Republic Doors and Frames, Inc.
155 Republic Dr.
Mckenzrie, TN 38201

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: Republic H Series Single & Double Flush Outswing Commercial Steel Door w/ SVR (Surface Vertical Rod) Panic Exit Devices-LMI

APPROVAL DOCUMENT: Drawing No. Drawing No “RD3580-1” Rev J-1, titled “Republic H-series Single and Double Flush Doors”, sheets 1 through 15 of 15, prepared by the manufacturer, dated 03-13-09 and last revised on 03/20/2018, 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 Door Sizes, Design Pressures and Water infiltration (Threshold types) limitations in sheet 1 & water resistance threshold components in sheets 7 thru 11 of the DWG. Lower Design Pressure VS size, threshold (water infiltration rated & non-water rated) and installation shall control the entire assembly.
2. See sheets 5 & 6 for door installed up to = +/-75 PSF and sheets 14 & 15 for door installed up to = +/-150 PSF.
3. Use of Ives Viewers (model U696/U698) is limited to +/-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 NOA #18-0510.05 (PLA) and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4 and E-5, as well as approval document mentioned above.

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

NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS
   1. Drawing No. "3580-1" Rev H, titled "Steelcraft H-Series Single and Double Flush Outswing Commercial Steel Doors with Vertical Rod Exit Device", sheets 1 through 10 of 10, prepared by the manufacturer, dated 03-13-09 and last revised on 09/29/15, signed and sealed by Hermes F. Norero, P.E.

B. TESTS
   1. None.

C. CALCULATIONS
   1. Anchor verification calculation and analysis dated 11/08/17 and revised on 02/12/18, prepared, signed & sealed by Hermes F. Norero, P.E.

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

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS
   2. Letter indicating Change of Engineer of Record indicating that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated 10/09/17, signed and sealed by Hermes F. Norero, P.E.

G. OTHER
   1. This NOA revises NOA #15-0930.03, expiring on 05/05/20

2. Evidence submitted under previous approvals

A. DRAWINGS
   1. Manufacturer's parts and sections drawings (Submitted under file as below).
   2. Drawing No. Drawing No “3580-1” Rev G, titled “Steelcraft H-series Single and Double Flush Doors”, sheets 1 through 8 of 8, prepared by the manufacturer, dated 03-13-09 and last revised on 09/29/15, signed and sealed by Thomas Gordon, P.E.

B. TESTS (Submitted under files #13-1217.18/#12-0305.12/ #10-0209.06/#09-0528.06)
   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.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019
B. TESTS (Continue)

2. 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 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.

3. Test reports on
   1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94.
   2) Water Resistance Test per FBC TAS 202-94 (See limitations in sheet 1)

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.

4. 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. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94 (Not conducted)
   2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94 (Not conducted)
   4) Large Missile Impact Test per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
   6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

Along with manufacturer's parts and section drawings of Flush out swing double steel doors, marked by Certified Testing Lab, Test Reports No(s). NCTL-210-3580-1 dated 03/25/09, signed and sealed by Gerard J. Ferrara, P. E. (Submitted under file # 09-0528.06)


C. CALCULATIONS:


2. Hinge Load Evaluation report dtd 01/04/04, prepared, signed & sealed by Thomas Gordon., P.E.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019

E-2
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

E. MATERIAL CERTIFICATIONS (items 6 thru 8, submitted under file # 09-0528.06)
   4. Test Report No. 16206-122543 (1015P200(3)), dated November 29, 2004 for “Surface Burning Characteristics of Bldg. material” per ASTME84 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 ASTME84 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 E8 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 ASTME84 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 of the items submitted under file #10-0209.09.
   1. Letter of conformance to FBC 2014 (5th Edition), dated 09/29/15, 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 05/4/09, prepared, signed and sealed by Gordon Thomas, P.E.
   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.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019

E-3
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

G. OTHER
1. This NOA revises & renews NOA #13-1217.18, expiring on 05/05/20.
2. Test proposals #14-0252, -0254, #14-1086, #14-0254-R1 and #12-0797R approved by RER.
3. Consolidation Test proposal #06-2468, dated 04/27/07 approved by BCCO.
4. Consolidated reference NOA # 10-0209.06.

