



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Schlage Lock Company**  
**11819 N. Pennsylvania Street**  
**Carmel, IN 46032**

**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: SteelCraft H Series Double Flush Outswing Commercial Steel Door w/wo Panic Exit-LMI**

**APPROVAL DOCUMENT:** Drawing No **IRF-D07 Rev P**, titled "Steelcraft H series Double Flush outswing", sheets 1 through 17 of 17, prepared by the manufacturer, dated 05-20-07 and last revised on 01/29/21, signed and sealed by Hermes F. Norero, 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 Missile Impact**

**Limitations:**

1. See sheets **1 & 2** for Design Pressures, Sizes and Hardware. See sheets **5, 6, 7** and **8** for door sizes VS threshold types, brand and water infiltration limitations. Lower design Pressure shall control the entire assembly.
2. New Von Duprin **HH9954** mullion must meet min thickness & strength as listed in sheet **16**. See Hollow mullion in sheet **15**. Drop-in or expansion mullion anchor assembly must be from the anchor manufacturer (No substitution parts permitted). Use of Ives viewers (model U696/U698) is limited to max. +/-75 PSF.
3. The top strike plate **338** can be used w/wo roller option for Concealed Rod Panic devices (CVR) shown in sheet **9**.
4. Electrical/Electronic functions and Fire ratings are **not** part of this approval, such functions to be reviewed and approved by AHJ.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Cincinnati, Ohio and Series and following statement: "Miami-Dade County Product Control Approved", unless otherwise 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 #20-0310.10** and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



*Ishaq I. Chanda*

**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous approvals**

**A. DRAWINGS**

1. Manufacturer's parts and sections drawings (Submitted under file as below).
2. Drawing No **IRF-D07 Rev K**, titled "Steelcraft H series Double Flush outswing", sheets 1 through 13 of 13, prepared by the manufacturer, dated 05-20-07 and last revised on 08/30/15, signed and sealed by Thomas Gordon, P.E.

**B. TESTS (Submitted under files #15-0930.05 /#13-1217.17/#12-0305.13/ #10-0209.06/#07-0829.03)**

**1. Test report on**

- 1) Air Infiltration Test, per TAS 202-94
- 2) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 3) Large Missile Impact Test per FBC, TAS 201-94
- 4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
- 5) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of Single outswing steel doors w/ Stainless steel continuous Hinges & modified Hat stiffeners, marked by Certified Testing Lab, Test Reports No(s). **CTLA-3045W** dated February 16, 2015, signed and sealed by Ramesh Patel, P.E.

Along with manufacturer's parts and section drawings of double outswing steel doors w/CVC panic exit and Peep hole, marked by Element Material Technology, Test Reports No(s). **ESP011623P** dated May 14, 2013, signed and sealed by Jason Sheen, P.E.

**2. Test reports on**

- 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
- 2) Water Resistance Test per FBC TAS 202-94

Along with marked-up drawings and installation diagram of double steel commercial doors, prepared by National Certified Testing Laboratories Inc., Test Report No. **NCTL- 210-03-0514-11**, dated August 31, 2004, **NCTL 210- 03-3511-1** dated 04/09/08 and **NCTL 210- 03-3549-1** dated 08/26/08, all signed and sealed by Gerry Ferrara, P. E.

Note: Test report No(s): **NCTL210-3549-1** and **NCTL-210-3511-1** have been revised by an addendum letter, issued by Lab, dated Feb. 04, 2009, signed & sealed by Gerard J. Ferrara, P. E.

**3. Test report on**

- 1) Air Infiltration Test, per TAS 202-94
- 2) Water Resistance Test per FBC TAS 202-94(Not conducted)
- 3) Uniform Static Air Pressure Test, Loading per TAS 202-94
- 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 PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by National Certified Testing Lab, Test Reports No. **NCTL-210- 3580-2**, dated March 25, 2009 and **NCTL-210- 3357-1**, both signed and sealed by Gerry Ferrara, P. E.

Along with manufacturer's parts and section drawings of double-glazed outswing steel doors, marked by Certified Testing Lab, Test Reports No(s). **CTLA-776W** dated February 20, 2002, **CTLA-975W** dated Jan 23, 2003, **CTLA-882W** dated Aug 29, 2002, **CTLA-1035W**, dated May 28, 2003 and, **CTLA-1086-W** dated Nov. 17, 2003 and **CTLA-1107W-3** dated June 30, 2004, all signed and sealed by Ramesh Patel, P.E. (The CTLA-1035W has been revised by an addendum).

5. Additional Reference test report No. CTLA-1107W for strap anchor qualification.

*Ishaq I. Chanda*

**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- C. CALCULATIONS:** (submitted under file #15-0930.05)
1. Anchor verification calculations per FBC 2014 (5<sup>th</sup> Edition) dated 08/30/15, prepared, signed & sealed by Thomas Gordon., P.E.
  2. Hinge Load Evaluation report dtd 01/04/04, prepared, signed & sealed by Thomas Gordon, P.E.
- D. QUALITY ASSURANCE BY**
1. Miami Dade Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS** (items 6 thru 9, submitted under file # 10-0209.07)
1. Material composition & Flammability properties and Material Safety Data sheet of Pyrophobic P25C-60 core by Pyrophobic System LTD, dated DEC 05, 2010, issued by I. Zhvanetsky, chemical consultant.
  2. Material composition & Flammability properties and Material Safety Data sheet of Calcium Silicate mineral block, issued by Marshfield Door Sys, Inc., Marshfield. WI 54449.
  3. Test Report No. 12-11177, Nov 29, 2012, issued by Commercial Testing Co. for "Surface Flame spread & Smoke density Characteristics of Building material" per ASTM E84-12 for "Elfoam P200", issued to Elliott Co. of Indianapolis Inc.
  4. Test Report No. 16206-122543 (1015P200(3)), dated November 29, 2004 for "Surface Burning Characteristics of Bldg. material" per ASTM E84 and self-Ignition per ASTM 1929D for "Polyisocyanurate" issued by Omega Point Laboratories, Inc. to Elliot Co., Indianapolis, IN.
  5. Tensile test report # CTLA-776W (0194H), dtd 02/25/02 prepared by CTL, Architectural Division, sheet samples, tested per ASTM E8, signed & sealed by Ramesh Patel, P.E.
  6. Test Report No. 3094867SAT-001, April 13, 2006, issued by Intertek for "Surface Burning Characteristics of Building material" per ASTM E84 and self-Ignition per ASTM 1929D for "EPS", issued to Falcon Foam, a Div. of Atlas Roofing, re-named as "ATLAS EPS".
  7. Tensile Test report No. A103W1-Test 1, 2 & 3 dated 23 APR 03 per ASTM E-8 for steel face sheet, prepared by Certified Testing laboratory, signed and sealed by Ramesh Patel, P.E.
  8. Test Report No. 3094867SAT-001, April 13, 2006, issued by Intertek for "Surface Burning Characteristics of Building material" per ASTM E84 and self-Ignition per ASTM 1929D for "EPS", issued to Falcon Foam, a Div of Atlas Roofing, re-named as "ATLAS EPS".
- F. STATEMENTS:** Except items #1, balanced items submitted under files referenced above.
1. Letter of conformance to FBC 2014 (5<sup>th</sup> Edition), dated 08/30/15-, prepared, signed and sealed by Gordon Thomas, P.E.
  2. Statement letter dated Nov. 26, 2013 issued by Ingersoll-Rand for name change, signed by Jim Donlan, Compliance Engineer.
  3. Ingersoll-Rand press release, dated 12/10/12, integrating the brands of Ingersoll-Rand and Schlage among others.
  4. Department of State Certification of Reinstatement for **SCHLAGE LOCK COMPANY, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/17/06 and filed with the Secretary of State
  5. Certification of Formation dated 12-08-2003 of Schlage Lock Company, LLC, issued by Secretary of State of Delaware.
  6. Statement letter of conformance to FBC 2007 and no financial interest, dated FEB 02, 2010, prepared, signed and sealed by Gordon Thomas, P.E.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS (continue):**

7. Laboratory Compliance statement issued as part of the above test reports.
8. Addendum letter dated DEC 19, 2011, issued by Certified Testing Lab verifying wire anchors, strength of grout, stud anchor, Strike plate and MA series Mortise Lock, supplemented w/ marked-up drawings, signed and sealed by Ramesh Patel, P.E.
9. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.

**G. OTHER**

1. This NOA **renews NOA #15-0930.05**, expiring on 05/05/18.
2. Request for 1-Year renewal by Schlage Company dated 04/20/17, signed by James Donlan.
3. Test proposals # **14-0252, -0254, #14-1086, #14-0254-R1** and **#12-0797R** approved by RER.
4. Consolidation Test proposal # **06-2468**, dated 04/27/07 approved by BCCO.
5. Previously consolidates NOA (s) associated with these files are NOA #10-0209.07, 07-0829.04, 02-0712.01, 02-0712.03, 03-0908.03, 04-0203.03, 04-0303.03 and 05-0103.01.
6. Technical brochures of butt Hinges, continuous Hinges, Schlage & Falcon Mortise Locks, Supplied by Schlage Company (former Ingersoll-Rand).

**2. Evidence submitted under previous submittal.**

**A. DRAWINGS**

1. Drawing No **IRF-D07 Rev N**, titled "Steelcraft H series Double Flush outswing", sheets 1 through 17 of 17, prepared by the manufacturer, dated 05-20-07 and last revised on 04/24/18, signed and sealed by Hermes F. Norero, P.E.

**B. TESTS**

1. Additional Test report on
  - 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 4) Forced Entry Test, per PA 202-94

Along with manufacturer's parts and section drawings of double flush outswing steel doors, marked by National Certified Testing Lab, Test Reports No. **NCTL-210- 3580-2**, dated March 25, 2009, signed and sealed by Gerry Ferrara, P. E.

Along with manufacturer's parts and section drawings of glazed outswing double steel doors, marked by Certified Testing Lab, Test Reports No(s). **NCTL-210-3232-1** dated 02/24/06 and **NCTL-210-3357-1** dated Dec 28, 2006, signed and sealed by Gerard J. Ferrara, P.E.

Along with manufacturer's parts and section drawings of glazed outswing double steel doors, marked by Certified Testing Lab, Test Reports No(s). **NCTL-210-3232-1** dated 02/24/06 and **NCTL-210-3357-1** dated Dec 28, 2006, signed and sealed by Gerard J. Ferrara, P.E.

2. Additional verification test **NCTL-210-3549-1** for VonDuprin HH9954 mullion per TAS 202, 201 & 203, issued by National Certified Testing, signed & sealed by Gerry Ferrara, P. E.
3. Additional Reference test report No. CTLA-1107W for strap anchor qualification.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**



## Schlage Lock Company

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### **C. CALCULATIONS:**

1. Anchor verification calculation complying w/ FBC 2017(6<sup>th</sup> Edition) dated 04/04/2017 and last revised on 04/09/2018, prepared by Building Drops, signed & sealed by Hermes F. Norero., P.E.

#### **D. QUALITY ASSURANCE BY**

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

#### **E. MATERIAL CERTIFICATIONS:**

1. None.

#### **F. STATEMENTS: (items # 4 thru 6, submitted under file # 17-1026.24)**

1. Letter statement dated April 03, 2018, issued by Allegion for future catalog update and inclusive of the upgrading of Von Duprin HH 9954 mullion, signed by Jim Donlan, Compliance Engineer.
2. Letter of conformance to FBC 2014 (5<sup>th</sup> Edition) and FBC 2017 (6<sup>th</sup> Edition), dated 02/08/18, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E
3. Letter of adoption of another Engineer's work per FLA rule 61G15-27, dated 03/14/2017, prepared by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.
4. Ingersoll-Rand press release, dated 12/10/12, integrating the brands of Ingersoll-Rand and Schlage among others.
5. Department of State Certification of Reinstatement for **SCHLAGE LOCK COMPANY, LLC** as a limited liability company, active and organized under the laws of the State of Florida, dated 03/17/06 and filed with the Secretary of State
6. Certification of Formation dated 12-08-2003 of Schlage Lock Company, LLC, issued by Secretary of State of Delaware.
7. Statement letter dated Nov. 26, 2013 issued by Ingersoll-Rand for name change, signed by Jim Donlan, Compliance Engineer.
8. Letter of certification dated 04/20/10, issued by Ingersoll-Rand for electronic CO lock series mechanical /functional parts same as AD, ND and AD-M series.
9. Addendum letters dated Feb 20, 2009 for test reports Test report CTLA-1035W, issued by Certified Testing lab, signed and sealed by Ramesh Patel, P.E
10. Addendum letter dated DEC 19, 2011, issued by Certified Testing Lab verifying wire anchors, strength of grout, stud anchor, Strike plate and MA series Mortise Lock, supplemented w/ marked-up drawings, signed and sealed by Ramesh Patel, P.E.

#### **G. OTHER**

1. This NOA **revises & renews NOA #17-0326.04**, expiring on 05/05/23.
2. Test proposals **#14-0251, #14-0252-R, 14-0253, #14-0254-R1, #14-1086 and #12-0797R** approved by RER.
3. Consolidation Test proposal **# 06-2468**, dated 04/27/07 approved by BCCO.
4. Technical brochures of butt Hinges, continuous Hinges, Schlage & Falcon Mortise Locks, Supplied by Schlage Company (former Ingersoll-Rand).
5. Allegion's (Schlage/ Former Ingersoll-Rand) future updated HH9954 Von-Duprin Mullion catalog.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. Evidence submitted in previous NOA**

**A. DRAWINGS**

1. Drawing No **IRF-D07 Rev N**, titled "Steelcraft H series Double Flush outswing", sheets 1 through 17 of 17, prepared by the manufacturer, dated 05-20-07 and last revised on 04/24/18, signed and sealed by Hermes F. Norero, P.E.

**B. TEST**

1. Test report on
  - 1) Uniform Static Air Pressure Test, Loading per TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

Along with manufacturer's parts and section drawings of Single outswing Flush steel doors w/ SVR and top Strike #338 w/roller, issued by UL Testing Lab, Test Reports No(s). **SV31245-20190521** dated SEP 03, 2019, signed and sealed by Alex Spyrou, P.E.

Along with manufacturer's parts and section drawings of Single outswing glazed steel doors w/ SVR and top Strike #338 w/roller, issued by UL Testing Lab, Test Reports No(s). **SV31245-20190624** dated SEP 03, 2019, signed and sealed by Alex Spyrou, P.E.

**C. CALCULATIONS**

1. None

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

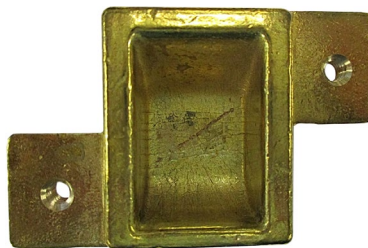
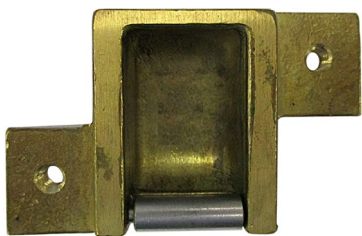
1. None

**F. STATEMENTS (submitted under file # 17-0426.04)**

1. Statement letter of conformance to FBC 2017(6<sup>th</sup> edition) dated 02-08-2018, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.
2. Statement letter of adopting another Engineer's work per Florida Rules 61G615-27 dated March 14, 2017, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.

**G. OTHER**

1. This NOA **revises NOA # 17-0426.04**, expiring 05/05/23.
2. Optional CVR top strikes #338 w/wo Roller (see below)



*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
**Approval Date: February 18, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. Evidence submitted under previous approval**

**A. DRAWINGS**

1. Drawing No **IRF-D07 Rev O** titled "Steelcraft H series Double Flush outswing", sheets 1 through 17 of 17, prepared by the manufacturer, dated 05-20-07 and last revised on 03/04/20, signed and sealed by Hermes F. Norero, P.E.

**B. TEST**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS (submitted under file # 19-1016.05)**

1. Statement letter of conformance to FBC 2017(6<sup>th</sup> edition) dated 02-08-2018, prepared by Building Drops, signed & sealed by Hermes F. Norero, P.E.
2. Application request of address change only by Schlage Lock company, signed by Donald James.

**G. OTHER**

1. This NOA revises NOA # 19-1016.05, expiring 05/05/23.

**5. New Evidence submitted**

**A. DRAWINGS**

1. Drawing No **IRF-D07 Rev P** titled "Steelcraft H series Double Flush outswing", sheets 1 through 17 of 17, prepared by the manufacturer, dated 05-20-07 and last revised on 01/29/21, signed and sealed by Hermes F. Norero, P.E.

**B. TEST**

1. None.

**C. CALCULATIONS**

1. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of conformance to **FBC 7<sup>th</sup> Edition (2020)** and of no financial interest, dated 09/02/20, issued by Building Drops, Inc., signed and sealed by Hermes F. Norero, P.E.
2. Statement letter dated 09/02/20 issued by Allegion in reference to DWG. revision changes, signed by Donlan James, code compliance Engineer.

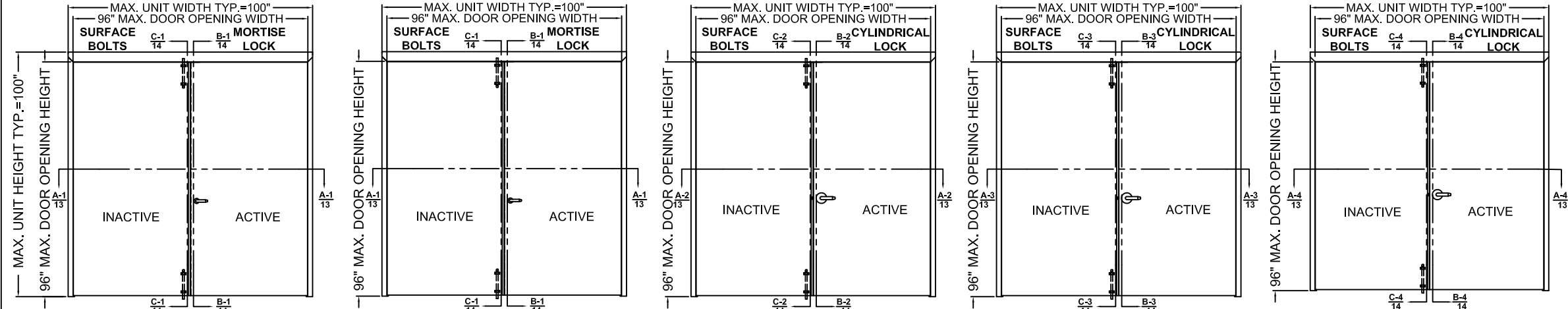
**G. OTHER**

1. This NOA revises NOA # 20-0310.10, expiring 05/05/23.

*Ishaq I. Chanda*

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**Ishaq I. Chanda, P.E.**  
**Product Control Unit Supervisor**  
**NOA No. 20-1005.20**  
**Expiration Date: May 05, 2023**  
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| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 1       | ±75<br>SEE TABLE 3.1 ON SHT. 5                 | ±75<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

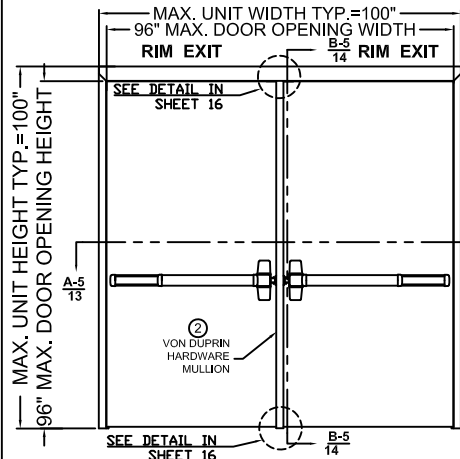
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|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| A       | ±60<br>SEE TABLE 3.1 ON SHT. 5                 | ±60<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 2       | ±55<br>SEE TABLE 3.1 ON SHT. 5                 | ±55<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 3       | ±65<br>SEE TABLE 3.1 ON SHT. 5                 | ±65<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

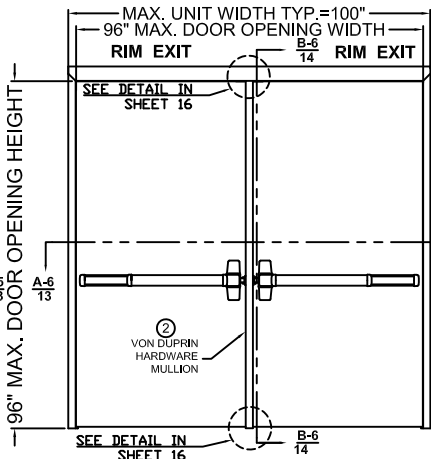
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|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 4       | ±75<br>SEE TABLE 3.1 ON SHT. 5                 | ±75<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

NOTE:  
SEE SHEETS 5, 6, 7, & 8 FOR THRESHOLD TYPES, WEATHERSTRIPS COMPONENTS, DOOR SIZE VS DP AND LIMITATIONS

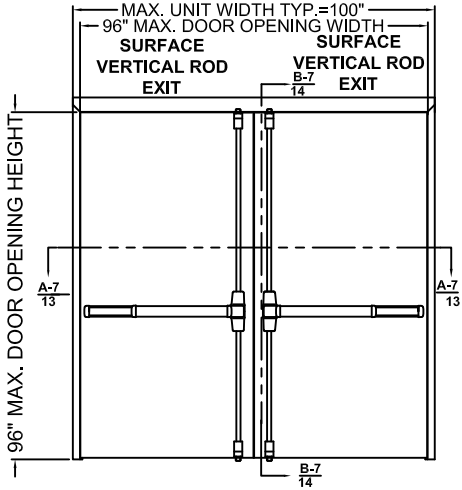


| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 5       | ±75<br>SEE TABLE 3.1 ON SHT. 5                 | ±90 *<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8    |

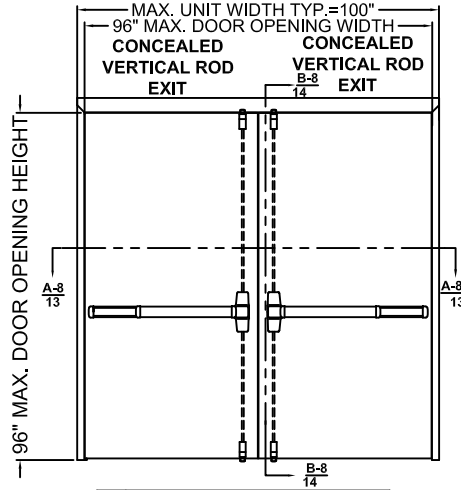
\* SEE NOTE 4 ON SHEET 2



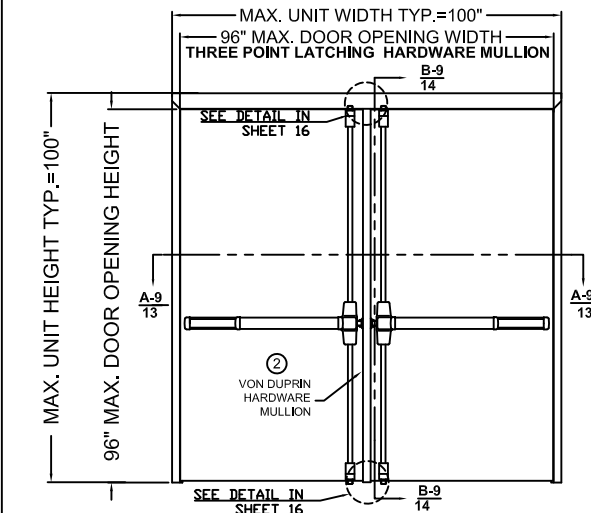
| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 6       | ±70<br>SEE TABLE 3.1 ON SHT. 5                 | ±70<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |



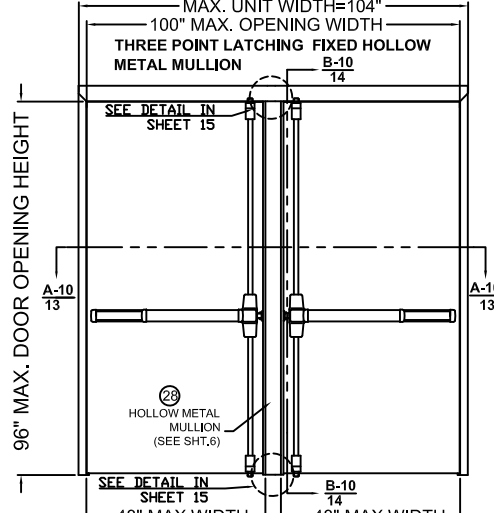
| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 7       | ±70<br>SEE TABLE 3.1 ON SHT. 5                 | ±70<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |



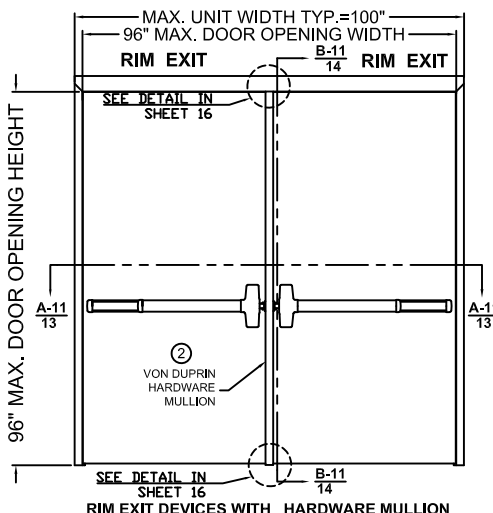
| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 8       | ±70<br>SEE TABLE 3.1 ON SHT. 5                 | ±70<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |



| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 9       | ±70<br>SEE TABLE 3.1 ON SHT. 5                 | ±70<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8      |

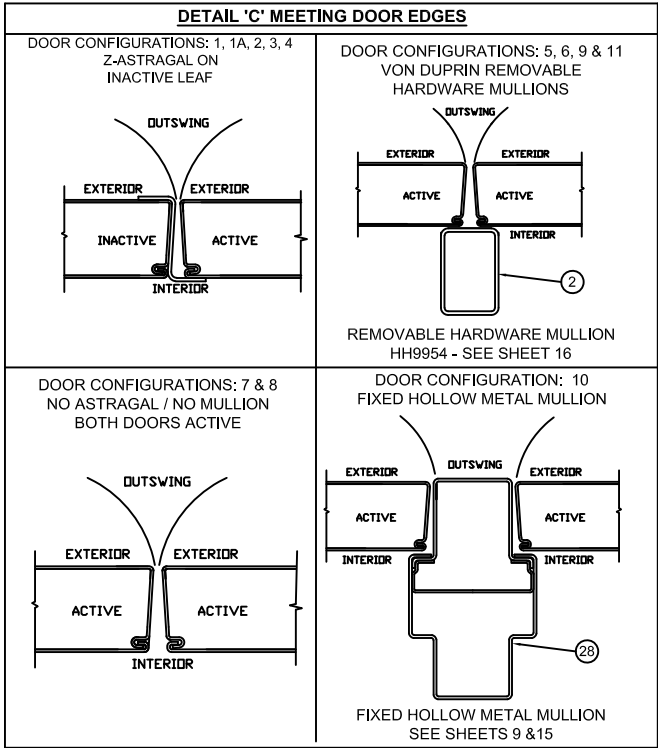


| CONFIG. | DESIGN PRESSURE RATING, PSF                            |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED         | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 10      | ±70<br>ZERO INT'L 566 (11A)<br>SEE TABLE 3.2 ON SHT. 6 | ±70<br>SEE TABLE 4.1 ON SHT.7                      |
|         | +50/-70<br>NGP 950 (11B)<br>SEE TABLES 3.3 ON SHT. 6   | ±70<br>SEE TABLE 4.2 ON SHT.8                      |



| CONFIG. | DESIGN PRESSURE RATING, PSF                    |  |
|---------|--|--|
|         | WHERE WATER INFILTRATION REQUIREMENT IS NEEDED | WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED |
| 11      | +70/-55<br>SEE TABLE 3.1 ON SHT. 5             | +70/-55<br>SEE TABLES 4.1 ON SHT.7 & 4.2 ON SHT.8  |

| REVISIONS |                    |     |          |          |
|-----------|--------------------|-----|----------|----------|
| LTR       | DESCRIPTION        |     | DATE     | APPROVED |
| A         | APPROVAL DWG       | YMF | 05/20/07 |          |
| G         | REVISED PER_MDBCCO | YMF | 02/06/09 |          |
| H         | REVISED DWG        | YMF | 02/01/10 |          |
| J         | REVISED DWG        | YMF | 04/06/10 |          |
| K         | REVISED NAME       | JPD | 11/01/13 |          |
| L         | REVISED DWG        | JPD | 02/01/15 |          |
| M         | REVISED DWG        | JPD | 05/05/15 |          |
| N         | ENGINEER CHANGE    | LA  | 02/03/17 |          |
| O         | ADDRESS UPDATE     | SM  | 02/27/20 |          |
| P         | 2020 FBC UPDATE    | NUS | 07/07/20 |          |

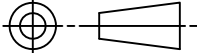


**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By Ishag I. Chank  
Miami-Dade Product Control

**COMPLIANCE STATEMENT:**  
1. THESE PRODUCTS HAVE BEEN TESTED TO HVHZ PROTOCOLS TAS 201, 202 & 203-94 AND COMPLY WITH THE 2020 (7TH EDITION) FLORIDA BUILDING CODE.

