTIC GOVERNMENT SOURCING REGULATIONS, TRADE AGREEMENTS OR ACQUISITION POLICIES.

HORIZONTAL SECTION



08/16/19

(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

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

SUGGESTED USE:

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

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 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:

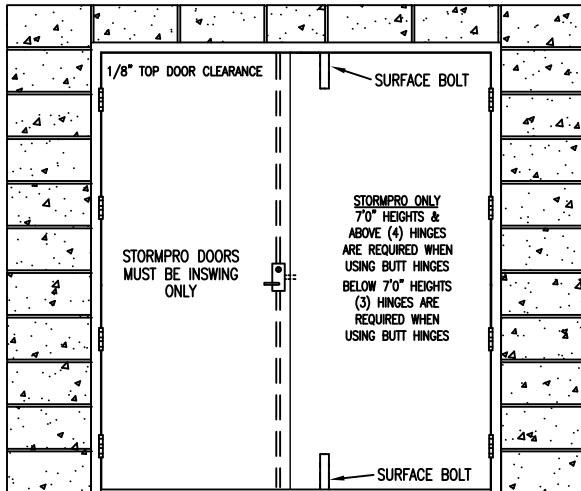
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

OPTIONAL FIRE RATING:

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

- 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.

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.

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

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

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC500/NSSA	IN SWING ONLY	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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 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

D17A-4D

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:

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:

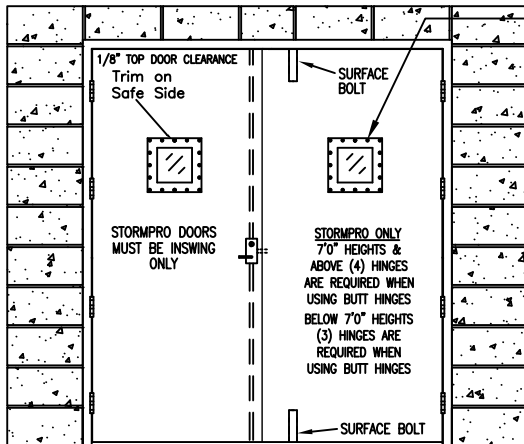
UP TO AND INCLUDING 90 MINUTE IN ACCORDANCE WITH UL 10B, UL 10C, UL 1784, & NFPA 252 IN HONEYCOMB CORE ONLY.

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.

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



10"x10" VISIBLE GLASS ONLY

CONTRAFAM 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 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-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 Buisness"

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

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC500/NSSA	IN SWING ONLY	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320, 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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.

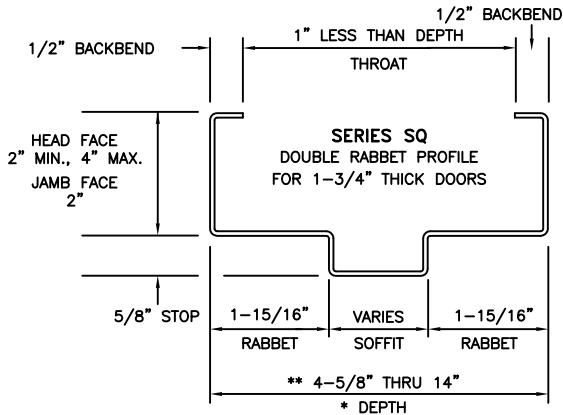
(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

09/06/19

ASSA ABLOY 1-3/4" StormPro® 361 & 320 TORNADO RESISTANT COMMUNICATING PAIRS WITH CORBIN RUSSWIN FE6600 or SARGENT FM7300 CONCEALED MULTI POINT LOCK
UL Classified to ICC 500 (2014), FEMA P-361 (2015) and FEMA P-320 (2014)

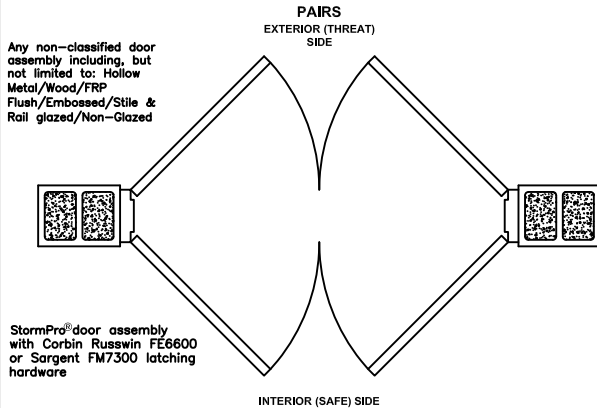
D17A-4E

Frame Profile Options and Parameters



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 A60 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.

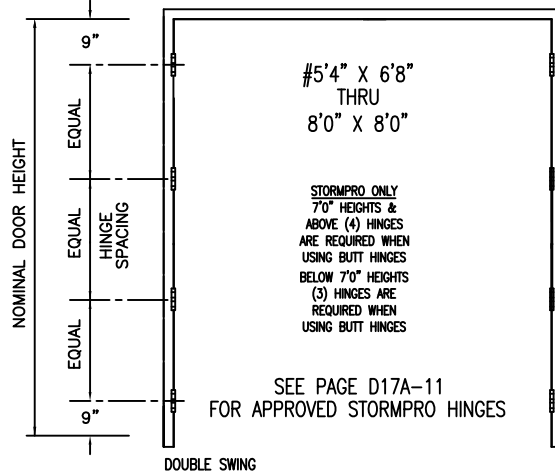


Any non-classified door assembly including, but not limited to: Hollow Metal/Wood/FRP Flush/Embossed/Stile & Rail glazed/Non-Glazed

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

#Assemblies may be limited to 6'0"x7'0" minimum size for compliance with domestic government sourcing regulations, trade agreements or acquisition policies.

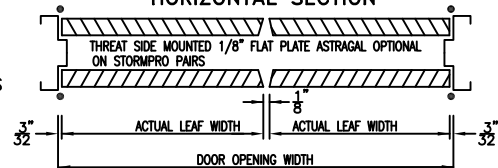
SEE PAGE D17A-8 AND/OR D17A-9 FOR ALL ANCHOR LOCATIONS



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

3/8" STD DOOR UNDERCUT
 3/8" MAX. BETWEEN BOTTOM OF DOOR AND TOP OF STRIKE.

HORIZONTAL SECTION



STORMPRO PAIRS INSWING ONLY

08/28/19

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

D17A-5

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 BUTT HINGE PREPS.
HEIGHTS 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.

