NOTICE OF ACCEPTANCE (NOA)

ASSA ABLOY Entrance System, Inc.
1900 Airport Road
Monroe, NC 28110

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).
This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.
This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: BEASAM Series “Resilience”(So-Sx-Sx-So) Aluminum Automatic Sliding Glass Door w/ Full Breakout-LMI

APPROVAL DOCUMENT: Drawing No. BES0006 Rev F, titled “Series Besam Resilience FBO Impact Door System”, sheets 1 through 26 of 26 (includes sheets 6A & 7A), prepared by PTC Product Design, LLC, dated 02/09/10 and last revised on 03/04/15, signed and sealed by Robert J. Amoruso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Impact Resistant

Limitations:
1. Max panel OC widths not to exceed 42”
2. Not approved where water infiltration is required.
3. Manufacturing facility as noted above, private labeling is not part of this approval.
4. Sill installation is in concrete substrate only.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and series and following statement: "Miami-Dade County Product Control Approved", noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.
This NOA revises NOA #14-0529.17 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.
The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

MIAMI-DADE COUNTY
APPROVED

NOA No. 17-1108.27
Expiration Date: November 04, 2020
Approval Date: January 11, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted in previous files

A. DRAWINGS
   1. Manufacturer's die drawings and sections (Submitted under file # 13-0924.07/#12-1231.07)
   2. Drawing No. BES006 Rev F, titled “Series Besam Resilience FBO Impact Door System”, sheets 1 through 26 of 26 (includes 6A & 7A), prepared by PTC Product Design, LLC, dated 02/09/10 and last revised on 03/04/15, signed and sealed by Robert J. Amoruso, P.E.

B. TESTS (Submitted under files # 13-0924.07/#12-1231.07/#12-0314.06)
   1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 (0.40 cfm/ft² @2.08 PSF)
      2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
      3) Water Resistance Test, per FBC, TAS 202-94 (Not conducted)
      4) Large Missile Impact Test per FBC, TAS 201-94
      5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
      6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
   along with installation diagram of an aluminum automatic sliding glass doors, prepared by American Test lab, Inc Test Report No. ATLNC-0427.01-09, dated 08/13/09 and revised on 06/23/10 by an addendum letter, signed and sealed by David Johnson, P.E.
   2. Additional one sample test, Test Report No. ATNC-0915.01-10, dated 09/23/10 per TAS 201, 202, 203, issued by American Test lab, signed and sealed by David Johnson, P.E.

C. CALCULATIONS (Submitted under files # 12-1231.07/#12-0314.06)
   1. Anchor verification calculations dated 09/18/14 and last revised on 03/04/15, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.
   2. Re-design cover & cap parts Dwgs # 10009858 & 1008139, signed & sealed by Robert J. Amoruso, P.E. (Submitted under file #12-0314.06)

D. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their “DuPont Sentry Glass® Interlayer”, expiring on 01/14/17.
   2. Notice of Acceptance No. 12-1231.10 issued to Eastman Chemical Company (MA) (former Solutia), for “Saflex clear & color interlayer”, expiring on 05/21/2016.

F. STATEMENTS (All items, except #1, Submitted under files #13-0924.07/#12-1231.07).
   1. Statement letter of conformance to FBC 2014 (5th Edition) and “No financial interest”, dated 04/24/2014, signed & sealed by Robert J. Amoruso, P.E.
   2. Statement letter of conformance to FBC 2010 & 2007 and “No financial interest”, dated 09/19/2013, signed & sealed by Robert J. Amoruso, P.E.
   3. Statement of conformance to FBC 2010, did 03/08/12, signed & sealed by Robert J. Amoruso, P.E.
   4. Active legal name documents with Department of the Secretary of State, North Carolina.
   5. Addendum letter dated 06-23-10, issued by American Test lab, signed and sealed by David Johnson, P.E.
   6. Lab compliance as part of the above referenced test report.

[Signature]
Bhaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-1108.27
Expiration Date: November 04, 2020
Approval Date: January 11, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER
1. This NOA revises NOA # 13-0924.07, expiring 11/04/15.
2. Previous associated NOA # 12-0314.06 (Formerly known as BESAM Automated Entrance System, Inc.).
3. Test proposal # 08-2056-R, dated Feb 25, 2009, issued by BCCO.