- NOTES:**
1. INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS (OUTSWING DOORS)
  2. SEE TABLE 1 ON SHEET 2 FOR HARDWARE APPLICATIONS AND LIMITATIONS
  3. SEE SHEET 3 & 14 FOR HINGE REQUIREMENTS
  4. SEE SHEETS 4 & 15 FOR ANCHORING TYPES AND LIMITATIONS AND SHEETS 15 & 16 FOR MULLION INSTALLATION.
  5. SEE SHEET 5 TABLE 3.1 AND SHEET 6 TABLES 3.2 & 3.3 FOR WATER RATED THRESHOLDS AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
  6. SEE SHEET 7 TABLE 4.1 AND SHEET 8 TABLE 4.2 FOR NON WATER RATED THRESHOLDS AND WEATHERSTRIPPING INSTALLATION AND LIMITATIONS
  6. SEE SHEETS 3 - 8, & 17 FOR SILL INSTALLATION INFORMATION
  7. ALL CONFIGURATIONS MEET LARGE AND SMALL MISSILE IMPACT REQUIREMENTS - LARGE MISSILE IMPACT AT (50 F/S)



|  |          |   |      |   |               |
|--|----------|---|------|---|---------------|
| BEND RADIUS  |          | <div>SCHLAGE LOCK COMPANY, LLC<br/>11819 N. PENNSYLVANIA STREET<br/>CARMEL, IN 46032</div>                  |      | <div>MANUFACTURING FACILITY:<br/>STEELCRAFT<br/>9017 BLUE ASH ROAD<br/>CINCINNATI, OH 45242</div> |               |
| <div></div> |          |   |      |   |               |
| THIRD ANGLE PROJECTION   |          | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |      |   |               |
| DRAWN  | DATE     | MIAMI-DADE COUNTY PRODUCT APPROVAL<br>FLUSH OUTSWING, DOUBLE DOORS AND HARDWARE CONFIGURATIONS.             |      |   |               |
| YMF  | 05/20/07 |   |      |   |               |
| CHECKED  |          |   |      |   |               |
| APPROVED   |          | SIZE  | FLAT | DWG NO.   | REV           |
|  |          |   |      | IRFD07  | P             |
| ENG. APPVL   | 10/12/07 | SCALE:  | NTS  | AUTOCAD   | SHEET 1 OF 17 |
| JPD  |          |   |      |   |               |

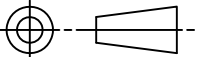


| Door Configuration | Maximum Design Pressure, PSF |                   | Maximum Door Opening Size, in. |        | Locking Hardware Description       |                                |  |            | Comments  |
|--------------------|------------------------------|-------------------|--------------------------------|--------|------------------------------------|--------------------------------|--|------------|---|
|                    | Positive                     | Negative          | Width                          | Height | Hardware Family                    | Model/Series                   | Strike Models                                | Brand      |   |
| 1                  | 75                           | 75                | 96                             | 96     | Mortise Lock                       | L/LV9400/AD/CO MD              | 10-072                                       | Schlage    | Function with deadbolt, 3/4" min. throw latch & 1" min throw deadbolt |
|                    |                              |                   |                                |        |                                    | MA                             | ANSI   | Falcon     |   |
| 1A                 | 60                           | 60                | 96                             | 96     | Mortise Lock                       | L/LV9000/AD/CO MS              | 10-025                                       | Schlage    | Function without deadbolt, 3/4" min. throw latch                      |
| 2                  | 55                           | 55                | 96                             | 96     | Cylindrical Lock                   | AL                             | 10-025                                       | Schlage    | 1/2" throw latch  |
| 3                  | 65                           | 65                | 96                             | 96     | Cylindrical Lock                   | D/ND/AD/CO CYL                 | 10-025                                       | Schlage    | 1/2" throw latch  |
| 4                  | 75                           | 75                | 96                             | 96     | Cylindrical Lock                   | D/ND/AD/CO CYL                 | 10-025                                       | Schlage    | 3/4" throw latch  |
|                    |                              |                   |                                |        |                                    | T                              | ANSI   | Falcon     | 3/4" throw latch  |
| 5                  | 90<br>SEE NOTE 4.            | 90<br>SEE NOTE 4. | 96                             | 96     | Rim Exit Device                    | XP98, XP99, XP98-F, XP99-F     | 909/954                                      | Von Duprin | for pairs use HH9954 mullion by Von Duprin                            |
| 6                  | 70                           | 70                | 96                             | 96     | Rim Exit Device                    | 88-F                           | 468  | Von Duprin | for pairs use HH9954 mullion by Von Duprin                            |
|                    |                              |                   |                                |        |                                    | 98, 99, 98-F, 99-F             | 499F   | Von Duprin |   |
| 7                  | 70                           | 70                | 96                             | 96     | Surface Vertical Rod Exit Device   | 9827, 9927, 9827-F, 9927-F     | 299F/499F Top, 304L Bottom                   | Von Duprin |   |
|                    |                              |                   |                                |        |                                    | 25-V, F-25-V                   | 3788 Top, 2130 Bottom                        | Falcon     |   |
| 8                  | 70                           | 70                | 96                             | 96     | Concealed Vertical Rod Exit Device | 9847-F, 9947-F, HH9847, HH9947 | 338 Top, 304L Bottom                         | Von Duprin | HH98/9947 devices have a 2-3/4" backset                               |
|                    |                              |                   |                                |        |                                    | F-25-C                         | 4188 Top, 2130 Bottom                        | Falcon     |   |
| 9                  | 70                           | 70                | 96                             | 96     | Three-Point Latching Device        | 9857, 9957, 9857-F, 9957-F     | 299F/499F Top, 499F Middle, 304L Bottom      | Von Duprin | for pairs use HH9954 mullion by Von Duprin                            |
| 10                 | 70                           | 70                | 48                             | 96     |                                    | 9857, 9957, 9857-F, 9957-F     | 299F/499F Top, 299F/499F Middle, 304L Bottom | Von Duprin | See note #2   |
| 11                 | 70                           | 55                | 96                             | 96     | Rim Exit Device                    | 25-R, F-25-R                   | 499F   | Falcon     | for pairs use HH9954 mullion by Von Duprin                            |
|                    |                              |                   |                                |        |                                    |                                |  |            |   |
|                    |                              |                   |                                |        |                                    |                                |  |            |   |
|                    |                              |                   |                                |        |                                    |                                |  |            |   |
|                    |                              |                   |                                |        |                                    |                                |  |            |   |

TABLE 1.

NOTES:  
1. FOR DOOR CONFIGURATIONS 1, 1A, 2, 3, & 4, INACTIVE LEAF REQUIRES IVES SB360 SURFACE BOLTS IN TOP AND BOTTOM  
2. DOOR CONFIGURATION 10 IS USING FIXED HOLLOW METAL MULLION BETWEEN TWO DOORS (SEE MULLION DETAIL IN SHEET 15)  
3. SEE SHEETS 10 THROUGH 16 FOR LOCKING HARDWARE AND HARDWARE MULLION DETAILS  
4. DOOR CONFIGURATION 5 IS RATED FOR MAXIMUM DESIGN PRESSURE UP TO ±75 PSF WITH ZERO INT'L THRESHOLD 11A OR FOR DOOR OPENINGS UP TO 3'-0" X 7'-0" WITH NGP THRESHOLD 11B AND ±50 PSF FOR DOOR OPENINGS UP TO 4'-0" X 8'-0" WITH NGP THRESHOLD 11B WHEN WATER INFILTRATION REQUIREMENT IS NEEDED. SEE SHEETS 5 AND 6.  
4.1 DOOR CONFIGURATION 5 IS WATER RATED FOR A MAXIMUM DESIGN PRESSURE UP TO ±75 WITH ZERO INT'L THRESHOLD (11A) OPTIONS AND UP TO ±90 PSF WITH THE NON-WATER RATED NGP 950 THRESHOLD (12B) OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT REQUIRED. SHEET 8.  
5. SCHLAGE AL-SERIES CYLINDRICAL LOCK (DOOR CONFIGURATION 2) IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE

BEND RADIUS



THIRD ANGLE PROJECTION

DRAWN

YMF

CHECKED

APPROVED

ENG. APPVL

JPD

DATE

05/20/07

10/12/07

SCHLAGE LOCK COMPANY, LLC  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032

MANUFACTURING FACILITY:  
STEELCRAFT  
9017 BLUE ASH ROAD  
CINCINNATI, OH 45242

TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES  
MIAMI-DADE COUNTY PRODUCT APPROVAL  
FLUSH OUTSWING DOORS AND HARDWARE CONFIGURATIONS  
COMMERCIAL DOOR OPENING DOUBLE FLUSH DOORS.

SIZE

FLAT

DWG NO.

IRF D07

REV

P

SCALE:

NTS

AUTOCAD

SHEET 2 OF 17

| R E V I S I O N S |             |            |        |          |          |
|-------------------|-------------|------------|--------|----------|----------|
| LTR               | DESCRIPTION |            |        | DATE     | APPROVED |
| A                 | APPROVAL    | DWG        | YMF    | 05/20/07 |          |
| C                 | REVISED     | DWG        | RAP    | 12/03/07 |          |
| D                 | REVISED     | DWG        | YMF    | 01/16/08 |          |
| E                 | REVISED     | DWG        | YMF    | 02/28/08 |          |
| F                 | REVISED     | DWG        | YMF    | 05/30/08 |          |
| G                 | REVISED     | PER_MDBCCD | YMF    | 02/06/09 |          |
| H                 | REVISED     | DWG        | YMF    | 03/18/09 |          |
| J                 | REVISED     | DWG        | YMF    | 04/06/10 |          |
| K                 | REVISED     | NAME       | JPD    | 11/01/13 |          |
| L                 | REVISED     | DWG        | JPD    | 02/01/15 |          |
| M                 | REVISED     | DWG        | JPD    | 05/05/17 |          |
| N                 | ENGINEER    | CHANGE     | LA     | 02/23/17 |          |
| O                 | ADDRESS     | UPDATE     | SM     | 02/27/20 |          |
| P                 | 2020        | FBC        | UPDATE | NUS      | 07/07/20 |

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 20-1005.20  
**Expiration Date** 05/05/2023  
**By** Ishay I. Chandra  
**Miami-Dade Product Control**



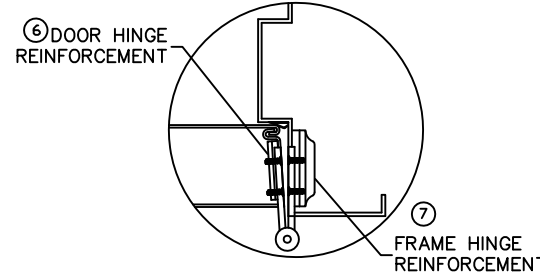
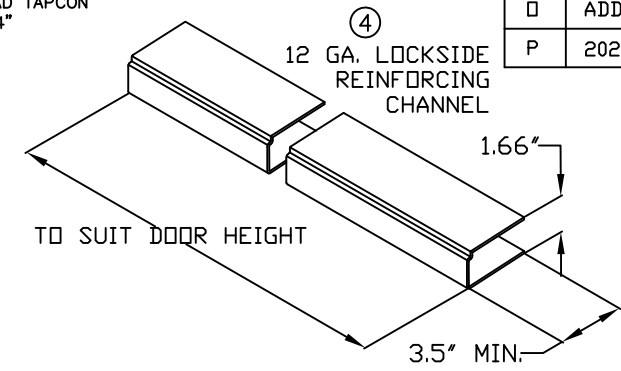
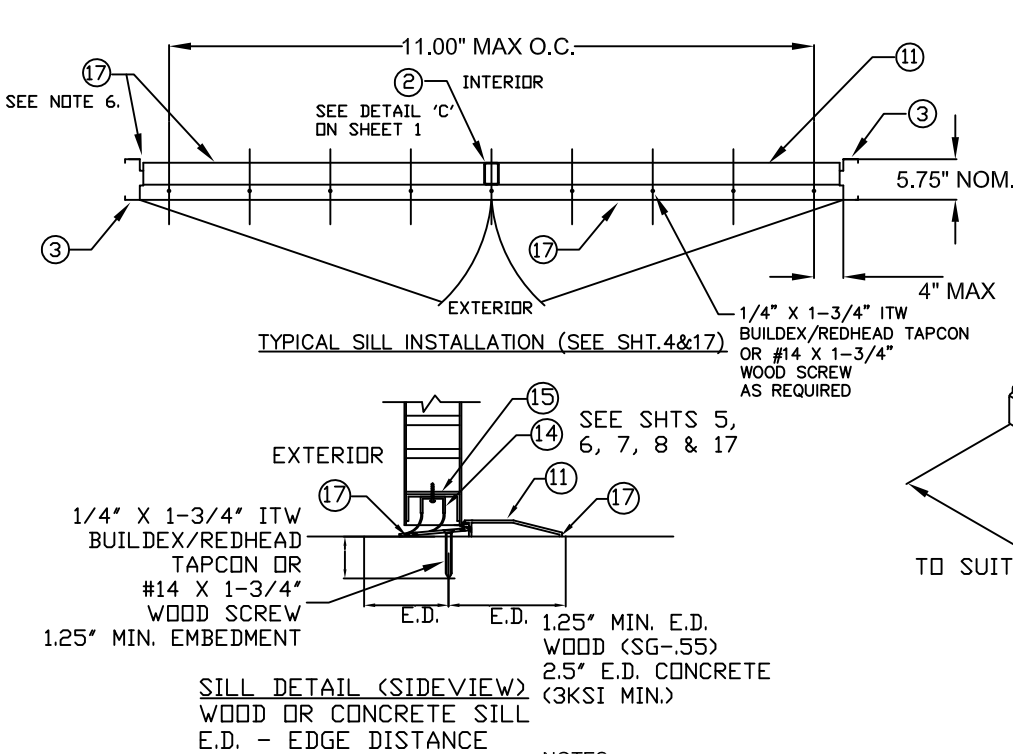
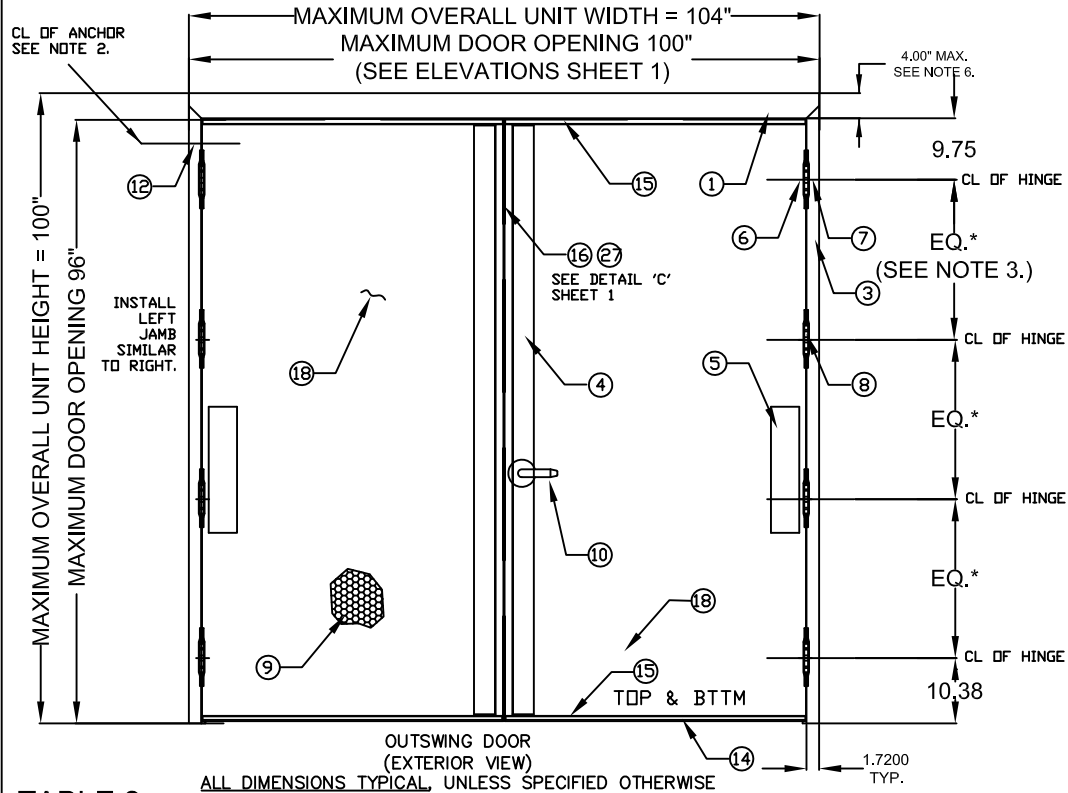


TABLE 2

|    | QUANTITY          | DESCRIPTION  | MATERIAL   | SIZE   |
|----|-------------------|--|--|--|
| 1  | 1                 | HEAD SEE SHT 9 ASTM A366   | .053" MIN. STL   | MAX. 100"  |
| 2  | 1                 | VON DUPRIN HH9954 HARDWARE MULLION   | .312" A500 STL   | MAX. 96" HEIGHT.                                 |
| 3  | 2                 | HINGE JAMB SEE SHT 9 ASTM A366   | .053" MIN. STL   | MAX. 100" HEIGHT.                                |
| 4  | 2                 | LOCK SIDE REINFORCEMENT CHANNEL  | .093" MIN. STL   | 3.5 X 93.44 MAX                                  |
| 5  | 2                 | HINGE SIDE PANIC REINFORCEMENT   | .067" MIN. STL   | MAX. 20"   |
| 6  | NOTE 2.           | HINGE REINFORCEMENT DOOR ASTM A621   | .167" MIN. STL.  | 1.23" X 9.19" MIN.                               |
| 7  | NOTE 2.           | HINGE REINFORCEMENT FRAME ASTM A621  | .167" MIN. STL.  | 1.5" X 9.19" MIN.                                |
| 8  | NOTE 2.           | 4.5" X 4.5" BUTT HINGES (SEE SHT.17)<br>OPTIONAL CONTINUOUS HINGE (SEE SHT.17)   | .134 MIN.<br>.750" MIN. STL/.12 ALUM   | (8) #12-24 MS PER HINGE<br>MAX. 95"              |
| 9  | 2                 | CORE MATERIAL (SHT15):<br>D) HONEYCOMB C) STEEL STIFFENED<br>B/F) POLYURETHANE/POLYISOCYANURATE<br>E) MINERAL BOARD TEMPERATURE RISE CORE  | A/F) POLYSTYRENE   |  |
| 10 | 2                 | LOCKING HARDWARE - SEE SHEETS 2, 10, 11 & 12<br>THRESHOLD SILL W/BUMPER GASKET (SEE SHTS. 5, 6, 7, & 8)  |  |  |
| 11 | 1                 | 11A) 566 ZERO WATER SHTS 5&6 NON WATER SHT 7<br>11B) 950A NGP WATER RATED SHT 6 NON WATER SHT 8<br>11C) 65 ZERO NON WATER RATED SHEET 7<br>11D) 568 ZERO NON WATER RATED SHEET 7 | .125" ALUM. 6063 T5<br>.078" ALUM. 6063 T5<br>.125" ALUM. 6063 T5<br>.125" ALUM. 6063 T5 | 5.0"x0.5"x96"MAX.<br>6.0"x0.5"x96"MAX.           |
| 12 | NOTE 1.           | JAMB ANCHOR ASTM A924  | SEE SHEET 7  |  |
| 13 | SEE SHTS 6, 7 & 8 | 13A) PSD74 DOOR SEAL STEELCRAFT<br>13B)188S, 13C)117S, 13D)8144S, 13E)8150S DOOR SEAL ZERO   | TPE<br>SILICONE  | VARIES   |
| 14 | 2                 | FAS-SEAL DOOR SWEEP SEE SHTS 5,6,7&8   | TPE  | MAX. 47.66"                                      |
| 15 | 4                 | END CHANNEL ASTM A924 (14 GA - INVERTED)   |  | .69" X 1.66" X 47.66" MAX.                       |
| 16 | 1                 | 16A) 328 SPLIT ASTRAGAL BY ZERO INT'L<br>16B) 137 SPLIT ASTRAGAL BY NGP  | SEE SHEETS 5 & 7<br>SEE SHEETS 6 & 8   |  |
| 17 | AS NEEDED         | CAULK - BUTYL RUBBER OR 100% SILICONE  | SEE SHTS 5,6,7&8   |  |
| 18 | 2                 | DOOR SLAB (16 OR 14 GA)  | SEE SHEET 9  | 4' X 8' MAX.                                     |
| 19 | 1                 | 19A) 8150S DOOR SEAL BY ZERO INT'L SEE SHTS 5 & 7<br>19B) 188S DOOR SEAL BY ZERO INT'L SEE SHTS 6 & 7  | TPE  | MAX. 24'   |
| 20 | 4                 | 202N DOOR SEAL BY NGP SEE SHEET 6  | TPE  | MAX. 96"   |
| 21 | 2                 | 21A) 139 DOOR SWEEP BY ZERO INT'L<br>21B) 328 DOOR SWEEP BY ZERO INT'L<br>21C) 200N DOOR SWEEP BY NGP  | SEE SHEETS 5 & 6   | MAX. 96" FOR VERTICAL<br>MAX. 48" FOR HORIZONTAL |
| 22 | 2                 | 22A) 475 ADJUSTABLE SEAL BY ZERO INT'L SEE SHEET 6<br>22B) 170N ADJUSTABLE SEAL BY NGP SEE SHEET 6   | TPE  | MAX. 48"   |
| 23 | 1<br>2            | 23A) 142 RAIN DRIP BY ZERO INT'L<br>23B) 11 RAIN DRIP BY ZERO INT'L<br>23C) 16A RAIN DRIP BY NGP   | SEE SHEETS 5 & 6   | MAX. 104"<br>MAX. 48"                            |
| 24 | 2                 | TOP CAP GALV. A60 ASTM A924  | .020" MIN. STL   | 0.5" X 1.76" X 48" MAX.                          |
| 25 | 2                 | IVES 360 12" SURFACE BOLT  |  |  |
| 26 | 1                 | ASA STRIKE   |  |  |
| 27 | 1                 | Z-ASTRAGAL   | .067" MIN. STL   | MAX. 95.5  |
| 28 | 1                 | HOLLOW METAL MULLION (SINGLE OR DOUBLE RABBET)   | SEE SHEET 9  | MAX. 96"   |
| 29 | 1                 | IVES 698/U698 DOOR VIEWER  | BRASS  |  |

- NOTES:
- ANCHOR REQUIREMENTS: SEE SHEETS 4 & 17 FOR APPROVED ANCHORS AND INSTALLATION REQUIREMENTS. SEE SHEETS 15 & 16 FOR MULLION INSTALLATION.
  - HINGE REQUIREMENTS:  
FOR DOOR OPENING UP TO 90" HIGH - MIN. (3) BUTT HINGES  
FOR DOOR OPENING OVER 90" - 96" HIGH - MIN. (4) BUTT HINGES  
LOCATIONS: 9.75" FROM RABBET IN HEAD TO CL OF TOP HINGE  
10.38" FROM FLOOR TO CL OF BOTTOM HINGE, EQUALLY SPACED IN BETWEEN.  
HINGE LOCATIONS MAY VARY, MAX SPACING NOT TO EXCEED 35.5" FOR THREE HINGES.  
FOR APPROVED CONTINUOUS HINGE MODELS SEE SHEET 17.
  - SEE SHEETS 1, 2 & 9 FOR AVAILABLE STANDARD OPENING SIZES AND SPECIFICATIONS.
  - HARDWARE INSTALLATION AS PER MANUFACTURER'S INSTRUCTIONS.
  - 4" FACE FRAME HEAD IS AVAILABLE. SEE SHEETS 4 AND 17.
  - APPLY CAULK TO FULL LENGTH OF SILL AND ENTIRE PERIMETER OF FRAME. SEE SHEETS 5, 6, 7, & 8.
  - SEE SHEET 13 FOR HORIZONTAL SECTION A-A, SEE SHEET 14 FOR VERTICAL SECTIONS B-B AND C-C.
  - EXIT HARDWARE OPTIONS:  
FOR 98/99 & XP98/99 SERIES - FUNCTIONS E, QEL, RX, LX, SS, EL, CX, F  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 88-F SERIES - FUNCTION E  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
PN MODEL OFFERED.  
FOR 2670 GUARD-X  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 25-R, 25-C & 25-V SERIES - FUNCTIONS DM,LM, KOR, ED, EL, EA, FSA, FSE, HWEA  
TRIM: ALL APPLICABLE TRIMS AVAILABLE
  - PN MODEL OFFERED.
  - ELECTRICAL INSTALLATION AND FIR RATINGS ARE UNDER SEPARATE APPROVAL AND MUST BE REVIEWED BY CORRESPONDING AUTHORITY.
  - OPTIONAL POWER TRANSFERS, MONITORING SWITCHES, SUPPLEMENTARY MAGNETIC LOCKS MAY BE USED AS ALLOWED BY CODE AND IT DOES NOT EFFECT THE MECHANICAL PROPERTIES OF EXIT DEVICE AND/OR INHIBIT EGRESS. TO BE REVIEWED BY BUILDING OFFICIAL.
  - WEATHERSTRIPPING:  
- WHEN WATER INFILTRATION IS REQUIRED INSTALL PER SHEETS 5 OR 6 AS APPLICABLE  
- WHEN WATER INFILTRATION IS NOT REQUIRED INSTALL PER SHEETS 7 OR 8 AS APPLICABLE
  - SILL SHALL BE ANCHORED PER INSTALLATION DETAIL ON THIS SHEET AND SHEETS 4 & 17.
  - GASKETING QUANTITY WILL INCREASE WHEN USED WITH HOLLOW METAL MULLION. SEE SHEET 6, 7 & 8 FOR DETAILS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By Ishag I. Chahin  
Miami-Dade Product Control

|                        |                  |   |      |   |               |
|------------------------|------------------|---|------|---|---------------|
| BEND RADIUS            |                  | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                               |      | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |               |
|                        |                  |   |      |   |               |
| THIRD ANGLE PROJECTION |                  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |      |   |               |
| DRAWN<br>YMF           | DATE<br>05/20/07 | MIAMI-DADE COUNTY PRODUCT APPROVAL<br>H SERIES FLUSH DOUBLE DOORS OUTSWING CONFIGURATIONS                   |      |   |               |
| CHECKED                |                  | SIZE  | FLAT | DWG NO.<br>IRFD07   | REV<br>P      |
| APPROVED               |                  |   |      |   |               |
| ENG. APPVL<br>JPD      | 10/12/07         | SCALE:  | NTS  | AUTOCAD   | SHEET 3 OF 17 |

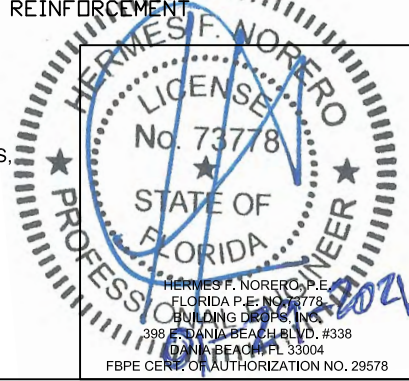


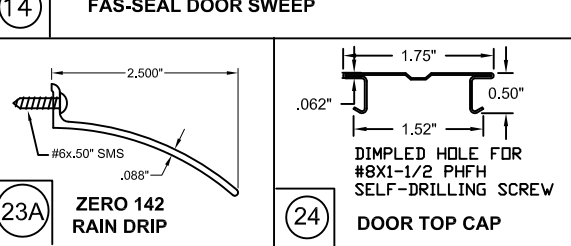
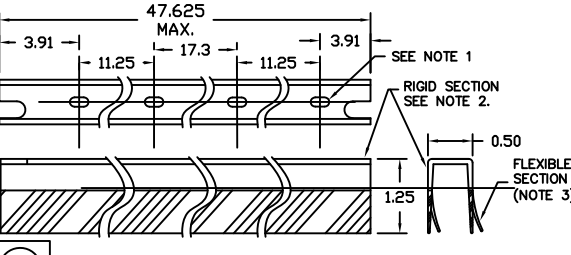
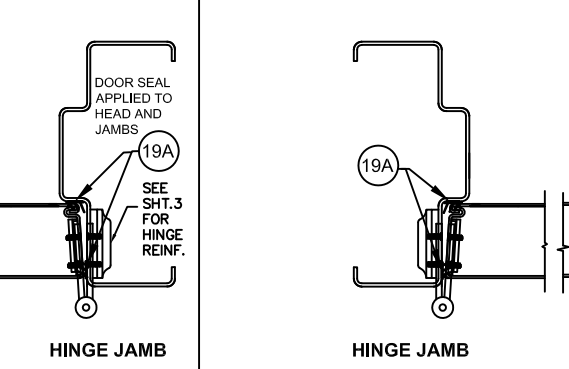
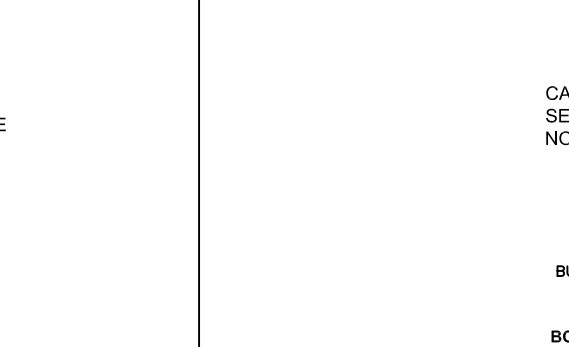
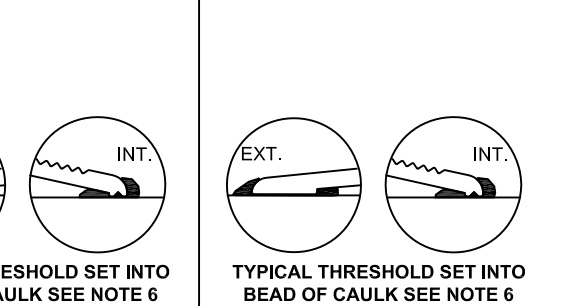
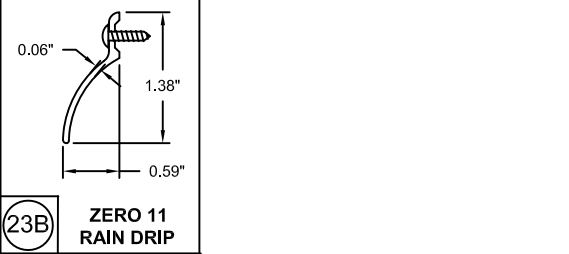
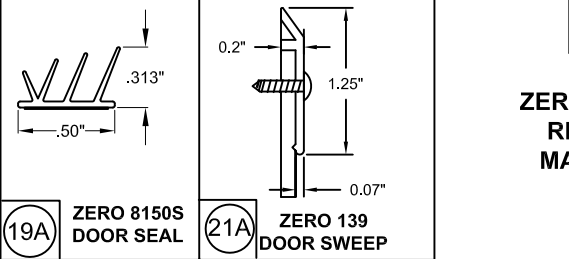
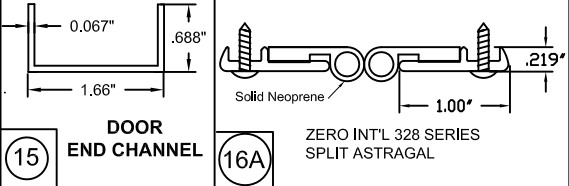
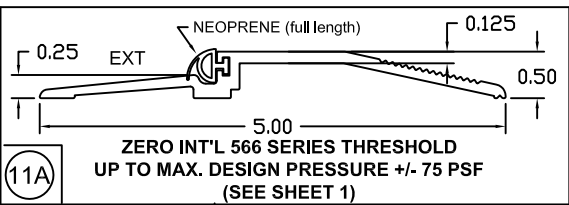




