NOTICE OF ACCEPTANCE (NOA)

Oldecastle Building Envelope, Inc. (TX)
803 Airport Road
Terrell, TX 75160

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: Series “MSD-375 & WSD-500” Outswing Glazed Aluminum Entrance Doors w/wo Transom

APPROVAL DOCUMENT: Drawing No. 16-093, titled “Series MSD-375 (Medium) & WSD-500 (Wide) Aluminum Entrance Door (Wet Glazed)”, sheets 1 through 32 (including 8A & 8B) of 32, dated 05/02/17, prepared by Tiltco, Inc., signed and sealed by Walter A. Tillit Jr., P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LIMITATIONS:
1. See Design Pressure Ratings based on Door sizes, glass types and locking Hardware in sheet 1. See Panic Locking Hardware DP limitations in sheet 8, 8A & 8B. When doors or doors w/transom are mulled with FG 5000 (Window wall) or FG 5100 (Window Wall) or HR250 Curtain Wall or HR 251 Curtain Wall framing, the lower design pressure of this door or the mulled Window Wall or Curtain Wall shall control for entire assembly.

2. The Oldcastle Window Wall (WW) and Curtain Wall (CW) are under separate approval. The adequacy of anchors at the door mullion top & bottom end tributary loading condition to be reviewed by Bldg. official. This approval is not intended to revise any condition approved under respective WW or CW Notices of Acceptances(NOAs)

3. The doors or doors w/ Transom are not rated for Water Resistant requirements.
4. The Max 24” high x 84” transom allowed per details 6 & 7/15 in sheet 14.
5. Jambs are into concrete or grout filled concrete blocks.

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 consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above. The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

MIAMI-DADE COUNTY
APPROVED

NOA No. 16-1213.02
Expiration Date: May 18, 2022
Approval Date: May 18, 2017
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS
1. Manufacturer’s die drawings and sections
2. Drawing No. 16-093, titled “Series MSD-375 (Medium) & WSD-500 (Wide) Aluminum Entrance Door (Wet Glazed)”, sheets 1 through 32 (including 8A & 8B) of 32, dated 05/02/17, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P. E.

B. TESTS
1. Test reports on:
   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, TAS 202-94

   Along with marked-up drawings and installation diagram of double doors w/ Regent CVR panic Devices, prepared by Architectural Testing, Test Report No. C0344.01-450-18, dated 06/13/12, signed and sealed by Vinu Abraham, P.E. (Submitted under files #12-0926.05)

   along with marked-up drawings and installation diagram of aluminum medium stile entrance doors, prepared by Architectural Testing, Inc., Test Report No. ATI-89818.01-401-18, dated 11/18/08 and 06/26/09, both signed and sealed by Joseph A. Reed, P. E. (Submitted under files #11-1206.10/#09-1228.01).

   along with marked-up drawings and installation diagram of aluminum medium stile entrance doors, prepared by Hurricane Test Laboratory, Inc., Test Reports No.’s HTL-0105-1030-02, HTL-0105-0712-03, HTL-0105-0205-03, HTL-0105-0810-03, HTL-0105-0210-04 and HTL-0105-0407-04, dated 10/21/02 and 04/05/04, all signed and sealed by Vinu J. Abraham, P. E. (Submitted under file #04-0209.03)

3. REF Test reports on:
   2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
   3) Water Resistance Test, per FBC, TAS 202-94
   4) Large Missile Impact Test, per FBC, TAS 201-94
   5) Cyclic Wind Pressure Loading, per FBC, TAS 203-94

   along with marked-up drawings and installation diagram of Aluminum Storefront, prepared by Certified Testing Laboratories, Inc., Test Report No. CTLA-1177W, dated 01/06/04, signed and sealed by Ramesh Patel, P. E. (Submitted under FG-5100 Storefront Systems)

   along with marked-up drawings and installation diagram of Aluminum Storefront, prepared by Architectural Testing, Test Report No. ATI-A1052.01-801-18, ATI-8918.01-401-18, ATI-8611.01-401.18, ATI-86107.01-401.18 and ATI-74785.02-401.18, all signed and sealed by Joseph A. Reed, P. E. (REF test reports per TAS 201, 202 & 203-94, submitted under FG-5000 Storefront Systems)


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 16-1213.02
Expiration Date: May 18, 2022
Approval Date: May 18, 2017

E - 1
C. TEST (continue):
   4) REF Test reports on:
      1) Air Infiltration Test, per FBC, TAS 202–94
      2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202–94
      3) Water Resistance Test, per FBC, TAS 202–94
      4) Large Missile Impact Test, per FBC, TAS 201–94
      5) Cyclic Wind Pressure Loading, per FBC, TAS 203–94

   along with marked-up drawings and installation diagram of Captured Curtain Wall System,
   prepared by Architectural Testing, Test Report No. ATITX-A4707.01-801-18 and ATITX-A4707.01-801-18
   signed and sealed by Shawn Collins, P.E. and Joseph A. Reed, P.E., respectively.

   along with marked-up drawings and installation diagram of Captured Curtain Wall System,
   prepared by Hurricane Testing, Test Report No. HTL-0105–0117.05 and HTL-0105–0903.08
   signed and sealed by Vinu Abraham, P.E. (REF test reports per TAS 201, 202 & 203-94,
   submitted under HR-251 C.W. Systems).

   5) Additional Test reports on:
      1) Air Infiltration Test, per FBC, TAS 202–94
      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, TAS 202-94

   Along with marked-up drawings and installation diagram of double doors w/ Regent CVR panic
   Devices, prepared by Architectural Testing, Test Report No. C0344.01-450-18, dated 06/13/12,
   signed and sealed by Vinu Abraham, P.E. (Submitted under files # 12-0926.05)

   along with marked-up drawings and installation diagram of aluminum medium stile entrance
doors, prepared by Architectural Testing, Inc., Test Report No. ATI-89818.01–401–18, dated
   11/18/08 and 06/26/09, both signed and sealed by Joseph A. Reed, P.E.

   along with marked-up drawings and installation diagram of aluminum double entrance doors,
   prepared by Construction Consulting Lab Intl., Test Report No. CCLI-14-128, dated 09/30/14
   reviewed, signed and sealed by Abdol Rezadad, P.E.

D. CALCULATIONS
   1. Anchor verification, structural & comparative analysis calculations, complying w/ FBC 2014
      (5th edition) dated 01/22/13, prepared by Tilteco, Inc., dated 12/09/16 and last revised on
      05/03/17, signed and sealed by Walter A. Tillit Jr., P.E.

   2. Glazing complies with ASTM E1300–02, -04 & -09.

E. QUALITY ASSURANCE
   1. Miami Dade Department of Regulatory and Economic Resources (RER).
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. MATERIAL CERTIFICATIONS
1. Notice of Acceptance No. 14-0423.15, issued to Eastman Chemical Company (MA), for their “Saflex CP” Saflex and Saflex HP Composite Glass Interlayer w/ PET Core”, expiring on 11/11/18.
2. Notice of Acceptance No. 14-0423.16, issued to Eastman Chemical Company (MA), for their “Saflex HP” Clear & color Glass Interlayer”, expiring on 04/14/18
3. Notice of Acceptance No. 15-1201.11, issued to Eastman Chemical Company (MA), for their “Saflex clear & color Glass Interlayer”, expiring on 05/21/21.

G. STATEMENTS (Except item #1, all other documents submitted under previous referenced files below)
1. Statement letters dated 12/07/16 of conformance to FBC2014 (5th Edition) and “No financial interest”, prepared by Tiltec Inc., signed and sealed by Walter A. Tillit, Jr., P. E.
2. Statement letter dated OCT. 19, 2010 of name change due to Merger from Oldcastle Engineered Products to Oldcastle Building Envelope, Inc., issued by Oldcastle Building Envelope, signed by Ms. Jacqueline D. Butler, Corporate Paralegal/ Legal Assistant (Submitted under file # 10–1214.16)
3. Asset transfer agreement, dated April 20, 2010, signed by Mr. James Avanzini, Present of Oldcastle Glass Engineered Products, Inc. (Submitted under file # 10–1214.16)
4. Asset sale agreement dated June 29, 2007 by Oldcastle Glass Engineered Products, Inc. dba Oldcastle Windows, Inc. and Vistawall Architectural Products division of Butler MFR. Products, Moduline Windows, Inc., signed by Mr. Adam J. Newman, Vice President of Oldcastle Glass Engineered Products and Mr. Daipayan (Deep) Bhattacharya, Vice President of Vistawall Architectural Product (Submitted under file # 09 –1228.01)
5. Notarized statement letter dated 03/05/10, issued by Oldcastle Glass, certifying that Oldcastle Glass Engineered Products, Inc. (Former Oldcastle Window Inc) has purchased Vistawall, a Div. of Butler Manufacturing Products, signed by Mollie Hines, Vice President & Secretary of Oldcastle Glass. (Submitted under file # 09 –1228.01)
6. Laboratories compliance letters, part of above referenced test reports.

