Schlage Lock Company
6810 Hillsdale Court
Indianapolis, IN 46250

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 1RF-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., 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).
3. Use of Ivies viewers (model U696/U698) is limited to max. +/- 75 PSF.
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 & renews NOA #17-0320.08 and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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


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

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0426.04
Expiration Date: May 05, 2023
Approval Date: April 26, 2018
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

C. CALCULATIONS: (submitted under file #15-0930.05)
   1. Anchor verification calculations per FBC 2014 (5th 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)
   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 ASTM1929D 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 ASTM1929D 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 ASTM1929D 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 (5th 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
   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, P.E.
Product Control Examiner
NOA No. 17-0426.04
Expiration Date: May 05, 2023
Approval Date: April 26, 2018
Schlage Lock Company

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 this 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.


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 outswinging 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 outswinging 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 outswinging 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 million per TAS 202, 201 & 203, issued by National Certified Testing, signed & sealed by Gerry Ferrara, P. E.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0426.04
Expiration Date: May 05, 2023
Approval Date: April 26, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:
1. Anchor verification calculation complying w/ FBC 2017(6th 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.
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
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.
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.
5. Allegion’s (Schlage/ Former Ingersoll-Rand) future updated HH9954 Von-Duprin Mullion catalog.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 17-0426.04
Expiration Date: May 05, 2023
Approval Date: April 26, 2018
<table>
<thead>
<tr>
<th>Door Configuration</th>
<th>Maximum Design Pressure, PSF</th>
<th>Maximum Door Opening Size, in.</th>
<th>Locking Hardware Description</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
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<td></td>
<td>Positive</td>
<td>Negative</td>
<td>Width</td>
<td>Height</td>
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<tr>
<td></td>
<td>SEE NOTE 4.</td>
<td>SEE NOTE 4.</td>
<td></td>
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<td>6</td>
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<td>11</td>
<td>70</td>
<td>55</td>
<td>96</td>
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</tr>
</tbody>
</table>

**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 INLT. 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 INLT. THRESHOLD (11A) OPTIONS AND UP TO ±50 PSF WITH THE NON-WATER RATED NGP 950 THRESHOLD (12B) OPTIONS WHEN WATER INFILTRATION REQUIREMENT IS NOT NEEDED. SHEET 8.
5. SCHLAGE AL-SERIES CYLINDRICAL LOCK (DOOR CONFIGURATION 2) IS LIMITED TO ±55 PSF MAXIMUM DESIGN PRESSURE

**TABLE 1.**
### Table 4.1 Non Water Rated Perimeter Seal Hardware - Zero Int'l Thresholds

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Model No.</th>
<th>Description</th>
<th>Mfg.</th>
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<tbody>
<tr>
<td>11</td>
<td>11A</td>
<td>568 Threshold Zero Int'l</td>
<td>NESP</td>
</tr>
<tr>
<td>11C</td>
<td>65 Threshold Zero Int'l</td>
<td>NESP</td>
<td></td>
</tr>
<tr>
<td>11D</td>
<td>568 Threshold Zero Int'l</td>
<td>NESP</td>
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</tr>
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<td>13A</td>
<td>PS074 Door Seal STEELCRAFT</td>
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<tr>
<td>13B</td>
<td>1385 Door Seal Zero Int'l</td>
<td>NESP</td>
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<td>1175 Door Seal Zero Int'l</td>
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<td>81505 Door Seal Zero Int'l</td>
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<td>14</td>
<td>FAS-SEAL Sweep STEELCRAFT</td>
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<td>15</td>
<td>END CHANNEL STEELCRAFT</td>
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<tr>
<td>16A</td>
<td>328 Split Astragal Zero Int'l</td>
<td>NESP</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
- All configurations are applicable for various door types and can be selected based on specific requirements.
- The diagrams illustrate the placement and installation of different seal hardware for zero perimeter thresholds.

**Diagrams:**
- All diagrams show various configurations for perimeter seals, including hinge jaws, door seals, and astragals.
- Each configuration is labeled with specific dimensions and notes for installation and application.