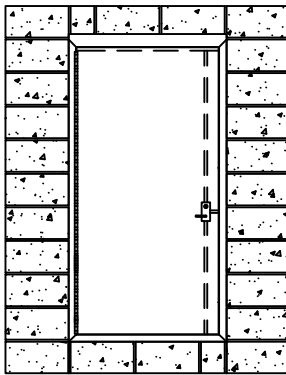
SUGGESTED USE:

- DISASTER AND 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"

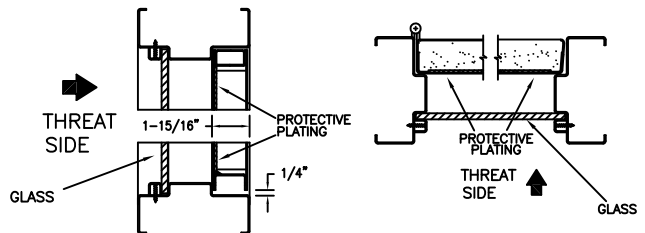
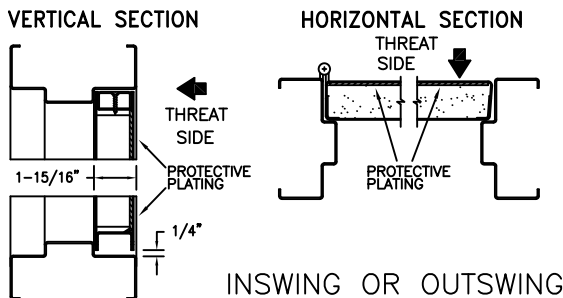
SEE PAGE D17A-5B FOR ALL ANCHOR LOCATIONS



- 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.

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 361 & 320		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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.

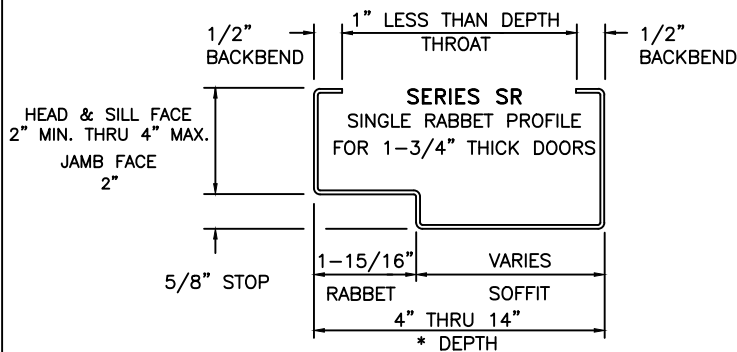
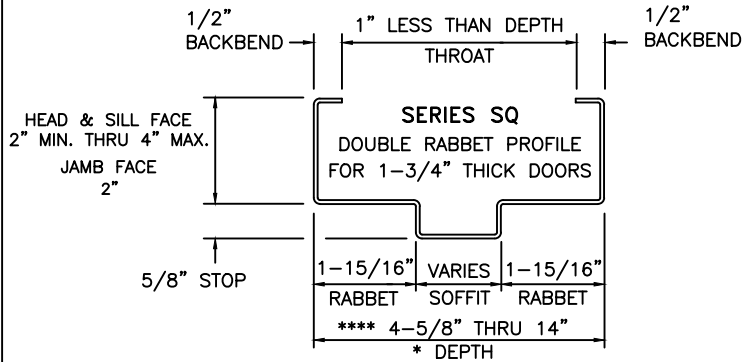
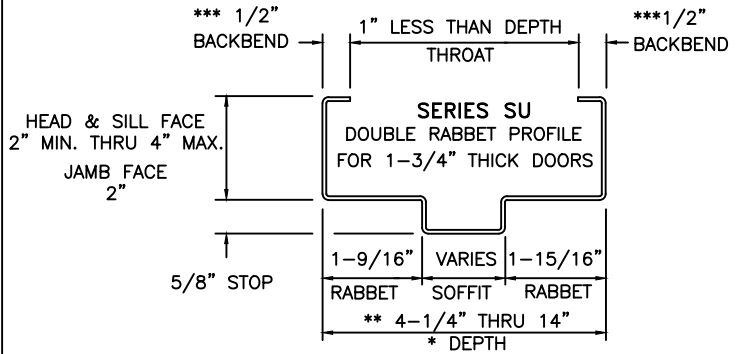
"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WHEN WELDED TO BUILDING STRUCTURE"

08/16/19

ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT SINGLES WITH CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK UL CLASSIFIED TO ICC 500(2014), FEMA P-361(2015) AND FEMA P-320(2014)

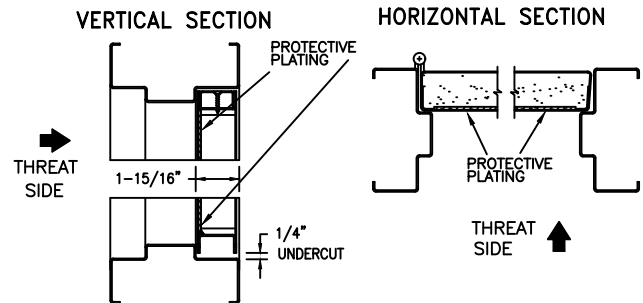
D17A-5A

Frame Profile Options and Parameters



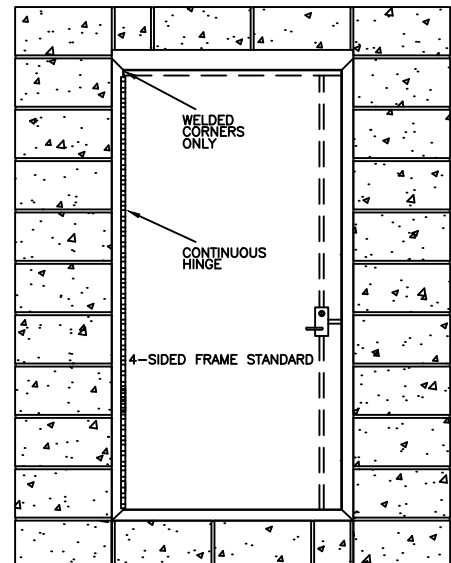
NOTES:

- * 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 GAGE HOT-DIPPED A60 GALVANNEALED or COLD ROLLED STEEL.
- FRAMES WILL HAVE WELDED CORNERS.
- APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE SHOWN ON PAGES D17A-10 AND D17A-11.



INSWING OR OUTSWING

SEE PAGE D17A-5B FOR ALL ANCHOR QUANTITIES & LOCATIONS.