A. DRAWINGS
1. None.

B. Test
1. None.

C. CALCULATIONS
1. None.

D. QUALITY ASSURANCE
1. Miami Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS
2. Notice of Acceptance No. 15-1201.11 issued to Eastman Chemical Company (MA) former Solutia Inc. for their “Saflex Clear or colored interlayer”, expiring on 05/21/21.

F. STATEMENTS
1. Statement letter of conformance to FBC 2017 (6th Edition) and “No financial interest” dated 10/15/17, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

G. OTHER
1. This NOA revises NOA # 14-0529.17, expiring 11/04/20.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-1108.27
Expiration Date: November 04, 2020
Approval Date: January 11, 2018
**BESAM RESILIENCE FULL BREAKOUT BI-PART LARGE & SMALL MISSILE IMPACT DOOR SYSTEM INSTALLATION ANCHORAGE DETAILS**

**GENERAL NOTES**

1. The product anchorage shown herein is designed to comply with the current edition of the Florida Building Code (FBC) including High Velocity Hurricane Zone (HVHZ) requirements at the design pressures stated herein.

2. The product details contained herein are based upon signed and sealed test reports of ATLC No. 0127.31-05, dated 08/13/05 and ATLC No. 0027.01-10, dated 03/23/10 and associated laboratory stamped drawings. The product has been evaluated for conformance to the standards listed in the current edition of the Florida Building Code (FBC) and is in compliance with said standards.

3. Adequacy of the existing structural concrete / masonry, wood and metal framing as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the engineer or architect of record for the project.

4. 1 x 2 J-bolts (when used) shall be designed and anchored to properly transfer all loads to the structure. Buck design and installation is the responsibility of the engineer or architect of record for the project.

5. In non-HVHZ and HVHZ areas where windborne debris protection requirements exist, use of an impact protective system complying with the FBC requirements for windborne debris regions is not required for the product herein.


7. Glass meets the requirements of ASTM E1300-04(1). See sheet 9 for glazing details.

8. Panel designations "50" and "5x" represent the following: 5x inside sliding panel.

9. A 1/3 increase in allowable stress for wind loads was not used in the design of the product shown herein, windload duration factor (Cf = 1.0) has been used for wood anchor design.

10. Test protocol: TAS 201, TAS 202 and TAS-203.

11. Installation anchor capacities for products herein are based on substrate materials with the following properties:

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<th>Property</th>
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<tr>
<td>Wood</td>
<td>Minimum specific gravity = 0.55</td>
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<tr>
<td>Concrete</td>
<td>Minimum compressive strength of 2500 PSI</td>
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<tr>
<td>Masonry</td>
<td>Strength conforming to ASTM C-90 with a medium density &gt; 117pcf, min. comp. strength of 1500 PSI</td>
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<tr>
<td>Steel</td>
<td>Steel studs with minimum 16 ga. (0.0566&quot;) thickness and Ftu = 45 ksi and Fry = 33 ksi</td>
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<tr>
<td>Aluminum</td>
<td>Aluminum (6063-T5) with a minimum 1/8&quot; thickness and Ftu = 22 ksi and Fry = 16 ksi</td>
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**DESIGN PRESSURE RATING (PSF)**

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**IMPACT RATING**

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EXTERIOR ELEVATION

SEE SHEET 7 AND 7A FOR ANCHOR SPACING DETAILS.
* SEE SHEETS 22 & 23 FOR ITEM NO. 42, ADAMS RITE 8600 PANIC DEVICE
EXTRUSION DETAILS AND SHEETS 24 & 25 FOR INSTALLATION DETAILS.