**Revisions:**
- Approved by: TMI on 05/25/87
- Revisions:
  - A: ON 05/25/87
  - B: ON 06/20/88
  - C: ON 06/20/88
  - D: ON 06/20/88
  - E: ON 06/20/88
  - F: ON 06/20/88
  - G: ON 06/20/88
  - H: ON 06/20/88
  - I: ON 06/20/88
  - J: ON 06/20/88
  - K: ON 06/20/88
  - L: ON 06/20/88
  - M: ON 06/20/88
  - N: ON 06/20/88
  - O: ON 06/20/88
  - P: ON 06/20/88
  - Q: ON 06/20/88
  - R: ON 06/20/88
  - S: ON 06/20/88
  - T: ON 06/20/88
  - U: ON 06/20/88
  - V: ON 06/20/88
  - W: ON 06/20/88
  - X: ON 06/20/88
  - Y: ON 06/20/88
  - Z: ON 06/20/88

**Notes:**
- 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)

**Design and Engineering Notes:**
- All designs and configurations are subject to change as per the manufacturer's guidelines.
- Technical specifications and installation instructions are detailed in the accompanying documentation.
NOTES:
1. ELECTRICAL FUNCTIONS/INSTALLATION AND FIRE RATINGS ARE NOT PART OF THIS APPROVAL, AND TO BE REVIEWED AND APPROVED BY BUILDING OFFICIAL.
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.
STEEL BUTT HINGE
IVES 688/3381
STANLEY FB179/9100
HAGER BB1279
4.5" X 4.5" STD. WT. MIN.
.134" MIN. THICKNESS
Fy Min. = 36ksi

CONTINUOUS HINGE
IVES 112HD & 224HD
STANLEY 661HD
SELECT SL11HD
PEMKO FM-HD SERIES
HAGER 780-224HD
ABH A240HD
ALUMINUM 6063-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
**REVISIONS**

A2: MASONRY ANCHOR INTO GROUT-FILLED FRAME AND BLOCK WALL UP TO 50 PSF

B2: WOOD STUD ANCHOR UP TO 50 PSF

C2: STEEL STUD ANCHOR UP TO 50 PSF

- **JPD**

- **APPROVED**

- **DATE**

- **ENGINEER**

- **CHANGE**

---

**EXISTING MASONRY ANCHOR (OMA) INTO CONCRETE WALL OR CONCRETE BLOCK WALL UP TO 50 PSF**

- **DETAIL 17**

- **WIDTH**

- **HEIGHT**

- **THICKNESS**

---

**WOOD STUD WALLS SEE NOTE 1.**

---

**STEEL STUD WALLS SEE NOTE 1.**

---

**CONCRETE LINTEL SHOWN MAY VARY PER WALL CONSTRUCTION.**

---

**MASONRY BLOCK WALLS CMU (C-W) 2000 PSI GROUT FILLED.**

---

**MASONRY T-ANCHOR MASONRY T-ANCHOR MB & MD STEEL (0.44% C) Fy min = 36 ksi**

---

**WIRE MASONRY ANCHOR BASIC WIRE L = 3" (4.5" MAX) WIRE ANCHOR DIA 1/8" WIRE ANCHOR: SEE END OF SHEET**

---

**SHIM SPACE 1/4" MAX.**

---

**SHAPE SPACE 1/2" MAX.**

---

**NOTE:**

- 1/4" WOOD OR STEEL STRUCTURAL MEMBERS OF WOOD AND STEEL STUD WALLS MUST BE DESIGNED TO CARRY A LEAST 312 SF. LOAD FOR ASSEMBLIES RATED 75+ PSF AND GFE TESTED FOR ASSEMBLIES RATED 50+ PSF, WHICH SHOULD BE VERIFIED BY THE APPLICABLE OFFICIAL. THE NUMBER OF ANCHORS FOR VARIOUS HORIZONTAL HEIGHTS IS A MINIMUM DISTANCE BETWEEN ANCHORS SHOWN ON THE SHEET. AVOID ALL JOINTS WHERE FRAME MEETS WALL WITH BUTYL RUBBER OR TINE SILICONE CAULK. INSTALL THRESHOLDS IN BEAD OF BUTYL RUBBER OR TINE SILICONE CAULK, FULL LENGTH OF WALL.