H. OTHER
1. Catalog and Brochures of various Hardware.
2. The previous NOA(s) associated with this door files are NOA #12-0926.05, #10–1214.16 (Oldcastle Building Envelope, Inc.), #09 –1228.01 (Oldcastle Engineered Products, Inc.) and #04–0209.03 (Vista wall Architectural Products Inc.).

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 16-1213.02
Expiration Date: May 18, 2022
Approval Date: May 18, 2017
SERIES MSD-375 (MEDIUM) & WSD-500 (WIDE) STILE OUT SWING ALUMINUM ENTRANCE DOORS
W/ LARGE & SMALL MISSILE IMPACT RESISTANT GLASS

GENERAL NOTES:

1. ALUMINUM ENTRANCE DOOR SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014 (2ND EDITION) OF THE FLORIDA BUILDING CODE. PRODUCT MAY BE INSTALLED WITHIN HIGH VELOCITY HURRICANE ZONES (HVHZ).

2. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 (HVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT IS TO BE INSTALLED. THE DIRECTIVITY FACTOR OF 0.55, USING ASCE 7-10 IS NOT TO EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATING INDICATED ON THE SCHEDULE.

3. IN ORDER TO VERIFY THE ABOVE CONDITION, DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.8 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THE SCHEDULE.

4. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D. AS TESTED, WERE NOT OVERSTRESSED, A 3% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.S.S. 2012.

5. THIS PRODUCT WILL NOT REQUIRE A HURRICANE PROTECTION DEVICE.

6. THIS PRODUCT IS NOT APPROVED FOR WATER INFECTION.

7. PROVIDE 1/4" MAX. LOAD BEARING SHIM (TYP.), WHEN ALLOWED BY THIS DRAWING.

8. ALL SCREWS USED FOR ASSEMBLY CONNECTIONS (METAL TO METAL) TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OF CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50916 AND SECTION 2411.3.3.4 OF THE FLORIDA BUILDING CODE WITH 50 km/h VELOCITY AND 90 km/h VELOCITY TENSION.

9. WOOD BLOCKS BY OTHERS MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE BUILDING STRUCTURE. WOOD BLOCKS MUST BE SOUTHERN PINE, GRADE C, AND SHALL COMPLY WITH SECTIONS 2411.3.3.3 & 2326 OF THE FLORIDA BUILDING CODE.


11. SHED DRAWINGS PREPARED BASED ON THIS APPROVAL AND TAKING INTO ACCOUNT THE SPECIFIC JOB CONDITIONS, SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AS PART OF THE PERMIT DOCUMENTS.

12. SUBSTRATE MATERIAL NOTED ON THIS DRAWING AS EXISTING BY OTHERS, Poured CONCRETE, GROUT FILLED CONCRETE BLOCK AND WOOD MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.

13. THIS PRODUCT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PRODUCED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

14. THIS P.A.D. PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, WHERE THE SITE CONDITIONS DEPART FROM THE P.A.D.

15. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT. BASED ON THIS P.A.D., PROVIDED ELECTRODE CONCRETE BLOCK AND WOOD MUST WITHSTAND THE LOADS IMPOSED BY THIS PRODUCT.

16. THIS DOCUMENT'S INSTALLATION SHALL COMPLY WITH ALL SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PRODUCED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.

17. THIS P.A.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

18. SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DILIGENT ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LETTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

19. ORIGINAL P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

20. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

**LIMITATIONS SCHEDULE**

<table>
<thead>
<tr>
<th>SERIES MSD-375 &amp; WSD-500 ALUMINUM ENTRANCE DOORS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SIZES</strong></td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>COMPONENTS</td>
</tr>
<tr>
<td>BILL OF MATERIALS</td>
</tr>
<tr>
<td>HARDWARE SCHEDULE</td>
</tr>
<tr>
<td>GLASS TYPE</td>
</tr>
<tr>
<td>PANIC DEVICE</td>
</tr>
<tr>
<td>TRANSOM</td>
</tr>
<tr>
<td>DOOR CORNER DETAIL</td>
</tr>
<tr>
<td>ASSEMBLY DETAILS</td>
</tr>
<tr>
<td>ANCHORS</td>
</tr>
<tr>
<td>DOOR JAMB MILLIONS</td>
</tr>
</tbody>
</table>

**THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA**
SERIES MSD-375 & WSD-500 ALUMINUM MEDIUM & WIDE STILE ENTRANCE DOORS
(WET GLAZED) COMPONENTS