3. Evidence submitted under previous approval.

A. DRAWINGS
1. Drawing No. Drawing No “3580-1” Rev J, titled “Steelcraft H-series Single and Double Flush Doors”, sheets 1 through 15 of 15, prepared by the manufacturer, dated 03-13-09 and last revised on 07/12/2018, 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 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.

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.

2. 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.


C. CALCULATIONS:
1. None.

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

E. MATERIAL CERTIFICATIONS:
1. None.

F. STATEMENTS:

G. OTHER
1. This NOA revises & replaces NOA #17-1206.03, expiring on 05/05/20.

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


A. DRAWINGS
   1. Drawing No. Drawing No “RD3580-1” Rev J-1, titled “Republic H-series Single and Double Flush Doors”, sheets 1 through 15 of 15, prepared by the manufacturer, dated 03-13-09 and last revised on 03/20/2018, signed and sealed by Hermes F. Norero, P.E.

B. TESTS (submitted under PLA NOA #18-0510.05)
   1. None.

C. CALCULATIONS (submitted under PLA NOA #18-0510.05)
   1. None.

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

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS
   2. Private label agreement dated 02-27-2019 between Schlage Lock Company, LLC (MFG) and Republic Doors and Frames, Inc.(PL), signed by Earl Delph, Manager and Donald Dunaway, Leader on behalf of the respective companies.

G. OTHER
   1. This NOA revises PLA NOA #18-0510.05, expiring 05/05/2020.

Ishdq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 19-0327.09
Expiration Date: May 05, 2020
Approval Date: May 02, 2019
### SINGLE OUTSWING DOORS

**WS98/9927(F) SERIES SURFACE VERTICAL ROD EXIT DEVICE BY VON DUPRIN**

- **INTERIOR VIEW (OUTSWING DOOR):**
  - MAX. UNIT WIDTH: 58".
  - MAX. DOOR. WIDTH: 49".

### DOUBLE OUTSWING DOORS

**WS98/9927(F) SERIES SURFACE VERTICAL ROD EXIT DEVICE BY VON DUPRIN**

- **INTERIOR VIEW (OUTSWING DOORS):**
  - MAX. UNIT WIDTH: 65".
  - MAX. DOOR WIDTH: 56".

### DESIGN PRESSURE RATING, PSF

<table>
<thead>
<tr>
<th>WHERE WATER INfiltration Requirement IS Needed</th>
<th>WHERE WATER INfiltration Requirement IS NOT Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>±75</strong> ZERO INT. L 56&quot; SEE TABLE 5.1 ON SHT. 7</td>
<td><strong>±75</strong> NOS 950 X 7&quot; X 7&quot; MAX. DOOR SEE TABLE 5.2 ON SHT. 7</td>
</tr>
<tr>
<td><strong>±150</strong> ZERO INTL. THRESHOLDS SEE TABLE 7 ON SHT. 9</td>
<td><strong>±150</strong> NOS 950 X 7&quot; X 7&quot; MAX. DOOR SEE TABLE 5.2 ON SHT. 8</td>
</tr>
</tbody>
</table>