02/27/20

(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
UL CLASSIFIED TO ICC 500 (2014), FEMA P-361 (2015) AND FEMA P-320 (2014)

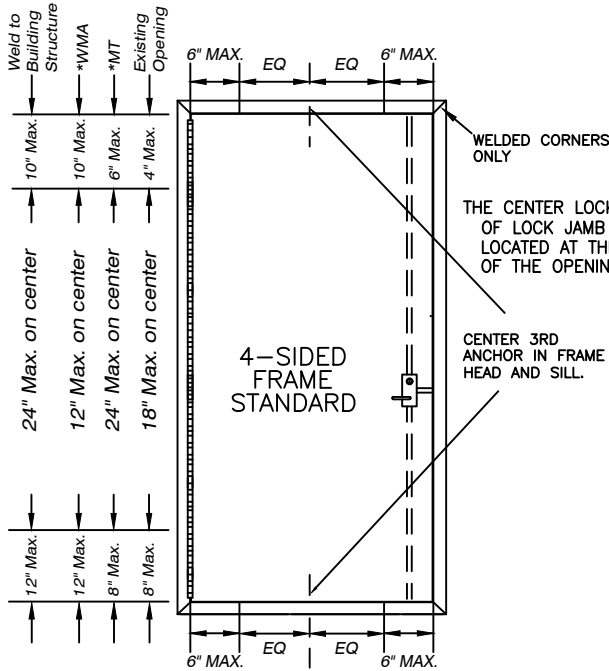
D17A-5B

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".

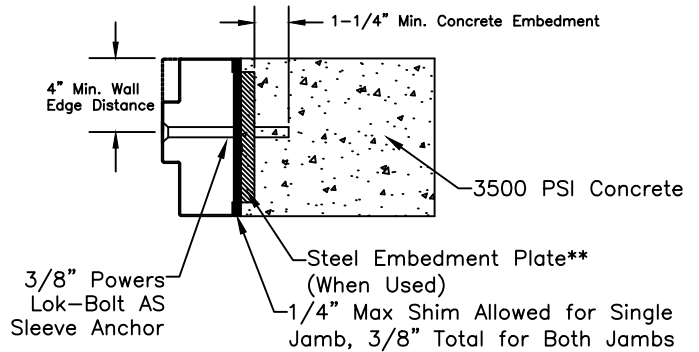
FRAME ANCHORING

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

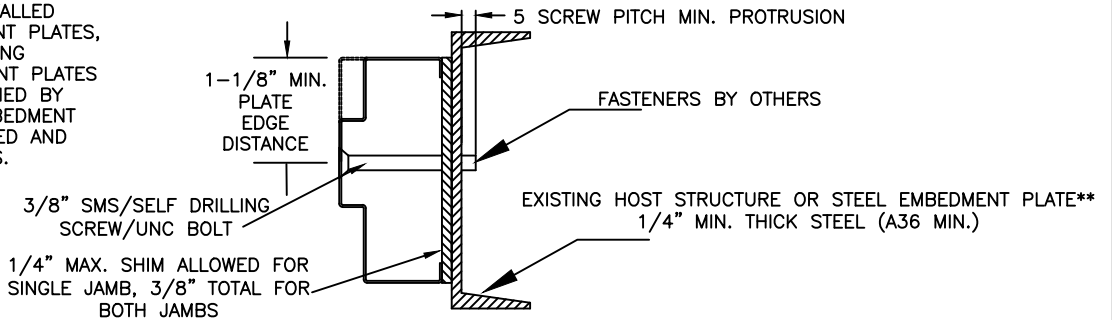


* THE THROAT OF FRAME JAMBS MUST BE FULLY GROUTED WITH MIN. 1800 PSI GROUT WHEN INSTALLING WITH WIRE OR MASONRY T ANCHORS.

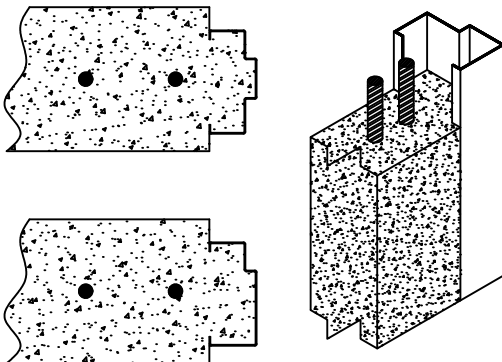
"FRAMES ARE NOT REQUIRED TO BE GROUTED WHEN USING EXISTING WALL JAMB ANCHORS OR WELDED TO BUILDING STRUCTURE"



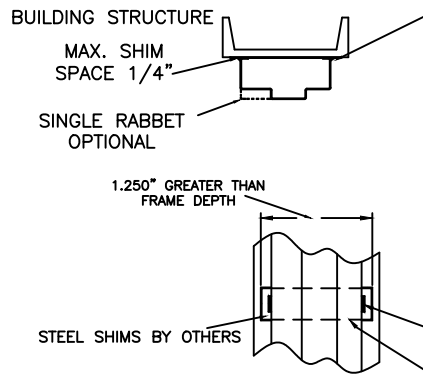
**ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES SHALL BE DESIGNED AND VERIFIED BY OTHERS.



FRAME POURED 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 0.053" 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
 2" X JAMB DEPTH + 1.250"

02/27/20

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

D17A-6

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

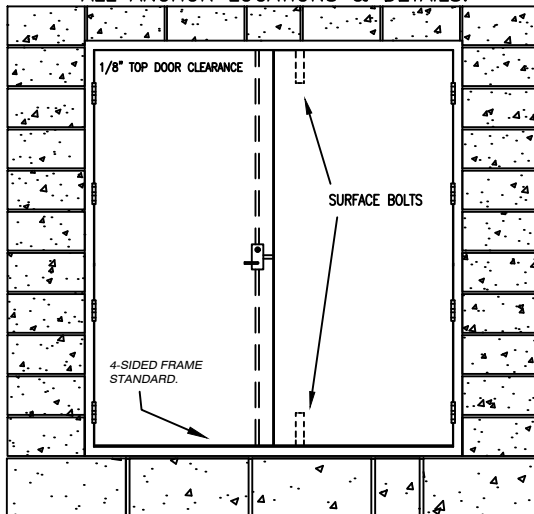
SUGGESTED USE:

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

UL CLASSIFIED TO:

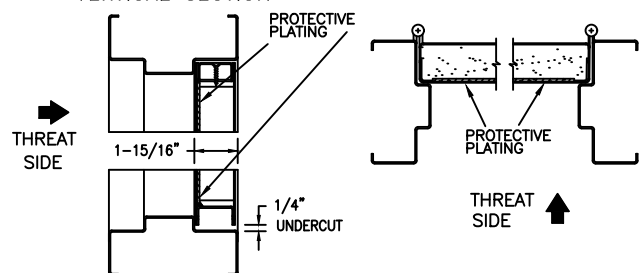
- ICC 500(2014) "ICC/NSSA Standard for the Design and Construction of Storm Shelters"
- FEMA P-361(2015) "Safe Rooms for Tornadoes & Hurricanes: Guidance for Community and Residential Safe Rooms"
- FEMA P-320 (2014) "Taking Shelter from the storm: Building a Safe Room for Your Home or Small Business"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

SEE PAGES D17A-6B & D17A-8 FOR ALL ANCHOR LOCATIONS & DETAILS.



