NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC
3550 N. W. 49th Street
Miami, FL 33142

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 “6500” Aluminum Sliding Glass Doors w/ reinforcements-LMI

APPROVAL DOCUMENT: Drawing No. W13-07 Rev E, titled “Series 6500 Alum Sliding Glass Door (LMI)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on May 15, 2018, signed and sealed by Javad Ahmad, 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 Missile Impact Resistant

Limitations:
1. See SGD w/o Head Receptor (HR) Design Pressures (DP) Vs. Reinforcements & glazing options in sheet 4.
2. See sheet 2 for SGD elevation without HR and anchors capacity charts in sheet 5 at Head & sheet 6 at sill.
3. See sheet 3 for SGD elevation w/ HR doors and Head/sill anchors capacity charts in sheet 6 at sill. Standard jams item # E-3 is limited to max DP = +/- 85 PSF only. The max Exterior Positive DP not to exceed = +120.0 PSF, all the cases. Heavy Duty (#E-4) may be used per all tables & free jams.
4. See sheets 7, 9 & 11, for fixed panel arrangement using alum clip item E-29 (top/bottom) & threshold item E-11.

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews #15-0602.07 of this page 1 and evidence pages E-1, E-2 & E-3, as well as approval document mentioned above.

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

NOA No. 18-0322.05
Expiration Date: September 19, 2023
Approval Date: June 07, 2018
Page 1
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS
1. Manufacturer's die drawings and sections (submitted under file referenced below)
2. Drawing No. W13-07 Rev C, titled “Series 6500 Alum Sliding Glass Door (LMG)”, sheets 1 through 16 of 16, prepared by Al-Farooq Corporation, dated 03-17-13 and last revised on SEP 08, 2016, signed and sealed by Javad Ahmad, P.E.

B. TESTS (submitted under file #13-0115.05)
1. 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
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram of OXXO aluminum sliding glass door, prepared by Fenestration Testing Laboratories, Test Report No. FTL-7130 (FTL 12093), dated 04/05/13 and last revised on 09-12-13, signed and sealed by Marlin D. Brinson, P.E.

Along with marked-up drawings and installation diagram of OXEX aluminum SGD, prepared by Fenestration Testing Laboratories, Test Report No. FTL- 6990(FTL12051), dated 08/06/12, signed and sealed by Marlin D. Brinson, P.E.


C. CALCULATIONS
1. Anchor verification calculations and structural analysis, complying with FBC-2014 (5th Edition), prepared by Al Farooq Corporation, dated MAY 29, 2015, OCT 21, 2015 and last revised on AUG 24, 2016, signed and sealed by Javad Ahmad, P.E.

2. Engineering structural analysis of tested stilts & interlocks Vs. redesigned, prepared by Al Farooq Corporation, dated AUG 13, 2012, signed and sealed by Javad Ahmad, P.E. and approved dated 09/14/12 by RER (submitted under file #13-0115.05).

3. Glazing complies w/ ASTM E-1300-02, -04 & -09.

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

E. MATERIAL CERTIFICATIONS


F. STATEMENTS (Item #2 submitted under file #13-0115.05)
1. Statement letter of conformance to FBC 2014 (5th Edition) and letter of no financial interest, prepared by Al Farooq Corporation, dated 05/29/15, signed and sealed by Javad Ahmad, P.E.

2. E-mail dated 09/12/13 issued by Fenestration testing lab, clarify ½" shim gap used at unanchored (free) jambs in Test report FTL-7130, sample A-1, sent by Ms. Iliana Sanchez.

3. Lab compliance as part of the above referenced test report.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0322.05
Expiration Date: September 19, 2023
Approval Date: June 07, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER (Items 2 thru 4 were submitted under file #13-0115.05)
   1. This NOA revises #13-0115.05, expiring 09/19/18.
   2. Test proposal dated AUG 13, 2012, prepared by Al-Farooq Corp and approved dated 09/14/12 by RER.
   3. ES Windows Distribution agreement - Energia Solar, S.A. and ES Windows, LLC, dated 09/12/13, signed by Ms. Adriana Montoya, Manager and Andres Chamorro, General manager respectively on behalf of the companies.


A. DRAWINGS

B. TESTS
   1. None.

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with FBC-2017 (6th Edition), prepared by Al Farooq Corporation, dated MAR 21, 2018 and last revised on May 08, 2018, signed and sealed by Javad Ahmad, P.E.

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

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 14-0916.11 issued to Kuraray America, Inc. (former E.I. DuPont DeNemours & Co., Inc.) for the “Sentry Glass @ Interlayer”, expiring on 07/4/18.
   2. Notice of Acceptance No. 16-1117.01 issued to Kuraray America, Inc. (former E.I. DuPont De Nemours & Co., Inc.) for “Trofisol, ultra clear, clear & color PVB Interlayer”, expiring on 07/08/19.

F. STATEMENTS
   1. Statement letter of conformance to FBC 6th Edition (2017) and of no financial interest, prepared by Al Farooq Corporation, dated 03/14/18, signed and sealed by Javad Ahmad, P.E.
   2. Statement of lab compliance, as part of test report.

G. OTHER
   1. This NOA revises & renews #15-0602.07, expiring 09/19/23.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0522.05
Expiration Date: September 19, 2023
Approval Date: June 07, 2018
INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARDS.

STEP 2 DETERMINE DOOR CAPACITY FROM TABLES ON SHEET 4 FOR THE GLASS TYPE AND REINFORCING TO USE.