### GENERAL NOTES:

1. **INTERIOR VIEWS ARE SHOWN FOR ALL ELEVATIONS (OUTSWING DOORS).**
2. **SEE TABLE 1 ON SHEET 2 FOR BILL OF MATERIALS.**
3. **SEE SHEET 2 AND 13 FOR HINGE REQUIREMENTS.**
4. **SEE SHEETS 5 AND 6 FOR ANCHORING REQUIREMENTS UP TO 75 PSF.**
5. **SEE SHEETS 14 AND 15 FOR ANCHORING REQUIREMENTS GREATER THAN 75PSF UP TO 150 PSF.**
6. **SEE SHEET 7 TABLE 5.1 FOR ZERO INT. 56" WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR SINGLE DOORS.**
7. **SEE SHEET 7 TABLE 5.2 FOR NOS 950 WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR SINGLE DOORS.**
8. **SEE SHEET 8 TABLE 6.1 FOR ZERO INT. 56" WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR DOUBLE DOORS.**
9. **SEE SHEET 8 TABLE 6.2 FOR NOS 950 WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR DOUBLE DOORS.**
10. **SEE SHEET 9 TABLE 7 FOR ZERO INTL. NON WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR SINGLE DOORS.**
11. **SEE SHEET 10 TABLE 8 FOR NOS 950 WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR SINGLE DOORS.**
12. **SEE SHEET 11 TABLE 8.1 FOR NOS 950 NON WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR SINGLE DOORS.**
13. **SEE SHEET 11 TABLE 8.2 FOR NOS 950 NON WATER RATED THRESHOLD, WEATHERSTRIPPING INSTALLATION AND LIMITATIONS FOR DOUBLE DOORS.**

### DETAIL 'A' MEETING DOOR EDGES

**WITH SPLIT ASTRAGAL, GASKETING NO HOLLOW METAL DOOR ASTRAGAL NO HARDWARE MULLION - BOTH DOORS ACTIVE**

### COMPLIANCE STATEMENT

1. THESE PRODUCTS HAVE BEEN TESTED TO HAVE PROTOCOLS TAS201, 202, 8203-94 AND COMPLY WITH THE 5TH EDITION (2017) FLORIDA BUILDING CODE.
2. **ALL CONFIGURATIONS MEET LARGE AND SMALL MISSILE IMPACT REQUIREMENTS - (LARGE MISSILE IMPACT AT 30 FJ/15).**