VERTICAL SECTION

HORIZONTAL SECTION



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.

GLASS MAY BE INSTALLED IN OPPOSITE FRAME RABBET AS AN OPTION. GLASS BY OTHERS, AND IS NOT REQUIRED TO BE IMPACT RESISTANT.

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

STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC500/NSSA	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341
FEMA 320 & 361		15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	±284	±341

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)

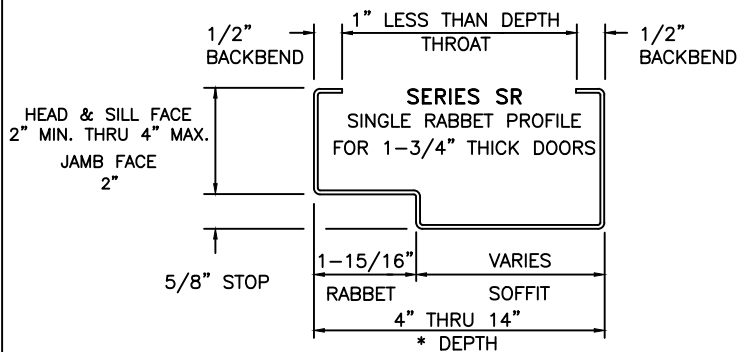
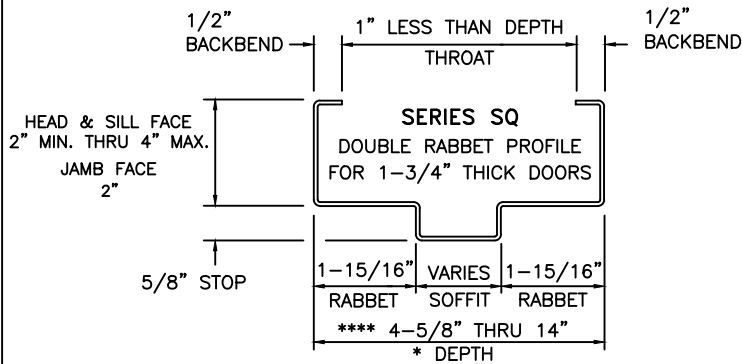
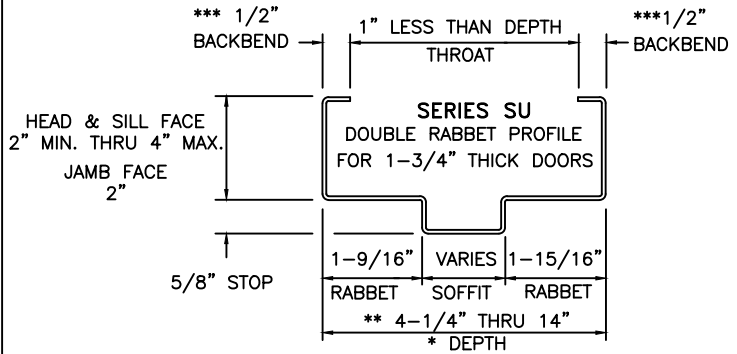
Experience a safer and more open world

02/27/20

ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT PAIRS WITH CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK UL CLASSIFIED TO ICC 500(2014), FEMA P-361(2015) AND FEMA P-320(2014)

D17A-6A

Frame Profile Options and Parameters

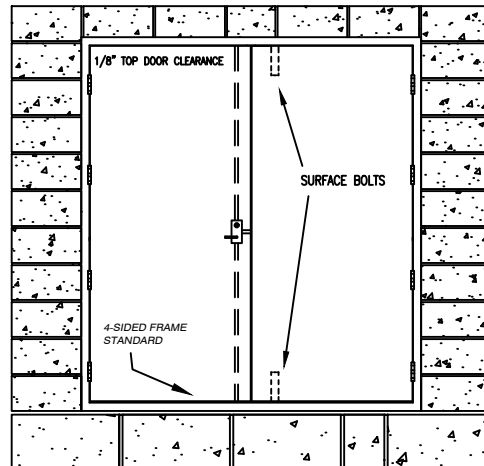


OPTIONAL FLAT PLATE ASTRAGAL:
10 GAGE FLAT PLATE ASTRAGAL IS FACTORY ATTACHED WITH SCREWS TO THE THREAT SIDE OF THE ACTIVE OR INACTIVE SHUTTER, DEPENDING ON IN SWING OR OUT SWING APPLICATION.

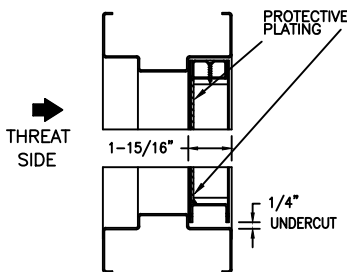
NOTES:

- * 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 GAGE HOT-DIPPED A60 GALVANNEALED 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 6'8" WILL HAVE (4) HINGE PREPS.
- APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE LISTED ON PAGES D17A-10 AND D17A-11.

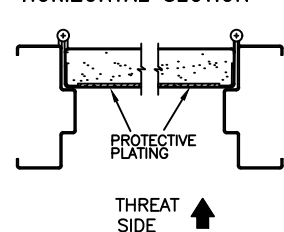
SEE PAGES D17A-6B & D17A-8 FOR ALL ANCHOR LOCATIONS & DETAILS.



VERTICAL SECTION



HORIZONTAL SECTION



02/27/20

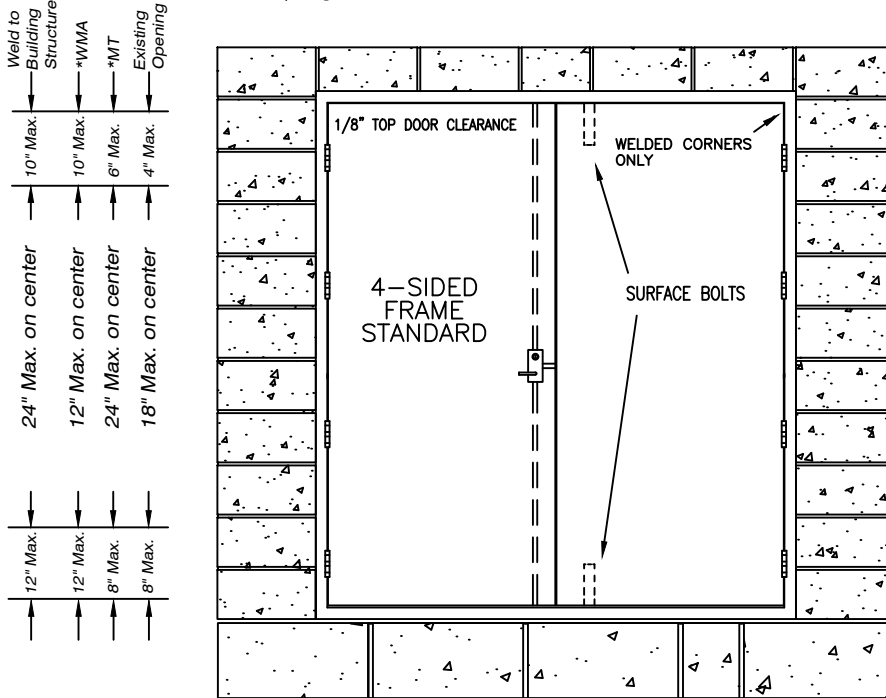
(Conversion: 1" = 25.4 mm, e.g., 1-3/4" = 44.45 mm)