14. THRESHOLD
Th-57

24. LG. DRY GLAZING
GASKET
FG-1133

20. LG. GLAZING
GASKET
V-28

21. SPACER GASKET
FG-5188

24. LG. GLAZING
GASKET
V-28

20. LG. DRY GLAZING
GASKET
FG-1133

24. LG. GLAZING
GASKET
V-28

21. SPACER GASKET
FG-5188

63. Door stop/weathering
D-1155

36. Setting block
HP-17

33. Door frame
D-120

71. Glass stop
FG-5180

64. Transom sash
FG-5181

65. Transom glass stop
FG-5182

61. Door stop/weathering
D-1155

36. Setting block
HP-17

33. Door frame
D-120

71. Glass stop
FG-5180

64. Transom sash
FG-5181

65. Transom glass stop
FG-5182

41. LG. setting block
PP-1 FG-5000

42. LG. setting block
D-133

43. Door sweep
D-120

58. Glass stop
FG-5180

59. Transom glass stop
FG-5182

41. LG. setting block
PP-1 FG-5000

42. LG. setting block
D-133

43. Door sweep
D-120

58. Glass stop
FG-5180

59. Transom glass stop
FG-5182

41. LG. setting block
PP-1 FG-5000

42. LG. setting block
D-133

43. Door sweep
D-120

58. Glass stop
FG-5180

59. Transom glass stop
FG-5182

68. Active meeting
MDP STILE WPS-500

69. Inactive meeting
MDP STILE WPS-500

77. Wide stile
WPS-500

D-13
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>DIMENSIONS</th>
<th>MATERIAL</th>
<th>MANUFACTURER</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>AS-5</td>
<td>ADJUSTABLE ASTRAGAL ASSEMBLY</td>
<td>.331&quot; X 1.562&quot; X .076&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td>4.437&quot; LONG</td>
</tr>
<tr>
<td>2.</td>
<td>CB-21</td>
<td>CORNER BLOCK</td>
<td>2.130&quot; X 1.44&quot; X .25&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td>8&quot; LONG</td>
</tr>
<tr>
<td>3.</td>
<td>CB-38</td>
<td>DOOR CORNER BLOCK</td>
<td>2.130&quot; X 1.44&quot; X .25&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td>1.227 LONG</td>
</tr>
<tr>
<td>4.</td>
<td>CB-66</td>
<td>DOOR CORNER BLOCK</td>
<td>2.130&quot; X 1.44&quot; X .25&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td>8&quot; LONG</td>
</tr>
<tr>
<td>4A</td>
<td>CF-71</td>
<td>DOOR CORNER BLOCK</td>
<td>2.130&quot; X 1.44&quot; X .25&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td>6&quot; LONG AT 3&quot;-6&quot; X 8'-0&quot; &amp; 7'-0&quot; X 8'-0&quot; DOORS</td>
</tr>
<tr>
<td>5.</td>
<td>D-6</td>
<td>MEDIUM STILE MS-375</td>
<td>3.75&quot; X 1.75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>D-21</td>
<td>HORIZONTAL MID-RAIL/RAIL</td>
<td>6.50&quot; X 1.75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>D-24</td>
<td>INACTIVE MIDDLE MIDDLE STILE MS-375</td>
<td>3.75&quot; X 1.75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>D-38</td>
<td>TOP RAIL</td>
<td>3.00&quot; X 1.75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>D-62</td>
<td>MID-RAIL ADAPTER</td>
<td>1.429&quot; X 1.552&quot; X .062&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>D-69</td>
<td>ACTIVE MIDDLE MIDDLE STILE MS-375</td>
<td>3.614&quot; X 1.75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>D-61</td>
<td>10&quot; A.D.A. BOTTOM RAIL</td>
<td>10.00&quot; X 1.71&quot; X .025&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>11A</td>
<td>D-71</td>
<td>8&quot; BOTTOM RAIL</td>
<td>8.00&quot; X 1.71&quot; X .025&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td>AT 3&quot;-6&quot; X 8'-0&quot; &amp; 7'-0&quot; X 8'-0&quot; DOORS</td>
</tr>
<tr>
<td>12.</td>
<td>D-110</td>
<td>DOOR BOTTOM RAIL, SWEEP ASSEMBLY</td>
<td>.312&quot; X .302&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td>CUT TO DOOR WIDTH MINUS 5/8&quot;</td>
</tr>
<tr>
<td>13.</td>
<td>D-134-3</td>
<td>PANIC DOOR STOP</td>
<td>.344&quot; X 1.484&quot; X .300&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>14.</td>
<td>D-152</td>
<td>SCREW ATTACHED DOOR GLASS STOP</td>
<td>1.00&quot; X .762&quot; X .025&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>15.</td>
<td>FG-5296</td>
<td>HEAD HORIZONTAL/TRANSOM HEADER</td>
<td>2.50&quot; X 4.900&quot; X .080&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td>ATTACH W/ 3/8&quot; OD ON CENTER</td>
</tr>
<tr>
<td>15A</td>
<td>FG-5294</td>
<td>HEAD HORIZONTAL/TRANSOM HEADER</td>
<td>2.50&quot; X 4.900&quot; X .080&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td>FOR FG-5000 SYSTEMS, AT 3&quot;-6&quot; X 8'-0&quot; &amp; 7'-0&quot; X 8'-0&quot; DOORS</td>
</tr>
<tr>
<td>16.</td>
<td>FG-5133</td>
<td>HEAD FILLER</td>
<td>1.00&quot; X 1.059&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>17.</td>
<td>FG-5163</td>
<td>SNAP-IN DOOR STOP</td>
<td>.746&quot; X 1.167&quot; X .080&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>18.</td>
<td>FG-5167</td>
<td>FLAT FILLER</td>
<td>.778&quot; X 1.466&quot; X .080&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td>RUNS FULL LENGTH</td>
</tr>
<tr>
<td>20.</td>
<td>FG-5168</td>
<td>DOOR JAMB &amp; FG-5000, FG-5000 &amp; FG-5000T</td>
<td>2.50&quot; X 5.00&quot; X .125&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>21.</td>
<td>FG-5198</td>
<td>TRANSOM SASH</td>
<td>1.00&quot; X 1.948&quot; X .062&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>22.</td>
<td>FG-5197</td>
<td>DOOR HEADER/TRANSOM BAR</td>
<td>2.50&quot; X 4.900&quot; X .080&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>23.</td>
<td>S-83</td>
<td>SNAP-IN DOOR LAMINATED GLASS STOP</td>
<td>.912&quot; X 1.762&quot; X .070&quot;</td>
<td>6063-T6 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>23A</td>
<td>S-91</td>
<td>SNAP-IN DOOR INSULATED GLASS STOP</td>
<td>.741&quot; X .75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>23B</td>
<td>S-92</td>
<td>SNAP-IN DOOR INSULATED GLASS STOP</td>
<td>.741&quot; X .75&quot; X .025&quot;</td>
<td>6063-T5 ALUMINUM</td>
<td>OBE</td>
<td></td>
</tr>
<tr>
<td>25.</td>
<td>D-123</td>
<td>DOOR STOP WEATHERING</td>
<td>.125&quot; SPACE</td>
<td>SANTOTRENHE UNIVERSAL RUBBER</td>
<td>76 DIAMETER, USE AT LAMINATED GLASS</td>
<td></td>
</tr>
<tr>
<td>25A</td>
<td>FG-1133</td>
<td>GLAZING GASKET</td>
<td>.197&quot; SPACE</td>
<td>EPDM</td>
<td>VARIOUS</td>
<td>76 DIAMETER, USE AT LAMINATED GLASS</td>
</tr>
<tr>
<td>26A</td>
<td>FG-5239</td>
<td>GLAZING GASKET</td>
<td>.30&quot; X .282&quot;</td>
<td>VINYL</td>
<td>VARIOUS</td>
<td>USE AT INSULATED GLASS</td>
</tr>
<tr>
<td>27.</td>
<td>FS-2</td>
<td>ATTACH D-118 SWEEP TO DOOR BOTTOM</td>
<td>#0 X 3/8&quot;</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>28.</td>
<td>FS-7</td>
<td>ATTACH RAILS TO CORNER BLOCKS</td>
<td>#10 X 3/8&quot; PFH</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>29.</td>
<td>FS-8</td>
<td>SPLINE ASSEMBLY SCREW</td>
<td>#14 X 1&quot; FHST</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>30.</td>
<td>FS-94</td>
<td>ATTACH TO 1/2&quot; TO DOOR</td>
<td>#0 X 3/8&quot;</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>31.</td>
<td>SM-5001</td>
<td>JOINT SEALANT TAPE</td>
<td>1.25&quot; X 5&quot; VARIOUS</td>
<td>BUTYL</td>
<td>SCHNEE-MAIDENHE</td>
<td></td>
</tr>
<tr>
<td>32.</td>
<td>WP-065</td>
<td>ADJUSTABLE ASTRAGAL WEATHERING</td>
<td>VARIOUS SPACE</td>
<td>WIDEL PILE</td>
<td>SCHLEDEL</td>
<td></td>
</tr>
<tr>
<td>33.</td>
<td>FS-56</td>
<td>ATTACH D-134-3 PANIC STOP</td>
<td>#12 X 3/4&quot;</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>34.</td>
<td>FS-49</td>
<td>ADJUSTABLE ASTRAGAL SCREW</td>
<td>#8 X 1.0&quot; PHOSPH</td>
<td>STEEL</td>
<td>VARIOUS</td>
<td></td>
</tr>
<tr>
<td>35.</td>
<td>FG-5108</td>
<td>SPACER GASKET</td>
<td>.25&quot; X .25&quot;</td>
<td>EPDM</td>
<td>VARIOUS</td>
<td>95 DIAMETER</td>
</tr>
<tr>
<td>36.</td>
<td>HP-17</td>
<td>SETTING BLOCK</td>
<td>1.316&quot; X 2.5&quot; X 4&quot; LONG</td>
<td>EPDM</td>
<td>VARIOUS</td>
<td>90 DIAMETER</td>
</tr>
<tr>
<td>36A</td>
<td>FG-5239</td>
<td>SETTING BLOCK</td>
<td>.634&quot; X .642&quot; X 4&quot; LONG</td>
<td>EPDM</td>
<td>VARIOUS</td>
<td>95 DIAMETER</td>
</tr>
<tr>
<td>ITEM NO.</td>
<td>PART NUMBER</td>
<td>DESCRIPTION</td>
<td>DIMENSIONS</td>
<td>MATERIAL</td>
<td>MANUFACTURER</td>
<td>NOTES</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>-------------</td>
<td>------------</td>
<td>----------</td>
<td>--------------</td>
<td>-------</td>
</tr>
<tr>
<td>37</td>
<td>995</td>
<td>SEALANT</td>
<td>FULL SPACE</td>
<td>SILICONE</td>
<td>BOW CORNING 995</td>
<td>USE FOR UP TO +70, -60 psf, ASD PRESSURE RATING</td>
</tr>
<tr>
<td>37A</td>
<td>995</td>
<td>SEALANT</td>
<td>FULL SPACE</td>
<td>TRENCO</td>
<td>VULKEM</td>
<td>USE FOR UP TO +70, -70 psf, ASD PRESSURE RATING</td>
</tr>
<tr>
<td>38</td>
<td>995</td>
<td>SEALANT</td>
<td>FULL SPACE</td>
<td>POLYURETHANE</td>
<td>VULKEM</td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>FG-5000-P4</td>
<td>ATTACH CORNER BLOCK TO STILES</td>
<td>1/4&quot; x 1 1/2&quot; x 4&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td></td>
</tr>
<tr>
<td>41A</td>
<td>1-129</td>
<td>SETTING BLOCK</td>
<td>1/8&quot; x 1/8&quot; x 3&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>FG-5172</td>
<td>DOOR HEADER-OFFSET ARM</td>
<td>2 5/8&quot; x 4.98&quot; x 13.5&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>42A</td>
<td>FG-5205</td>
<td>DOOR HEADER/TRIMBAR</td>
<td>2 5/8&quot; x 4.98&quot; x 13.5&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>43</td>
<td>R-104</td>
<td>OFFSET ARM COVER</td>
<td>1 1/8&quot; x 6&quot; x 0.04&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>995</td>
<td>FASTENER</td>
<td>1/4&quot; x 2&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td>SINGLE HOOK 1 EA 6&quot; FROM LOCK STILE PAIR OF 2ND 1 EA 6&quot; EACH SIDE OF BR.C/L</td>
</tr>
<tr>
<td>45</td>
<td>R-120</td>
<td>DOOR WEATHERING STRIP</td>
<td>VARIABLE SPACE</td>
<td>VINYL</td>
<td>VARYES</td>
<td>DOOR WIDTH MINUS 5/8&quot;</td>
</tr>
<tr>
<td>46</td>
<td>FG-5000-P5</td>
<td>SPACER GASKET</td>
<td>2 5/8&quot; x 4.98&quot; x 13.5&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>FOR FG-5000 SYSTEMS, AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>50</td>
<td>FG-5168</td>
<td>TRANSOM SASH</td>
<td>1 1/4&quot; x 2.94&quot; x 0.06&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>FG-5172</td>
<td>ATTACH SC-1 CLIP</td>
<td>1&quot; x 1/2&quot; x 1/4&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td>9&quot; G.C.</td>
</tr>
<tr>
<td>52</td>
<td>FG-5603</td>
<td>TRANSOM GLASS</td>
<td>1 1/4&quot; x 2'</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>53</td>
<td>FG-5603</td>
<td>DOOR STOP</td>
<td>1 1/2&quot; x 1 1/2&quot; x 0.04&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USES SC-1 CLIP</td>
</tr>
<tr>
<td>57</td>
<td>FG-5000-P9</td>
<td>BULB GASKET FOR FILLER</td>
<td>VARIOUS</td>
<td>FOAM</td>
<td>VARYES</td>
<td>ANCHOR</td>
</tr>
<tr>
<td>58</td>
<td>FS-38</td>
<td>ATTACH STL. REINFORCEMENT</td>
<td>1 1/4&quot; x 1/2&quot; x 4&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td>FULL LENGTH OF HULL COAT RICH PRIMER</td>
</tr>
<tr>
<td>59</td>
<td>SC-1</td>
<td>STAINLESS STEEL CLIP</td>
<td>2 1/8&quot; x 6.98&quot; x 1/8&quot;</td>
<td>STEEL</td>
<td>VARYES</td>
<td>9&quot; G.C.</td>
</tr>
<tr>
<td>60</td>
<td>FG-5000-P17</td>
<td>ANCHOR PLATE</td>
<td>1 1/8&quot; x 4.98&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USED # 22</td>
</tr>
<tr>
<td>62</td>
<td>FG-5000-P19</td>
<td>ANCHOR PLATE</td>
<td>1 1/8&quot; x 4.98&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USED # 24</td>