### REPUBLIC DOORS AND FRAMES

**155 REPUBLIC DR.**

**MCKENZIE, TN 38261**

**PHONE:** 1-800-999-9999

**FAX:** 555-555-5555

**EMAIL:** info@republicdoors.com

**WEBSITE:** www.republicdoors.com

**CERTIFICATIONS:**

**UL:** 1001, 1002, 1003, 1004

**ASTM:** A600, A780

**NFPA:** 101, 105, 107, 109

**ICC:** 1201, 1207, 1208, 1209

**ASME:** A1535, A1536, A1537

**CPSC:** 1610, 1611, 1612

**ADA:** 508, 511, 512

**LIVE:**

**SIZE:** 24X48

**SWG #:** BB3580-1 SHEET 1 OF 15

**REV:** J-1

**ENG:** YMF

**APPV:** NTS AUTOCAD

**DIESEL:**

**DRAWN BY:** YMF

**DATE:** 03/13/99

**APPROVED BY:** NTS AUTOCAD
### Table 1

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Material</th>
<th>Ref.</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1</td>
<td>HEAD SECTION (max 62&quot; or 100&quot; long)</td>
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<td>ASTM A398</td>
</tr>
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<td>2</td>
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<td>FINGE JAMB (MAX 92&quot;)</td>
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<td>4</td>
<td>FRAMES HINGE REINFORCEMENT</td>
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<td>3</td>
<td>OPTIONAL CONTRACT HINGES</td>
<td>145A MIN. STL.</td>
<td>3/8 ALUM</td>
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<td>6</td>
<td>1</td>
<td>HEAD REINFORCEMENT</td>
<td>060 MIN. STL.</td>
<td>SHT 7</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>DOOR SLAB (8 or 14)</td>
<td>050 MIN. STL.</td>
<td>SHT 4</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>DOOR HINGE REINFORCEMENT</td>
<td>171 MIN. STL.</td>
<td>ASTM A621</td>
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<td>2</td>
<td>DOOR COUPLING HINGE REINFORCEMENT</td>
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<td>1</td>
<td>DOOR HEAD SIDE REINFORCEMENT</td>
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</tr>
<tr>
<td>11</td>
<td>2</td>
<td>DOOR BACK CHANNEL (FULL WIDTH)</td>
<td>060 MIN. STL.</td>
<td>SHT 7</td>
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<td>AS NEEDED</td>
<td>CABLE - BUTY RUBBER OR SILICONE</td>
<td>SHS 7.8.10.15</td>
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<td>13</td>
<td>1</td>
<td>DOOR CORE</td>
<td>VARY</td>
<td>SHT 4</td>
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<tr>
<td>14</td>
<td>NOTE 1 - NOTE 2</td>
<td>FRAME ANCHOR</td>
<td>VARY</td>
<td>ASTM A398</td>
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<tr>
<td>15</td>
<td>1</td>
<td>LOCKING HARDWARE (WHISPER IT)</td>
<td>SURFACE VERTICAL ROD EXIT DEVICE</td>
<td>BY VON DURNIN</td>
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<tr>
<td>16a</td>
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<td>566 THRESHOLD ZERO</td>
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<td>TPE</td>
<td>SHS 7.8.9.11</td>
</tr>
<tr>
<td>24</td>
<td>1</td>
<td>475 ADJUSTABLE SEAL ZERO</td>
<td>TPE</td>
<td>SHS 7</td>
</tr>
<tr>
<td>25</td>
<td>6</td>
<td>715 ADJUSTABLE SEAL NIP</td>
<td>TPE</td>
<td>SHS 7.8.6.10</td>
</tr>
<tr>
<td>26a</td>
<td>1</td>
<td>142 IN CHAISE ZER0 INTL</td>
<td>ALUMINUM</td>
<td>SHS 7.8.8</td>
</tr>
<tr>
<td>26b</td>
<td>1</td>
<td>117 RAIN DROP ZER0 INTL</td>
<td>ALUMINUM</td>
<td>SHS 7.8.8</td>
</tr>
<tr>
<td>26c</td>
<td>1</td>
<td>184 RAIN DROP NIP</td>
<td>ALUMINUM</td>
<td>SHS 7.8.8</td>
</tr>
<tr>
<td>26d</td>
<td>1</td>
<td>184 RAIN DROP NIP</td>
<td>ALUMINUM</td>
<td>SHS 7.8.8</td>
</tr>
</tbody>
</table>

### Notes:
1. Anchor requirements: Refer to sheets 5, 6, 14, 15 for typical frame lock-in welded or EMA anchors.
2. See sill installation requirements on sheets 5, 6, 14, 15.
3. Hinge requirements:
   - For open doors up to 90°: high - min. 3; butt hinges
   - For open doors over 90° - 180°: high - min. 4; butt hinges
4. Face head is available on sheets 5, 6, 14, 15.
5. Apply callout A to the full length of rail and entire perimeter of frame. See sheets 5, 6, 6, 14, 15.
6. See sheet 5 for section A-A and B-B.
7. Exit hardware options: functional or exit, left, right, left, right, exit, exit (see note 15).
8. Apply callout A to the full length of rail and entire perimeter of frame. See sheets 5, 6, 6, 14, 15.
9. Egress and fire rating are under separate approval and must be reviewed by corresponding authority.
10. Optional power transfers, monitoring switches, supplementary magnetic locks may be used as allowed by code and do not affect the mechanical properties of exit devices and/or inhibit egress, to be reviewed by corresponding authority.
11. Water infiltration is required install per sheets 7 and 9 when water infiltration is not required install per sheets 9, 10 and 11.
TABLE 2. AVAILABLE REPUBLIC DOOR CONFIGURATIONS