D17A-6B

**ASSA ABLOY 1-3/4" StormPro® Shutter TORNADO RESISTANT PAIRS WITH
CORBIN RUSSWIN FE6700 or SARGENT FM6100 CONCEALED MULTI POINT LOCK
UL CLASSIFIED TO ICC 500 (2014), FEMA P-361 (2015) AND FEMA P-320 (2014)**

FRAME ANCHORING

See page D17A-8 for other anchor details.



FRAME HEAD & SILL ANCHOR LOCATIONS:

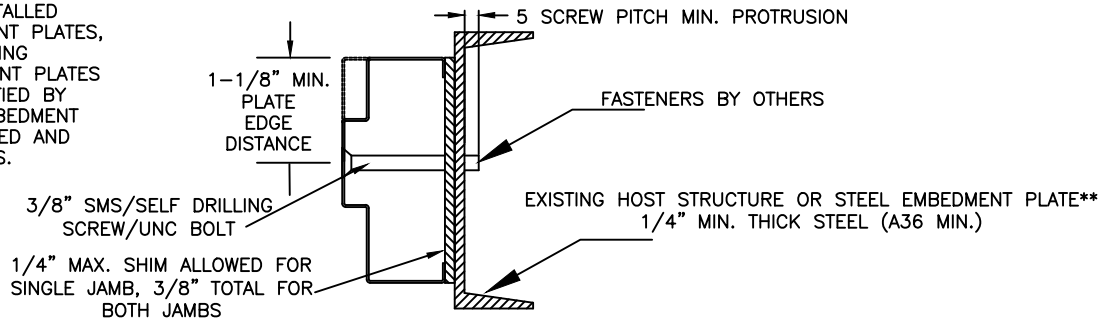
Existing opening dimples with bolts, screws, or weld to building structure. Up to & including 6'0" wide: Min. of (6) anchors located from center line of the door meeting edges both sides 8", 15" and 6" from door jamb rabbet.

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 rabbet.

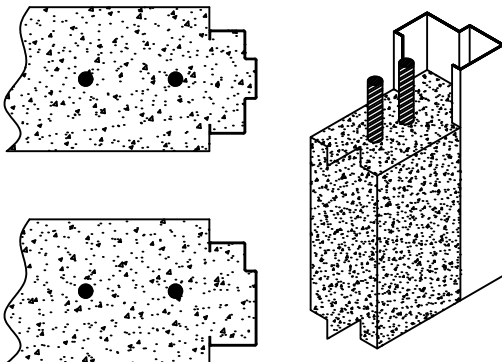
Greater than 7'0" thru 8'0" wide: Min. of (8) anchors located from center line of the door meeting edges both sides 8", 15", 24" & 6" from door jamb rabbet.

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.

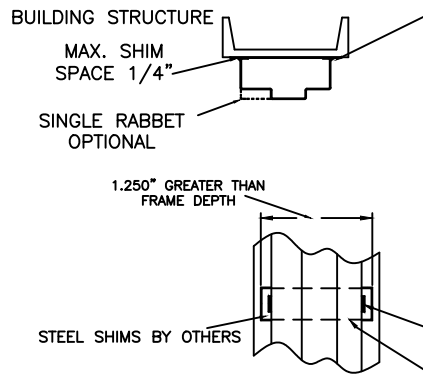
**ANCHORS MAY BE INSTALLED THROUGH EXISTING EMBEDMENT PLATES, PROVIDED THAT DRILLING THROUGH EXISTING EMBEDMENT PLATES IS PERMISSIBLE AS VERIFIED BY OTHERS. ANY EXISTING EMBEDMENT PLATES SHALL BE DESIGNED AND VERIFIED BY OTHERS.



FRAME POURED 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 0.053" 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
2" X JAMB DEPTH + 1.250"

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

03/03/20

D17A-7

ASSA ABLOY

**1-3/4" StormPro® 320 & 361
TORNADO RESISTANT FLUSH DOOR & FRAME
UL CLASSIFIED TO ICC 500 (2014), FEMA P-361 (2015) AND FEMA P-320 (2014)**

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:

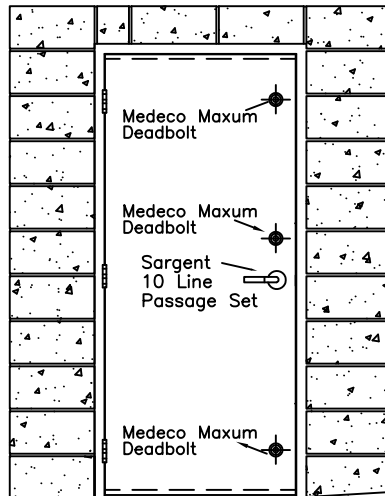
APPROVED OPTIONAL HARDWARE AND ACCESSORIES ARE SHOWN ON PAGES D17A-10 AND D17A-11.

UL CLASSIFIED TO:

- 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)

08/16/19

D17A-7A

ASSA ABLOY

**1-3/4" StormPro® 320 & 361 with Glass
TORNADO RESISTANT DOOR & FRAME**

UL CLASSIFIED TO ICC 500(2014), FEMA P-361 (2015) AND FEMA P-320 (2014)

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")

OPTIONAL HARDWARE NOT PROVIDED

CLOSER:

APPROVED CLOSERS ARE LISTED ON PAGE D17A-11.