PLAN VIEW FULL BREAK OUT DETAIL
ACTIVE PANELS BREAK OUT FROM ANY POSITION
SECTION D3
WIDE STILE PLAN VIEW

168" MAX O.A. FRAME WIDTH

1/4" MIN SHIM SPACE TYP

44 1/8" MAXIMUM WIDE STILE DOOR WIDTH

INSTALLATION ANCHOR

42

31 3/4" MAXIMUM WIDE STILE DOOR DLO

SYM

66 5/8" MAX CLEAR DOOR OPENING

31 3/4" MAXIMUM WIDE STILE DOOR DLO

44 1/8" MAXIMUM WIDE STILE DOOR WIDTH

INSTALLATION ANCHOR

42

GUIDE TRACK

PRODUCT REVISION
as complying with the Florida Building Code
Acceptance No. 77-108-D-7
Expiration Date 11/19/77

* SEE SHEETS 22 & 23 FOR ITEM NO. 42, ADAMS RITE 8600 PANIC DEVICE EXTRUSION DETAILS AND SHEETS 24 & 25 FOR INSTALLATION DETAILS.

SECTION D2
MEDIUM STILE PLAN VIEW

1/4" MIN SHIM SPACE TYP

43 5/8" MAXIMUM MEDIUM STILE DOOR WIDTH

INSTALLATION ANCHOR

42

33 1/4" MAXIMUM MEDIUM STILE DOOR DLO

SYM

67 3/8" MAX CLEAR DOOR OPENING

43 5/8" MAXIMUM MEDIUM STILE DOOR WIDTH

INSTALLATION ANCHOR

42
ANCHORING DETAIL - CONCRETE AT HEAD, SILL OR JAMBS; CMU AT JAMBS
AND METAL SUBSTRATES AT THE HEAD AND JAMBS

INSTALLATION NOTES

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.
2. SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIMS. MAXIMUM ALLOWABLE SHIM SPACE IS 1/4"; SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
3. FOR INSTALLATION INTO METAL FRAMING SUBSTRATES (SEE NOTE 11 BELOW) AT THE HEAD AND JAMBS USE 1/4" SELF-DRILLING/TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM EMBEDMENT OF THREE (3) FULL THREADS PAST THE INTERIOR SURFACE OF THE SUBSTRATE WITH MINIMUM EDGE DISTANCE AND SPACING OF 1/4".
4. 1/4" SELF-DRILLING/TAPPING SCREWS SHALL BE PER ASME B1.6.4 AND HAVE MINIMUM STRENGTH PROPERTIES EQUIVALENT TO GRADE 5 STEEL.
5. FOR INSTALLATION THROUGH 1" WOOD BLOCK PROPERLY SECURED INTO CONCRETE OR DIRECTLY INTO CONCRETE WITHOUT A WOOD BLOCK AT HEAD SILL OR JAMBS: USE 1/4" x 2-1/4" ITW TAPCOINS (ADVANCED TIEREDFORM TECHNOLOGY) WITH 1-5/8" THREAD LENGTH, WITH FV = 100 KSI AND FU = 125 KSI TO ACHIEVE 1 3/4" MINIMUM EMBEDMENT INTO CONCRETE WITH A 1 1/2" MINIMUM EDGE DISTANCE AND MINIMUM SPACING OF 4".
6. FOR INSTALLATION THROUGH 1" WOOD BLOCK PROPERLY SECURED INTO MASONRY (CMU) OR DIRECTLY INTO MASONRY (CMU) WITHOUT A WOOD BLOCK AT JAMBS: USE 1/4" x 1-3/4" ITW TAPCOINS (ADVANCED TIEREDFORM TECHNOLOGY) WITH 1-5/8" THREAD LENGTH, WITH FV = 100 KSI AND FU = 125 KSI TO ACHIEVE 1" MINIMUM EMBEDMENT INTO CMU WITH A 2" MINIMUM EDGE DISTANCE AND MINIMUM SPACING OF 4".
7. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
8. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
9. FOR INSTALLATION OF JAMB INTO HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT PLACE INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
10. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN NOTE 11 BELOW.
11. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
   11.1. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I.
   11.2. MASONRY - STRENGTH CONFORMING TO ASTM C-50 WITH A MEDIUM DENSITY > 117 Pcf, MIN. COMP. STRENGTH OF 1300 P.S.I.
   11.3. STEEL STUD WITH MINIMUM 16 GA. (0.0566") THICKNESS AND Ftu = 45 KSI AND Fy = 33 KSI.
   11.4. ALUMINUM (6063-T5) WITH A MINIMUM 1/8" THICKNESS AND Ftu = 22 KSI AND Fy = 16 KSI.
   11.5. STEEL (ASTM A-36) WITH A MINIMUM 1/8" THICKNESS AND Ftu = 58 KSI AND Fy = 36 KSI.