<table>
<thead>
<tr>
<th>REPUBLIC II SERIES</th>
<th>CORE MATERIAL</th>
<th>PER SHUTT</th>
<th>MAXIMUM OPENING SIZE</th>
<th>SKIN MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>HONEYCOMB POLYSTYRENE POLYURETHANE</td>
<td>POLYURETHANE (POLYSOYCURANATE) TEMPERATURE RISE STEEL ENFORCED</td>
<td>SNGL=40&quot; DBL=80&quot;</td>
<td>80&quot;</td>
</tr>
<tr>
<td></td>
<td>HONEYCOMB POLYSTYRENE POLYURETHANE</td>
<td>STAINLESS STEEL</td>
<td>SNGL=40&quot; DBL=80&quot;</td>
<td>80&quot;</td>
</tr>
</tbody>
</table>

TABLE 3. AVAILABLE REPUBLIC FRAME CONFIGURATIONS

<table>
<thead>
<tr>
<th>REPUBLIC II SERIES</th>
<th>MAXIMUM OPENING SIZE</th>
<th>FRAME SERIES</th>
<th>DEPTH</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MAXIMUM OPENING SIZE</td>
<td>F</td>
<td>M4</td>
<td>MATERIAL</td>
</tr>
<tr>
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<td>WIDTH</td>
<td>HEIGHT</td>
<td>DESCRIPTION</td>
<td>GA./MIN. THK</td>
</tr>
<tr>
<td></td>
<td>5.75&quot;</td>
<td>80&quot;</td>
<td>CRS/HRS GALV</td>
<td>16/053</td>
</tr>
<tr>
<td></td>
<td>5.75&quot;</td>
<td>80&quot;</td>
<td>STAINLESS STEEL</td>
<td>16/053</td>
</tr>
</tbody>
</table>

NOTES:
1. FRAME CONSTRUCTION
2. MATERIAL SPECIFICATIONS REFERENCE TABLE 4.
3. DOOR VIEWERS ARE PERMITTED TO BE USED IN A DOOR WITH A DESIGN PRESSURE OF 4-75 PSI OR LESS. MAXIMUM 9/16" DIAMETER HOLE THROUGH DOOR FOR VIEWER INSTALLATION.
4. DOOR OPENING SIZE IS 3-1/2" FOR SINGLE 4' X 8" FOR DOUBLE OPENING.

TABLE 4. STEEL MECHANICAL PROPERTIES

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>ASTM REF</th>
<th>TYPICAL HEAD MATERIAL</th>
<th>YIELD TENSILE ROD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRS</td>
<td>A366</td>
<td>55,000 PSI</td>
<td>60,000 PSI</td>
</tr>
<tr>
<td>HRS</td>
<td>A1011</td>
<td>42.6 MIN.</td>
<td>53.5 MIN.</td>
</tr>
<tr>
<td>GALV</td>
<td>A60</td>
<td>42.6 MIN.</td>
<td>53.5 MIN.</td>
</tr>
<tr>
<td>BS 304/316</td>
<td>A240</td>
<td>42.6 MIN.</td>
<td>53.5 MIN.</td>
</tr>
</tbody>
</table>
### Table 6.1 Water Rated Perimeter Seal Hardware - Zero INTL Threshold 566

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
<th>Model / Description</th>
<th>MFG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16A</td>
<td>566 Threshold</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>FAS-Seal Sweep</td>
<td>PER MFG.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>END Channel</td>
<td>PER MFG.</td>
<td></td>
</tr>
<tr>
<td>15A</td>
<td>326 Split Astragal</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>18E</td>
<td>81653 Door Seal</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>130 Door Sweep</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>24A</td>
<td>142 Rain Drip</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>24B</td>
<td>11 Rain Drip</td>
<td>Zero INTL</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Door Top Cap</td>
<td>PER MFG.</td>
<td></td>
</tr>
</tbody>
</table>