</tr>
<tr>
<td>63</td>
<td>FG-5000-P28</td>
<td>ANCHOR PLATE</td>
<td>2 5/8&quot; x 4.98&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USED # 22</td>
</tr>
<tr>
<td>64</td>
<td>D-243-01</td>
<td>STYLE REINFORCEMENT SLEEVE</td>
<td>3 3/8&quot; x 14.0&quot; x 0.05&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USES AT DOOR STYLE SILL WITH RECENT HARDWARE AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>65</td>
<td>D-244-01</td>
<td>STYLE REINFORCEMENT SLEEVE</td>
<td>3 3/8&quot; x 14.0&quot; x 0.05&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USES AT DOOR STYLE SILL WITH RECENT HARDWARE AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>66</td>
<td>D-247-01</td>
<td>STYLE REINFORCEMENT SLEEVE</td>
<td>3 3/8&quot; x 14.0&quot; x 0.05&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>USES AT DOOR STYLE SILL WITH RECENT HARDWARE AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>67</td>
<td>D-13</td>
<td>WIDE STYLE VS-500</td>
<td>5 3/4&quot; x 1 1/2&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>D-25</td>
<td>INACTIVE MEETING WIDE STYLE VS-500</td>
<td>5 3/4&quot; x 1 1/2&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>D-70</td>
<td>ACTIVE MEETING WIDE STYLE VS-500</td>
<td>5 3/4&quot; x 1 1/2&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>FG-5016</td>
<td>POCKET FILLER FOR FG-5000</td>
<td>4 6/8&quot; x 1.392&quot; x 0.08&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>FG-5179</td>
<td>POCKET FILLER FOR FG-5000</td>
<td>4 6/8&quot; x 1.392&quot; x 0.08&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>FG-5017</td>
<td>POCKET FILLER FOR FG-5000</td>
<td>4 6/8&quot; x 1.392&quot; x 0.08&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>FG-5018</td>
<td>HEAD/TRIMBAR</td>
<td>2 5/8&quot; x 4.98&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>FOR FG-5100/70/5100ST SYSTEMS, AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>74</td>
<td>FG-5177</td>
<td>GLASS STOP</td>
<td>1 1/16&quot; x 4 1/8&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td>FOR FG-5100/70/5100ST SYSTEMS, AT 3'-6&quot;x8'-0&quot; &amp; 7'-6&quot;x8'-0&quot; DOORS</td>
</tr>
<tr>
<td>75</td>
<td>H-6.5</td>
<td>INSULATING GLASS UNIT SPACER</td>
<td>1/4&quot; x 3/8&quot; x 1/4&quot;</td>
<td>ALUMINUM</td>
<td>DIBE</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: ITEMS # 48, 49, 54, 55 and 64 ARE NOT PART OF THE BILL OF MATERIALS.
<table>
<thead>
<tr>
<th>HARDWARE TYPE</th>
<th>HARDWARE MODEL AND DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MAX. DESIGN PRESSURE</th>
<th>MAX. DOOR SIZE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-POINT LOCK</td>
<td>MS 1859 DEADLATCH AT 29&quot; A.F.F. + 405</td>
<td>Adams Rite</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td>REQUIRES 1 3/8&quot; THROW AT THRESHOLD/HEADER BOLTS, INCLUDES SERIES MS 4000, 4001 &amp; 4002 DEAD LOCK STRIKES</td>
</tr>
<tr>
<td>RFID PANIC</td>
<td>EB4905 RFID PANIC W/ 650F31 STRIKE</td>
<td>Corbin Russwin</td>
<td>+60 / -60 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>2995 CONCEALED VERTICAL ROD PANIC W/ 30084 STRIKE PACKAGE (TOP &amp; BOTTOM)</td>
<td>Jackson</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>2965 CONCEALED VERTICAL ROD PANIC W/ 30-415 STRIKE PLATE W/ HUMP</td>
<td>Jackson</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>9779 CONCEALED VERTICAL ROD PANIC W/ 57-SH STRIKE (TOP &amp; BOTTOM)</td>
<td>Regent</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td>ONLY ALLOWED TO BE USED FOR MEDIUM STYLES 5, 7 &amp; 8</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>8410 CONCEALED VERTICAL ROD PANIC W/ 640 STRIKE (TOP &amp; BOTTOM)</td>
<td>Sargent</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>RFID PANIC</td>
<td>AD8550 RFID PANIC W/ 657 STRIKE</td>
<td>Sargent</td>
<td>+60 / -60 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>SURFACE PANIC</td>
<td>1997 SURFACE PANIC VERTICAL ROD W/ 299 STRIKE (AT TOP), 594-1 STRIKE (AT BOTTOM W/ 1/2 STRIKE, GRADED INTO FLOOR)</td>
<td>Von Duprin</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>9947 CONCEALED VERTICAL ROD PANIC W/ 3318 (AT TOP) &amp; 3800 (AT BOTTOM)</td>
<td>Von Duprin</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>SURFACE CLOSER</td>
<td>MODEL VARES BY MANUFACTURER</td>
<td>VARES</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CONCEALED CLOSER</td>
<td>21-21 HYD DURY W/DIST SET SWING ARM</td>
<td>Jackson</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>BUTT HINGES 4&quot; X 4 1/2&quot;</td>
<td>4056 BALL BEARING STAINLESS STEEL</td>
<td>Regent</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td>(2) PER DOOR LEAF</td>
</tr>
<tr>
<td>BUTT HINGES 4&quot; X 4 1/2&quot;</td>
<td>4061 BALL BEARING STAINLESS</td>
<td>MC Kenney</td>
<td>+50 / -60 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td>(2) PER DOOR LEAF</td>
</tr>
<tr>
<td>PULL HANDLES</td>
<td>PH-20 FORMED ALUMINUM OR SIMILAR</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PRESS BARS</td>
<td>PB-21 FORMED ALUMINUM OR SIMILAR</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-1 LOCK CYLINDER</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>KEY CONTROL</td>
<td>101 KEY CONTROL FOR SARGENT</td>
<td>Sargent</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>THUMB TURN</td>
<td>LT-3</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-5 FOR VON DUPRIN DEVICES</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>LOCK INDICATOR</td>
<td>AR-4589 OPTIONAL DEVICE</td>
<td>Adams Rite</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>PANIC STOP</td>
<td>D-134-2 LOCATED AT THRESHOLD</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>TH-57 COMPONENT (2)</td>
<td>DBC</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>DOOR BOTTOM SWEET</td>
<td>D-118 / D120</td>
<td>DBC</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>TOP PIVOTS</td>
<td>UP-6 / UP-7</td>
<td>DBC</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>INTERMEDIATE PIVOTS</td>
<td>M-19</td>
<td>Roken</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>BOTTOM PIVOTS</td>
<td>OP-9 / OP-10</td>
<td>DBC</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>CONT. GEAR Hinge</td>
<td>790-224 HD CONTINUOUS GEAR Hinges</td>
<td>Moton</td>
<td>+70 / -90 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>TH-43</td>
<td>DBC</td>
<td>+70 / -80 PSF</td>
<td>3-6&quot; x 8'-0&quot;</td>
<td></td>
</tr>
<tr>
<td>HARDWARE TYPE</td>
<td>HARDWARE MODEL AND DESCRIPTION</td>
<td>MANUFACTURER</td>
<td>MAX. DESIGN PRESSURE</td>
<td>MAX. DOOR SIZE</td>
<td>NOTES</td>
</tr>
<tr>
<td>------------------------</td>
<td>---------------------------------------------------------------------</td>
<td>--------------</td>
<td>----------------------</td>
<td>----------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>3-POINT LOCK</td>
<td>MS 1800 DEADLATCH AT 39&quot; A.F.F. + 4815 THRESHOLD BOLT + 4616 HEADER BOLT</td>
<td>Adams Rite</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>ACTIVE DOOR REQUIRES 1 3/8&quot; THROW AT THRESHOLD-BEARER BELTS. INCLUDES SERIES MS 4000, 4002 &amp; 4002 DEAD LATCH STRIKES.</td>
</tr>
<tr>
<td>FLUSH BOLTS</td>
<td>FB-120-VRM TOP &amp; BOTTOM-STEEL TIPS</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>INACTIVE DOOR</td>
</tr>
<tr>
<td>RIM PANIC</td>
<td>CPX2805 RIM PANIC W/ 65003 STRIKE</td>
<td>Corbin Russwin</td>
<td>±60 / -60 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>REMOVABLE MULLION</td>
<td>W2708RRM REMOVABLE MULLION</td>
<td>Corbin Russwin</td>
<td>±60 / -60 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>1282 CONCEALED VERTICAL ROD PANIC W/ 38180 STRIKE PACKAGE (TOP &amp; BOTTOM)</td>
<td>Jackson</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>ONLY ALLOWED TO USE FOR MEDIUM STEEL V. &amp; V.</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>2286 CONCEALED VERTICAL ROD PANIC W/ 38-413 STRIKE PLATE W/ HUMP</td>
<td>Jackson</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>5779 CONCEALED VERTICAL ROD PANIC W/ 27-540 STRIKE (TOP &amp; BOTTOM)</td>
<td>Regent</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>8410 CONCEALED VERTICAL ROD PANIC W/ 640 STRIKE (TOP &amp; BOTTOM)</td>
<td>Sargent</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>RIM PANIC</td>
<td>AR8500 RIM PANIC W/ 657 STRIKE</td>
<td>Sargent</td>
<td>±60 / -60 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>V. &amp; V.</td>
</tr>
<tr>
<td>REMOVABLE MULLION</td>
<td>HC L980 REMOVABLE MULLION W/ 650 STRIKE</td>
<td>Corbin Russwin</td>
<td>±60 / -60 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>SURFACE PANIC</td>
<td>9527 SURFACE PANIC VERTICAL ROD W/ 259 STRIKE (TOP &amp; BOTTOM) W/ 38180 STRIKE PLATE W/ HUMP</td>
<td>VON Duprin</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>CONCEALED PANIC</td>
<td>9447 CONCEALED VERTICAL ROD PANIC W/ 380080 STRIKE PACKAGE (TOP &amp; BOTTOM)</td>
<td>VON Duprin</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>TO BE USED WITH CPX2805 RIM DEVICE EXCLUSIVELY</td>
</tr>
<tr>
<td>CONCEALED CLOSER</td>
<td>MODEL VARIIES BY MANUFACTURER</td>
<td>Varies</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CONCEALED CLOSER</td>
<td>221-21 HVT 8FT SWING ARM W/ TOP RAIL 8FT SWING ARM</td>
<td>Jackson</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>BUTT HINGES 4&quot; x 4 1/2&quot;</td>
<td>4600 BALL BEARING STAINLESS STEEL</td>
<td>Regent</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>(3) PER DOOR LEAF</td>
</tr>
<tr>
<td>PULL HANDLES</td>
<td>PH-20 FORGED ALUMINUM</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PUSH BARRES</td>
<td>PB-21 FORGED ALUMINUM</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-12 LATCH CYLINDER</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>KEY CONTROL</td>
<td>606 KEY CONTROL FOR SARGENT</td>
<td>Sargent</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>THUMB TURN</td>
<td>CY-3</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-5 FOR VON DURAN DEVICES</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LOCK INDICATOR</td>
<td>AR-4809 OPTIONAL DEVICES</td>
<td>Adams Rite</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PANIC STOP</td>
<td>D-134-8 LOCATED AT THRESHOLD</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>TH-57 COMPONENT 4</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>DECK BOTTOM SWEEP</td>
<td>D-119 / D20</td>
<td>Omne</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>TOP PIVOTS</td>
<td>DP-6 / DP-7</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>INTERMEDIATE PIVOTS</td>
<td>H-19</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>BOTTOM PIVOTS</td>
<td>DP-9 / DP-10</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>CONT. GEAR HINGES</td>
<td>78D-224 HS CONTINUOUS GEAR HINGES</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>TH-43</td>
<td>Omne</td>
<td>±70 / -80 PSF</td>
<td>7'-0&quot; x 9'-0&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>
REMOVABLE MULLION ASSEMBLY DETAILS FOR SARGENT & CORBIN RUSSWIN EXIT DEVICES:
MAX. A.S.D DESIGN PRESSURE RATING IS +60, -60 psf. FOR THESE EXIT DEVICES
TO BE USED ONLY AT 3'-6"x8'-0" SINGLE OR 7'-0"x8'-0" PAIR OF DOORS