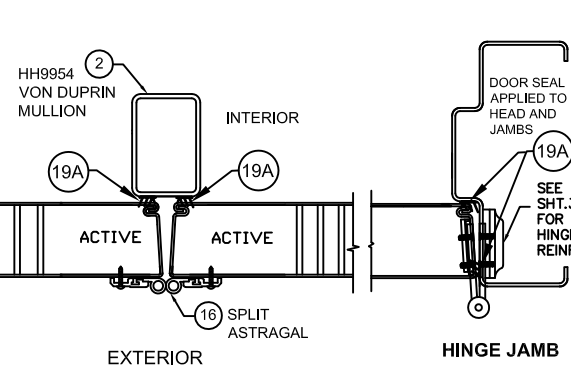
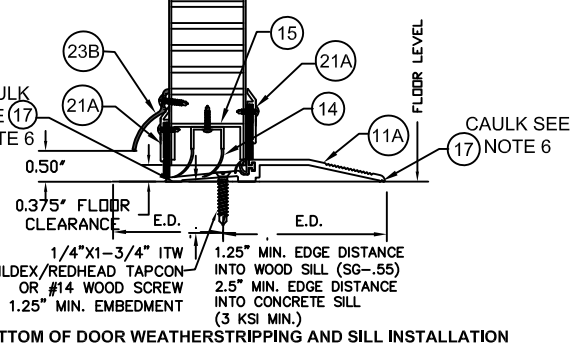
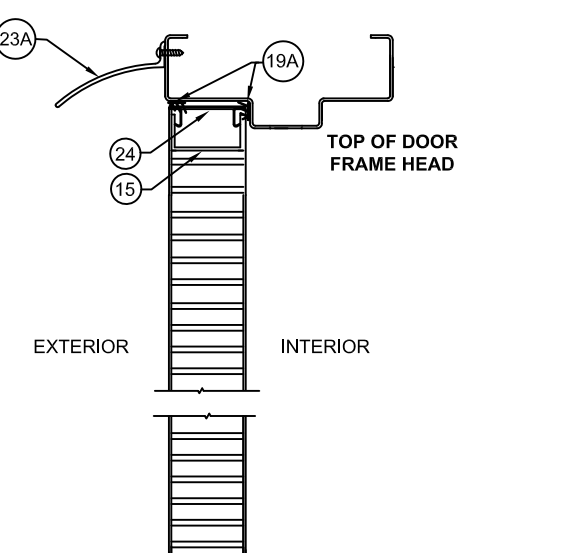
TABLE 3.1 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

| ITEM NUMBER | MODEL No./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11A         | 566 THRESHOLD          | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 16A         | 328 SPLIT ASTRAGAL     | ZERO INT'L |
| 19A         | 8150S DOOR SEAL        | ZERO INT'L |
| 21A         | 139 DOOR SWEEP         | ZERO INT'L |
| 23A         | 142 RAIN DRIP          | ZERO INT'L |
| 23B         | 11 RAIN DRIP           | ZERO INT'L |
| 24          | DOOR TOP CAP           | STEELCRAFT |

ZERO INT'L 566 THRESHOLD GASKETING SYSTEM  
REQUIREMENTS FOR WATER INFILTRATION -  
MAXIMUM DESIGN PRESSURE RATING 75PSF -  
(SEE ELEVATIONS SHEET 1)

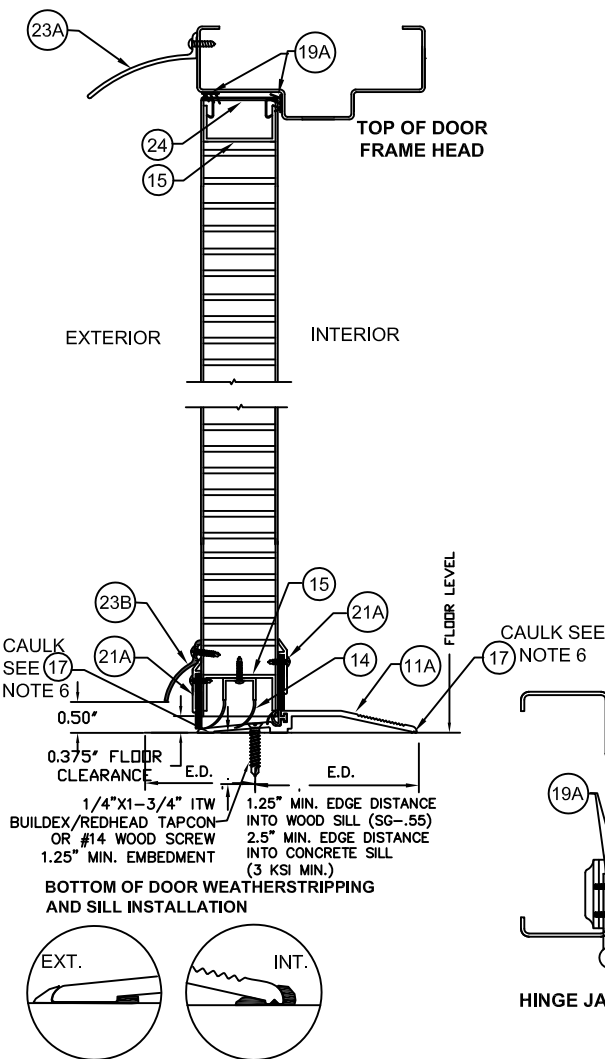


ZERO INT'L 566 THRESHOLD GASKETING SYSTEM  
REQUIREMENTS FOR WATER INFILTRATION -  
MAXIMUM DESIGN PRESSURE RATING 75PSF -  
(SEE ELEVATIONS SHEET 1)



ZERO INT'L 566 THRESHOLD GASKETING SYSTEM  
REQUIREMENTS FOR WATER INFILTRATION -  
MAXIMUM DESIGN PRESSURE RATING 75PSF -  
(SEE ELEVATIONS SHEET 1)

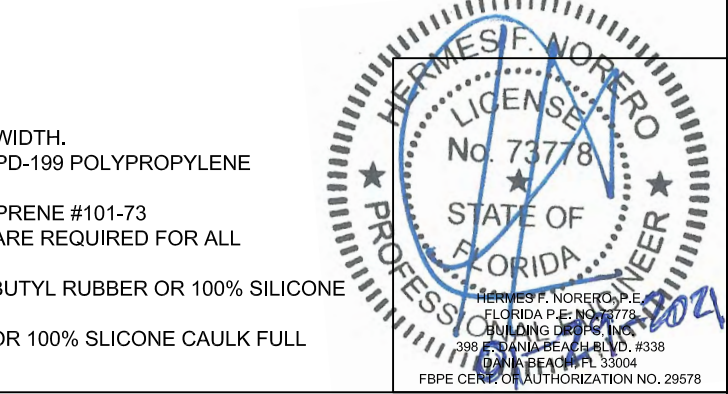
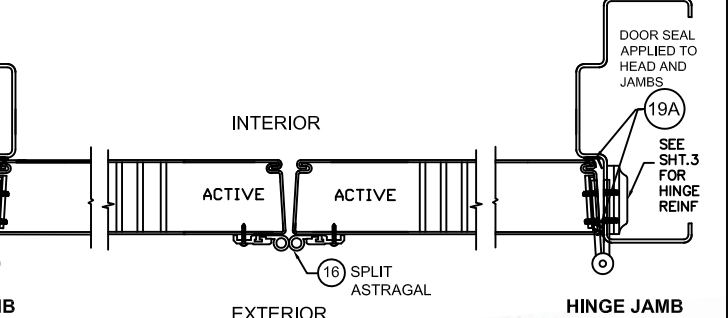
FOR CONFIGURATIONS:  
7 & 8 (SEE ELEVATIONS SHEET 1)



NOTES:  
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.  
2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.  
3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73  
4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A) ARE REQUIRED FOR ALL INSTALLATIONS.  
5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK  
6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SLICONE CAULK FULL LENGTH OF SILL

| R E V I S I O N S |                 |      |          |  |
|-------------------|-----------------|------|----------|--|
| LTR               | DESCRIPTION     | DATE | APPROVED |  |
| A                 | APPROVAL DWG    | YMF  | 05/20/07 |  |
| E                 | REVISED DWG     | YMF  | 04/09/08 |  |
| F                 | REVISED DWG     | YMF  | 06/02/08 |  |
| G                 | REVISED DWG     | YMF  | 02/06/09 |  |
| H                 | REVISED DWG     | YMF  | 03/18/09 |  |
| J                 | REVISED DWG     | YMF  | 04/06/10 |  |
| K                 | REVISED NAME    | JPD  | 11/01/13 |  |
| L                 | REVISED DWG     | JPD  | 02/01/15 |  |
| M                 | REVISED DWG     | JPD  | 05/05/15 |  |
| N                 | ENGINEER CHANGE | LA   | 02/03/17 |  |
| O                 | ADDRESS UPDATE  | SM   | 02/27/20 |  |
| P                 | 2020 FBC UPDATE | NUS  | 07/07/20 |  |

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By *Ishaq I. Chandra*  
Miami-Dade Product Control



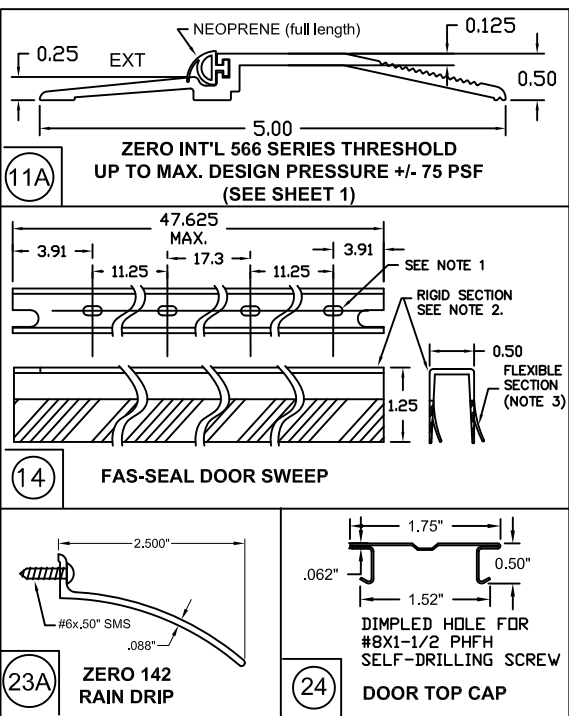
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|------------------------|--|---|--|--|--|
| BEND RADIUS            |  | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                               |  | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242        |  |
| THIRD ANGLE PROJECTION |  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |  | DOUBLE FLUSH DOOR PERIMETER SEAL HARDWARE<br>APPROVED WHERE WATER INFILTRATION IS REQUIRED |  |
| DRAWN<br>YMF           |  | DATE<br>05/20/07  |  | SIZE<br>FLAT   |  |
| CHECKED                |  | APPROVED  |  | DWG NO.<br>IRFD07  |  |
| ENG. APPVL<br>JPD      |  | 10/11/07  |  | SCALE:<br>NTS  |  |
|                        |  |   |  | AUTOCAD  |  |
|                        |  |   |  | SHEET<br>5 of 17   |  |
|                        |  |   |  | REV<br>P   |  |



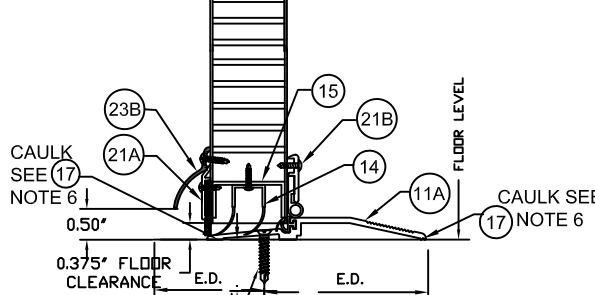
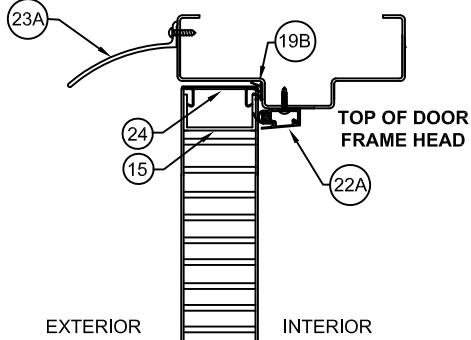
TABLE 3.2 WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLD 566

| ITEM NUMBER | MODEL No./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11A         | 566 THRESHOLD          | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 19B         | 188S DOOR SEAL         | ZERO INT'L |
| 21A         | 139 DOOR SWEEP         | ZERO INT'L |
| 21B         | 328 DOOR SWEEP         | ZERO INT'L |
| 22A         | 475 ADJUSTABLE SEAL    | ZERO INT'L |
| 23A         | 142 RAIN DRIP          | ZERO INT'L |
| 23B         | 11 RAIN DRIP           | ZERO INT'L |
| 24          | DOOR TOP CAP           | STEELCRAFT |

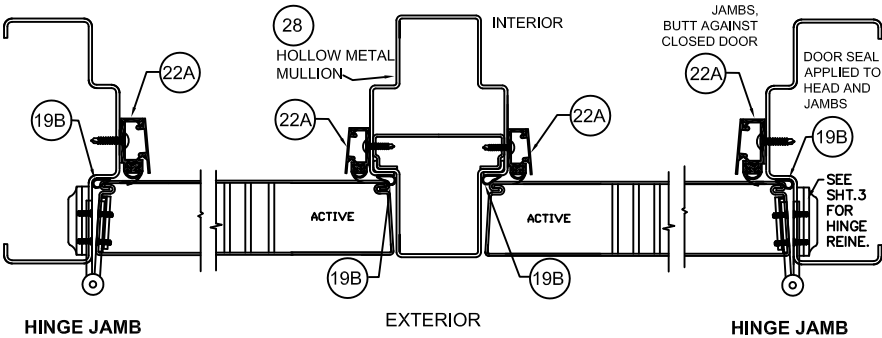
ZERO INT'L 566 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING 70 PSF - (SEE CONFIGURATION 10, ELEVATIONS SHEET 1)



FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)



CAULK SEE (17) NOTE 6  
0.375" FLOOR CLEARANCE  
E.D.  
1/4"x1-3/4" ITW BUILDX/REDHEAD TAPCON OR #14 WOOD SCREW 1.25" MIN. EMBEDMENT  
1.25" MIN. EDGE DISTANCE INTO WOOD SILL (SG-.55) 2.5" MIN. EDGE DISTANCE INTO CONCRETE SILL (3 KSI MIN.)  
BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION



APPLIED TO THE SOFFIT AREA OF HINGE JAMBS, BUTT AGAINST CLOSED DOOR

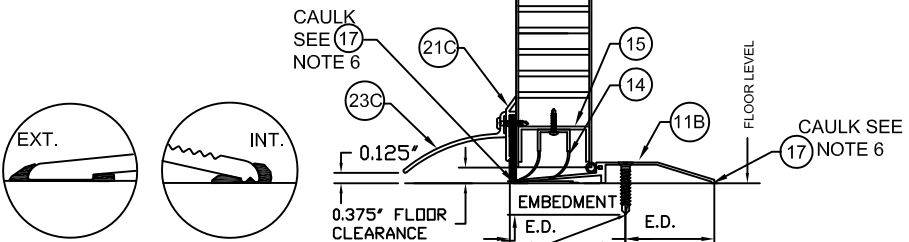
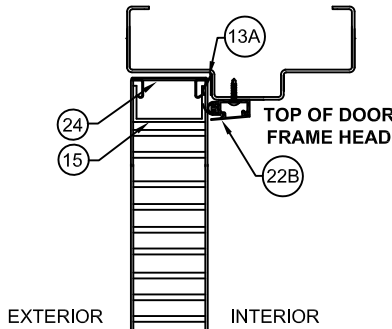
HINGE JAMB

TABLE 3.3 WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD 950

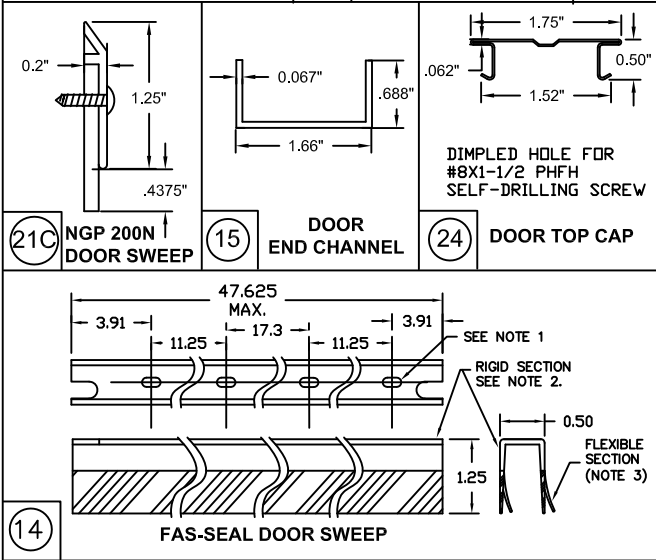
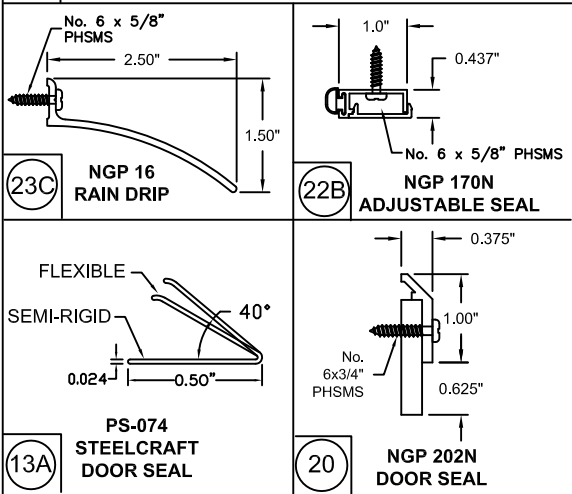
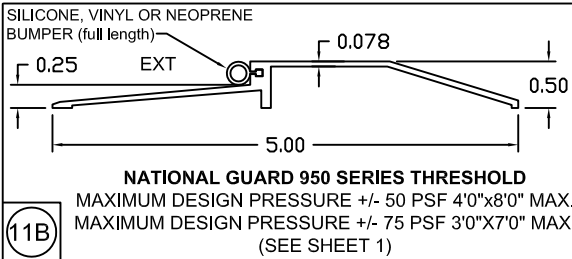
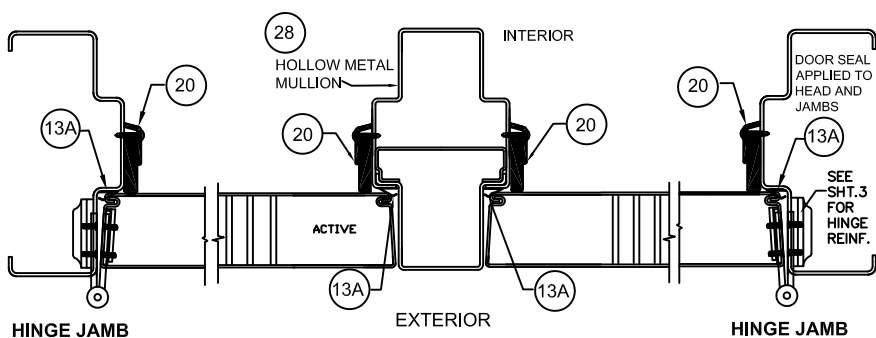
| ITEM NUMBER | MODEL No./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11B         | 950 THRESHOLD          | NGP        |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 13A         | PS074 DOOR SEAL        | STEELCRAFT |
| 20          | 202N DOOR SEAL         | NGP        |
| 21C         | 200N DOOR SWEEP        | NGP        |
| 22B         | 170N ADJUSTABLE SEAL   | NGP        |
| 23C         | 16A RAIN DRIP          | NGP        |
| 24          | DOOR TOP CAP           | STEELCRAFT |

NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS FOR WATER INFILTRATION - MAXIMUM DESIGN PRESSURE RATING ±70 PSF FOR MAXIMUM DOOR SIZE OF 3'-0" X 7'-0" MAXIMUM DESIGN PRESSURE +50/-70 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" (SEE CONFIGURATION 10, ELEVATIONS SHEET 1)

FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)



CAULK SEE (17) NOTE 6  
0.125"  
0.375" FLOOR CLEARANCE  
E.D.  
1/4"x1-3/4" ITW BUILDX/REDHEAD TAPCON OR #14 WOOD SCREW 1.25" MIN. EMBEDMENT  
1.25" MIN. EDGE DISTANCE INTO WOOD SILL (SG-.55) 2.5" MIN. EDGE DISTANCE INTO CONCRETE SILL (3 KSI MIN.)  
BOTTOM OF DOOR WEATHERSTRIPPING AND SILL INSTALLATION



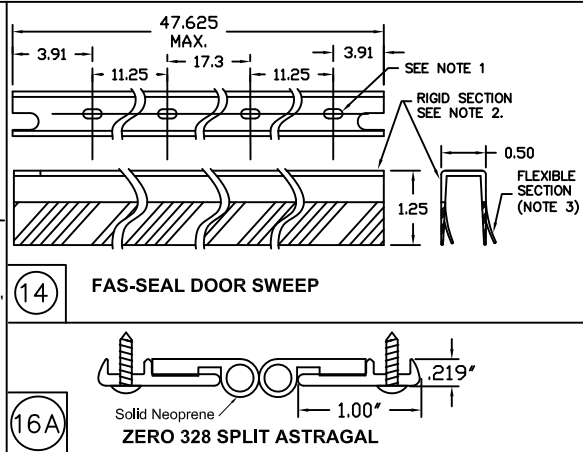
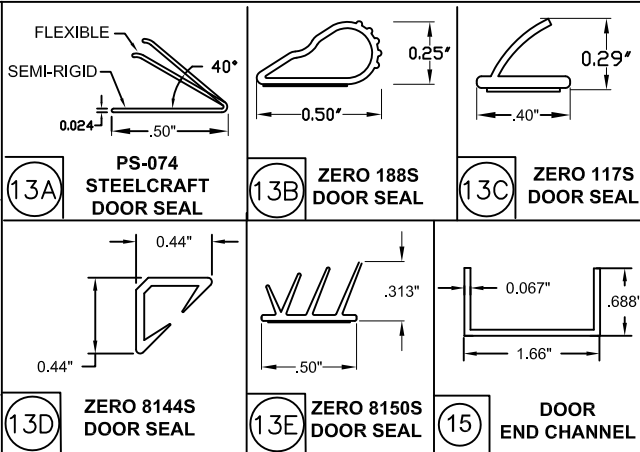
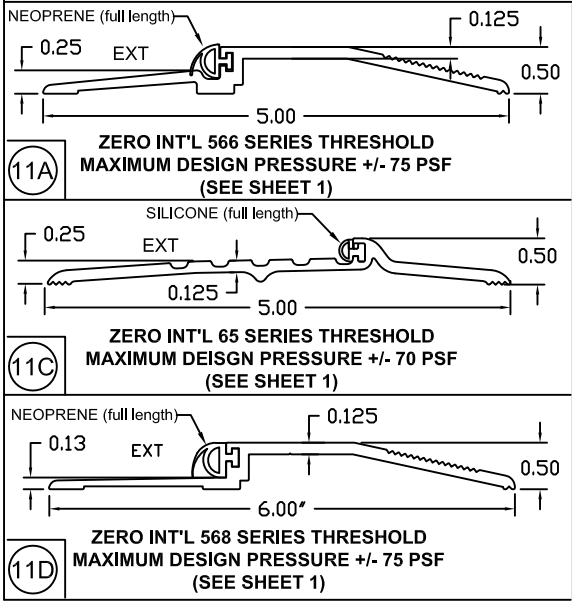
- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. FAS-SEAL DOOR SWEEP (14), AND THRESHOLD (11A OR 11B) AS APPLICABLE ARE REQUIRED FOR ALL INSTALLATIONS.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL

|                        |  |   |  |   |  |
|------------------------|--|---|--|---|--|
| BEND RADIUS            |  | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032 |  | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |  |
| THIRD ANGLE PROJECTION |  | DRAWN<br>YMF  |  | DATE<br>05/20/07  |  |
| CHECKED                |  | APPROVED  |  | SIZE<br>FLAT  |  |
| ENG. APPVL<br>JPD      |  | 10/11/07  |  | DWG NO.<br>IRFD07   |  |
| SCALE: NTS             |  | AUTOCAD   |  | SHEET<br>6 of 17  |  |

TABLE 4.1 NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INT'L THRESHOLDS

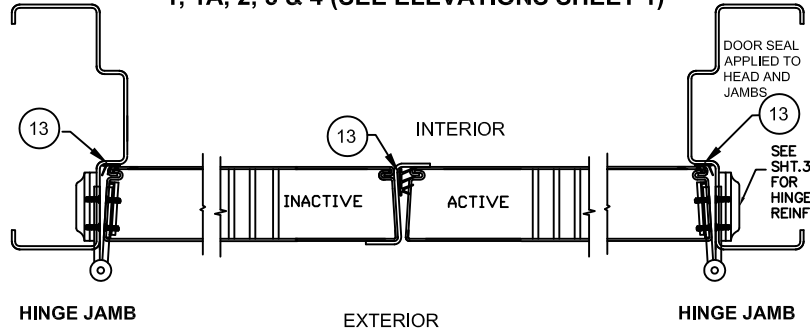
| ITEM NUMBER | MODEL No./ DESCRIPTION |                 | MFG.       |
|-------------|------------------------|-----------------|------------|
| 11          | 11A                    | 566 THRESHOLD   | ZERO INT'L |
|             | 11C                    | 65 THRESHOLD    | ZERO INT'L |
|             | 11D                    | 568 THRESHOLD   | ZERO INT'L |
| 13          | 13A                    | PS074 DOOR SEAL | STEELCRAFT |
|             | 13B                    | 188S DOOR SEAL  | ZERO INT'L |
|             | 13C                    | 117S DOOR SEAL  | ZERO INT'L |
|             | 13D                    | 8144S DOOR SEAL | ZERO INT'L |
|             | 13E                    | 8150S DOOR SEAL | ZERO INT'L |
| 14          | FAS-SEAL SWEEP         |                 | STEELCRAFT |
| 15          | END CHANNEL            |                 | STEELCRAFT |
| 16A         | 328 SPLIT ASTRAGAL     |                 | ZERO INT'L |

ZERO INT'L 566, 65 AND 568 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED  
MAXIMUM DESIGN PRESSURE RATING 75 PSF - EXCEPT CONFIGURATION 10 LIMITED TO 70 PSF  
MAXIMUM DOOR SIZE 4'-0" X 8'-0"  
(SEE ELEVATIONS SHEET 1)