**Zero INTL 566 (16A) Threshold Gasketing System Requirements for Water Infiltration:**

**Maximum Design Pressure Rating 75PSF**
- Max. Door Size of 4'-0" x 8'-0" (0'-0" x 0'-0") Pair (See Elevation Sheet 1)

### Table 6.2 Water Rated Perimeter Seal Hardware - NPS Threshold 950

<table>
<thead>
<tr>
<th>Item</th>
<th>Number</th>
<th>Model / Description</th>
<th>MFG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16B</td>
<td>950 Threshold</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>FAS-Seal Sweep</td>
<td>PER MFG.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>END Channel</td>
<td>PER MFG.</td>
<td></td>
</tr>
<tr>
<td>18A</td>
<td>PS074 Door Seal</td>
<td>PER MFG.</td>
<td></td>
</tr>
<tr>
<td>19B</td>
<td>137 Split Astragal</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>202N Door Seal</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>200N Door Sweep</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>23B</td>
<td>170N Adjustable Seal</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>24C</td>
<td>16A Rain Drip</td>
<td>NPS</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Door Top Cap</td>
<td>PER MFG.</td>
<td></td>
</tr>
</tbody>
</table>

**NPS 950 (16B) Threshold Gasketing System Requirements for Water Infiltration**

**Maximum Design Pressure Rating 75PSF for Max. Door Size of 3'-0" x 7'-0" (0'-0" x 7'-0") Pair**
(See Elevation Sheet 1)

**Maximum Design Pressure 50 PSF for Max. Door Size of 4'-0" x 8'-0" (0'-0" x 8'-0") Pair**
(See Elevation Sheet 1)

### Diagram

- Shows details of gasketing and seal installation.
- Diagram includes various components like sealants, weatherstrips, and hardware.

**Notes:**
1. Slot locations may vary with different door width.
2. Door sweep rigid section is made of Pro-Fax-1000 Polypropylene Homopolymer.
3. Door sweep flexible section is made of Santoprene N01-73.
4. FAS-Seal Door Sweep (17), Threshold (16A) or (16B), Gasketing, rain drip and top cap shown in elevations are required for all installations.
5. Seal all joints where frame meets wall with butyl rubber or 100% silicone caulking.
6. Install threshold into bead of butyl rubber or 100% silicone caulking full length of sill.

**Product References**
- nVision compliant with the Flexible Code Acceptance No. 03-37.
- Expiration Date: 10/31/03.

**Revisions**
- A: Approval DVG, YFP: 05/03/14
- B: Revised DVG, JPD: 05/05/15
- C: Engineer Change, LA: 10/12/17
- J-1: Revised DVG, JPD: 05/10/18
### TABLE 7 - NON WATER RATED PERIMETER SEAL HARDWARE - ZERO INTERNATIONAL THRESHOLDS

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>DESCRIPTION</th>
<th>MFG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>566 THRESHOLD</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>16C</td>
<td>65 THRESHOLD</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>16D</td>
<td>586 THRESHOLD</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>18A</td>
<td>PS074 DOOR SEAL</td>
<td>PER MFG.</td>
</tr>
<tr>
<td>18B</td>
<td>1688 DOOR SEAL</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>18C</td>
<td>1175 DOOR SEAL</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>18D</td>
<td>81445 DOOR SEAL</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>18E</td>
<td>81065 DOOR SEAL</td>
<td>ZERO INTL.</td>
</tr>
<tr>
<td>17</td>
<td>FAS-SEAL SWEEP</td>
<td>PER MFG.</td>
</tr>
<tr>
<td>11</td>
<td>END CHANNEL</td>
<td>PER MFG.</td>
</tr>
</tbody>
</table>

**ZERO INTL 566(16A) THRESHOLD GASKETING SYSTEM REQUIREMENTS WHEN WATER INFILTRATION IS NOT REQUIRED**

**Maximum Design Pressure Rating 150PSF - Maximum Door Size 4'0" X 8'0" Single Door (See Elevation Sheet 1)**

**Maximum Design Pressure Rating 70PSF - Maximum Door Size 4'0" X 8'0" Single Door (See Elevation Sheet 1)**

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**REVISIONS**

<table>
<thead>
<tr>
<th>LTR</th>
<th>DESCRIPTION</th>
<th>DATE</th>
<th>APPROVED</th>
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<tr>
<td>A</td>
<td>APPROVAL DVG</td>
<td>05/05/14</td>
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<td>REVISED DVG</td>
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<td>ENGINEER CHANGE</td>
<td>10/12/17</td>
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<tr>
<td>JPD</td>
<td>REVISED DVG</td>
<td>05/10/18</td>
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</tr>
</tbody>
</table>
### Table 8: Non-Water Rated Perimeter Seal Hardware - Zero Int'l Thresholds