HINGES:

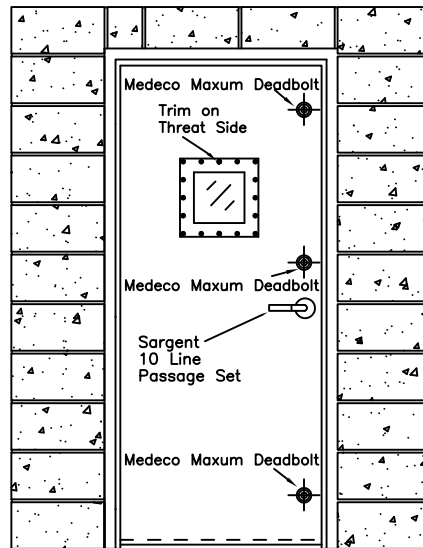
APPROVED HINGES ARE LISTED ON PAGE D17A-11.

OPTIONAL HARDWARE AND ACCESSORIES:

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

FIRE RATING:
NOT AVAILABLE

DOOR SWING:
IN SWING ONLY



3/4" MAX. UNDERCUT

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
- * IN SWING 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 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."

08/19/19

ASSA ABLOY

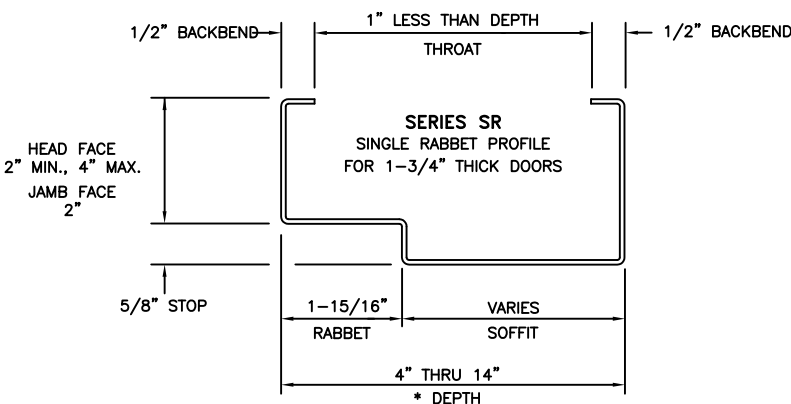
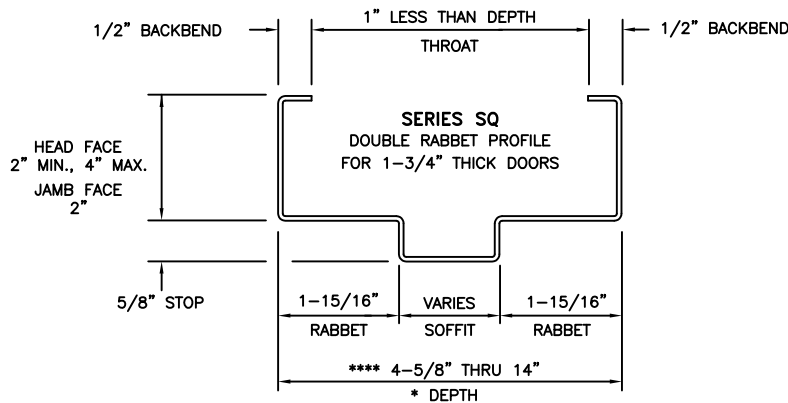
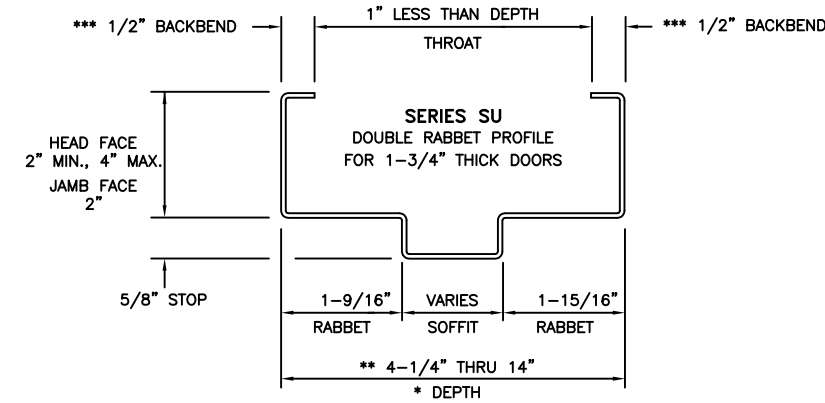
1-3/4" StormPro® 320 & 361

TORNADO RESISTANT DOOR & FRAME

UL CLASSIFIED TO ICC 500(2014), FEMA P-320 (2014) AND FEMA P-361 (2015)

D17A-7B

Frame Profile Options and Parameters



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.

FRAMES WILL HAVE 10" MORTAR GUARD/JUNCTION BOXES COVERING EACH DEADBOLT STRIKE PREPARATION. 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 GAGE MIN. HOT-DIPPED A60 GALVANNEALED or COLD ROLLED STEEL.

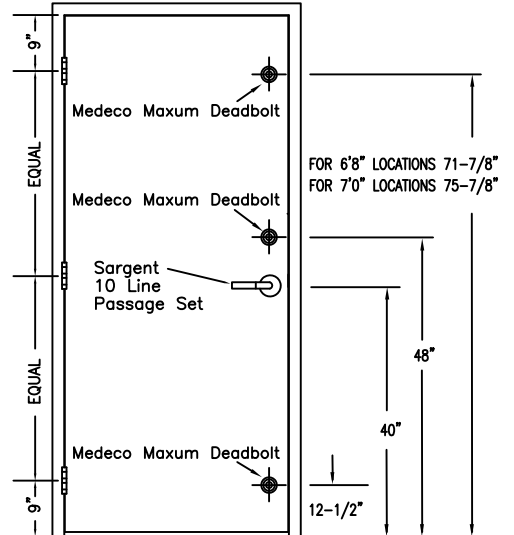
FRAMES MAY BE KNOCK DOWN or WELDED CORNERS.

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

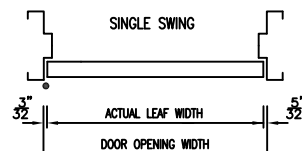
OPTIONAL (1) 10"x10" VISIBLE GLASS LOCATED 60" ABOVE DOOR BOTTOM WITH 3/4" UNDERCUT TO CENTER OF GLASS, CENTERED IN DOOR WIDTH AVAILABLE. OPTIONAL DOOR WITH GLASS AVAILABLE AS INSWING ONLY.