(4) 1/4"-20 X 5/8" F.H. SAE GRADE 5 M.S. ON TAPPED HOLES

SARGENT 8500 NARROW RIM EXIT OR CORBIN RUSSWIN ED 4200S NARROW RIM EXIT

SARGENT HC 1980 REMOVABLE MULLION OR CORBIN RUSSWIN KRW 200 FWS REMOVABLE MULLION

MATERIALS:
MULLION BODY - CARBON STEEL
HOT ROLLED, WELDED SEAM
PER ASTM A500 GRADE B
FINISH: PRIME COAT RED PAINT
TOP & BOTTOM RETAINER - CAST IRON, PRIMED.

NOTES:
1. FRACTIONAL DIMENSION TOLERANCE 1/64".
2. OUTSIDE DIMENSIONS ARE MAX PART SIZE.
3. MOUNTING HOLES TO BE PREPARED AT INSTALLATION.
SECTION X-X
SARGENT HC L980 REMOVABLE MULLION OR CORBIN RUSSWIN KRW 200 FWS REMOVABLE MULLION DETAIL (PLAN)

REMOVABLE MULLION CONNECTION AT TOP: DETAIL 1 (PLAN)

REMOVABLE MULLION CONNECTION AT BOTTOM: DETAIL 2 (PLAN)
GENERIC CONCEALED VERTICAL ROD PANIC:
SCHEMATIC SECTIONS & ELEVATIONS. MAX. A.S.D. DESIGN PRESSURE
RATING IS +70, -80 psf. TO BE USED ONLY AT 3'6" x 8'-0" OR
7'-0" x 8'-0" PAIR OF DOORS.