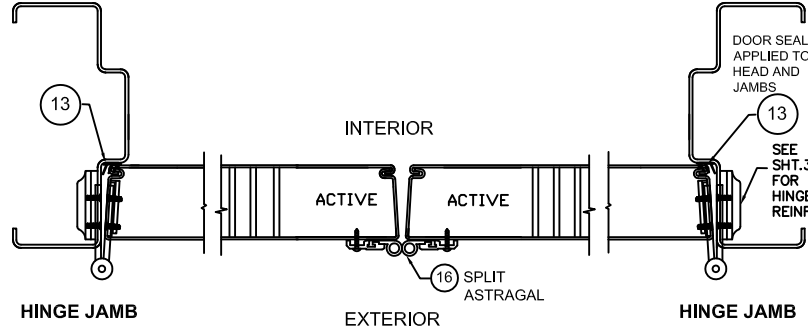


| REVISIONS |             |        |      |          |
|-----------|-------------|--------|------|----------|
| LTR       | DESCRIPTION |        | DATE | APPROVED |
| A         | APPROVAL    | DWG    | YMF  | 05/20/07 |
| E         | REVISED     | DWG    | YMF  | 04/09/08 |
| F         | REVISED     | DWG    | YMF  | 06/02/08 |
| G         | REVISED     | DWG    | YMF  | 02/06/09 |
| H         | REVISED     | DWG    | YMF  | 03/18/09 |
| J         | REVISED     | DWG    | YMF  | 04/06/10 |
| K         | REVISED     | NAME   | JPD  | 11/01/13 |
| L         | REVISED     | DWG    | JPD  | 02/01/15 |
| M         | REVISED     | DWG    | JPD  | 05/05/15 |
| N         | ENGINEER    | CHANGE | LA   | 02/03/17 |
| O         | ADDRESS     | UPDATE | SM   | 02/27/20 |
| P         | 2020 FBC    | UPDATE | NUS  | 07/07/20 |

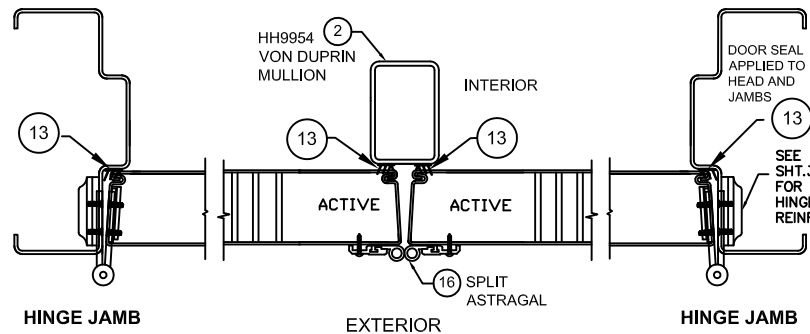
FOR CONFIGURATIONS:  
1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEET 1)



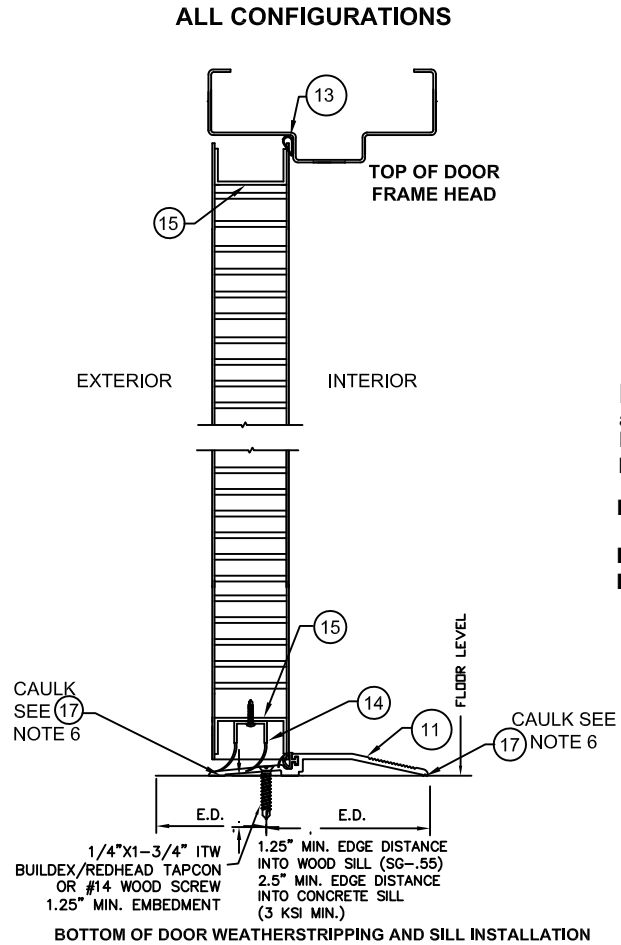
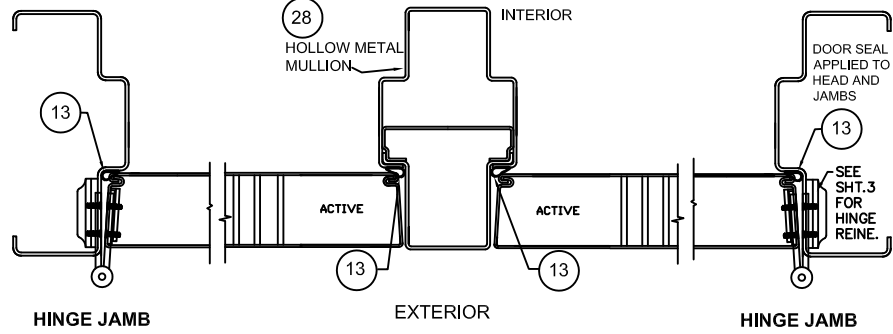
FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 1)



FOR CONFIGURATIONS:  
5, 6, 9, & 11 (SEE ELEVATIONS SHEET 1)



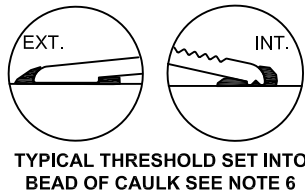
FOR CONFIGURATION: 10 (SEE ELEVATIONS SHEET 1)



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By Ishag I. Chande  
Miami-Dade Product Control



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. FAS-SEAL DOOR SWEEP (15), DOOR SEAL (13A, 13B, 13C, 13D, 13E) AND THRESHOLD (11A, 11C, 11D) AS APPLICABLE, ARE REQUIRED FOR ALL INSTALLATIONS.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL



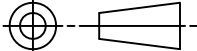
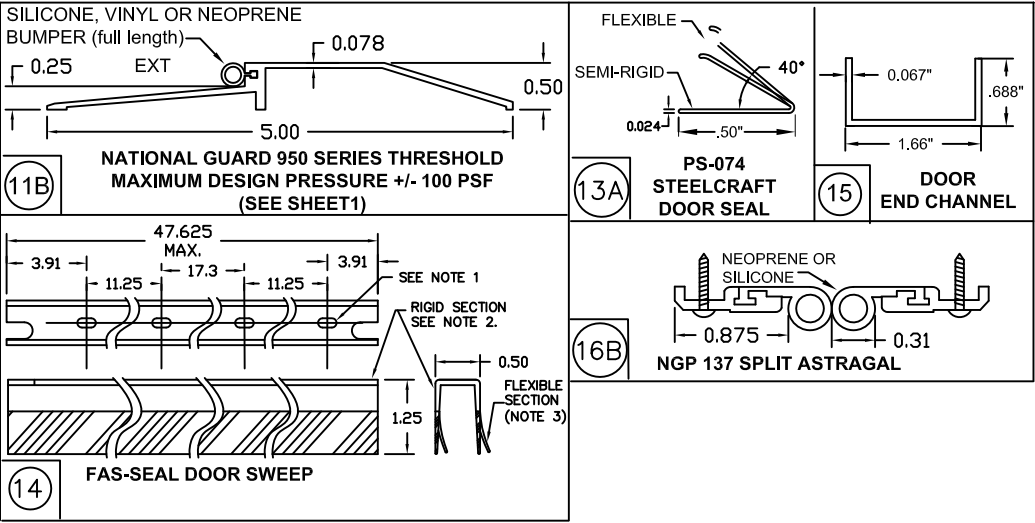
|   |                  |  |      |         |   |  |          |
|---|------------------|--|------|---------|---|--|----------|
| BEND RADIUS   |                  | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                                    |      |         | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |  |          |
|  |                  |  |      |         |   |  |          |
| THIRD ANGLE PROJECTION  |                  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES      |      |         |   |  |          |
| DRAWN<br>YMF  | DATE<br>05/20/07 | DOUBLE FLUSH DOOR PERIMETER SEAL ZERO INT'L HARDWARE<br>APPROVED WHERE WATER INFILTRATION IS <u>NOT</u> REQUIRED |      |         |   |  |          |
| CHECKED   |                  |  |      |         |   |  |          |
| APPROVED  |                  | SIZE   | FLAT | DWG NO. | IRFD07  |  | REV<br>P |
| ENG. APPVL<br>JPD   | 10/11/07         | SCALE:   | NTS  | AUTOCAD | SHEET   |  | 7 of 17  |



TABLE 4.2 NON WATER RATED PERIMETER SEAL HARDWARE - NGP THRESHOLD

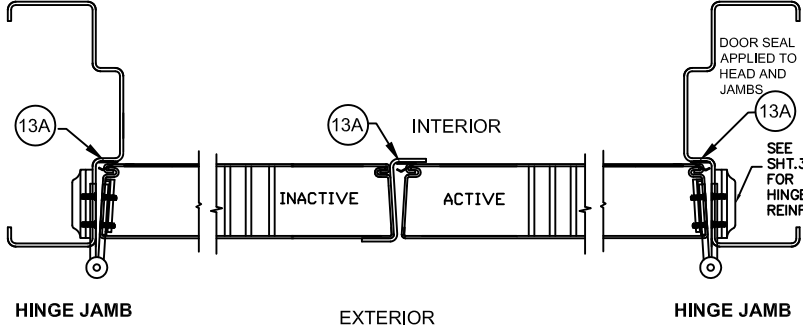
| ITEM NUMBER | MODEL No./ DESCRIPTION | MFG.       |
|-------------|------------------------|------------|
| 11B         | 950 THRESHOLD          | NGP        |
| 13A         | PS074 DOOR SEAL        | STEELCRAFT |
| 14          | FAS-SEAL SWEEP         | STEELCRAFT |
| 15          | END CHANNEL            | STEELCRAFT |
| 16B         | 137 SPLIT ASTRAGAL     | NGP        |

NGP 950 THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED - MAXIMUM DESIGN PRESSURE 90 PSF FOR MAXIMUM DOOR SIZE OF 4'-0" X 8'-0" EXCEPT CONFIGURATION 10 LIMITED TO MAX 70 PSF (SEE ELEVATIONS SHEET 1)

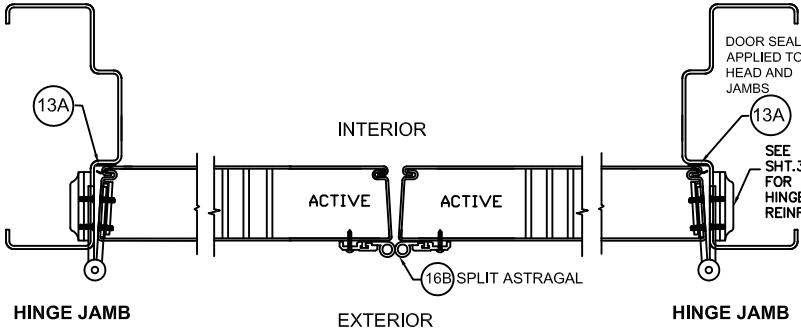


| REVISIONS |                 |     |          |          |
|-----------|-----------------|-----|----------|----------|
| LTR       | DESCRIPTION     |     | DATE     | APPROVED |
| A         | APPROVAL DWG    | YMF | 05/20/07 |          |
| E         | REVISED DWG     | YMF | 04/09/08 |          |
| F         | REVISED DWG     | YMF | 06/02/08 |          |
| G         | REVISED DWG     | YMF | 02/06/09 |          |
| H         | REVISED DWG     | YMF | 03/18/09 |          |
| J         | REVISED DWG     | YMF | 04/06/10 |          |
| K         | REVISED NAME    | JPD | 11/01/13 |          |
| L         | REVISED DWG     | JPD | 02/01/15 |          |
| M         | REVISED DWG     | JPD | 05/05/15 |          |
| N         | ENGINEER CHANGE | LA  | 02/03/17 |          |
| O         | ADDRESS UPDATE  | SM  | 02/27/20 |          |
| P         | 2020 FBC UPDATE | NUS | 07/07/20 |          |

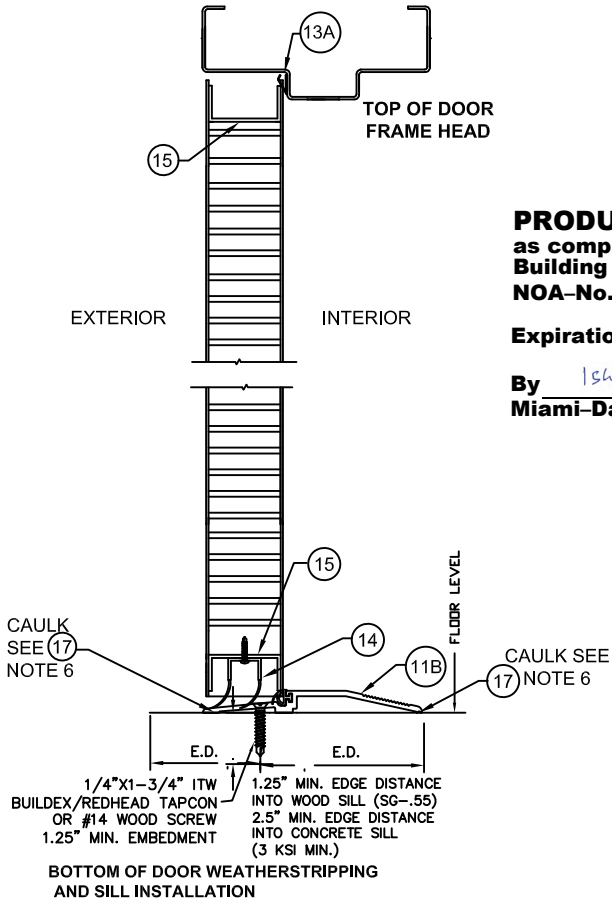
FOR CONFIGURATIONS: 1, 1A, 2, 3 & 4 (SEE ELEVATIONS SHEET 1)



FOR CONFIGURATIONS: 7 & 8 (SEE ELEVATIONS SHEET 1)



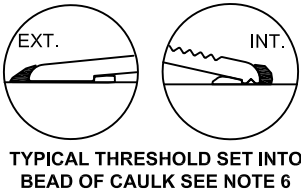
ALL CONFIGURATIONS



PRODUCT REVISED as complying with the Florida Building Code NOA-No. 20-1005.20 Expiration Date 05/05/2023 By Ishag I. Chanda Miami-Dade Product Control



- NOTES:
1. SLOT LOCATIONS MAY VARY WITH DIFFERENT DOOR WIDTH.
  2. DOOR SWEEP RIGID SECTION IS MADE OF PRO-FAX #PD-199 POLYPROPYLENE HOMOPOLYMER.
  3. DOOR SWEEP FLEXIBLE SECTION IS MADE OF SANTOPRENE #101-73
  4. FAS-SEAL DOOR SWEEP (15), DOOR SEAL (13A) AND THRESHOLD (11B) AS APPLICABLE, ARE REQUIRED FOR ALL INSTALLATIONS.
  5. SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK
  6. INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL



|   |  |   |  |   |  |  |  |         |  |          |  |                |  |          |  |            |  |         |  |               |  |
|---|--|---|--|---|--|--|--|---------|--|----------|--|----------------|--|----------|--|------------|--|---------|--|---------------|--|
| BEND RADIUS   |  | THIRD ANGLE PROJECTION  |  | DRAWN YMF   |  | DATE 05/20/07  |  | CHECKED |  | APPROVED |  | ENG. APPVL JPD |  | 10/11/07 |  | SCALE: NTS |  | AUTOCAD |  | SHEET 8 of 17 |  |
| SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032 |  | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |  | DOUBLE FLUSH DOOR PERIMETER NGP SEAL HARDWARE<br>APPROVED WHERE WATER INFILTRATION IS NOT REQUIRED |  | SIZE    |  | DWG NO.  |  | IRFD07         |  | REV      |  | P          |  |         |  |               |  |

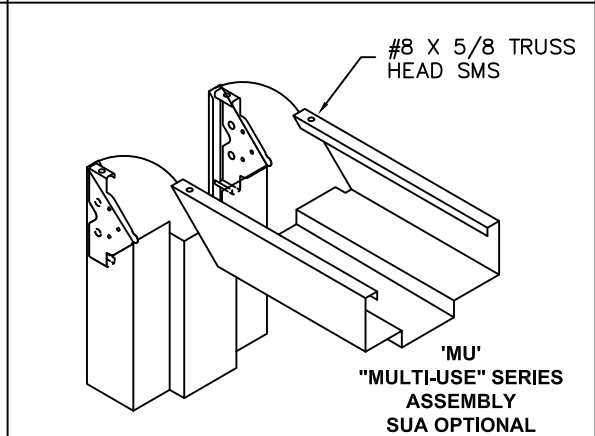
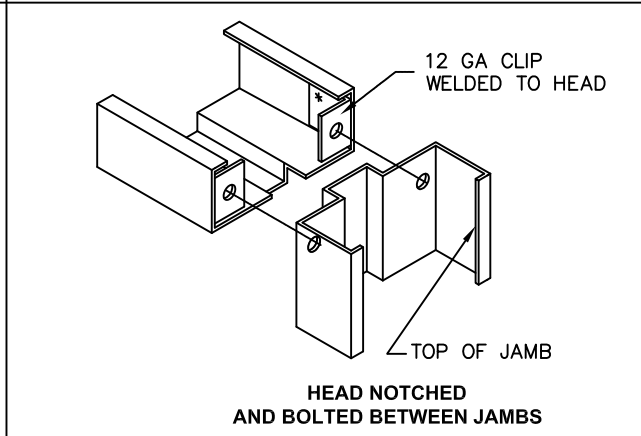
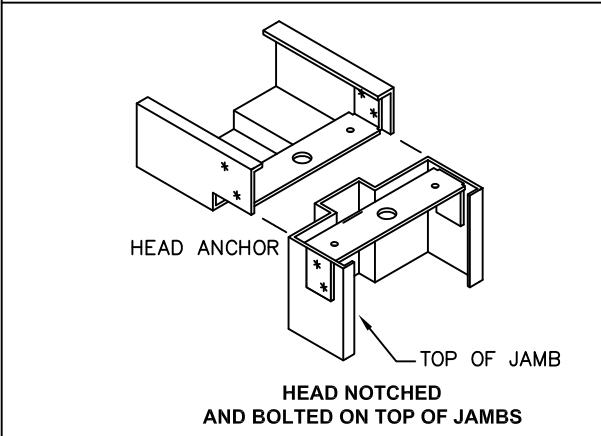
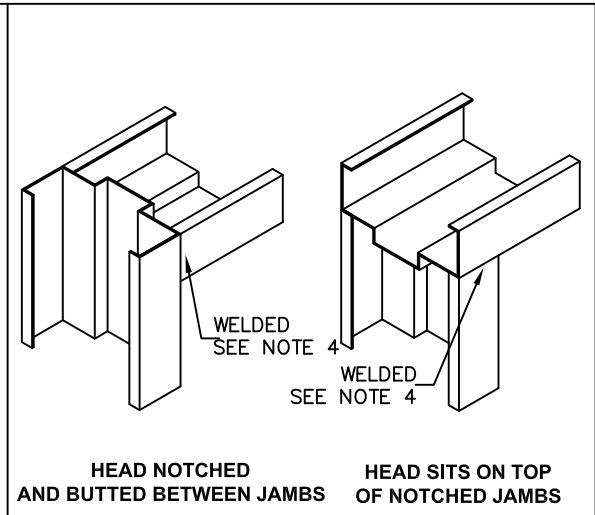
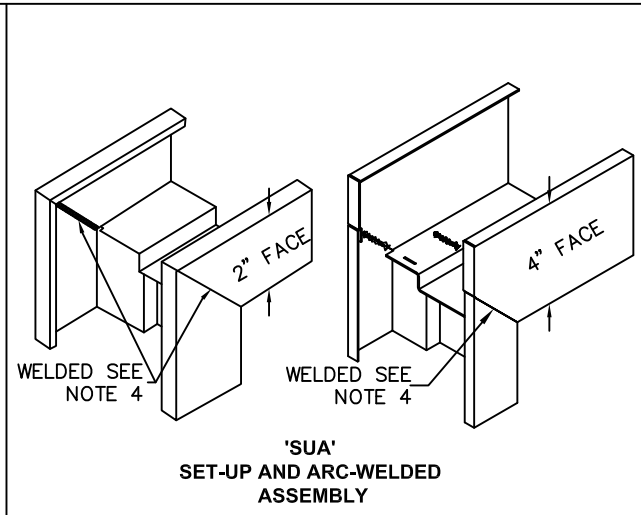
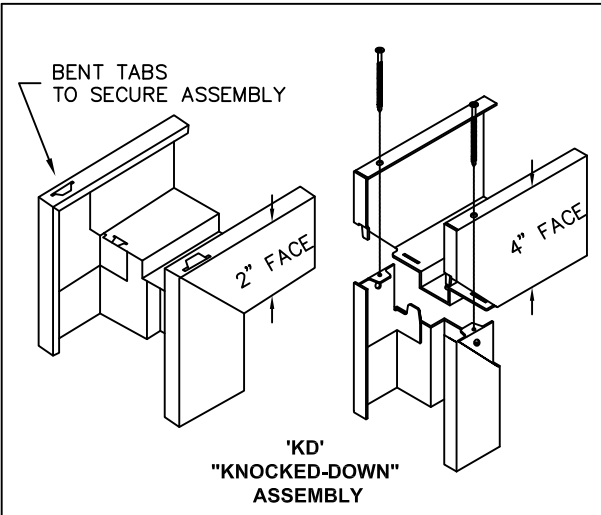


TABLE 7. STEEL MECHANICAL PROPERTIES

| MATERIAL    | ASTM REF. | YIELD KSi | TENSILE KSi |
|-------------|-----------|-----------|-------------|
| CRS         | A366      | MIN. 30.1 | MIN. 44.7   |
| HRS         | A1011     |           |             |
| GALV: A60   | A924      | MIN. 31.2 | MIN. 73.2   |
| SS: 304,306 | A240      |           |             |

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By Ishay L. Chank  
Miami-Dade Product Control

REVISIONS

| LTR | DESCRIPTION        | DATE         | APPROVED |
|-----|--------------------|--------------|----------|
| A   | APPROVAL DWG       | YMF 05/20/07 |          |
| E   | REVISED DWG        | YMF 04/09/08 |          |
| F   | REVISED DWG        | YMF 06/02/08 |          |
| G   | REVISED PER_MDBCCO | YMF 02/06/09 |          |
| H   | REVISED DWG        | YMF 03/18/09 |          |
| J   | REVISED DWG        | YMF 04/06/10 |          |
| K   | REVISED NAME       | JPD 11/01/13 |          |
| L   | REVISED DWG        | JPD 02/01/15 |          |
| M   | REVISED DWG        | JPD 02/01/15 |          |
| N   | ENGINEER CHANGE    | LA 03/10/17  |          |
| O   | ADDRESS UPDATE     | SM 02/27/20  |          |
| P   | 2020 FBC UPDATE    | NUS 07/07/20 |          |

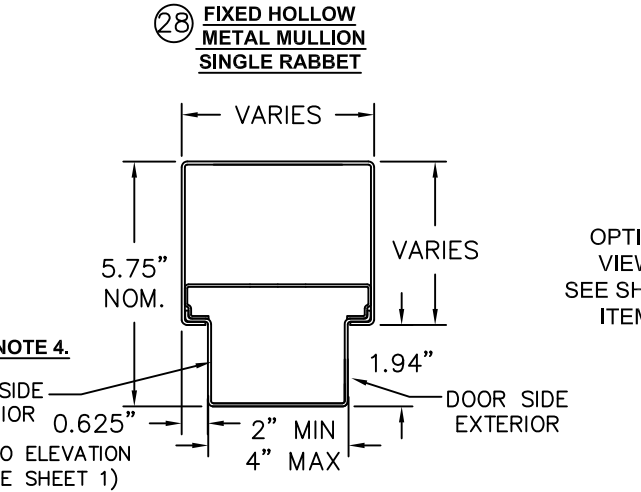
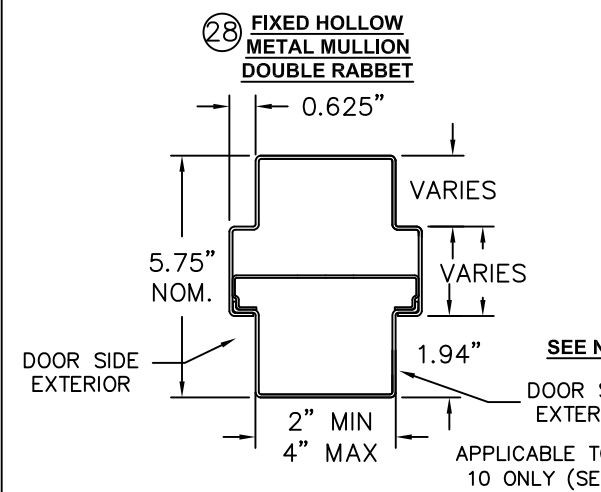
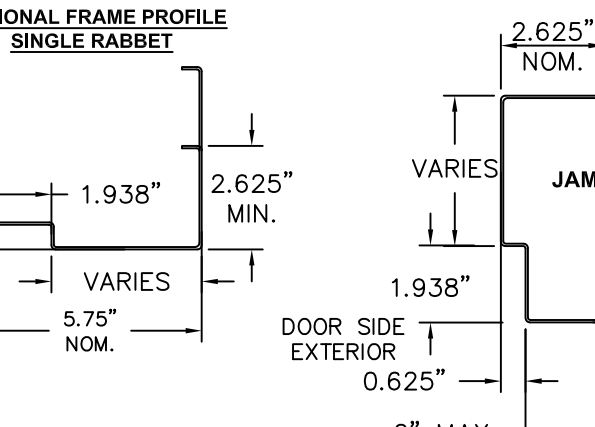
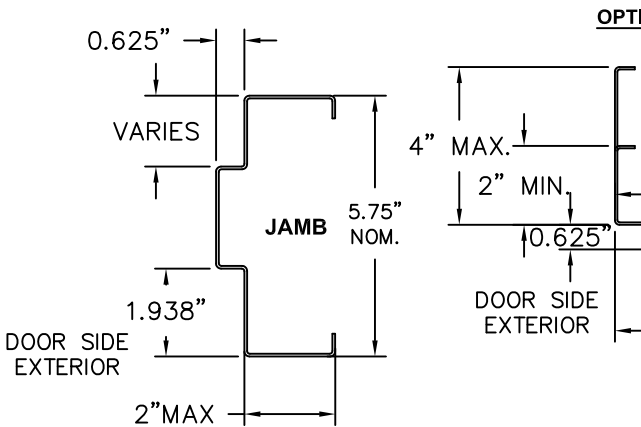
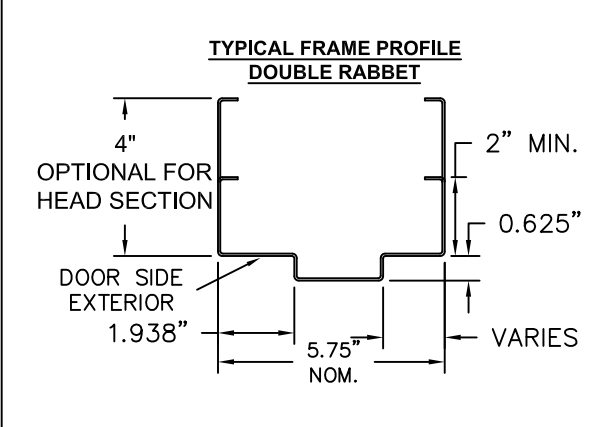
TABLE 6. AVAILABLE STEELCRAFT FRAME CONFIGURATIONS

| FRAME SERIES | JAMB DEPTH | MAX. OPENING SIZE |        | MATERIAL        |                                  |
|--------------|------------|-------------------|--------|-----------------|----------------------------------|
|              |            | WIDTH             | HEIGHT | DESCR.          | GA./MIN. THK                     |
| F            | 5.75" NOM. | 8'0"              | 8'0"   | CRS/HRS GALV    | 16/.053"<br>14/.067"<br>12/.099" |
|              |            |                   |        | STAINLESS STEEL | 16/.053"                         |
| MU           | 5.75" NOM. | 8'0"              | 8'0"   | CRS/HRS GALV    | 16/.053"<br>14/.067"             |

TABLE 5. AVAILABLE STEELCRAFT DOOR CONFIGURATIONS

| CORE MATERIAL PER SHT.13   | MAXIMUM OPENING SIZE       |        | SKIN MATERIAL   |                      |
|--|----------------------------|--------|-----------------|----------------------|
|  | WIDTH                      | HEIGHT | DESCR.          | GA./MIN. THK         |
| HONEYCOMB POLYSTYRENE POLYURETHANE (POLYISOCYANURATE) TEMPERATURE RISE STEEL STIFFENED | VARIES SEE SHEET 2 TABLE 1 |        | CRS GALV        | 16/.053"<br>14/.067" |
| HONEYCOMB POLYSTYRENE POLYURETHANE   | VARIES SEE SHEET 2 TABLE 1 |        | STAINLESS STEEL | 16/.053"             |

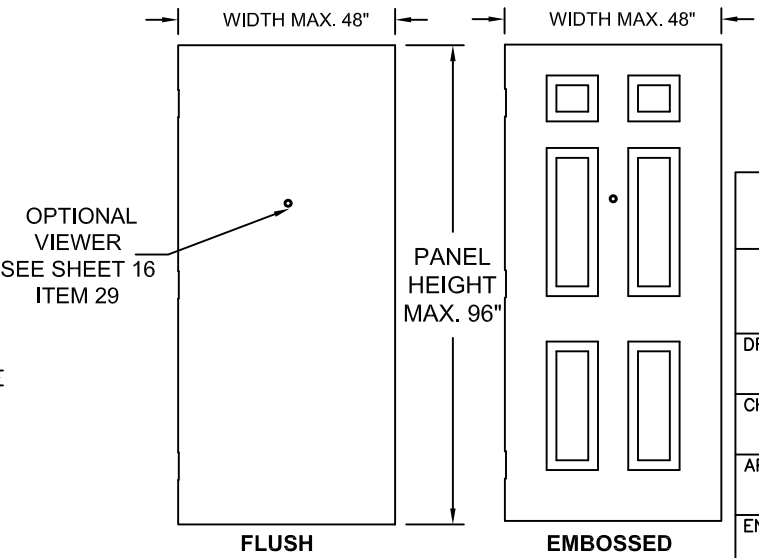
- NOTES:
- DOOR CONSTRUCTION
    - NOMINAL DOOR THICKNESS – 1 3/4"
    - DOOR SIZE MAY VARY, SUBJECTED TO COMPLIANCE WITH FLORIDA BUILDING CODE AND PRODUCT AVAILABILITY FROM MANUFACTURER (SEE SHEET 2 FOR AVAILABLE HARDWARE)
    - PEEP-HOLES AND DOOR VIEWERS ARE PERMITTED TO BE USED IN DOORS WITH A MAXIMUM DESIGN PRESSURE OF +/- 75 PSF OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION.
  - FRAME CONSTRUCTION
    - NOMINAL JAMB DEPTH – 5 3/4", STOP HEIGHT – 5/8"
    - FRAMES AVAILABLE AS FLUSH (F-SERIES) AND MULTI-USE (MU-SERIES) (SEE TABLE 6)
  - FOR MATERIAL SPECIFICATIONS REFERENCE SEE TABLE 7.
  - CONTINUOUS BACK WELD WITH FULL PENETRATION TO FACE SEAM. GRIND, SMOOTH, PRIME, & PAINT. WELD CLASSIFICATION – E70XX



SEE NOTE 4.