SCALE: 1" = 1'-0"
INSTALLATION NOTES

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN.

2. SHIMS AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIMS. MAXIMUM ALLOWABLE SHIM SPACE IS 1/4". SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. SHIMS SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR OTHER.

3. FOR INSTALLATION INTO WOOD FRAMING AT THE HEAD AND JAMBS, USE #14 WOOD SCREWS OF SUFFICIENT LENGTH TO ACHIEVE 1 1/2" MINIMUM EMBEDDMENT WITH AN EDGE DISTANCE OF 1" MINIMUM.

3.1 #14 WOOD SCREWS SHALL BE PER ANSI B18.6.1 AND HAVE MINIMUM STRENGTH PROPERTIES EQUIVALENT TO GRADE 5 STEEL.

4. FOR INSTALLATION DIRECTLY INTO CONCRETE AT THE SILL: USE 1/4" x 2-1/4" ITW TAPCONS (ADVANCED THREADFORM TECHNOLOGY) WITH 1-5/8" THREAD LENGTH, WITH Fy = 100 KSI AND Fu = 125 KSI TO ACHIEVE 1 3/4" MINIMUM EMBEDDMENT INTO CONCRETE WITH A 1 1/2" MINIMUM EDGE DISTANCE AND MINIMUM SPACING OF 4".

5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES. (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING)

6. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.

7. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED IN #8 BELOW.

8. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:

A) WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55
B) CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI
**TYPICAL GLAZING CROSS SECTION**

15/32" O.A. LAMINATED GLASS
SEE DETAILS A AND B

1 1/8"

1/4"

3/8-16 THREADED ROD

**GLASS SETTING BLOCK ORIENTATION**
SEE GLASS SETTING BLOCK LAYOUT THIS PAGE

**GLASS SETTING BLOCK LAYOUT**
PLACE BLOCKS AS SHOWN. LOCATE 12" FROM EACH END AND CENTERED ON EACH STILE. 20 BLOCKS REQUIRED FOR EACH PANEL.

**GLAZING DETAIL A**
15/32" O.A. LAMINATED IMPACT GLASS CONSISTING OF:
3/16" CLEAR HEAT STRENGTHENED GLASS,
.090" SAFLEX PVB INTERLAYER BY EASTMAN CHEMICAL COMPANY (MA), 3/16" CLEAR HEAT STRENGTHENED GLASS.

**GLAZING DETAIL B**
15/32" O.A. LAMINATED IMPACT GLASS CONSISTING OF:
3/16" CLEAR HEAT STRENGTHENED GLASS,
.090" SENTRYGLASS PLUS INTERLAYER BY DUPONT, 3/16" CLEAR HEAT STRENGTHENED GLASS.
LEFT HAND SIDELITE
WIDE STILE
RIGHT HAND OPPOSITE

L3 INTERIOR
LEFT HAND ACTIVE LEAF
WIDE STILE
RIGHT HAND OPPOSITE

W3 EXTERIOR

TOP RAIL
"A" STILE
BALLCATCH

75 3/8" MAX DLO

3 1/8"  6"

"B" STILE

8X9X10 BOTTOM RAIL

31 3/4" MAX DLO
6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

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6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

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ASSA ABLOY

BESAM RESILIENCE FULL BREAKOUT BI-PART LARGE & SMALL MISSILE IMPACT DOOR SYSTEM

ITEM NO. 42 - ADAMS RITE G86 (8600) EXIT DEVICE

INSTALLATION DETAIL - SHEET 1

1. Prepare doors as shown. This product must be installed according to all applicable building and safety codes.

2. Pre-adjust rod assembly.
   a. Lay rod assembly on the face of the door with center block protruding into installation hole.
   b. Fully extend rods as shown.

3. Install rod assembly.
   a. Note the correct length for each door width. Add 15/16" to the back bar length for a minimum door width of 30" and does not require cutting.
   b. The back bar is cut in the same length for 48" and 36" doors. For other door widths, the back bar and center block must be cut to length. You will need to cut the same amount from both the back bar and center block. This is recommended for all EN 164 and EN 1650 doors.
   c. Adjust female bolts for 5/8" projection from bottom of door.
   d. Set the top bolt for 5/8" projection from top of door.