<table>
<thead>
<tr>
<th>ITEM NUMBER</th>
<th>MODEL NUMBER</th>
<th>DESCRIPTION</th>
<th>MFG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>566 THRESHOLD</td>
<td>ZERO INT'L</td>
<td>16C</td>
</tr>
<tr>
<td>16D</td>
<td>568 THRESHOLD</td>
<td>ZERO INT'L</td>
<td>16A</td>
</tr>
<tr>
<td>18</td>
<td>P0974 DOOR SEAL</td>
<td>PER MFG.</td>
<td>18B</td>
</tr>
<tr>
<td>18C</td>
<td>1175 DOOR SEAL</td>
<td>ZERO INT'L</td>
<td>18A</td>
</tr>
<tr>
<td>18D</td>
<td>8144S DOOR SEAL</td>
<td>ZERO INT'L</td>
<td>18E</td>
</tr>
<tr>
<td>18E</td>
<td>9156S DOOR SEAL</td>
<td>ZERO INT'L</td>
<td>18C</td>
</tr>
<tr>
<td>17</td>
<td>FAS-SEAL SWEEP</td>
<td>PER MFG.</td>
<td>PER MFG.</td>
</tr>
<tr>
<td>11</td>
<td>END CHANNEL</td>
<td>PER MFG.</td>
<td>11A</td>
</tr>
<tr>
<td>18A</td>
<td>328 SPLIT ASTRAGAL</td>
<td>ZERO INT'L</td>
<td>18A</td>
</tr>
</tbody>
</table>

**Zero Int'l 566(16A) or 568(16D) Threshold Gasketing System Requirements When Water Infiltration Is Not Required**

**Maximum Design Pressure Rating 150PSF - Maximum Door Size 4'-0" X 8'-0" (8'-0" X 8'-0" Pair)**

(See Elevation Sheet 1)

**Table 9: Rev. Sheet**

- **LTR:** Approval DVG
- **DATE:** 05/31/14
- **APPROVED:** JPD

**Maximum Design Pressure Rating 75 PSF - Maximum Door Size 4'-0" X 8'-0" (8'-0" X 8'-0" Pair)**

(See Elevation Sheet 1)

**Table 10: Rev. Sheet**

- **LTR:** Approval DVG
- **DATE:** 05/05/15
- **REVISIONS:** JPD

**Maximum Design Pressure Rating 70 PSF - Maximum Door Size 4'-0" X 8'-0" (8'-0" X 8'-0" Pair)**

(See Elevation Sheet 1)

**Table 11: Rev. Sheet**

- **LTR:** Engineer Change LA
- **DATE:** 10/12/17
- **REVISIONS:** JPD

**Table 12: Rev. Sheet**

- **LTR:** Approval DVG
- **DATE:** 05/30/18
- **APPROVED:** JPD

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**Notes:**
1. Slot locations may vary with different door width.
2. Door sweep rigid section is made of Pro-Fax RPD-189 Polypropylene Homopolymer.
3. Door sweep flexible section is made of Santoprene #011-17.
4. FAS-Seal door sweep (17), door seal (1A, 18B, 18C, 18D, 18E), split astragal (19A) and threshold (1A, 16C, 16D) as applicable, are required for all installations.
5. Seal all joints where frame meets wall with butyl rubber or 100% silicone caulking full length of sill.
6. Install threshold into bead of butyl rubber or 100% silicone caulking full length of sill.
NOTES:
1. CORE MATERIAL SHOWN WITHOUT CUTOUTS FOR REINFORCEMENTS