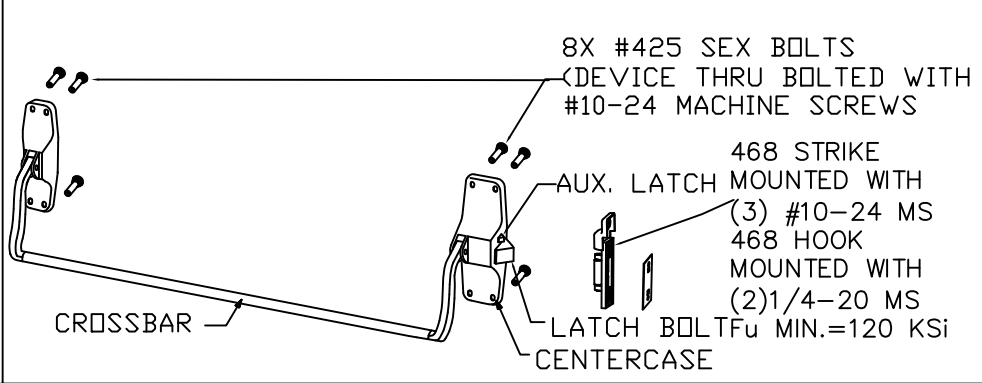
APPLICABLE TO ELEVATION 10 ONLY (SEE SHEET 1)

AVAILABLE DOOR PANEL CONFIGURATIONS

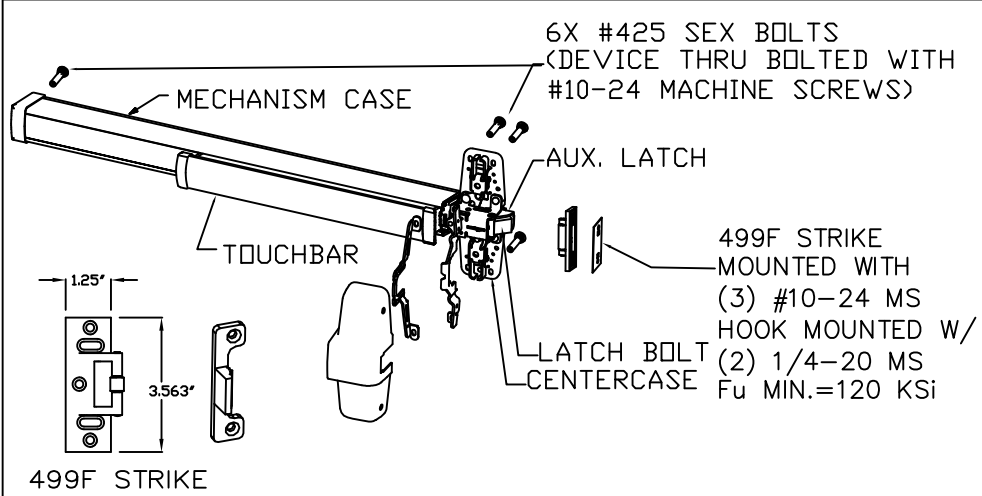


HOLLOW MULLION MATERIAL: MINIMUM THICKNESS IS 0.053" (16 Ga.)  
HOLLOW MULLION MINIMUM YIELD STRENGTH = 58,000 PSI  
HOLLOW MULLION MINIMUM TENSILE STRENGTH = 45,700 PSI

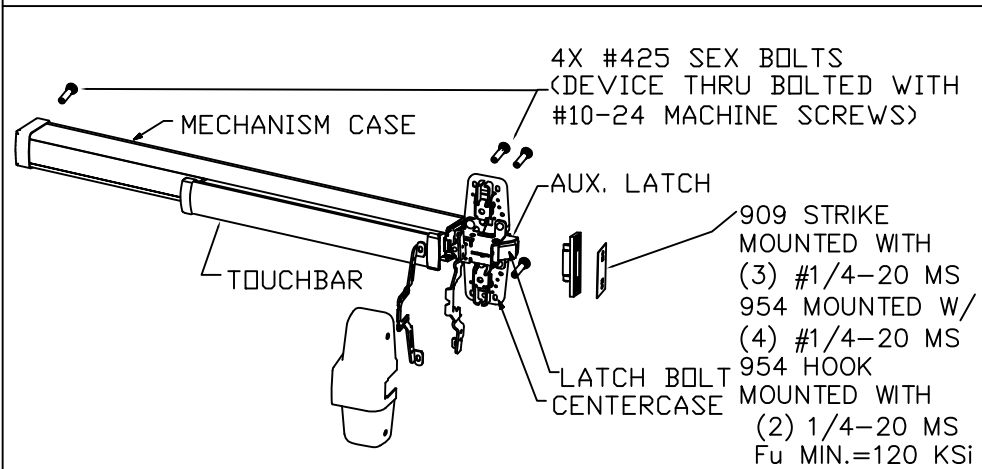




RIM EXIT DEVICE VON DUPRIN 88-F  
USED IN DOOR CONFIGURATION: 6

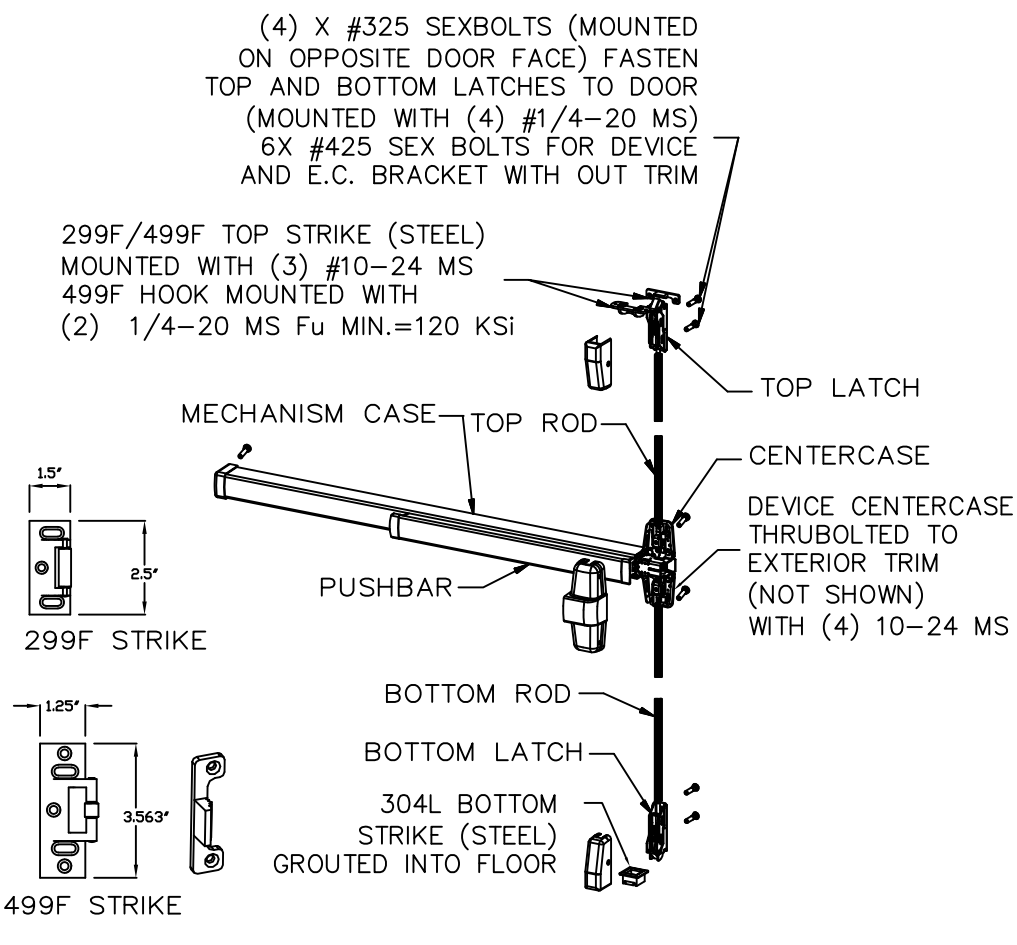


RIM EXIT DEVICE VON DUPRIN 98, 99, 98-F & 99-F  
USED IN DOOR CONFIGURATION: 6

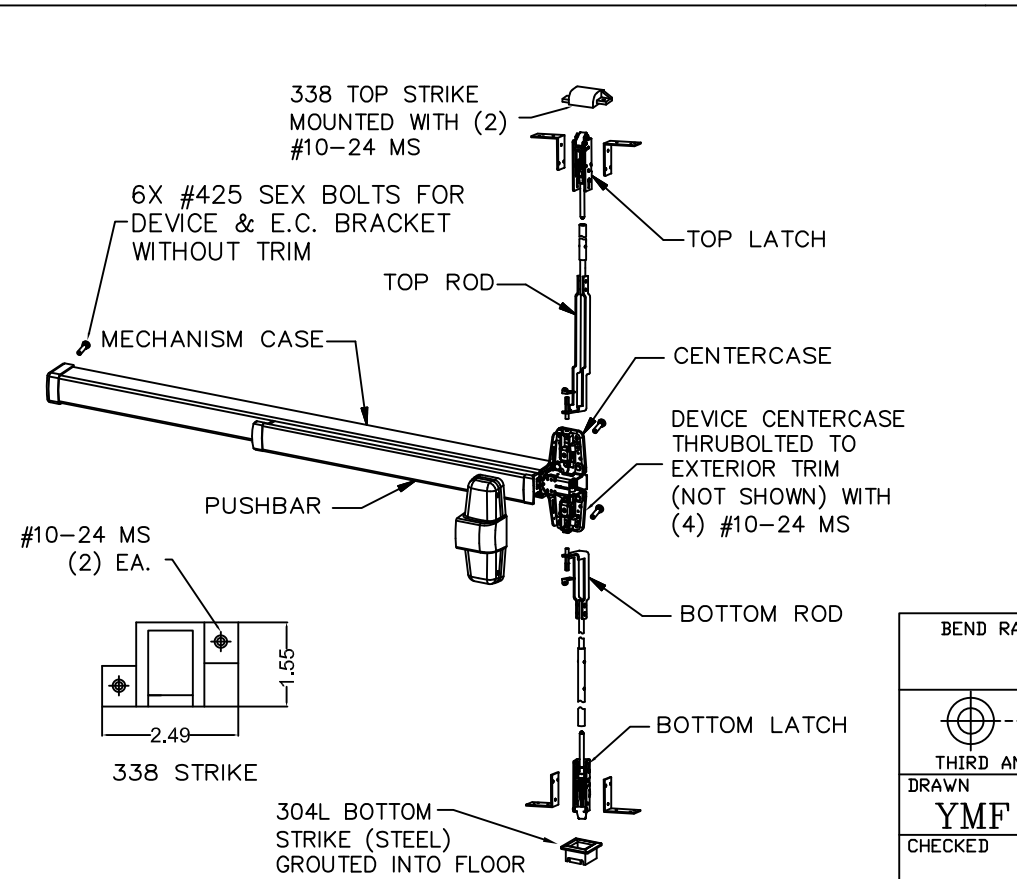


RIM EXIT DEVICE VON DUPRIN XP98, XP99, XP98-F & XP99-F  
USED IN DOOR CONFIGURATION: 5

NOTES:  
1. ELECTRICAL OPTIONS/INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.  
2. EXIT HARDWARE OPTIONS:  
FOR 98/99 & XP98/99 SERIES - OPTIONS E, RX, LX, SS, EL, QEL, CX, F, ALK, CD, PN  
TRIM: ALL APPLICABLE TRIMS AVAILABLE.  
FOR 88-F SERIES - OPTION E; TRIM: ALL APPLICABLE TRIMS AVAILABLE. PN MODEL OFFERED.

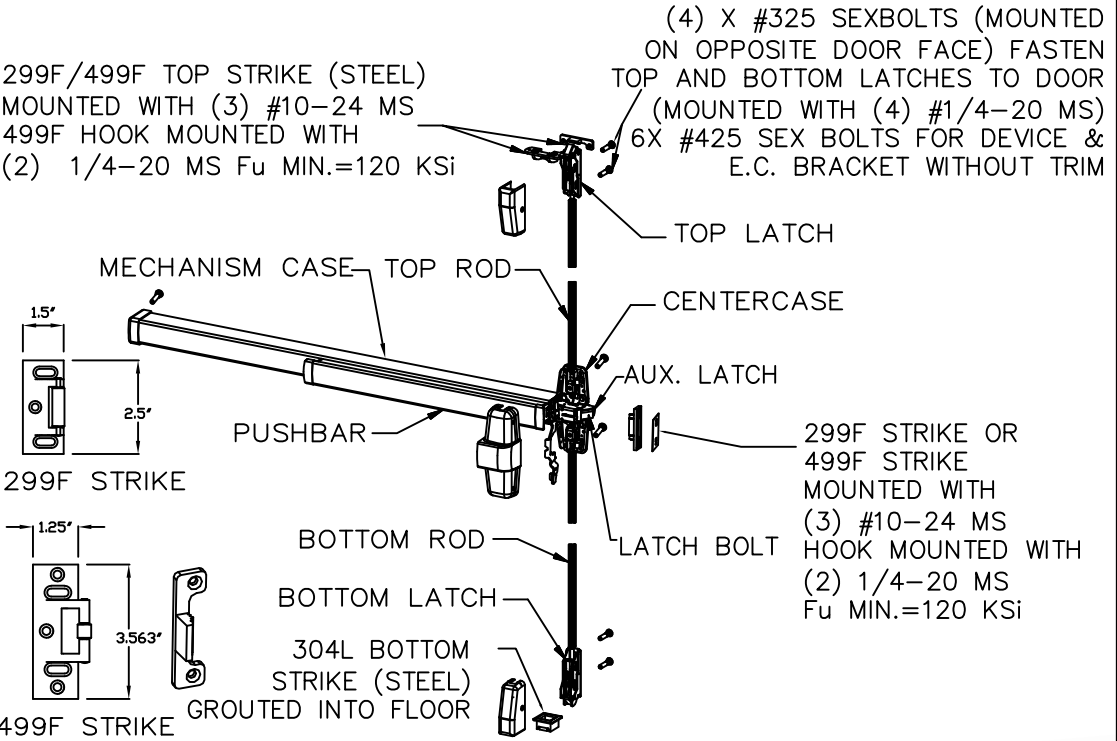


SURFACE VERTICAL ROD EXIT DEVICE VON DUPRIN 9827, 9927, 9827-F & 9927-F  
USED IN DOOR CONFIGURATION: 7



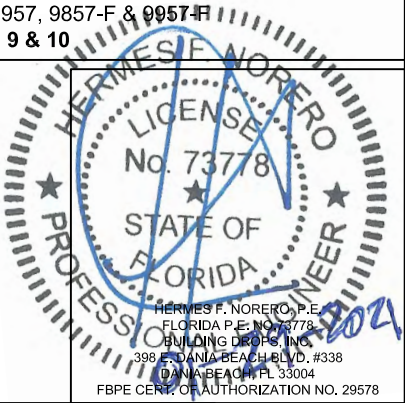
VON DUPRIN 98/9947-F, HH98/9947 CONCEALED VERTICAL ROD EXIT  
DEVICE USED IN CONFIGURATION: 8

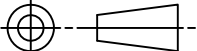
| R E V I S I O N S |                 |                |          |          |
|-------------------|-----------------|----------------|----------|----------|
| LTR               | DESCRIPTION     |                | DATE     | APPROVED |
| F                 | REVISED         | DWG YMF        | 06/02/08 |          |
| G                 | REVISED         | PER_MDBCCD YMF | 02/06/09 |          |
| H                 | REVISED         | DWG YMF        | 03/18/09 |          |
| J                 | REVISED         | PER_MDBCCD YMF | 04/06/10 |          |
| K                 | REVISED         | NAME JPD       | 11/01/13 |          |
| L                 | REVISED         | DWG JPD        | 02/01/15 |          |
| M                 | REVISED         | DWG JPD        | 05/05/15 |          |
| N                 | ENGINEER CHANGE | LA             | 03/10/17 |          |
| O                 | ADDRESS UPDATE  | SM             | 02/27/20 |          |
| P                 | 2020 FBC UPDATE | NUS            | 07/07/20 |          |

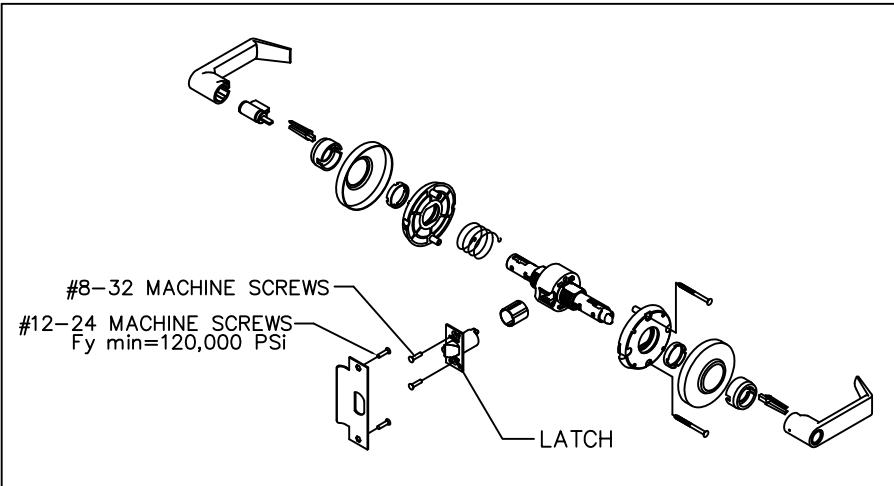


THREE-POINT EXIT DEVICE VON DUPRIN 9857, 9957, 9857-F & 9957-F  
USED IN DOOR CONFIGURATIONS: 9 & 10

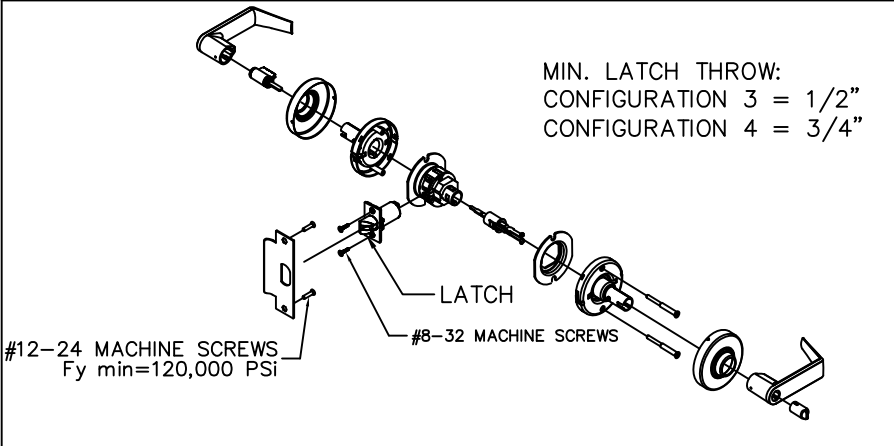
**PRODUCT REVISED**  
as complying with the **Florida Building Code**  
**NOA-No.** 20-1005.20  
**Expiration Date** 05/05/2023  
**By** Ishag I. Chande  
**Miami-Dade Product Control**



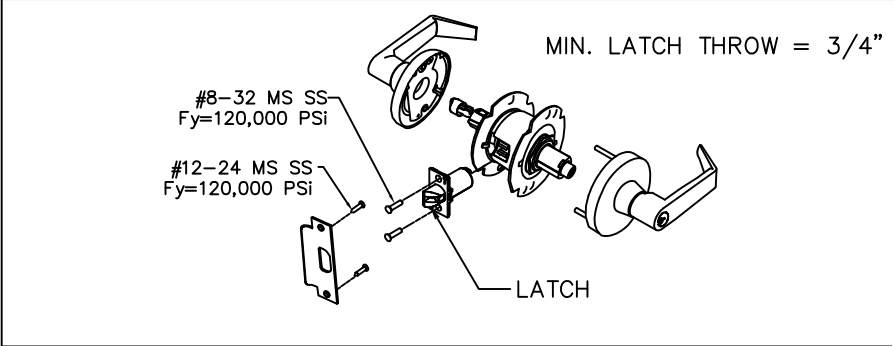
|  |  |  |  |                                       |       |                    |
|--|--|--|--|---------------------------------------|-------|--------------------|
| BEND RADIUS  |  | <div>SCHLAGE LOCK COMPANY, LLC<br/>11819 N. PENNSYLVANIA STREET<br/>CARMEL, IN 46032</div> <div>MANUFACTURING FACILITY:<br/>STEELCRAFT<br/>9017 BLUE ASH ROAD<br/>CINCINNATI, OH 45242</div> |  |                                       |       |                    |
| <div></div> |  |  |  |                                       |       |                    |
| THIRD ANGLE PROJECTION   |  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES.   |  |                                       |       |                    |
| DRAWN<br>YMF   |  | DATE<br>05/20/07   |  | EXIT HARDWARE FOR FLUSH DOUBLE DOORS. |       |                    |
| CHECKED  |  | CDATE  |  |                                       |       |                    |
| APPROVED   |  | ADATE  |  | SIZE                                  | FLAT  | DWG NO.<br>IRF D07 |
| ENG. APPVL<br>JPD  |  | EDATE<br>10/12/07  |  | SCALE:                                | NTS   | AUTOCAD            |
|  |  |  |  |                                       | SHEET | 10 OF 17           |



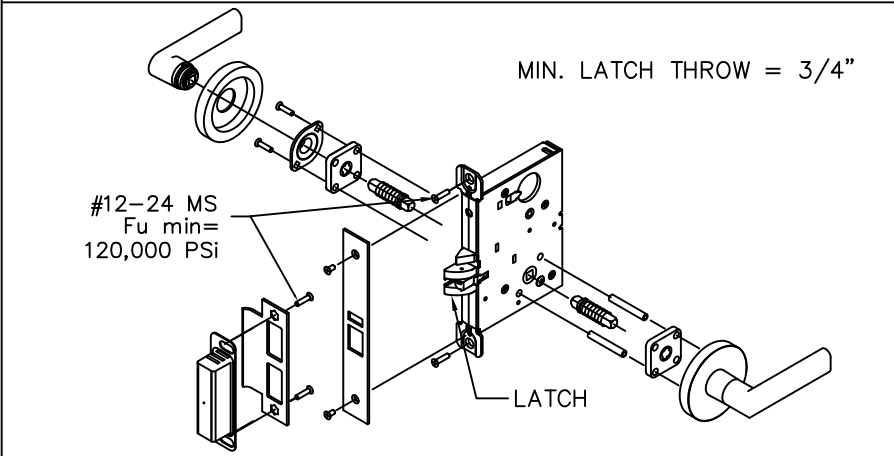
SCHLAGE AL SERIES  
CYLINDRICAL LEVER LOCKSET WITH 1/2" THROW LATCH  
USED IN CONFIGURATION: 2



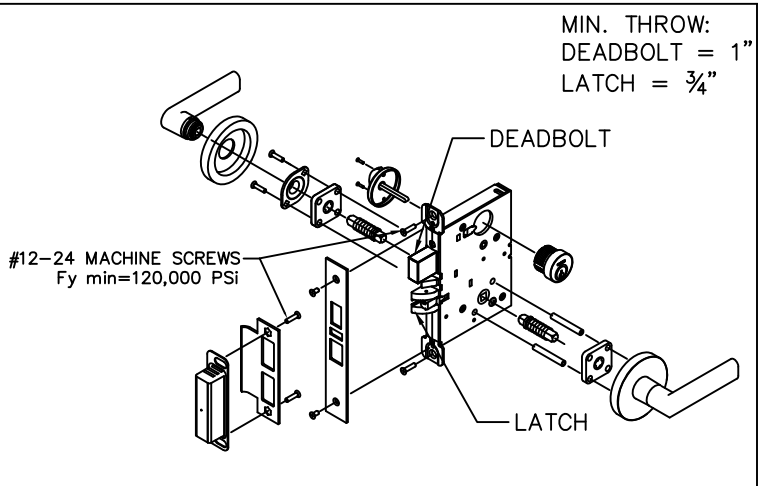
SCHLAGE D/ND-SERIES CYLINDRICAL LEVER LOCKSET.  
USED IN CONFIGURATIONS: 3 & 4



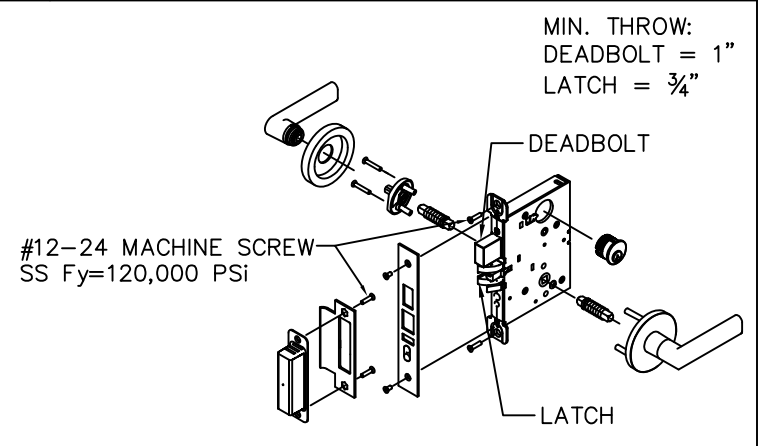
FALCON, T-SERIES CYLINDRICAL LEVER LOCKSET  
USED IN CONFIGURATION: 4



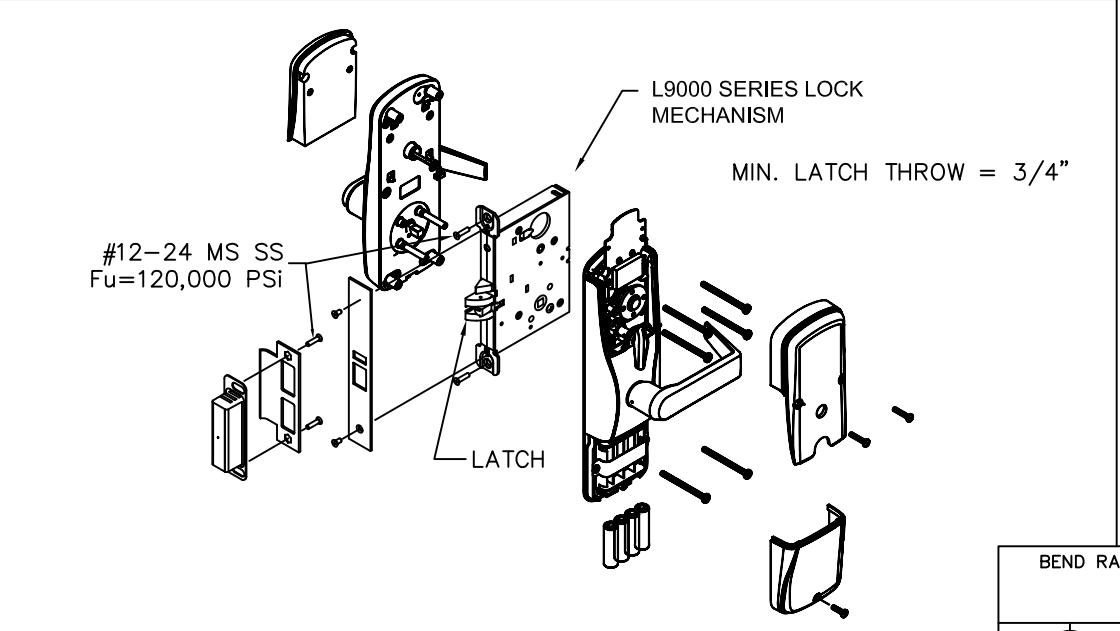
SCHLAGE L/LV 9000 SERIES MORTISE LOCK WITHOUT DEADBOLT  
USED IN CONFIGURATION: 1A



SCHLAGE L/LV 9400 SERIES MORTISE LOCKSET  
W/ DEADBOLT. USED IN CONFIGURATION: 1



FALCON MA-SERIES MORTISE LOCKSET W/ DEADBOLT  
USED IN CONFIGURATION: 1



SCHLAGE AD/CO MS SERIES MORTISE LOCK WITHOUT DEADBOLT  
USED IN CONFIGURATION: 1A

NOTES:  
1. ELECTRICAL FUNCTIONS/INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.