4. Cutting the bar for center block width.
   a. Push bar is the correct length for a minimum door width of 30" and does not require cutting.
   b. The back bar is cut in two standard lengths for 48" and 36" doors. For other door widths, the back bar and center block must be cut to length. You will need to cut the same amount from the back bar and center block. This is recommended for all EN 164 and EN 1650 doors.
   c. Cut the center block to length.
   d. The center block is cut in two standard lengths for 48" and 36" doors. For other door widths, the center block must be cut to length. You will need to cut the same amount from the center block.

5. Insert the back bar onto the center block from the scissor end, and slide the door into position.

   a. You may have to pull bottom bolt down to align center block with extension.
   b. Install a screw 4-42 x 2" into the center bar as shown to install the center block.
   c. Locate the center block in the rectangular hole.
   d. If you are installing an extension cylinder, see steps 50.
   e. Align the protruding square of the center block with the square hole in the mounting plate and place onto the center block.
1. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.

2. Install push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.

3. Turn the bolt until there is approximately 1/16" to 1/8" clearance.

4. Secure the bottom mounting screw.

5. Installing Key Cylinder: (Fig. 13)
   a. Once you have completed Step 5, assemble the cylinder escutcheon as shown using the appropriate number of spacers to prevent the cylinder cam from bottoming out on the center block assembly.
   b. Secure the cylinder escutcheon assembly to the slide with the 2" long flat head screws provided. Note: the lower screw heads into a boss in the center block (Fig. 13).
   c. Once the installation is complete, check operation by turning the key a quarter turn clockwise to open the door. Remove the key and close the door. It should lock.
   d. To do the bolts 'open', hold the door open and turn the key clockwise until stop. Check by closing the door. It should remain unlocked. To start the lock, turn the dropped position, use the key to 'open' the door.

6. Install base caps and secure with four 10-32 x 2" self-tapping screws.

7. Secure crook arm:
   a. Remove helper screw.
   b. Align crook arm with catch. You may have to operate the push bar scissor to align the bar with bolt.
   c. Secure with one 6-32 x 1/4" flat head machine screw.

8. Insert mounting plate from the hinge side onto the push bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side slide.

9. Insert crook slip into back bar. Push in until flush with back bar extension.

10. Insert crook arm into back bar. Push in until flush with back bar extension.

11. Install base caps and secure with four 10-32 x 2" self-tapping screws.

12. Insert bottom bolt (Fig. 13) guide with the push bar towards the bottom. And secure with two 10-32 x 1/2" flat head machine screws. The bottom screw will lock the bottom bolt adjustment. Leave this screw loose until final adjustment.

13. Secure latch bolt (Fig. 14) assembly:
   a. If necessary, depress the jam screw to release the top bolt.
   b. Secure with two 10-32 x 1/4" flat head machine screws.

14. Check operation:
   a. Fully depress the push bar and release.
   b. Check top bolt wire latch & catch.
   c. If it doesn't hold - adjust top bolt stop screw out until top bolt is released.
   d. When the push bar is completely pulled in and then released, you should see about 1/16" movement of the top bolt.

15. Check operation:
   a. Top bolt will project. (if it doesn't - check nuts for binding.
   b. Now install the door into the frame.
   c. Mark the location for the bolt holes very carefully.
   d. Misalignment of these holes will prevent the bolts from fully traveling into the deadbolt position.
   e. Don't forget to allow for weather stripping.
   f. Cut 9/16" holes where required.
   g. Now close the door and repeat step 15 - check operation.

16. If you have excessive door gaps on the top or bottom, you may adjust the bolts for greater engagement with the header or threshold:
   a. Open the door.
   b. Top Adjustment:
      i. Measure the door gap at the header.
      ii. Add to this measurement 1/2" (example: 1/4" + 1/2 = 3/4"
      iii. Push in push bar to retract the top latch.
      iv. Adjust the top bolt to extend above the door by 1/2" above. (example: 2/4"
      v. Repeat step 14.
   c. Bottom Adjustment:
      i. Loosen the bottom mounting screw of the bottom bolt guide.
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