SECTION X-X: CONCEALED VERTICAL ROD

CONCEALED VERTICAL ROD PANIC
SCHEMATIC INTERIOR ELEVATIONS

EXIT DEVICE CENTERCASE
PUSHBAR
ROD

EXTERIOR
5 (SHOWN) OR 67
7 (SHOWN) OR 69
10 (SHOWN) OR 68

TOP LATCH

FASTENERS (SEE SHEETS 17, 18, 19 & 28)

TOP ROD

EXIT DEVICE CENTERCASE

PUSHBAR

BOTTOM ROD

FASTENERS (SEE SHEETS 17, 18, 19 & 28)

BOTTOM LATCH

CONCEALED VERTICAL ROD
VERTICAL SECTION A-A
**TYPICAL GLAZING DETAILS AT 3'-6" X 8'-0" OR 7'-0" X 8'-0" (Max.) DOORS**

**GLASS TYPE 633**
- SOLE: 1/2" = 1"
- 3/4" MIN. GLASS BITE

**GLASS TYPE 632**
- 9/16" NOMINAL
- GLASS BITE
- 3/4" MIN. GLASS BITE

**GLASS TYPE 630**
- 9/16" NOMINAL
- GLASS BITE
- 3/4" MIN. GLASS BITE

**GLASS TYPE 619**
- 9/16" NOMINAL
- GLASS BITE
- 3/4" MIN. GLASS BITE

---

**GLASS SCHEDULE FOR 3'-6"x8'-0" OR 7'-0"x8'-0" DOORS**

<table>
<thead>
<tr>
<th>GLASS LABEL</th>
<th>GLASS COMPOSITION</th>
<th>INTERLAYER MANUFACTURER NAME</th>
<th>MINIMUM B.G.O.</th>
<th>MAX. ADD DESIGM PRESSURE RATING FOR GLASS (P.S.I.) W/ 0.25 GLAZING</th>
<th>MAX. ADD DESIGM PRESSURE RATING FOR GLASS (P.S.I.) W/ 0.50 GLAZING</th>
</tr>
</thead>
<tbody>
<tr>
<td>633</td>
<td>9/16&quot; NOMINAL THICKNESS LAMINATED GLASS CONSISTING OF ONE 1/4&quot; H.S. GLASS AND A 0.100&quot; SAFLEX PVF INTERLAYER</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>32 5/16&quot; W</td>
<td>+70, -80</td>
<td>+70, -70</td>
</tr>
<tr>
<td>633</td>
<td>9/16&quot; NOMINAL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4&quot; H.S. GLASS, AND A 0.100&quot; SAFLEX PVF INTERLAYER</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>32 3/16&quot; H</td>
<td>+70, -80</td>
<td>+70, -70</td>
</tr>
<tr>
<td>613</td>
<td>1&quot; NOMINAL THICKNESS LAMINATED GLASS CONSISTING OF 3/16&quot; TEMPERED GLASS ON 9/16&quot; SPAFLEX &amp; 3/16&quot; H.S. GLASS</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>32 0.014&quot;</td>
<td>+70, -70</td>
<td>+70, -70</td>
</tr>
</tbody>
</table>

---

APPLICABLE ALTERNATE DETAIL WITH DOOR LAMINATED GLASS STOPS REVERSED FOR ALL GLASS TYPES

---

TYPICAL DOOR GLASS SIZE: D.G.O. +1 1/2"

* SEE SCHEDULE ON SHEET 1, FOR MAX. ADD PRESSURE RATING WHEN SPECIFIC HARDWARE IS USED.
TYPICAL GLAZING DETAILS FOR TRANSOMS
VALID ONLY FOR 3'-6"x8'-0" & 7'-0"x8'-0" SINGLE/PAIR OF DOORS RESPECTIVELY

GLASS TYPE 63
SCALE: 1/2" = 1"

GLASS TYPE 634
SCALE: 1/2" = 1"

GLASS SCHEDULE FOR 3'-6"x8'-0" (MAX.) OR 7'-0"x8'-0" (MAX.) DOORS TRANSOMS

<table>
<thead>
<tr>
<th>GLASS LABEL</th>
<th>GLASS COMPOSITION</th>
<th>INTERLAYER MANUFACTURER NAME</th>
<th>MAXIMUM D.L.O.</th>
<th>MAX. ASD DESIGN PRESSURE RATING FOR GLASS (P.S.F) W/ 37 SILICONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>63</td>
<td>5/16&quot; NOMINAL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4&quot; H.S. GLASS, AND A 0.090&quot; SAFLEX PVB INTERLAYER</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>84 1/2&quot; W x 19 1/4&quot; H</td>
<td>+70, -80</td>
</tr>
<tr>
<td>634</td>
<td>1 5/16&quot; NOMINAL THICKNESS INSULATED LAMINATED GLASS CONSISTING OF TWO 1/4&quot; H.S. + 0.090&quot; SAFLEX PVB INTERLAYER + 1/4&quot; H.S.</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TYPICAL PANEL ELEVATIONS FOR MSD-375 & WSD-500 IMPACT 3'-6"x8'-0" OR 7'-0"x8'-0"
SINGLE/PAIR OF DOORS (WET GLAZED)

FOOT NOTES:
- FOR GLAZING DETAILS AND GLASS SCHEDULE SEE SHEET 9.
- FOR MAXIMUM DAYLIGHT OPENING (D.L.O.) SEE SCHEDULE ON SHEET 9.
- * SEE SCHEDULE ON SHEET 1 FOR LIMITATIONS ON MAX. A.S.D PRESSURE RATINGS, USABLE GLASS & HARDWARE.

FRAME WIDTH = PANEL WIDTH(S) + 5" 
FRAME HEIGHT = PANEL HEIGHT + 2 1/2"
DOOR'S TOP AND BOTTOM RAILS AND HORIZONTAL MID-RAIL DETAILS AT 3'-6"x8'-0" OR 7'-0"x8'-0" (MAX.) DOORS (SIDE VIEWS)

SCALE: 6" = 1'

* LAMINATED GLASS SHOWN. SEE GLAZING DETAIL FOR (G15) INSULATED GLASS ON SHEET 9.
DOOR'S HINGE/LOCK/METING STILES AND THRESHOLD CONNECTION DETAILS AT 3'-6"x8'-0" OR 7'-0"x8'-0" (MAX.) DOORS (PLAN VIEWS)

SCALE: 6" = 1'

4AA**
LOCK STILE AT SINGLE DOOR ONLY

4A**
SEE SCHEDULE ON SHEET 9

5A**
SEE SCHEDULE ON SHEET 9

STRUCTURAL FASTENER SEE PUMPER FASTENER CHARTS (SEE SHEETS 17, 18, 19)

METETING STILES & THRESHOLD CONNECTION

METETING STILES & THRESHOLD CONNECTION

HARDWARE NOT SHOWN FOR CLARTY; SEE SHEETS 6, 9A & 9B FOR ELEVATIONS & SECTIONS.

* DETAILS 4A AND 5A ARE ONLY REQUIRED AND APPLICABLE WHEN A REGENCY 7270 CONCEALED PIVOT DEVICE IS USED.
** LAMINATED GLASS SHOWN, SEE GLAZING DETAIL FOR INSULATING GLASS ON SHEET 9.
DOOR & DOOR JAMB MULLION ANCHORAGE TO CONCRETE (MIN. f'c=3ksi) & GROUT FILLED CONCRETE BLOCK
(VALID FOR 3'-6"x8'-0" & 7'-0"x8'-0" DOORS)

FASTENERS LEGEND
△ - AT HEADER
○ - AT JAMB
* - AT HEADER & JAMB
+ - AT THRESHOLD, JAMB & HEAD (CASE 1)
◊ - AT THRESHOLD (CASE 2)
□ - AT MULLION TOP (AT MULLION AT BOTTOM OR WALL INSIDE)
★ - AT MULLION THRESHOLD EDGE

FASTENERS TYPES AT △
(VALID FOR CONCRETE)
B - 3/8" POWER FASTENERS TAPPER ANCHOR
W/ 1 3/4" MIN. EMBLEMGT, W/ 4 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
C - 3/8" LOT ITW/RED HEAD SCREW ANCHOR
W/ 1 1/2" MIN. EMBLEMGT, W/ 3" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
D - 3/8" HLTI/HS H/S SCREW ANCHOR W/
2 1/2" MIN. EMB. W/ 5" MIN. ED. INTO Poured CONCRETE

FASTENERS TYPES AT ★
(VALID FOR GROUTED BLOCK)
B - 3/8" POWER FASTENERS TAPPER ANCHOR
W/ 1 3/4" MIN. EMBLEMGT, W/ 4 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
C - 3/8" LOT ITW/RED HEAD SCREW ANCHOR
W/ 1 1/2" MIN. EMBLEMGT, W/ 3" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
D - 3/8" HLTI/HS H/S SCREW ANCHOR W/
2 1/2" MIN. EMB. W/ 2 3/4" MIN. ED. INTO GROUT FILLED CONCRETE BLOCK.

FASTENERS TYPES AT ○
(VALID FOR CONCRETE)
F - 1/4" F.H. ELEC ULTRACON ANCHOR W/
1 3/4" MIN. EMBLEMGT, W/ 2 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.

FASTENERS TYPES AT ◊
(VALID FOR GROUTED BLOCK)
F - 1/4" F.H. ELEC ULTRACON ANCHOR W/
1 3/4" MIN. EMBLEMGT, W/ 2 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.

FASTENERS TYPES AT □
(VALID FOR CONCRETE)
A - 3/8" F.H. POWERS FASTENERS TAPPER
SCREW ANCHOR W/ 1 3/4" MIN. EMBLEMGT
INTO POURED CONCRETE (MIN. F'C = 3 KSI), W/ 4 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
C' - 3/8" LOT ITW/RED HEAD SCREW ANCHOR
W/ 3" MIN. EMBLEMGT, W/ 3" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.