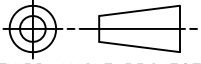
REVISIONS

| LTR | DESCRIPTION |            |     | DATE     | APPROVED |
|-----|-------------|------------|-----|----------|----------|
| A   | APPROVAL    | DWG        | YMF | 05/20/07 |          |
| D   | REVISED     | DWG        | YMF | 01/23/08 |          |
| E   | REVISED     | DWG        | YMF | 04/09/08 |          |
| F   | REVISED     | DWG        | YMF | 06/02/08 |          |
| G   | REVISED     | PER_MDBCCO | YMF | 02/06/09 |          |
| H   | REVISED     | DWG        | YMF | 03/18/09 |          |
| J   | REVISED     | PER_MDBCCO | YMF | 04/06/10 |          |
| K   | REVISED     | NAME       | JPD | 11/01/13 |          |
| L   | REVISED     | DWG        | JPD | 02/01/15 |          |
| M   | REVISED     | DWG        | JPD | 05/05/15 |          |
| N   | ENGINEER    | CHANGE     | LA  | 03/10/17 |          |
| O   | ADDRESS     | UPDATE     | SM  | 02/27/20 |          |
| P   | 2020        | FBC UPDATE | NUS | 07/07/20 |          |

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 20-1005.20  
**Expiration Date** 05/05/2023  
**By** *Ishag I. Chande*  
**Miami-Dade Product Control**



BEND RADIUS



THIRD ANGLE PROJECTION

|            |          |
|------------|----------|
| DRAWN      | DATE     |
| YMF        | 05/20/07 |
| CHECKED    |          |
| APPROVED   |          |
| ENG. APPVL | 10/12/07 |
| JPD        |          |

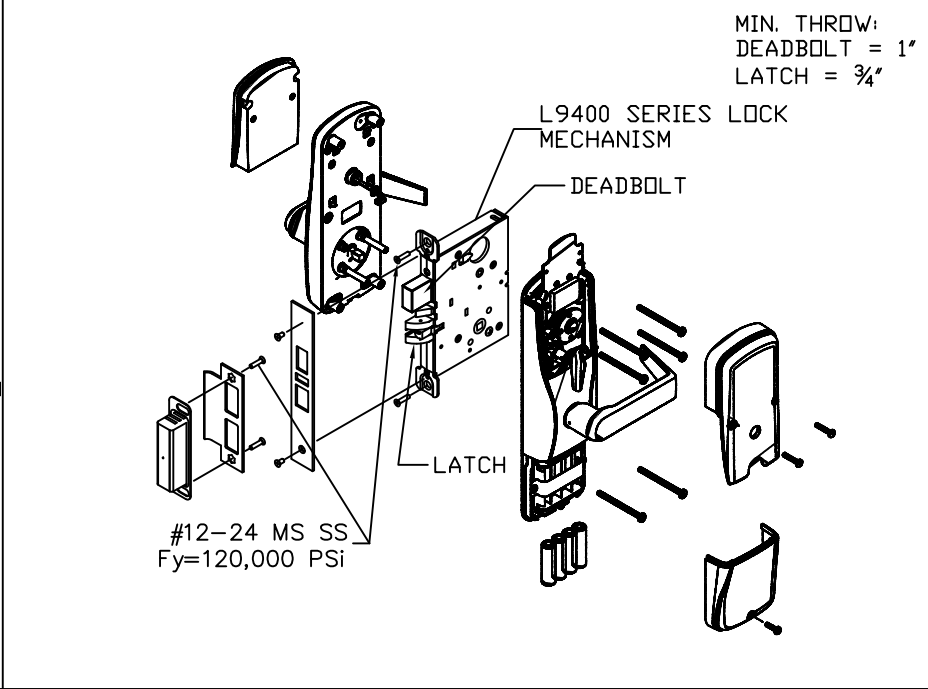
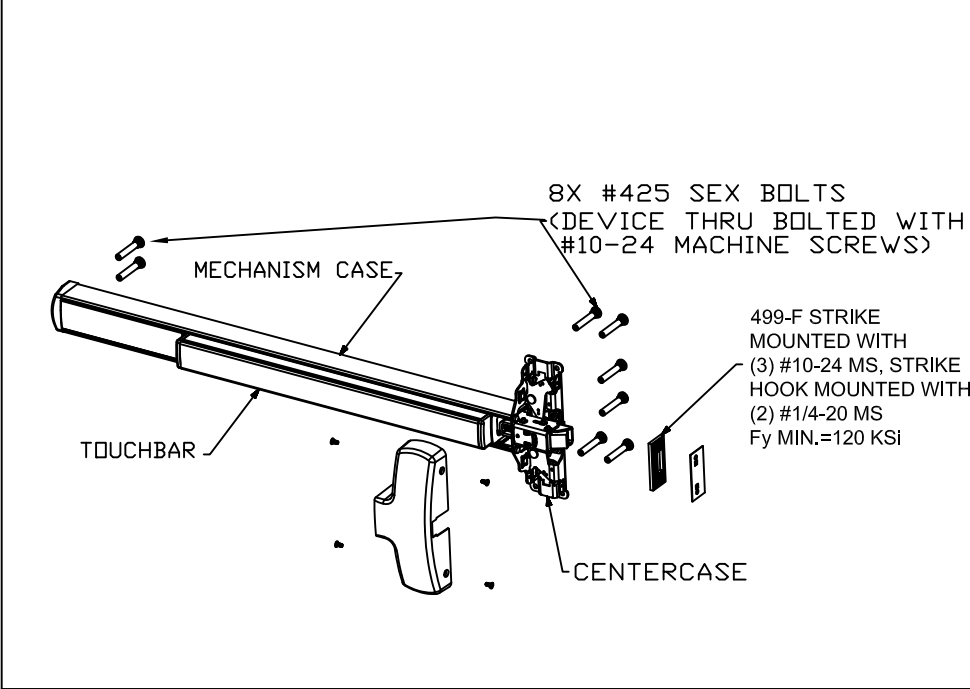
SCHLAGE LOCK COMPANY, LLC  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032

MANUFACTURING FACILITY:  
STEELCRAFT  
9017 BLUE ASH ROAD  
CINCINNATI, OH 45242

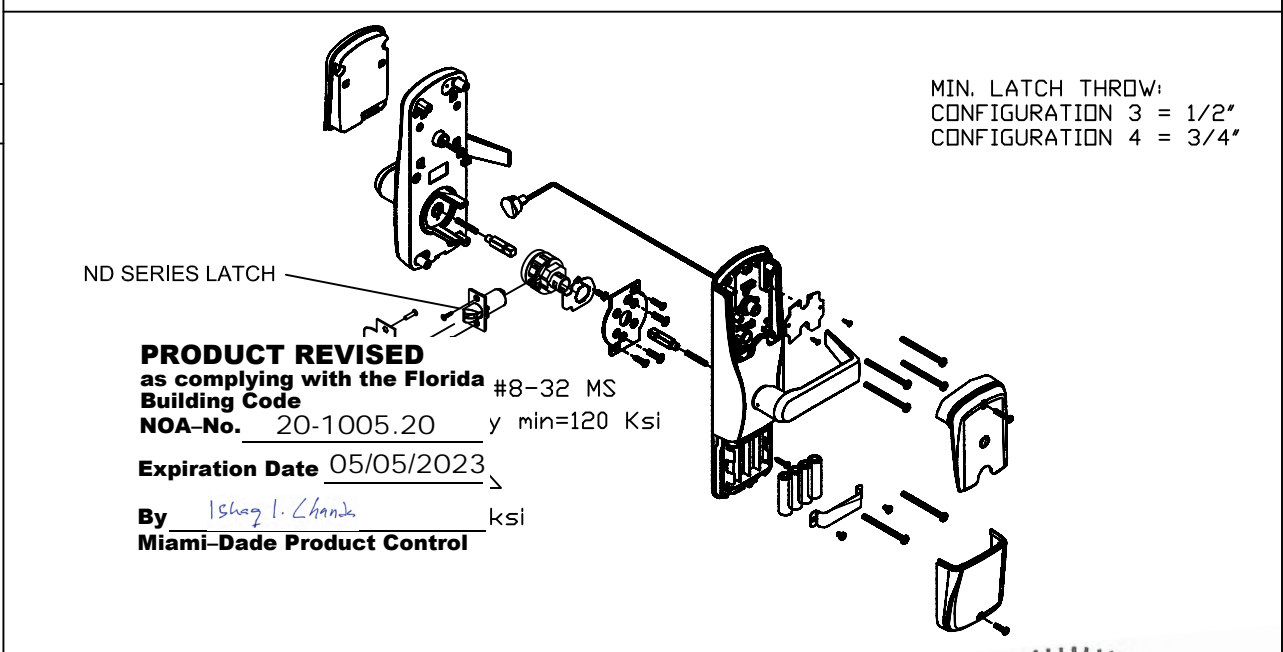
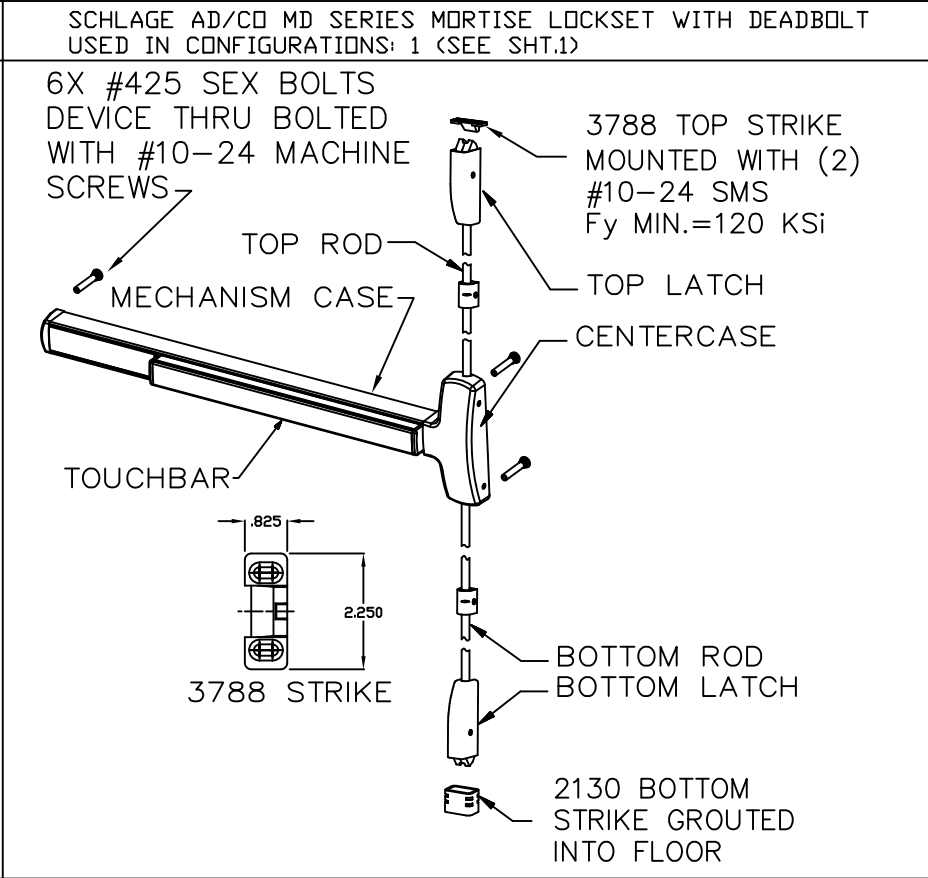
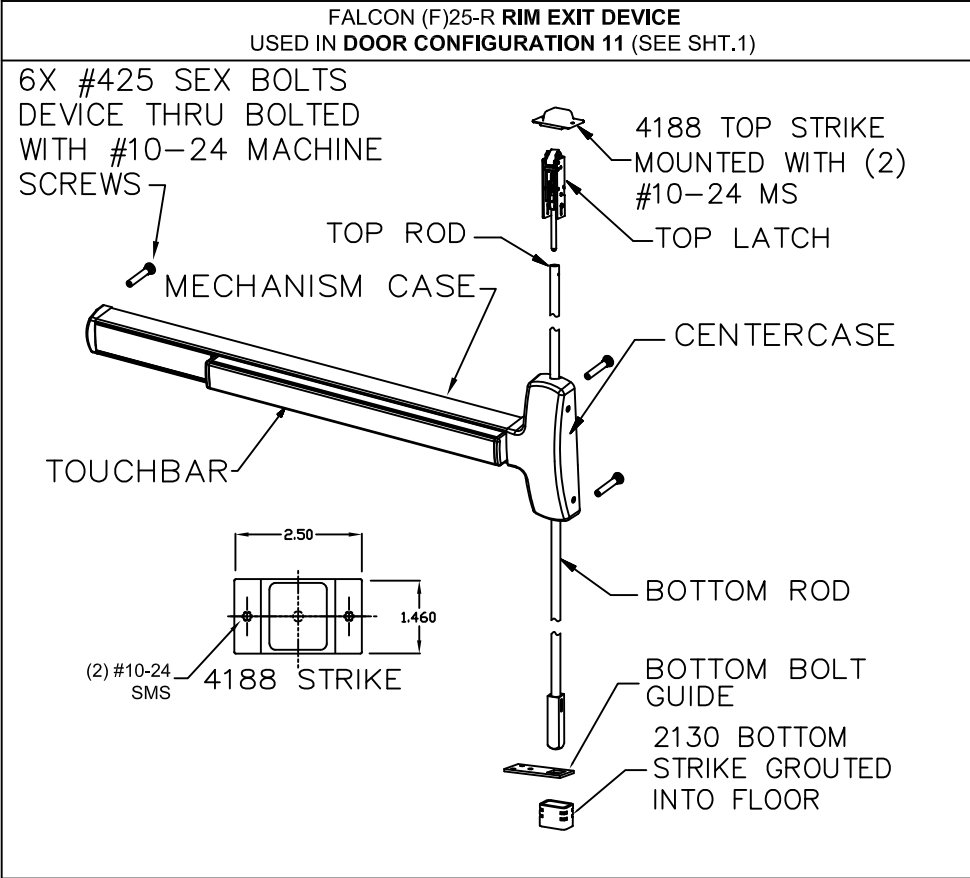
TITLE: STEELCRAFT H SERIES DOUBLE FLUSH COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

HARDWARE FOR FLUSH DOUBLE DOORS.

|        |      |         |        |       |          |
|--------|------|---------|--------|-------|----------|
| SIZE   | FLAT | DWG NO. | IRFD07 | REV   | P        |
| SCALE: | NTS  | AUTOCAD |        | SHEET | 11 OF 17 |



| R E V I S I O N S |             |            |      |          |
|-------------------|-------------|------------|------|----------|
| LTR               | DESCRIPTION |            | DATE | APPROVED |
| A                 | APPROVAL    | DWG        | YMF  | 05/20/07 |
| D                 | REVISED     | DWG        | YMF  | 01/23/08 |
| E                 | REVISED     | DWG        | YMF  | 04/09/08 |
| F                 | REVISED     | DWG        | YMF  | 06/02/08 |
| G                 | REVISED     | PER_MDBCCD | YMF  | 02/06/09 |
| H                 | REVISED     | DWG        | YMF  | 03/18/09 |
| J                 | REVISED     | PER_MDBCCD | YMF  | 04/06/10 |
| K                 | REVISED     | NAME       | JPD  | 11/01/13 |
| L                 | REVISED     | DWG        | JPD  | 02/01/15 |
| M                 | REVISED     | DWG        | JPD  | 05/05/15 |
| N                 | ENGINEER    | CHANGE     | LA   | 03/10/17 |
| O                 | ADDRESS     | UPDATE     | SM   | 02/27/20 |
| P                 | 2020 FBC    | UPDATE     | NUS  | 07/07/20 |



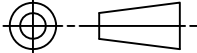
|  |  |
|--|--|
| SCHLAGE AD/CD CY SERIES CYLINDRICAL LOCKSET<br>USED IN CONFIGURATIONS: 3&4 (SEE SHT.1) |  |
|  |  |

FALCON F-25-C CONCEALED VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 8 (SEE SHT.1)

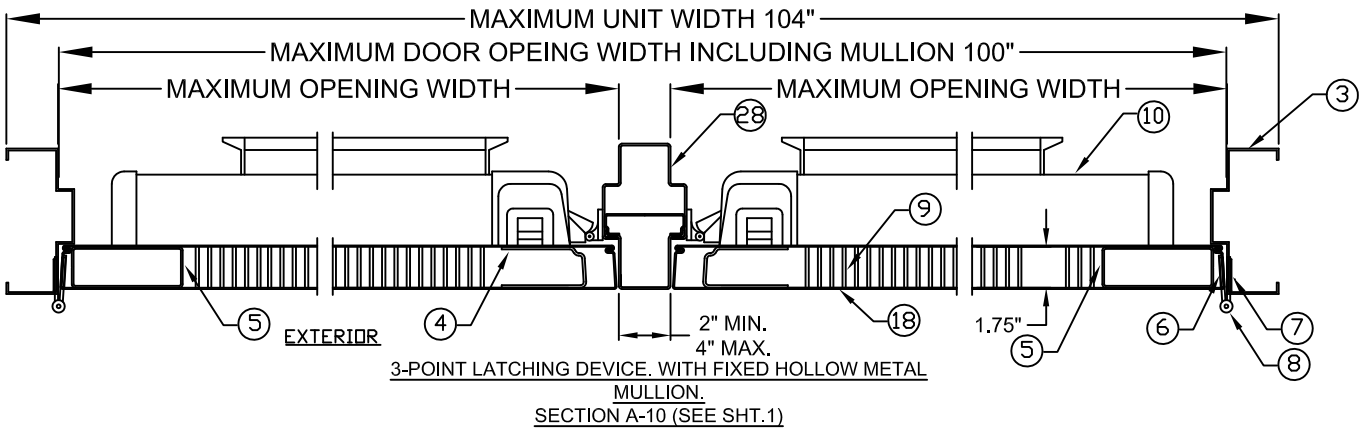
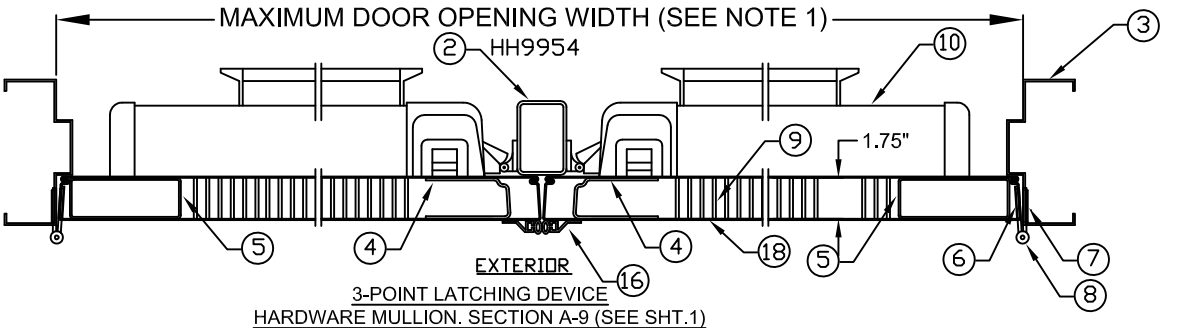
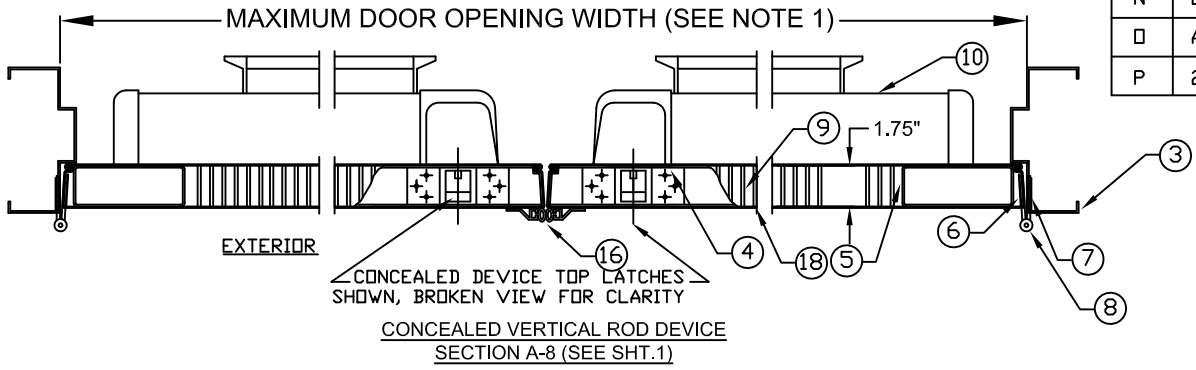
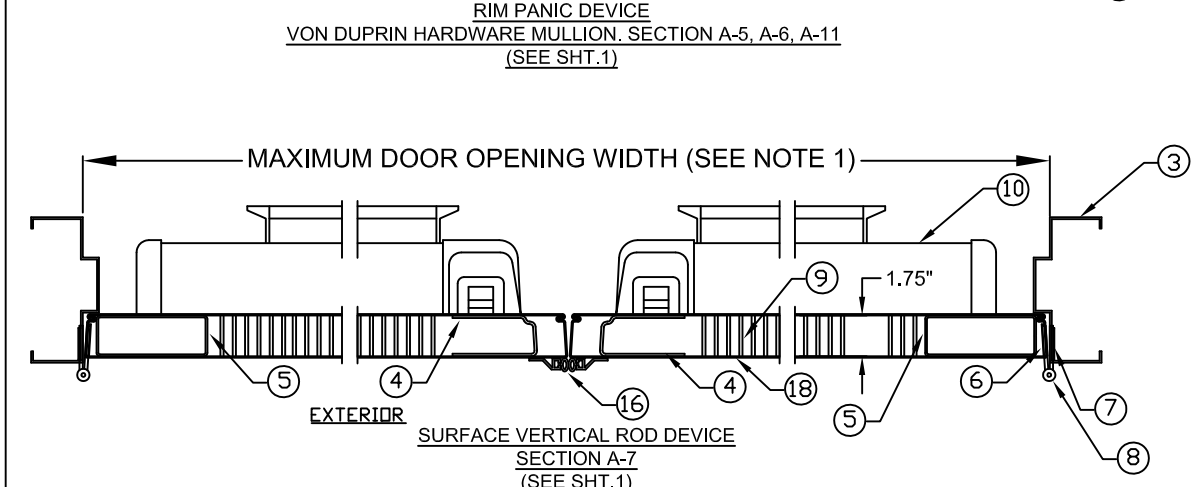
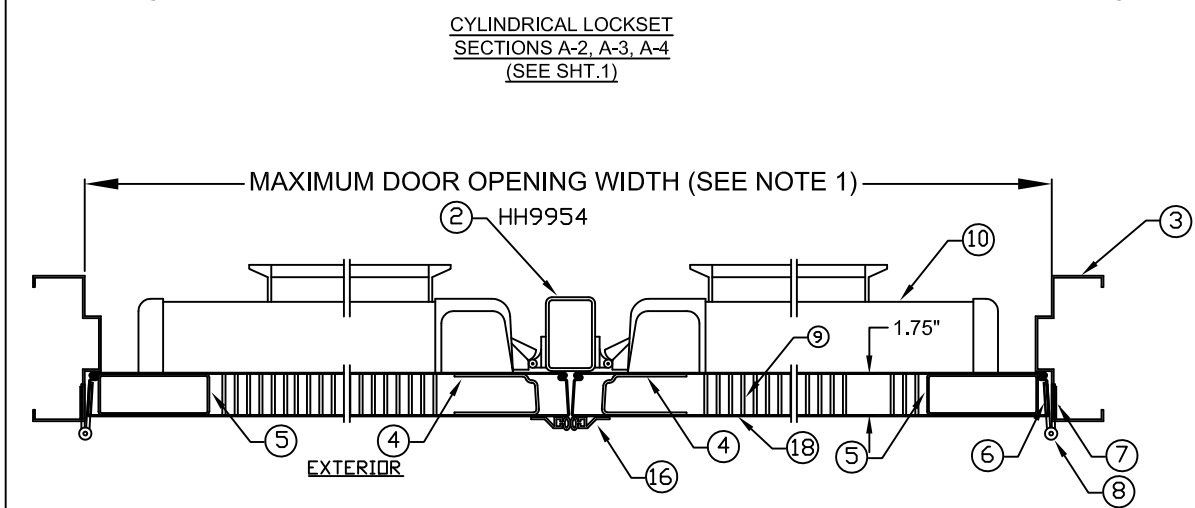
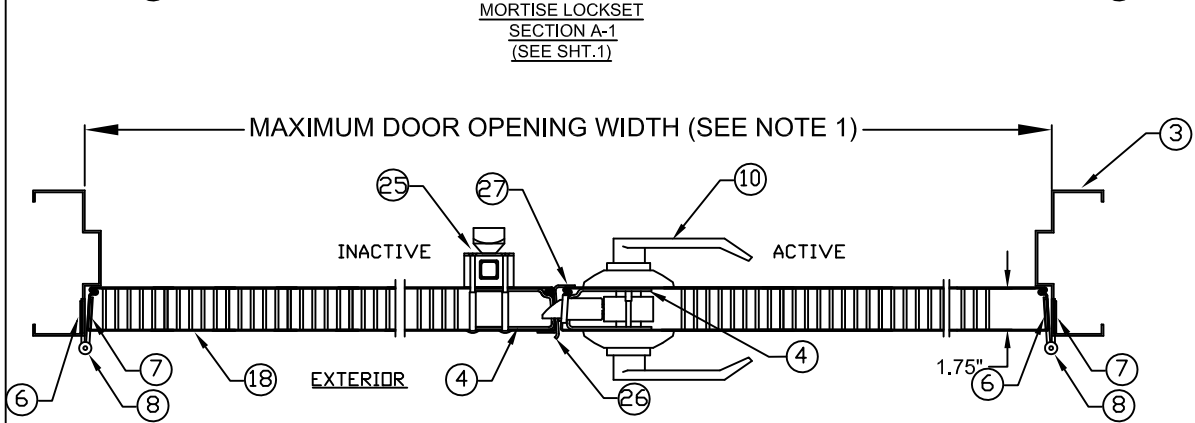
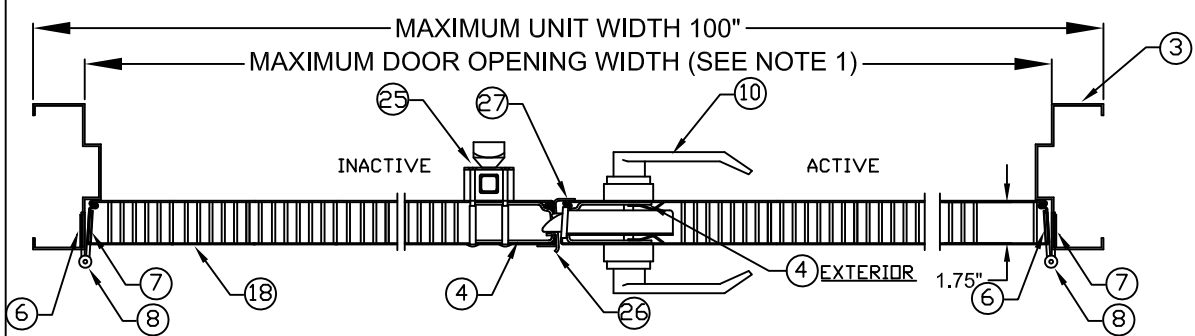
NOTES:  
ELECTRICAL FUNCTIONS/INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.