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



STANDARD	SWING DIRECTION	RATING		
		IMPACT	DESIGN (PSF)	TEST (PSF)
ICC 500/NSSA	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-254	+/-305
FEMA 320/361	INSWING OR OUTSWING	15-LB LUMBER 2X4 MISSILE IMPACT @ 100 MPH	+/-254	+/-305

08/19/19

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

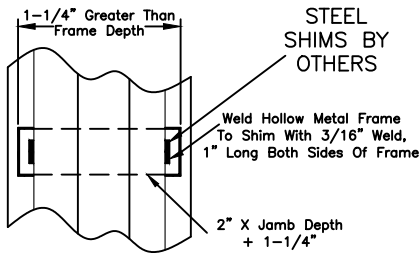
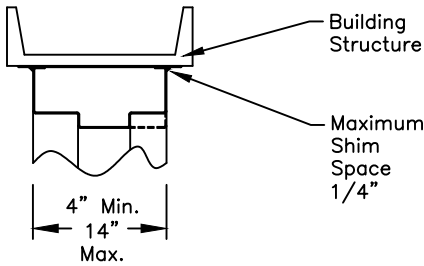
ASSA ABLOY

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)

ANCHORING BY WELDING TO BUILDING STRUCTURE

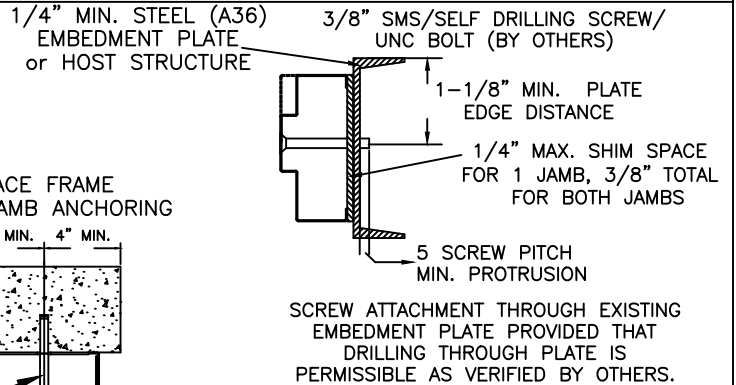
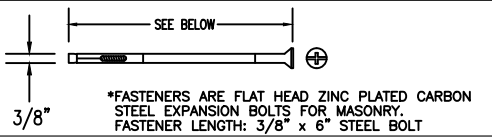
18 ga. min. -1/4" max. thick A-36 steel shims centered under frame. Weld perimeter of 5/8" x 2" x 5/8" ends of shims to structural building member with fillet welds sized as follows using E6018 electrodes. Fillet weld size same as shim thickness for 0.053" to 0.125" shim thickness. Weld size 1/8" for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



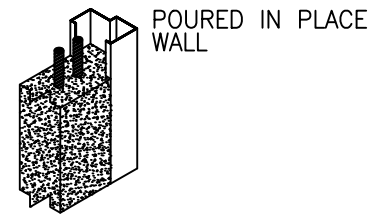
Frame Head (And Optional Frame Sill) Anchor Locations			
	Opening Size	Anchor Type	Anchor Spacing
Pairs	Approved min. opening size up to and including max. opening size	Welded to the Building Structure	Minimum of 5 weld locations & must weld on both faces of the frame head & sill at each location; One location at the centerline of the door meeting edges. 2 are located 6" from the centerline of the door meeting edges & 2 welds are located 6" from each door jamb rabbet.
Singles	Approved min. opening size up to and including max. opening size	Welded to the Building Structure	Minimum of 2 weld locations required. Locations are 6" from each door jamb rabbet. Must weld on both faces of the frame head & sill at each location.

Jamb Anchor Locations			
	Opening Size	Anchor Type	Anchor Spacing
Singles and Pairs	Approved min. opening size up to and including max. opening size	Welded to the Building Structure	Weld locations, maximum of 12" from the sill, max. 10" from the head rabbet and 24" max. on center. Must weld on both faces of the frame at each location.

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

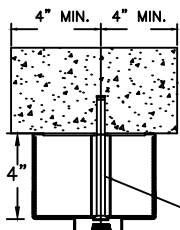


SCREW ATTACHMENT THROUGH EXISTING EMBEDMENT PLATE PROVIDED THAT DRILLING THROUGH PLATE IS PERMISSIBLE AS VERIFIED BY OTHERS.



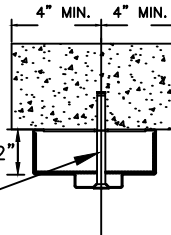
POURED IN PLACE WALL

4" FACE FRAME HEAD ANCHORING



NOTE: MINIMUM PRECAST OR CMU WALL EDGE DISTANCE 4" TO CENTER OF BOLT HOLE @ HEAD OR HEAD & JAMBS.
NOTE: 1-1/4" MINIMUM BOLT EMBEDMENT

2" FACE FRAME HEAD & JAMB ANCHORING



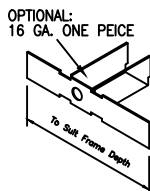
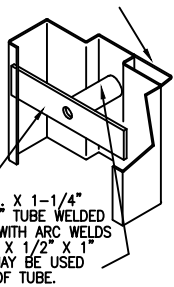
3/8" EXPANSION BOLT (SHIPS LOOSE FOR FIELD INSTALLATION)

VINYL CAP PLUG

VINYL CAP PLUG (BAG OF 10) PART # 6111049
VINYL CAP PLUG (BAG OF 100) PART # 6111050
(SHIPS LOOSE FOR FIELD INSTALLATION)

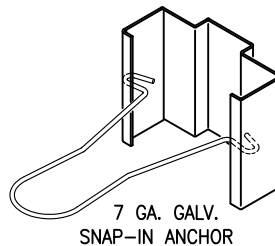
EXISTING OPENING - PIPE & PLATE FRAME NOT REQUIRED TO BE GROUTED

ALTERNATE PROFILE



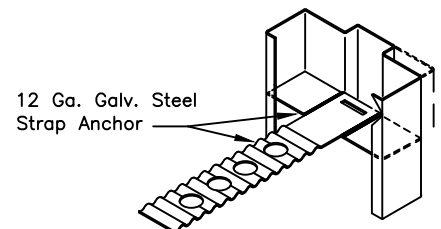
12 GA. MIN. X 1-1/4" PLATE & 1" TUBE WELDED TOGETHER WITH ARC WELDS OR 12 GA. X 1/2" X 1" CHANNEL MAY BE USED IN PLACE OF TUBE.

MASONRY - WIRE ANCHORS



THE THROAT OF THE FRAME JAMBS MUST BE FULLY GROUTED WITH MIN. 1800 PSI GROUT.

MASONRY T ANCHORS



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

D17A-8

02/19/20

D17A-9

ASSA ABLOY

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.

	Opening Size	Anchor Type	Anchor Spacing
Paired Opening	Approved min. opening size up to & including 6'0" x 7'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Minimum of 6 anchors. On both sides of the centerline of the door meeting edges: One each located at 8" and 15" from the centerline of the door meeting edges. 2 anchors required 6" from each door jamb rabbet.
	Greater than 6'0" x 7'0" and up to and including 7'0" x 7'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	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.
	Greater than 7'0" x 7'0" and up to and including 8'0" x 8'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	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.
Single Opening	Approved min. opening size up to & including 4'0" x 8'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Expansion Bolt or 3/8" SMS/Self Drilling Screw/UNC Bolt	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".