FASTENERS TYPES AT ▼
(VALID FOR GROUTED BLOCK)
I - 3/8" F.H. POWERS FASTENERS TAPPER
SCREW ANCHOR W/ 1 3/4" MIN. EMBLEMGT
INTO POURED CONCRETE (MIN. F'C = 3 KSI), W/ 4 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL.
DOOR & DOOR JAMB MULLION ANCHORAGE TO MIN 1/8" THICK ASTM A-36 STEEL OR 10 GAGE (0.135") ASTM-653, GRADE 33 STEEL (VALID FOR 3'-6"x8'-0" & 7'-0"x8'-0" DOORS)

FASTENERS LEGEND

△: AT JAMB & HEADER

*: AT THRESHOLD, JAMB & HEAD (CASE 1)
AT THRESHOLD (CASE 2)

FASTENERS TYPES AT △

D: 3/8" x 1/2" H.J. TYPE "A" BOLT W/ 3/4" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL BOLT TO BE MIN. FULLY ENGAGED INTO PROFILE THICKNESS

FASTENERS TYPE AT *

G: 1/4" x 1/2" ELCO DRILL FLEX SELF DRILLING SCREWS W/ 1/2" MIN. EDGE DISTANCE, BEYOND ANY FINISH MATERIAL, FULLY ENGAGED INTO PROFILE THICKNESS
DOOR & DOOR JAMB MULLION ANCHORAGE TO WOOD (VALID FOR 3'-6"x8'-0" & 7'-0"x8'-0" DOORS)

FASTENERS LEGEND

△ : AT JAMB, HEADER AND AT DOOR JAMB MULLION (TOP/BOTTOM)

* : AT THRESHOLD, JAMB & HEAD (CASE 1), INTO SINGLE 2x4 BUCK
      AT THRESHOLD (CASE 2), INTO DOUBLE 2x4 BUCK

FASTENERS TYPE

A1 △
E: 3/4"L SDS SCREWS TO DOUBLE 2x4 BUCK (0.5") MIN PENETRATION INTO WOOD W/ 1 1/2" MIN EDGE DISTANCE, BEYOND ANY FINISH MATERIAL

A1 *
H: 1-1/2" ELBO ULTRACONS W 1 1/2" MIN PENETRATION INTO DOUBLE 2x4 BUCK W/ 1" MIN EDGE DISTANCE, BEYOND ANY FINISH MATERIAL

TYPICAL ELEVATIONS FOR DOOR ADJACENT TO EXISTING STRUCTURE, W/ ADD DESIGN PRESSURE
RATING GREATER THAN 79.35 psf, UP TO 70.50 psf

TYPICAL ELEVATIONS FOR DOOR ADJACENT TO FG-5000 & FG-5000A ALUMINIUM WINDOW WALL SYSTEM FRAMING

TYPICAL ELEVATIONS FOR DOOR ADJACENT TO FG-5000, FG-5000A & FG-5000B IN A SEPARATE APPROVAL
## HARDWARE SCHEDULE 4'-0" X 8'-0" (Max.) SINGLE MSD-375 & WSD-500 DOORS

<table>
<thead>
<tr>
<th>HARDWARE TYPE</th>
<th>HARDWARE MODEL AND DESCRIPTION</th>
<th>MANUFACTURER</th>
<th>MAX. DESIGN PRESSURE</th>
<th>MAX. DOOR SIZE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-POINT LOCK</td>
<td>MS USBD BEADLOCK AT 3&quot; A.F.F. + 4016 THRESHOLD BOLT + 4016 HEADER BOLT</td>
<td>ADAMS RITE</td>
<td>+70 / -70 PSF</td>
<td>4'-0&quot; X 8'-0&quot;</td>
<td>Requires 1 3/8&quot; THROW AT THRESHOLD/HEADER BOLTS. Includes Series MS 4000, 4001 &amp; 4006 BUD LOCK STRIKES</td>
</tr>
<tr>
<td>SURFACE CLOSER</td>
<td>MODEL VARIES BY MANUFACTURER</td>
<td>Varies</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CONCEALED CLOSER</td>
<td>21-211 HYD DUTY V/OFFSET SWING ARM</td>
<td>JACKSON</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>BUTT HINGES 4&quot; X 4 1/2&quot;</td>
<td>331299 BALL BEARING STAINLESS STEEL</td>
<td>HAGER</td>
<td>+70 / -70 PSF</td>
<td>4'-0&quot; X 8'-0&quot;</td>
<td>(4) PER DOOR LEAF</td>
</tr>
<tr>
<td>PULL HANDLES</td>
<td>PH-20 FORGED ALUMINUM</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PUSH BARS</td>
<td>PB-21 FORGED ALUMINUM</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-3 LOCK CYLINDER</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>KEY CONTROL</td>
<td>106 KEY CONTROL F/S SARGENT</td>
<td>SARGENT</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>THUMB TURN</td>
<td>CY-3</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CYLINDER</td>
<td>CY-5 FOR VON DURPH DEVICES</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>LOCK INDICATOR</td>
<td>AR-0899 OPTIONAL DEVICE</td>
<td>ADAMS RITE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>PANIC STOP</td>
<td>S-184-2 LOCATED AT THRESHOLD</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>THRESHOLD</td>
<td>TH-97 COMPONENT C</td>
<td>GBE</td>
<td>+70 / -70 PSF</td>
<td>4'-0&quot; X 8'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>DOOR BOTTOM SWEEP</td>
<td>D-11B / 2120</td>
<td>GBE</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>CONT. GEAR HINGE</td>
<td>KCFH-95001 CONTINUOUS GEAR HINGES</td>
<td>PEM HINGE</td>
<td>+70 / -70 PSF</td>
<td>4'-0&quot; X 8'-0&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>
# Hardware Schedule 8'-0" x 8'-0" (Max.) Pairs MSD-375 & WSD-500 Doors

<table>
<thead>
<tr>
<th>Hardware Type</th>
<th>Hardware Model and Description</th>
<th>Manufacturer</th>
<th>Max. Design Pressure</th>
<th>Max. Door Size</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Point Lock</td>
<td>MS 1850 Deadlock at 39&quot; AFF. + 4015 Threshold Bolt + 4016 Header Bolt</td>
<td>Adams Rite</td>
<td>+70 / -70 PSF</td>
<td>8'-0&quot; x 8'-0&quot;</td>
<td>Active door requires 1 3/8&quot; throw at threshold/header bolts, includes series MS 4000, 4001 &amp; 4002 dead lock strikes.</td>
</tr>
<tr>
<td>2-Point Lock</td>
<td>MS 2586 Auto Release Flush Bolt</td>
<td>Adams Rite</td>
<td>+70 / -70 PSF</td>
<td>8'-0&quot; x 8'-0&quot;</td>
<td>Inactive door requires 0.75&quot; top &amp; bottom, and strike top &amp; bottom with 1/2&quot; hole.</td>
</tr>
<tr>
<td>Concealed Panic</td>
<td>B410 Concealed Vertical Rod Panic w/ 640 Strike (Top &amp; Bottom)</td>
<td>Sargent</td>
<td>+70 / -70 PSF</td>
<td>8'-0&quot; x 8'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>Surface Closer</td>
<td>Model varies by Manufacturer</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Concealed Closer</td>
<td>21-241 Heavy Duty W/offset Swing Arm</td>
<td>Jackson</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Butt Hinges 4&quot; x 4 1/2&quot;</td>
<td>B81199 Ball Bearing Stainless Steel</td>
<td>Hager</td>
<td>+70 / -70 PSF</td>
<td>8&quot; x 8&quot;</td>
<td>(4) per door leaf</td>
</tr>
<tr>
<td>Pull Handles</td>
<td>PH-20 Formed Aluminum</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Push Bars</td>
<td>PB-21 Formed Aluminum</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cylinder</td>
<td>CY-1 Lock Cylinder</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Key Control</td>
<td>196 Key Control for Sargent</td>
<td>Sargent</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Thumb Turn</td>
<td>CY-3</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cylinder</td>
<td>CY-5 for Ven Duprin Devices</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Lock Indicator</td>
<td>AR-4099 Optional Device</td>
<td>Adams Rite</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Panic Stop</td>
<td>D-134-2 located at threshold</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Threshold</td>
<td>TM-57 Component 2</td>
<td>CEI</td>
<td>+70 / -70 PSF</td>
<td>8'-0&quot; x 8'-0&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>Door Bottom Sweep</td>
<td>D-119 / D109</td>
<td>CEI</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Cont. Gear Hinge</td>
<td>KGFM-995HB Continuous Gear Hinges</td>
<td>POMO</td>
<td>+70 / -70 PSF</td>
<td>8'-0&quot; x 8'-0&quot;</td>
<td>N/A</td>
</tr>
</tbody>
</table>
TYPICAL GLAZING DETAILS AT 4'-0" X 8'-0" OR 8'-0" X 8'-0" (Max.) DOORS