EXIT HARDWARE OPTIONS:  
F-25-C & (F)25-V (F) 25-R SERIES - OPTIONS AE, DM, LM, LK, KOR, MEL, EA, FSA, FSE, CX, RX, LX, LD  
TRIMS: ALL APPLICABLE TRIMS AVAILABLE

FALCON (F)25-V SURFACE VERTICAL ROD EXIT DEVICE  
USED IN DOOR CONFIGURATION 7 (SEE SHT.1)

|   |                   |   |      |                   |   |  |
|---|-------------------|---|------|-------------------|---|--|
| BEND RADIUS   |                   | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                               |      |                   | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |  |
|  |                   |   |      |                   |   |  |
| THIRD ANGLE PROJECTION  |                   | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |      |                   |   |  |
| DRAWN<br>YMF  | DATE<br>05/20/07  | HARDWARE FOR FLUSH DOUBLE DOORS.  |      |                   |   |  |
| CHECKED   | CDATE             |   |      |                   |   |  |
| APPROVED  | ADATE             | SIZE  | FLAT | DWG NO.<br>IRFD07 | REV<br>P  |  |
| ENG. APPVL<br>JPD   | EDATE<br>10/12/07 | SCALE:  | NTS  | AUTOCAD           | SHEET 12 OF 17  |  |





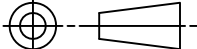
| R E V I S I O N S |             |                |          |          |
|-------------------|-------------|----------------|----------|----------|
| LTR               | DESCRIPTION |                | DATE     | APPROVED |
| A                 | APPROVAL    | DWG YMF        | 05/20/07 |          |
| G                 | REVISED     | PER_MDBCCD YMF | 02/06/09 |          |
| H                 | REVISED     | DWG YMF        | 03/18/09 |          |
| J                 | REVISED     | PER_MDBCCD YMF | 04/06/10 |          |
| K                 | REVISED     | NAME JPD       | 11/01/13 |          |
| L                 | REVISED     | DWG JPD        | 02/01/15 |          |
| M                 | REVISED     | DWG JPD        | 05/05/15 |          |
| N                 | ENGINEER    | CHANGE LA      | 02/23/17 |          |
| O                 | ADDRESS     | UPDATE SM      | 02/27/20 |          |
| P                 | 2020 FBC    | UPDATE NUS     | 07/07/20 |          |

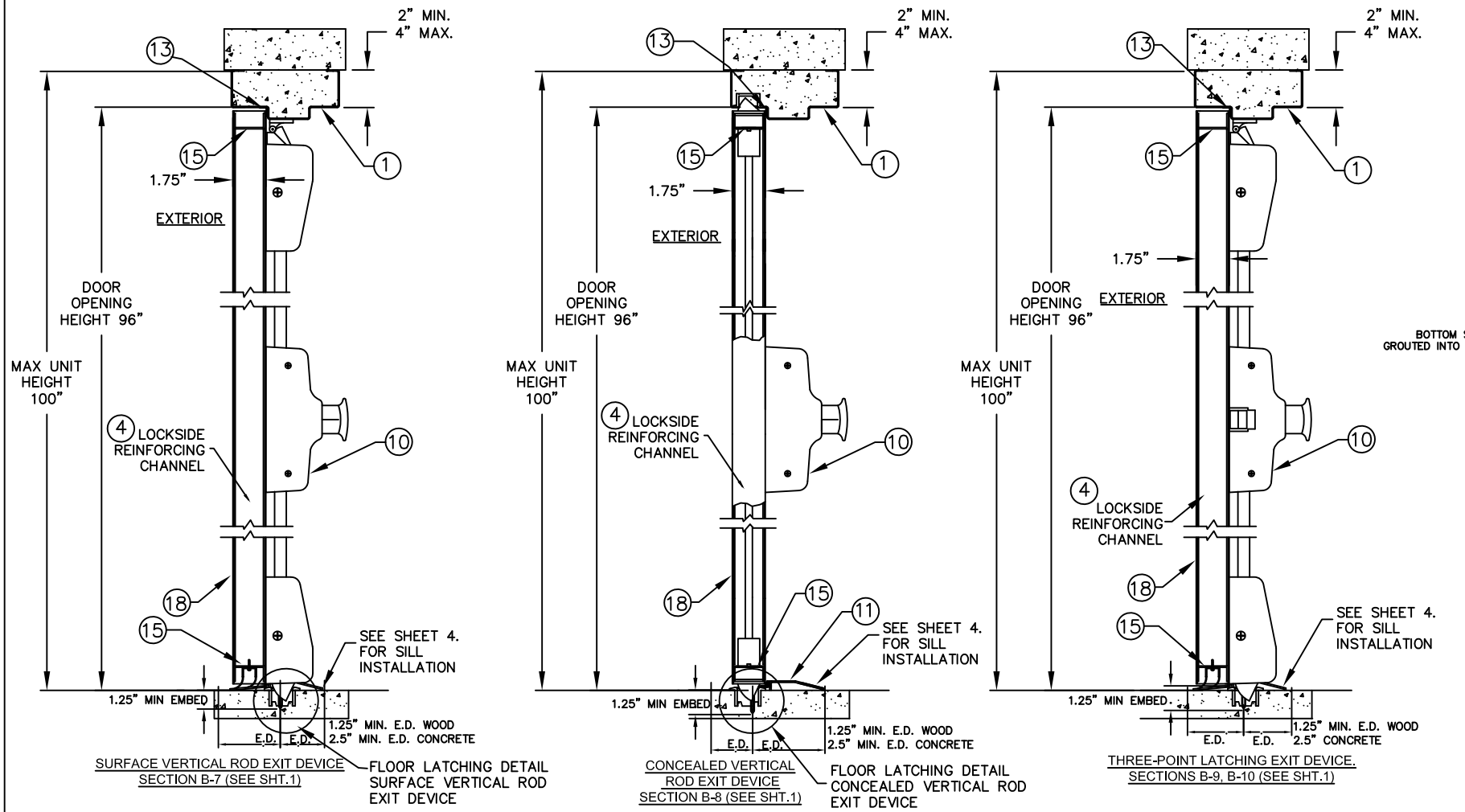
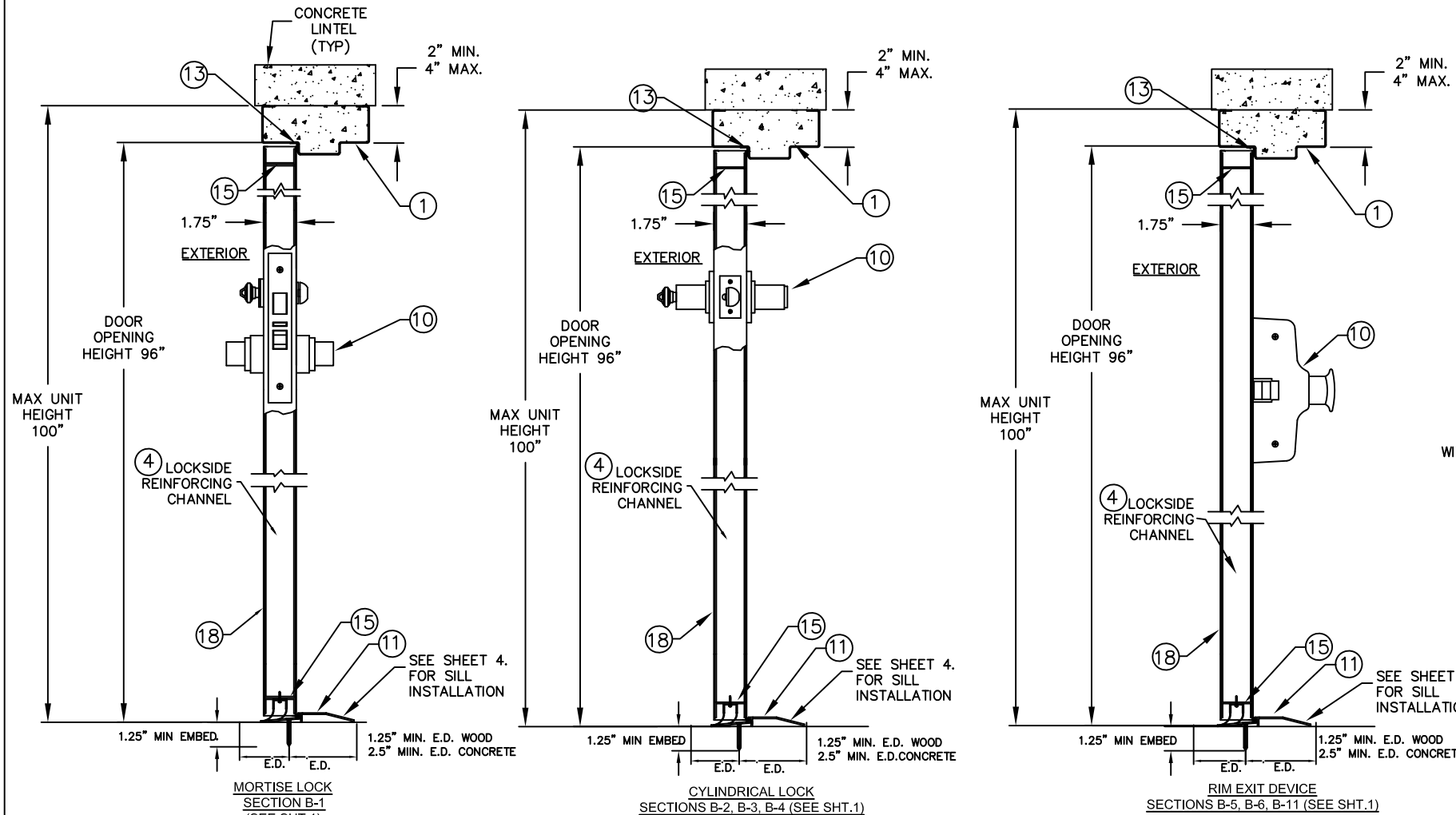
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1005.20  
Expiration Date 05/05/2023  
By *Ishag I. Chank*  
Miami-Dade Product Control



NOTES:

1. FOR MAXIMUM OPENING SIZE SEE TABLE 1 ON SHEET 2 & FOR MAXIMUM UNIT WIDTH SEE SHEET 1.
2. SEE SHEET 4 & 15 FOR ANCHOR INSTALLATION AND SHEETS 3, 4, 5, 6 & 15 FOR SILL INSTALLATION DETAILS AND SHEETS 15 & 16 FOR MULLION INSTALLATION.

|   |                  |   |      |         |   |                |          |
|---|------------------|---|------|---------|---|----------------|----------|
| BEND RADIUS   |                  | <div>SCHLAGE LOCK COMPANY, LLC<br/>11819 N. PENNSYLVANIA STREET<br/>CARMEL, IN 46032</div>                  |      |         | <div>MANUFACTURING FACILITY:<br/>STEELCRAFT<br/>9017 BLUE ASH ROAD<br/>CINCINNATI, OH 45242</div> |                |          |
|  |                  |   |      |         |   |                |          |
| THIRD ANGLE PROJECTION  |                  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |      |         |   |                |          |
| DRAWN<br>YMF  | DATE<br>05/20/07 | HORIZONTAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.   |      |         |   |                |          |
| CHECKED   |                  |   |      |         |   |                |          |
| APPROVED  |                  | SIZE  | FLAT | DWG NO. | IRF D07   |                | REV<br>P |
| ENG. APPVL  |                  | SCALE: NTS  |      | AUTOCAD |   | SHEET 13 OF 17 |          |



| REVISIONS |                    |      |          |  |
|-----------|--------------------|------|----------|--|
| LTR       | DESCRIPTION        | DATE | APPROVED |  |
| A         | APPROVAL DWG       | YMF  | 05/20/07 |  |
| G         | REVISED PER_MDBCCO | YMF  | 02/06/09 |  |
| H         | REVISED DWG        | YMF  | 03/18/09 |  |
| J         | REVISED PER_MDBCCO | YMF  | 04/06/10 |  |
| K         | REVISED NAME       | JPD  | 11/01/13 |  |
| L         | REVISED DWG        | JPD  | 02/01/15 |  |
| M         | REVISED DWG        | JPD  | 05/05/15 |  |
| N         | ENGINEER CHANGE    | LA   | 03/10/17 |  |
| O         | ADDRESS UPDATE     | SM   | 02/27/20 |  |
| P         | 2020 FBC UPDATE    | NUS  | 07/07/20 |  |

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Miami-Dade Product Control

ASTRAGAL ATTACHED TO THE DOOR EDGE WITH #8X3/4 SCREWS 12.53" O.C. MAX.

ROUGH CUTOUT IN HEAD 1" SQUARE

STRIKE SIDE 12 GA. REINFORCING CHANNEL WITH ASA CUTOUT

INACTIVE DOOR LEAF

INACTIVE LEAF ASA STRIKE PREP AND ASSEMBLY DETAIL

Z-ASTRAGAL WITH ASA STRIKE PREP.

1.25" MIN EMBED

E.D. E.D.

1.25" MIN. E.D. WOOD 2.5" MIN. E.D. CONCRETE

INACTIVE LEAF WITH IVES 361 SURFACE BOLTS IN TOP AND BOTTOM SECTIONS C-1, C-2, C-3, C-4 (SEE SHT. 1)

NOTES:

- FOR MAXIMUM DOOR AND UNIT OPENING SIZES SEE ELEVATION SHEET 1 AND TABLE 1 ON SHEET 2.
- SEE SHEET 4 & 15 FOR ANCHOR INSTALLATION AND SHEETS 3, 4, 5, 6 & 15 FOR SILL INSTALLATION DETAILS AND SHEETS 15 & 16 FOR MULLION INSTALLATION.

MIN LATCH THROW: TOP=3/4" BOTTOM=1/2"

BOTTOM LATCH

THRESHOLD

BOTTOM STRIKE GROUTED INTO FLOOR

FLOOR LATCHING DETAIL SURFACE VERTICAL ROD EXIT DEVICE

BOTTOM LATCH

THRESHOLD

BOTTOM STRIKE GROUTED INTO FLOOR

FLOOR LATCHING DETAIL CONCEALED VERTICAL ROD EXIT DEVICE

| BEND RADIUS            |               |
|------------------------|---------------|
|                        |               |
| THIRD ANGLE PROJECTION |               |
| DRAWN YMF              | DATE 05/20/07 |
| CHECKED                |               |
| APPROVED               |               |
| ENG. APPVL JPD         | 10/12/07      |

SCHLAGE LOCK COMPANY, LLC  
11819 N. PENNSYLVANIA STREET  
CARMEL, IN 46032

MANUFACTURING FACILITY:  
STEELCRAFT  
9017 BLUE ASH ROAD  
CINCINNATI, OH 45242

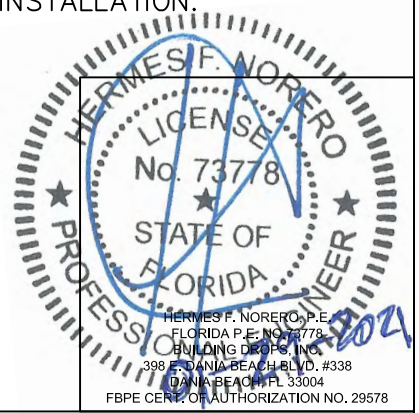
TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES

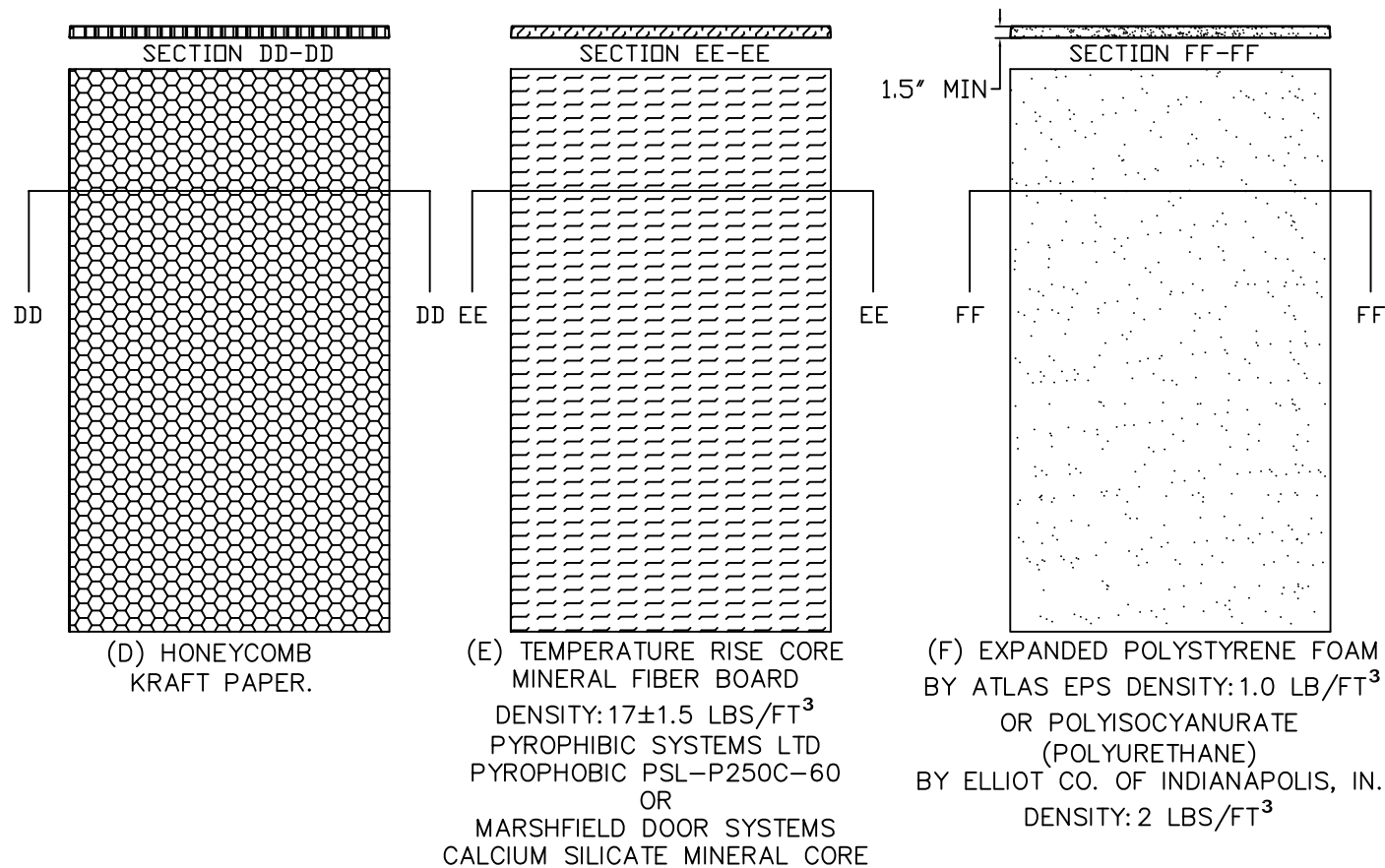
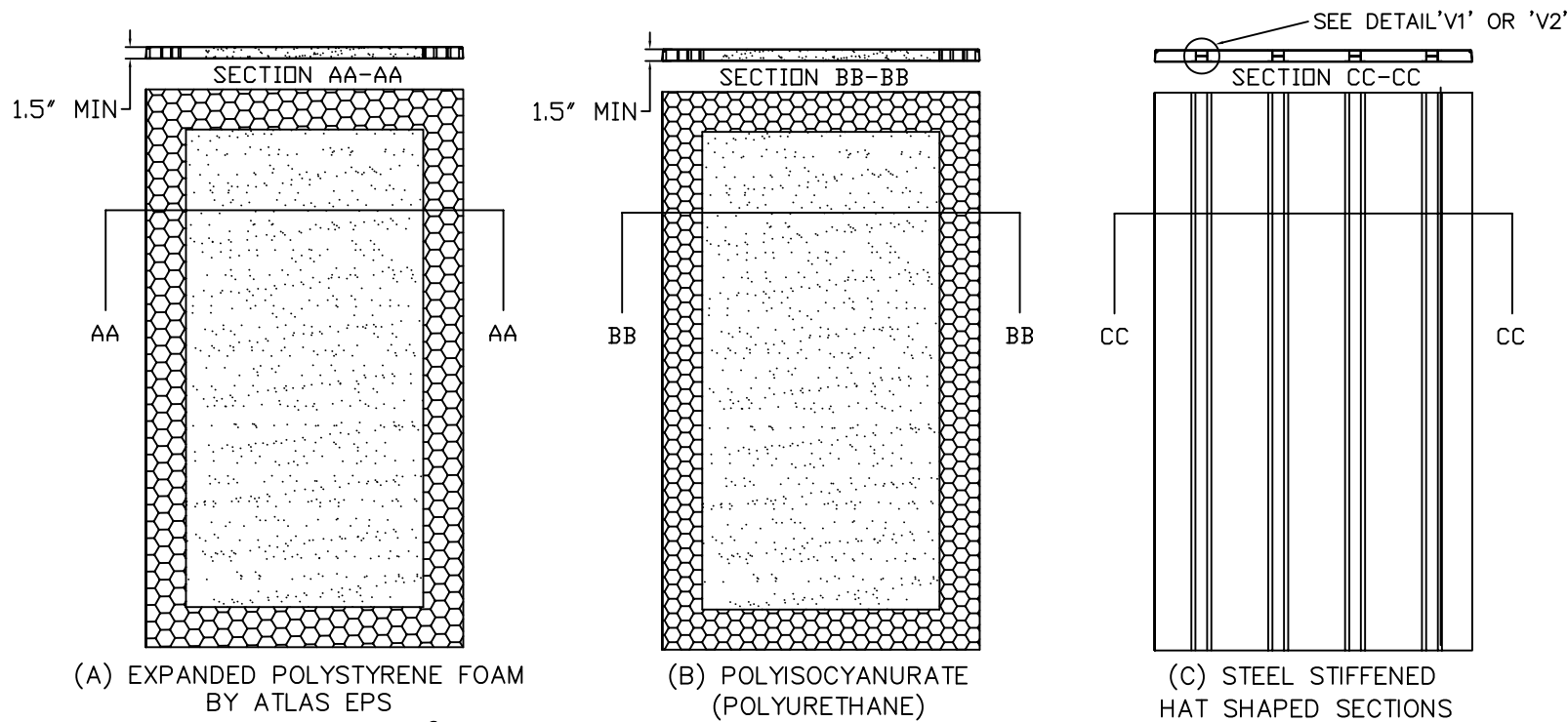
VERTICAL CROSS SECTIONS FOR FLUSH DOUBLE DOORS.

| SIZE | FLAT | DWG NO. | REV |
|------|------|---------|-----|
|      |      | IRFD07  | P   |

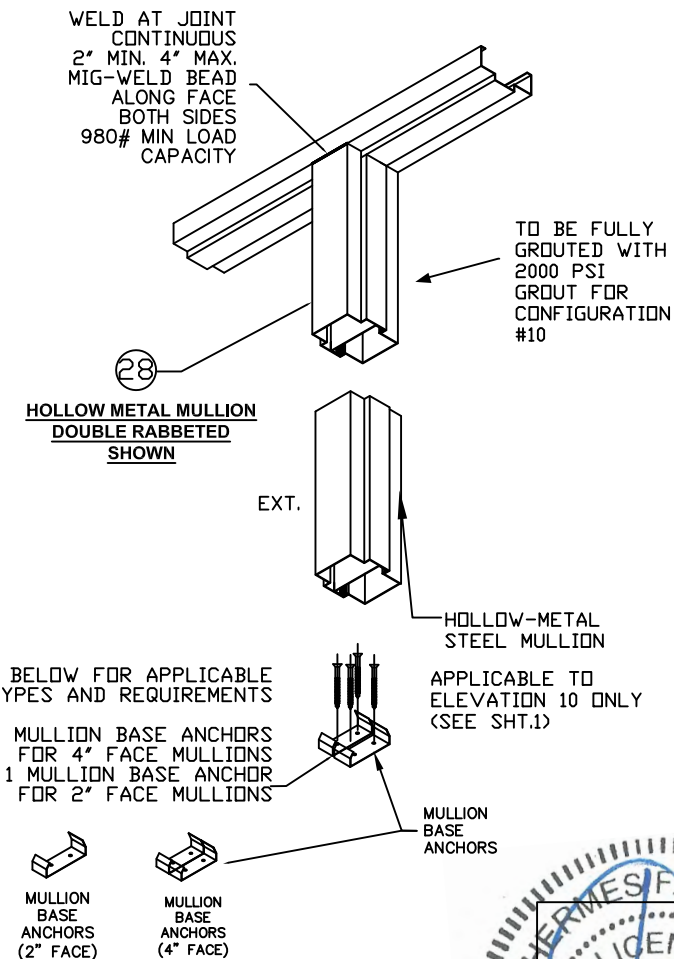
SCALE: NTS AUTOCAD

SHEET 14 OF 17



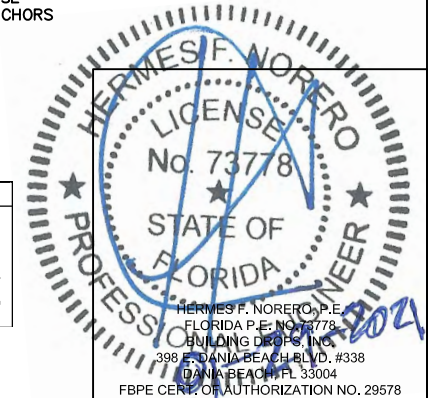


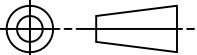
| R E V I S I O N S |                 |     |          |          |
|-------------------|-----------------|-----|----------|----------|
| LTR               | DESCRIPTION     |     | DATE     | APPROVED |
| A                 | APPROVAL DWG    | JPD | 02/03/14 |          |
| B                 | REVISED DWG     | JPD | 02/01/15 |          |
| C                 | REVISED DWG     | JPD | 05/05/15 |          |
| D                 | ENGINEER CHANGE | LA  | 03/10/17 |          |
| Q                 | ADDRESS UPDATE  | SM  | 02/27/20 |          |
| P                 | 2020 FBC UPDATE | NUS | 07/07/20 |          |



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Miami-Dade Product Control

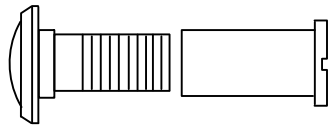
| Anchor                  | Embedment | Edge Distance | Conc. Strength | Spacing                    | Quantity   |
|-------------------------|-----------|---------------|----------------|----------------------------|--|
| Elco 5/16" Ultracon     | 2"        | 3.75"         | 3515 psi       | 3-3/8" Thru<br>Base Anchor | 2 per Base<br>Anchor<br>(2 for 2" Face<br>4 for 4" Face) |
| Powers 3/8" Power-Bolt  | 2"        |               | 3000 psi       |                            |  |
| Powers 3/8" Lok Bolt AS | 1-1/4"    |               |                |                            |  |
| Hilti 3/8" Kwik Bolt 3  | 1-5/8"    |               |                |                            |  |
| Dewalt 3/8" Screw-Bolt+ | 2"        |               |                |                            |  |



|  |  |  |  |   |  |
|--|--|--|--|---|--|
| BEND RADIUS  |  | <div>SCHLAGE LOCK COMPANY, LLC</div> <div>11819 N. PENNSYLVANIA STREET</div> <div>CARMEL, IN 46032</div> |  | <div>MANUFACTURING FACILITY:</div> <div>STEELCRAFT</div> <div>9017 BLUE ASH ROAD</div> <div>CINCINNATI, OH 45242</div>  |  |
| <div></div> <div>THIRD ANGLE PROJECTION</div> |  |  |  |   |  |
| <div>DRAWN</div> <div>JPD</div>  |  | DATE   |  | <div>TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES</div> <div>DOOR CORE OPTIONS AND</div> <div>HOLLOW METAL AND HARDWARE MULLION INSTALLATION</div> |  |
| <div>CHECKED</div>   |  | <div>02/03/14</div>  |  |   |  |
| <div>APPROVED</div>  |  | SIZE   |  | FLAT  |  |
| <div>ENG. APPVL</div>  |  | DWG NO.  |  | IRFD07  |  |
|  |  | SCALE:   |  | NTS   |  |
|  |  |  |  | AUTOCAD   |  |
|  |  |  |  | SHEET 15 of 17  |  |

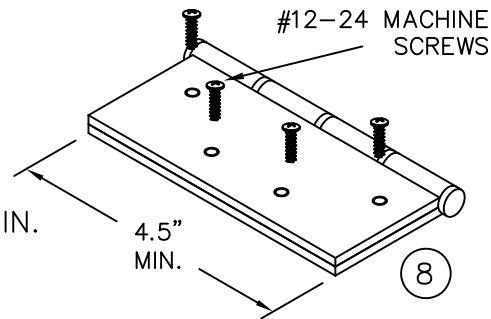
NOTES:  
1. CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS





29 IVES 698/U698 DOOR VIEWER  
APPLICATION LIMITED TO +/- 75  
PSF DESIGN PRESSURE OR LESS

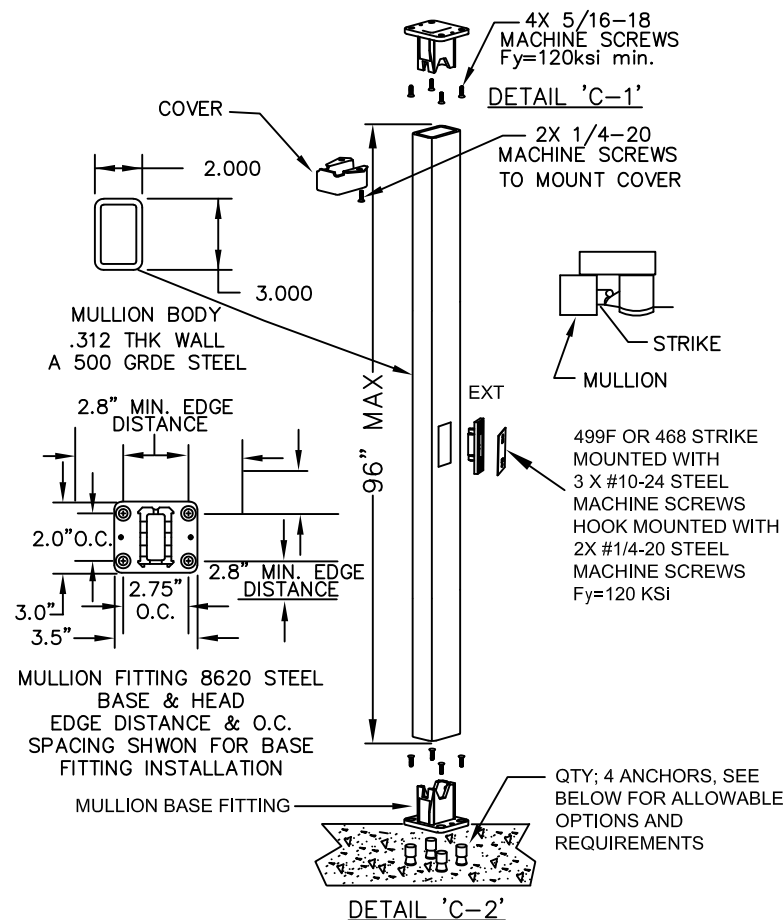
STEEL BUTT HINGE  
IVES 5BB1/3CB1  
STANLEY FBB179/1900  
HAGER BB1279  
4.5" X 4.5" STD. WT. MIN.  
.134" MIN. THICKNESS  
Fy MIN. = 36ksi



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VON DUPRIN MULLION  
2

HH9954 MULLION

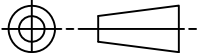


MULLION EXPANSION ANCHOR NOTES:  
ANCHORS SHALL BE INSTALLED IN 3000 PSI CONCRETE (SEE ABOVE FOR SPACING  
REQUIREMENTS), ALLOWABLE ANCHOR TYPES ARE:  
1/4" POWERS SMART DI+ EXPANSION ANCHORS WITH MIN 1" EMBEDMENT  
OR  
1/4" HILTI KWIK BOLT 3 EXPANSION BOLTS WITH MIN 1-1/8" EMBEDMENT

CONTINUOUS HINGE  
IVES 112HD & 224HD  
STANLEY 661HD  
SELECT SL11HD  
PEMCO FM\_HD SERIES  
HAGER 780-224HD  
ABH A240HD  
ALUMINUM 6036-T6 MIN  
.110" MIN. THICKNESS

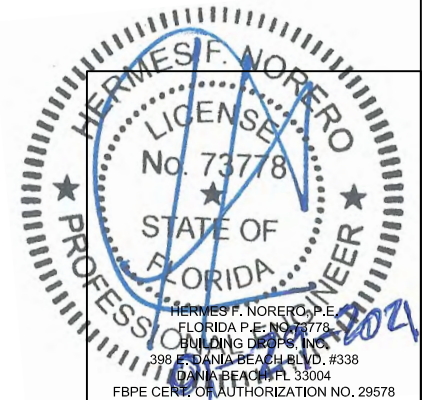
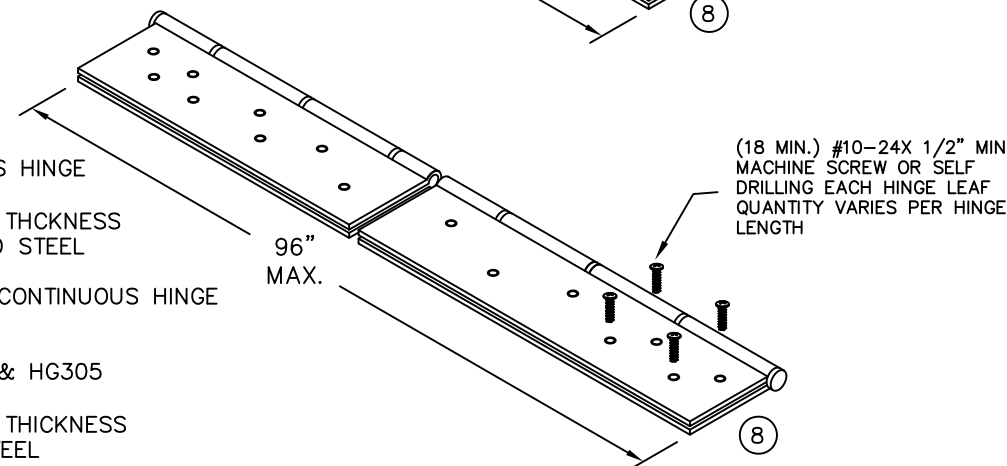
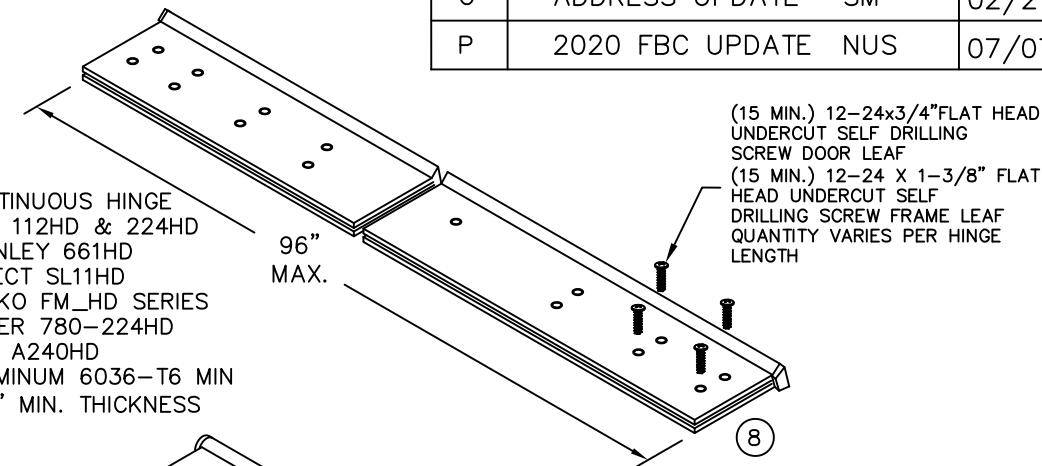
STEEL CONTINUOUS HINGE  
IVES 600  
.075 (14GA.) MIN. THICKNESS  
1012 COLD ROLLED STEEL  
Fy MIN. 45ksi  
STAINLESS STEEL CONTINUOUS HINGE  
IVES 700, 700CS  
HAGER 790-900  
MARKAR FM-300 & HG305  
ABH A500  
.075 (14GA.) MIN. THICKNESS  
304 STAINLESS STEEL  
Fy MIN. 31ksi

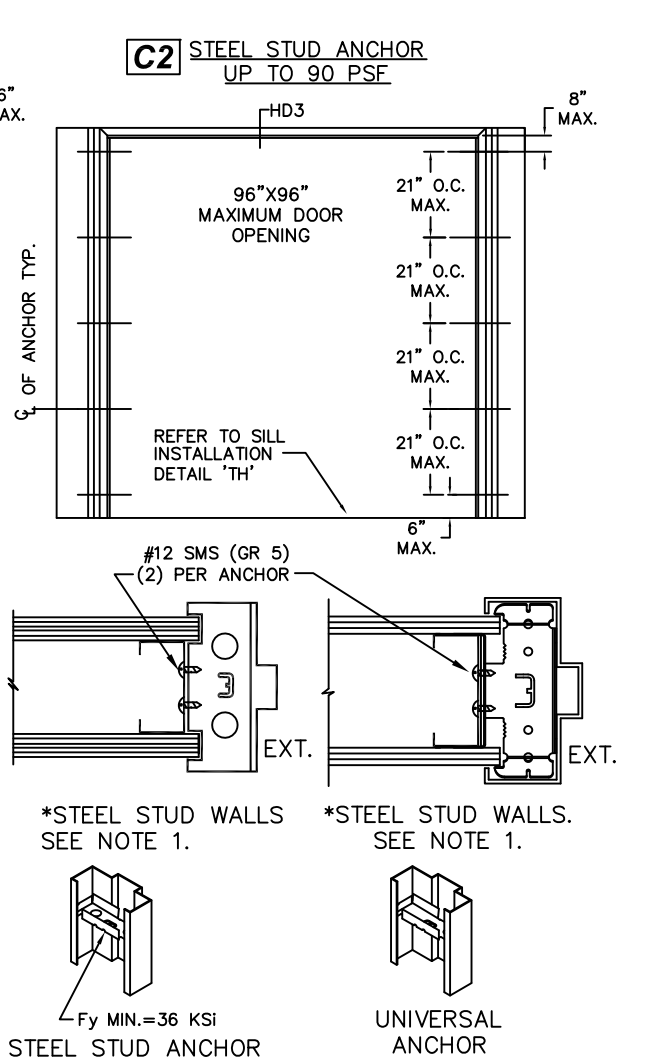
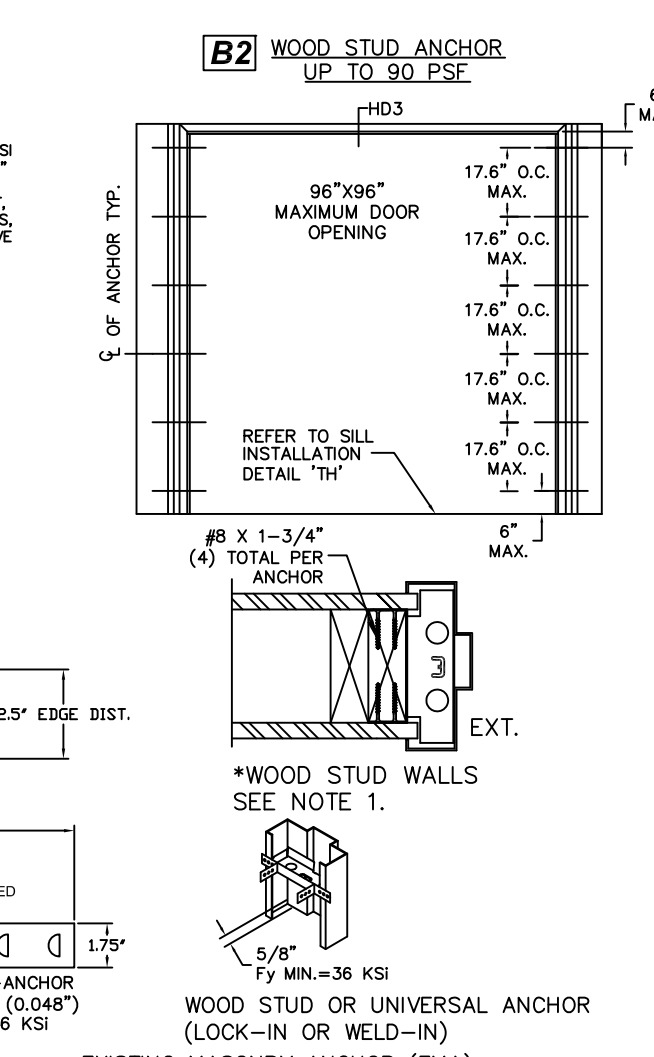
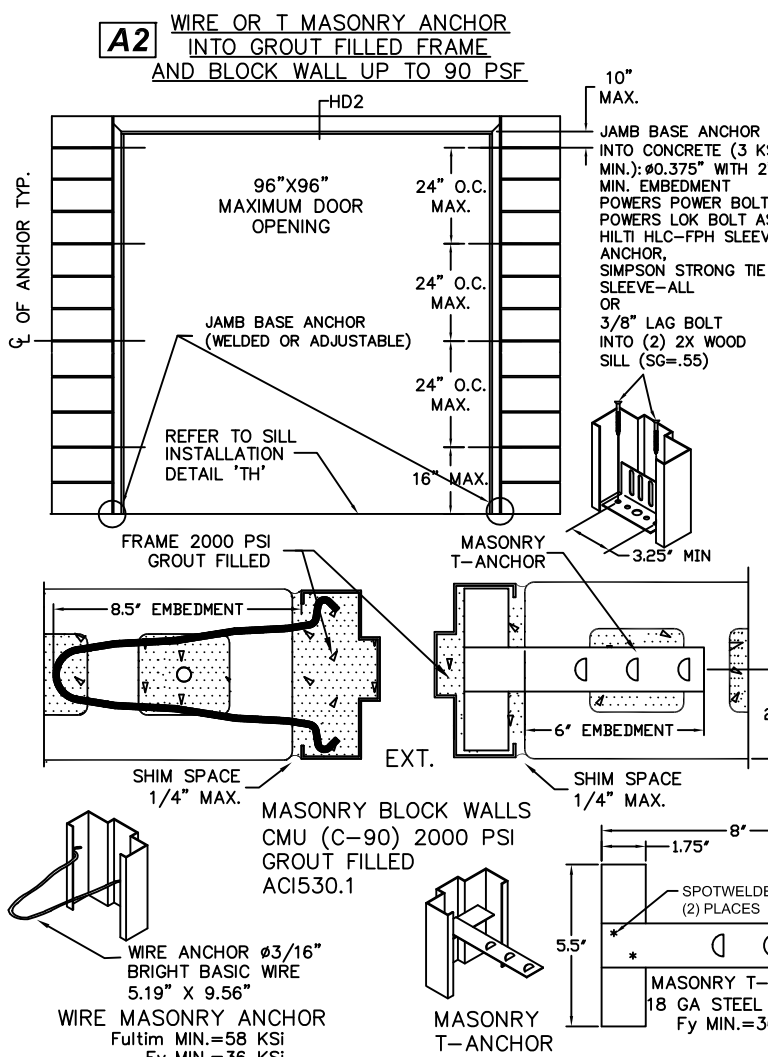
CONTINUOUS HINGE NOTES:  
1. QUANTITY OF SCREWS VARIES PER HINGE LENGTH,  
MANUFACTURER AND MODEL NUMBER  
2. SCREW SPACING VARIES PER HINGE LENGTH,  
MANUFACTURER AND MODEL NUMBER  
3. INSTALL HINGES PER THE MANUFACTURERS  
INSTALLATION INSTRUCTIONS

|   |  |   |  |                          |  |   |          |
|---|--|---|--|--------------------------|--|---|----------|
| BEND RADIUS   |  | SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                               |  |                          |  | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242 |          |
|  |  |   |  |                          |  |   |          |
| THIRD ANGLE PROJECTION  |  | TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |  |                          |  |   |          |
| DRAWN<br>JPD  |  | DATE<br>02/03/14  |  | HINGE AND VIEWER OPTIONS |  |   |          |
| CHECKED   |  |   |  |                          |  |   |          |
| APPROVED  |  | SIZE<br>FLAT  |  | DWG NO.<br>IRFD07        |  |   | REV<br>P |
| ENG. APPVL  |  | SCALE:<br>NTS   |  | AUTOCAD                  |  | SHT 16 OF 17  |          |

## REVISIONS

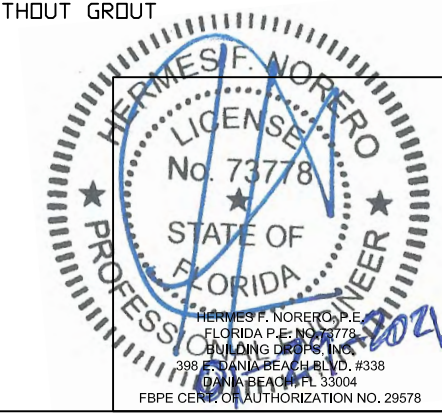
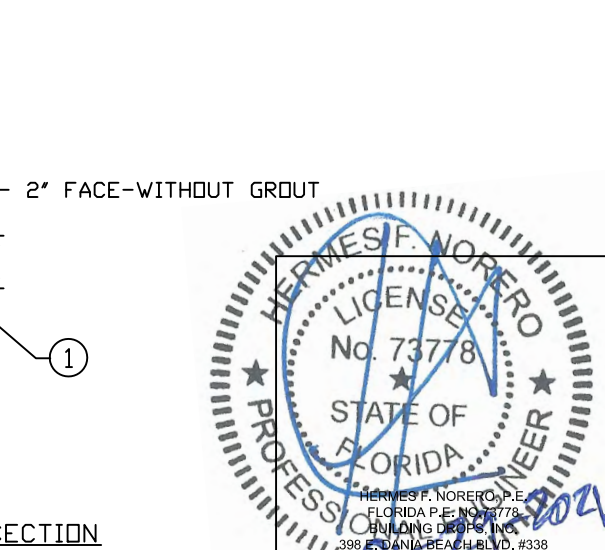
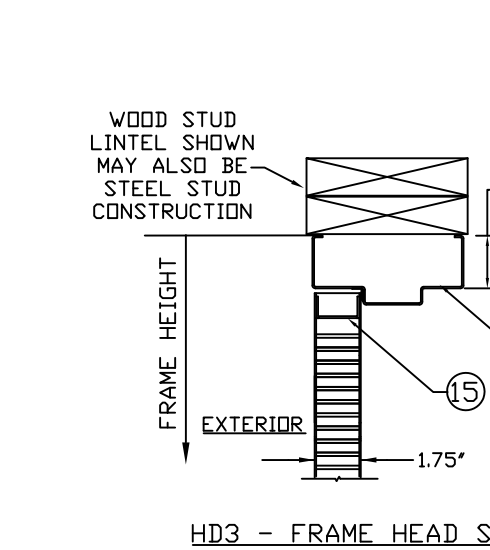
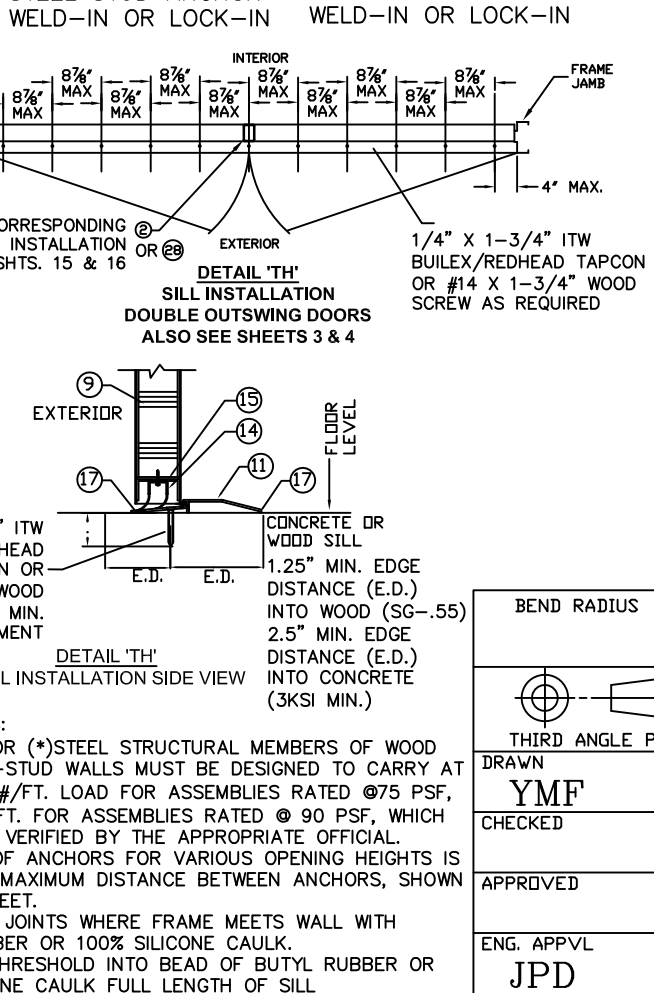
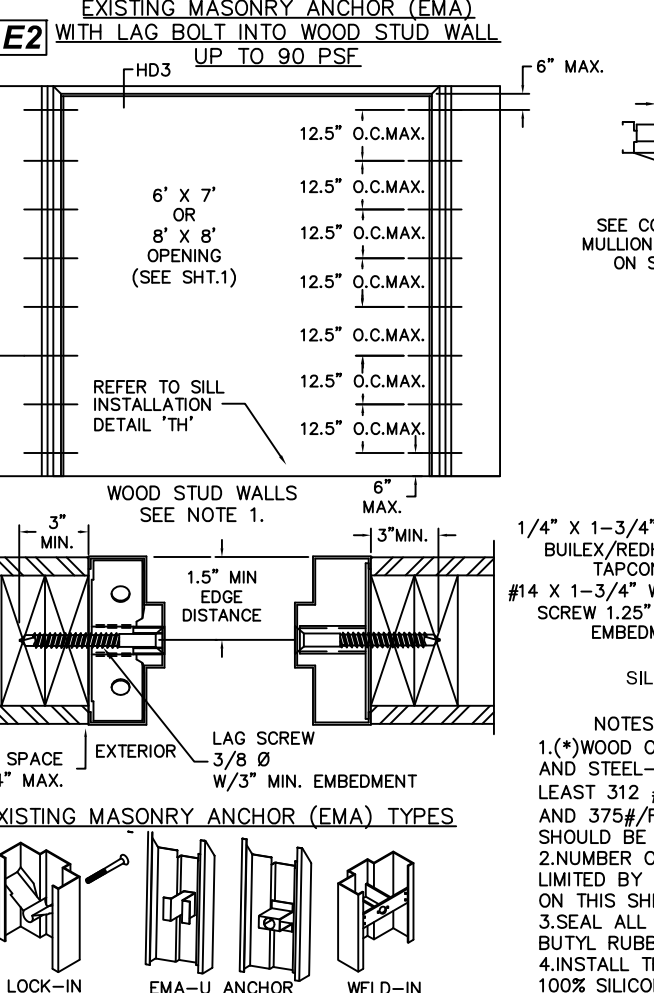
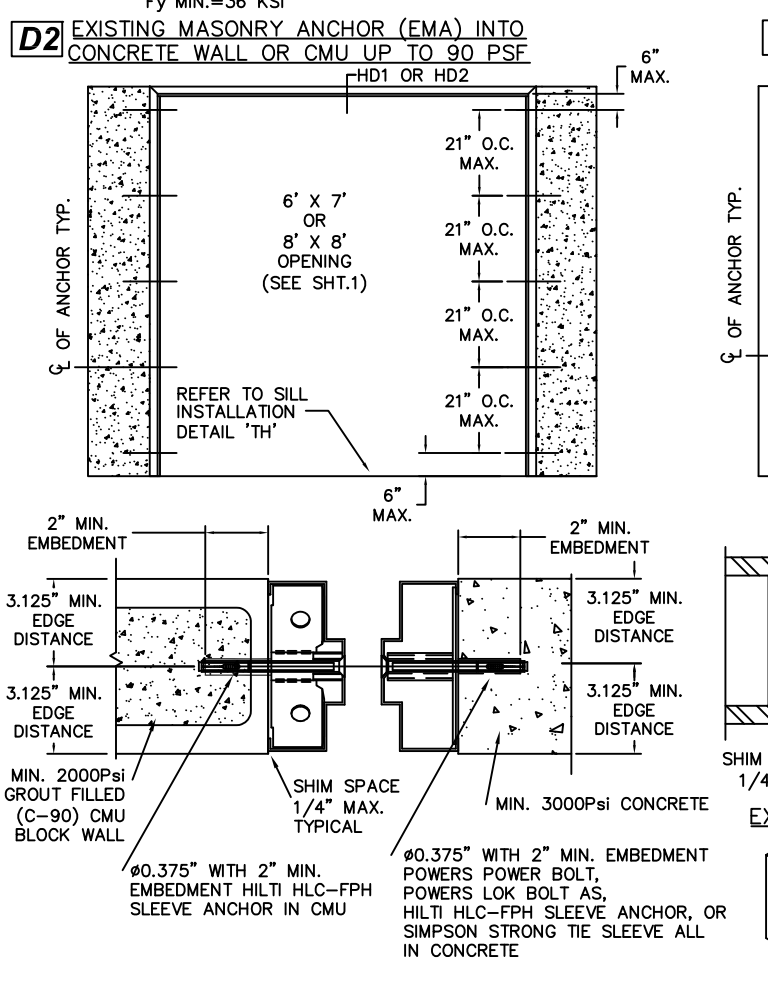
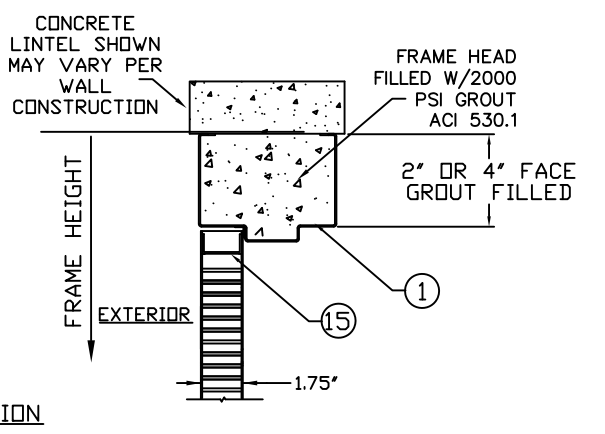
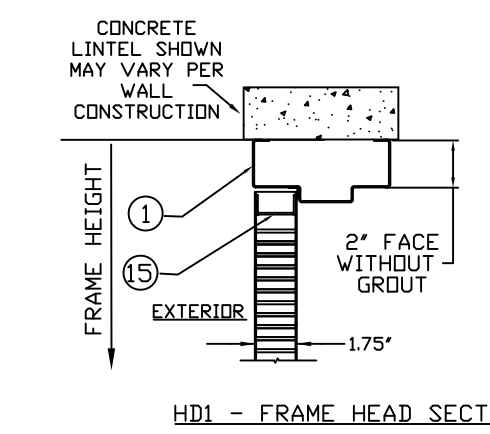
| LTR | DESCRIPTION         | DATE     | APPROVED |
|-----|---------------------|----------|----------|
| A   | APPROVAL DWGS.      | 11/01/13 |          |
| B   | REVISED DWGS.       | 02/01/15 |          |
| C   | REVISED DWGS.       | 05/05/15 |          |
| N   | ENGINEER CHANGE LA  | 03/10/17 |          |
| O   | ADDRESS UPDATE SM   | 02/27/20 |          |
| P   | 2020 FBC UPDATE NUS | 07/07/20 |          |





| REVISIONS |                 |      |          |  |
|-----------|-----------------|------|----------|--|
| LTR       | DESCRIPTION     | DATE | APPROVED |  |
| A         | APPROVAL DWG    | JPD  | 05/05/15 |  |
| N         | ENGINEER CHANGE | LA   | 02/23/17 |  |
| D         | ADDRESS UPDATE  | SM   | 02/27/20 |  |
| P         | 2020 FBC UPDATE | NUS  | 07/07/20 |  |

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By *Isaac I. Chanda*  
Miami-Dade Product Control



NOTES:  
1.(\*)WOOD OR (\*)STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL-STUD WALLS MUST BE DESIGNED TO CARRY AT LEAST 312 #/FT. LOAD FOR ASSEMBLIES RATED @75 PSF, AND 375#/FT. FOR ASSEMBLIES RATED @ 90 PSF, WHICH SHOULD BE VERIFIED BY THE APPROPRIATE OFFICIAL.  
2.NUMBER OF ANCHORS FOR VARIOUS OPENING HEIGHTS IS LIMITED BY MAXIMUM DISTANCE BETWEEN ANCHORS, SHOWN ON THIS SHEET.  
3.SEAL ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR 100% SILICONE CAULK.  
4.INSTALL THRESHOLD INTO BEAD OF BUTYL RUBBER OR 100% SILICONE CAULK FULL LENGTH OF SILL

|   |  |  |  |
|---|--|--|--|
| BEND RADIUS   |  | THIRD ANGLE PROJECTION   |  |
| DRAWN   |  | DATE   |  |
| YMF   |  | 05/20/07   |  |
| CHECKED   |  |  |  |
| APPROVED  |  |  |  |
| ENG. APPVL  |  | 10/12/07   |  |
| JPD   |  |  |  |
| SCHLAGE LOCK COMPANY, LLC<br>11819 N. PENNSYLVANIA STREET<br>CARMEL, IN 46032                               |  | MANUFACTURING FACILITY:<br>STEELCRAFT<br>9017 BLUE ASH ROAD<br>CINCINNATI, OH 45242  |  |
| TITLE: STEELCRAFT H SERIES DOUBLE FLUSH OUTSWING COMMERCIAL STEEL DOORS WITH AND WITHOUT PANIC EXIT DEVICES |  | ANCHOR DETAILS / INSTALLATION CONDITIONS<br>FOR ASSEMBLIES WITH A DESIGN PRESSURE RATING<br>GREATER THAN 75 PSF UP TO AND INCLUDING 90 PSF |  |
| SIZE  |  | DWG NO.  |  |
| FLAT  |  | IRFD07   |  |
| SCALE: NTS  |  | AUTOCAD  |  |
| SHEET 17 OF 17  |  | REV P  |  |