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 GROUTED 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

	Opening Size	Anchor Type	Anchor Spacing
Paired Opening	Approved min. opening size up to and including 6'0" x 7'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 24" maximum on center.
	Greater than 6'0" x 7'0" up to and including 7'0" x 7'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 21" maximum on center.
	Greater than 7'0" x 7'0" up to and including 8'0" x 8'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 18" maximum on center.
Single Opening	Approved min. opening size up to and including 3'0" x 7'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 21" maximum on center.
	Greater than 3'0" x 7'0" and up to and including 4'0" x 8'0"	Existing Wall Anchors Powers 3/8" Lok-Bolt AS Sleeve Anchor or 3/8" SMS/ Self Drilling Screw/ UNC Bolt	Maximum of 8" from the sill, maximum of 4" from the head rabbet, and 18" maximum on center.

12 Gage Masonry "T" anchors & Wire Masonry Anchors

Paired Opening	Approved min. opening size up to and including max. opening size	12 Ga. Masonry "T" Anchors	Maximum of 8" from the sill, maximum of 6" from the head rabbet, and 24" maximum on center.
Single Opening	Approved min. opening size up to and including max. opening size	12 Ga. Masonry "T" Anchors	Maximum of 8" from the sill, maximum of 6" from the head rabbet, and 24" maximum on center.
Paired Opening	Approved min. opening size up to and including 7'0" x 7'0"	Wire Masonry Anchors	Maximum of 12" from the sill, maximum of 10" from the head rabbet, and 16" maximum on center.
	Greater than 7'0" x 7'0" and up to and including 8'0" x 8'0"	Wire Masonry Anchors	Maximum of 12" from the sill, maximum of 10" from the head rabbet, and 14" maximum on center.
Single Opening	Approved min. opening size up to and including 3'0" x 7'0"	Wire Masonry Anchors	Maximum of 12" from the sill, maximum of 10" from the head rabbet, and 18" maximum on center.
	Greater than 3'0" x 7'0" and up to and including 4'0" x 8'0"	Wire Masonry Anchors	Maximum of 12" from the sill, maximum of 10" from the head rabbet, and 12" maximum on center.

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

08/16/19

ASSA ABLOY StormPro® OPTIONAL ACCESSORIES

D17A-10

OPTIONS FOR SARGENT FM7300 OR CORBIN RUSSWIN FE6600 ASSEMBLIES

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 FE6700 ASSEMBLIES

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 ASSEMBLIES

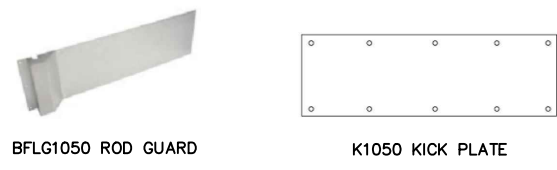
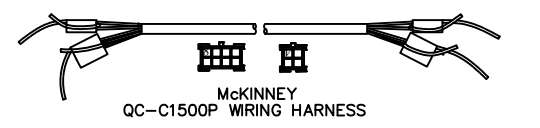
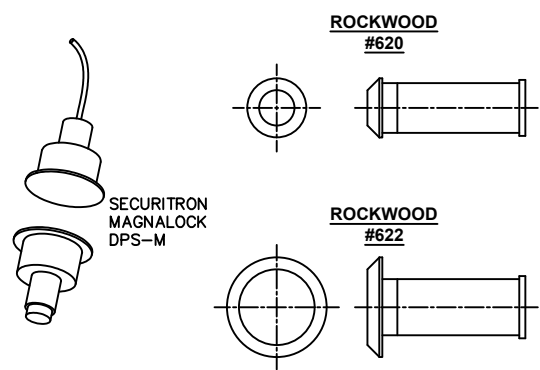
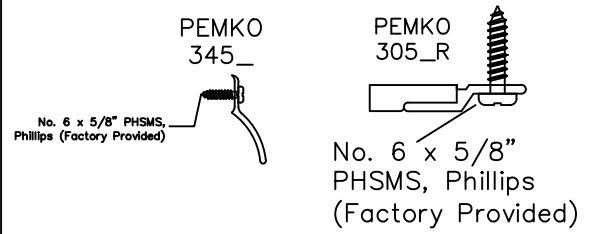
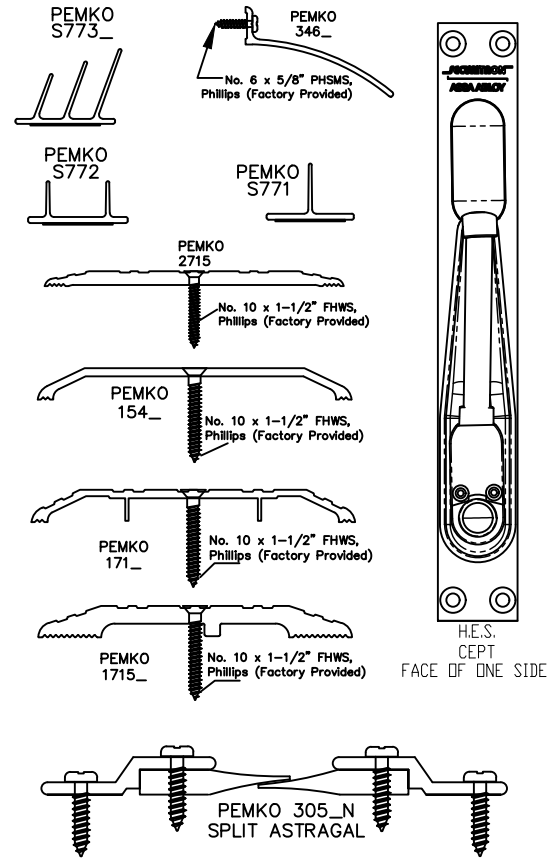
PEMKO PERIMETER SEALS:
 S773, 305 PERIMETER SEAL, S771 ASTRAGAL OR S772 ASTRAGAL
 346 RAIN DRIP (THREAT SIDE MOUNTING ONLY)
 345 DOOR BOTTOM (THREAT SIDE MOUNTING ONLY)
 1715 THRESHOLD
 305_N SPLIT ASTRAGAL (THREAT SIDE ONLY)
ELECTRONIC POWER TRANSFER:
 CEPT, HANCHETT ENTRY SYSTEMS, DBA SECURITRON MAGNALOCK 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 CORBIN RUSSWIN FE5400S ASSEMBLIES

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) MEDECO 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



08/16/19

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 .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)