GLASS TYPE G19

GLASS TYPE G33

GLASS SCHEDULE FOR 4'-0"x8'-0" OR 8'-0"x8'-0" DOORS

<table>
<thead>
<tr>
<th>GLASS LABEL</th>
<th>GLASS COMPOSITION</th>
<th>INTERLAYER MANUFACTURER NAME</th>
<th>MAX. B.L.O.</th>
<th>MAX. AND DESIGN PRESSURE RATING</th>
</tr>
</thead>
<tbody>
<tr>
<td>G33</td>
<td>9/16&quot; NOMINAL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4&quot; H.S. GLASS, AND A LOFTY SAFLEX C.P. W/PY CORE GLASS INTERLAYER</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>38 3/4&quot; W</td>
<td>+70, -70</td>
</tr>
<tr>
<td>G15</td>
<td>1&quot; NOMINAL THICKNESS REGULATED GLASS CONSISTING OF 3/16&quot; TEMPERED GLASS OR 6/16&quot; SPACER &amp; 3/16&quot; H.S. GLASS OVER 0.035&quot; SAFLEX C.P. W/PY CORE GLASS INTERLAYER OVER 3/16&quot; H.S. GLASS</td>
<td>EASTMAN CHEMICAL COMPANY</td>
<td>82 9/16&quot; H</td>
<td>+70, -70</td>
</tr>
</tbody>
</table>

TYPICAL DOOR GLASS SIZE= B.L.O. +1 1/2"
TYPICAL PANEL ELEVATIONS FOR MSD-375 & WSD-500 IMPACT 4'-0"x8'-0" OR 8'-0"x8'-0"
SINGLE/PAIR OF DOORS (WET GLAZED)

FOOT NOTES:
- For glazing details and glass schedule see sheet 22.
- For maximum daylight opening (D.L.O.) see schedule on sheet 22.
- * See schedule on sheet 1 for limitations on max. A.S.D. pressure ratings, usable glass & hardware.

SINGLE PANEL EXTERIOR ELEVATION

L.H. SHOWN
R.H. OPPOSITE

FRAME WIDTH = PANEL WIDTH(G) + 5"
FRAME HEIGHT = PANEL HEIGHT + 2 1/2"

DOUBLE PANEL EXTERIOR ELEVATION
DOOR'S TOP AND BOTTOM RAILS AND HORIZONTAL MID-RAIL DETAILS AT 4'-0" x 8'-0" OR 8'-0" x 8'-0" (MAX.) DOORS (SIDE VIEWS)

SCALE: 6" = 1'

* LAMINATED GLASS SHOWN. SEE GLAZING DETAIL FOR G15 INSULATED GLASS ON SHEET 22.
DOOR'S HINGE/LOCK/MEETING STILES AND THRESHOLD CONNECTION DETAILS AT 4'-0"x8'-0" OR 8'-0"x8'-0" (MAX.) DOORS (PLAN VIEWS)

SCALE: 6" = 1'

**LAMINATED GLASS SHOWN, SEE GLAZING DETAIL FOR INSULATING GLASS ON SHEET 22.

▲ HARDWARE NOT SHOWN FOR CLARITY. SEE SHEETS 5, 6A & 6B FOR ELEVATIONS & SECTIONS.
TYPICAL EXTERIOR ELEVATIONS FOR MSD-375 & WSD-500 IMPACT DOOR (WET GLAZED) 4'-0"x8'-0" (SINGLE) & 8'-0"x8'-0" (PAIR OF DOORS) CONNECTED TO EXISTING STRUCTURE OR FG-5000, FG-5100 OR FG-5100T ALUMINUM WINDOW WALL SYSTEM FRAMING

MAX. ASD PRESSURE RATING W/LAMINATED & INSULATED GLASS IS +70, -70 psf

FOOT NOTES:

A 50" MAX. DOOR FRAME WIDTH.

B 33" MAX. DOOR FRAME WIDTH.

FOR THRESHOLD FASTENERS QUANTITY, TYPES AND SPECS SEE SHEETS 29.

FOR JAMB & HEAD FASTENERS QUANTITY, TYPES AND SPECS SEE SHEET 29.

96" MAXIMUM DOOR HEIGHT (D.O.) & 96" MAXIMUM DOOR WIDTH (D.O.).

96" MAXIMUM DOOR HEIGHT (D.O. & 4" MAXIMUM DOOR WIDTH (D.O.).

96" MAXIMUM DOOR JAHR MULLION SPAN
96" MAXIMUM DOOR FRAME HEIGHT.

NOTE: WHEN DOORS ARE MULLED WITH WINDOW WALL, LOWER DESIGN PRESSURE OF DOORS OR WINDOW WALL SHALL CONTROL.
THRESHOLD CONNECTION DETAILS AT 4'-0"x8'-0" OR 8'-0"x8'-0" DOORS
TO FG-5000, FG-5100 & FG-5100T

SCALE: 1" = 1'

EXISTING Poured CONCRETE (BY OTHERS)

FASTENERS
(SEE SHEET 2B)

EXISTING STEEL STRUCTURE 1/4" MIN.
THICK ASM A-36
(BY OTHERS)

FASTENERS
(SEE SHEET 2B)

MIN. 1.5
SEE SHEET 2B

MIN. 0.5
SEE SHEET 2D

MIN. 0.5
SEE SHEET 2D

MIN. 0.75
SEE SHEET 2D

MIN. 0.75
SEE SHEET 2D

EXISTING (1) OR (2)
7/16" WOOD BOX STRUCTURE
(SEE SHEET 2B)

MIN. 0.75
SEE SHEET 2D

MIN. 0.75
SEE SHEET 2D

5/8" THRESHOLD

DRAWN BY

DRAFTED BY

CHECKED BY

APPROVED FOR CONSTRUCTION

Date: 11-21-18

STATE OF FL

Must be signed by

LICENSE NO. 046157

Whitney Tile CO, INC.

10061 E. 38th St. West Palm Beach, FL 33419
TYPICAL DOOR CORNER ASSEMBLY DETAILS (ISOMETRIC)
W/ MSD-375 & WSD-500 SYSTEMS

1 7/16" x 2 7/8" x 3/16" STEEL BACK-UP PLATE

AFTER DOOR IS ASSEMBLED, DOORS WILL BE WELDED ON THE OUTSIDE INTERSECTION BETWEEN THE RAIL AND STILE AT TOP AND BOTTOM RAILS W/ 1/8" x 1/2" LONG ER 5356 FILLET WELD

HEADING AND THRESHOLD ASSEMBLY

DOOR CORNER ASSEMBLY DETAIL (ISOMETRIC) ONLY FOR REGENT 5770 CVR PANIC DEVICE HARDWARE

ATTACH THRU DOOR STILE INTO 3/16" STEEL BACK-UP PLATE

DOOR RAIL

THRU RAIL

CORNER BLOCK

DOOR STILE (MEDIUM OR WIDE)

ATTACH THRU DOOR STILE INTO 3/16" STEEL BACK-UP PLATE

STILE REINFORCEMENT SLEEVE
(D-245-01, D-244-01 OR D-247-01)

DOOR STILE (MEDIUM OR WIDE)

(2) THRU RAIL

CORNER BLOCK

(2) THRU RAIL

DOOR RAIL

(2) THRU RAIL

(3) THRU RAIL

ATTACH THRU DOOR STILE INTO 3/16" STEEL BACK-UP PLATE

TYPICAL DOOR CORNER ASSEMBLY DETAIL (ISOMETRIC)
DOOR HEADER CONNECTION DETAILS FOR MSD-375 & WSD-50 FOR
3'-6"x8'-0"(SINGLE), 7'-0"x8'-0"(PAIR) OR 4'-0"x8'-0"(SINGLE), 8'-0"x8'-0"(PAIR) DOORS

* ONLY REQUIRED AT PAIRS OF DOORS
DOOR JAMB MULLION CONNECTION DETAILS TO FG-500, FG-5100 & FG-5100T STOREFRONT SYSTEMS

DRILL HOLE FOR 1/4" SDS FASTENER 1" FROM EACH END OF MULLION TO ATTACH STEEL.

THRESHOLD FASTENERS @ DOOR JAMB MULLION [SEE SHEETS 17, 18, 19 & 28]

FASTENERS AT WINDOW WALL SEE [SEE SHEETS 17, 18, 19 & 28]

* FASTENERS VALID FOR FG-5000 AND ALSO FOR FG-5100 & FG-5100T

DOOR JAMB MULLION @ DOOR W/FG-5000

DOOR JAMB MULLION @ DOOR W/FG-5100

DOOR JAMB MULLION @ TRANSOM W/FG-5100

DOOR JAMB MULLION @ TRANSOM W/FG-5100T