STEP 3 USING CHARTS ON SHEETS 5 FOR DOORS WITHOUT HEAD RECEPTORS, SHEET 6 FOR DOORS WITH HEAD RECEPTOR AND CHARTS ON SHEET 8 FOR SILL ANCHORS SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES ES-6500
ALUMINUM SLIDING GLASS DOOR

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

18" OR 28" WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUFACTURER'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC & NON-COMPRESSIBLE MATERIALS; INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME IN CONTACT WITH OTHER DISAPPEARING MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE 1& ADAPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INTRUSION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

GLAZING OPTIONS

DAYLIGHT OPENINGS WIDTHS:
FIXED STILE-INTERLOCK = PANEL WIDTH - 7.437"
INTERLOCK-ASTRAL = PANEL WIDTH - 7.187"
LOCK STILE-INTERLOCK = PANEL WIDTH - 6.375"

DAYLIGHT OPENING HEIGHT:
PANEL HEIGHT = 7.375"
PANEL HEIGHT + DOOR FRAME HEIGHT = 1.750" (W/O RECEPTOR)
PANEL HEIGHT = OVERALL HEIGHT = 3.500" (W/O RECEPTOR)

PRODUCT REVIEWS

No. 70582
Drawing No. W13-07
May 15, 2018

1/4" HEAT STRENGTH GLASS
0.90" Interlayer SentryGlass
By "Kuraray America, Inc."
1/4" HEAT STRENGTH GLASS

GLASS TYPE 'A'
9/16" OVERALL LAMINATED GLASS

GLASS TYPE 'B'
9/16" OVERALL LAMINATED GLASS

GLASS TYPE 'A-I'
1-1/4" OVERALL INSUL. LAM. GLASS

GLASS TYPE 'B-I'
1-1/4" OVERALL INSUL. LAM. GLASS

3/8" AIR SPACE CONSISTING OF:
SPACER - 'HELMA' LOW PROFILE ALUMINUM SPACER BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILOXONE: DOWSIL 791 GE 2000

LAMINATED GLASS INSUL. LAM. GLASS LARGE MISSILE IMPACT

COMPANY: W. J. G. P. L. L. INC.
ADDRESS: 2000 SOUTH STREET, SUITE 2000
PHONE: 800-335-6306
FAX: 800-335-6306
EMAIL: sales@wjgp.com
WEBSITE: wjgp.com

ALPHORN CORPORATION
ENGINEERS & ARCHITECTS
2000 SOUTH STREET, SUITE 2000
M. J. G. P. L. L. INC.
PHONE: 800-335-6306
FAX: 800-335-6306
EMAIL: sales@wjgp.com
WEBSITE: wjgp.com
CHART ABOVE SHOWS FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.
FOR DOORS WITH HEAD RECEPTORS OVERALL HEIGHT = DOOR FRAME HT. FROM CHART + 1 3/4".

NOTE:
SEE SHEET 12 FOR FIXED PANEL CLIP, ANGLE AND SNAP ON THRESHOLD REQUIREMENT.
ALSO SEE SHEET 8 FOR APPLICABLE EXTRUSION TEMPERS FOR STYLES/INTERLOCKS.

DOOR HEIGHT AND WIDTH MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219
<table>
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<th>PANEL WIDTH (INCHES)</th>
<th>ANCHOR TYPE</th>
<th>ANCHOR TYPE 'AA'</th>
<th>ANCHOR TYPE 'BB'</th>
<th>ANCHOR TYPE 'CC'</th>
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<td>4 ANCHORS AT MTC</td>
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<td>120.0</td>
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**CHART ABOVE SHOES FRAME HEIGHTS FOR DOORS WITHOUT HEAD RECEPTOR.**

**LIMIT ALL EXTERIOR LOADS TO +120.0 PSF MAX.**
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<th>PANEL WIDTH (INCHES)</th>
<th>DOOR FRAME HEIGHT (INCHES)</th>
<th>4 ANCHORS AT WTC STYLE ENDS</th>
<th>5 ANCHORS AT WTC STYLE ENDS</th>
<th>6 ANCHORS AT WTC STYLE ENDS</th>
<th>7 ANCHORS AT WTC STYLE ENDS</th>
<th>8 ANCHORS AT WTC STYLE ENDS</th>
<th>9 ANCHORS AT WTC STYLE ENDS</th>
<th>10 ANCHORS AT WTC STYLE ENDS</th>
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</table>

**Charts Above Shows Frame Heights for Doors Without Head Receptor.**

For doors with head receptors overall height = door frame ht. from chart + 1-3/4".

Limit all exterior loads to +120.0 PSF max.

SEE CHART ON SHEET 4 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART LEFT FOR HEAD ANCHOR CAPACITY.

SEE CHART RIGHT FOR SILL ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART, HEAD ANCHOR CHART OR SILL ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.
APPROVED CONFIGURATIONS
MAX. 4 PANELS OR LESS
MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS WITHOUT HEAD RECEPTORS)
MAX. FRAME AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)

NOTE:
1. OPERABLE PANEL TO BE ON EXTERIOR TRACKS WITH SAFEGUARD.
2. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
3. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 4.
4. FOR ANCHOR DETAILS SEE SHEETS 9 THRU 13.

FOR UNANCHORED JAMBS
USE ES-6500-004 ONLY
<table>
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<tr>
<th>ITEM #</th>
<th>PART #</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>MANF./SUPPLIES/REMARKS</th>
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<td>ES-6500-001</td>
<td>1</td>
<td>STANDARD FRAME HEAD</td>
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<tr>
<td>E2</td>
<td>ES-6500-002</td>
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<td>FRAME</td>
<td>6063-T6</td>
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<tr>
<td>E3</td>
<td>ES-6500-003</td>
<td>2</td>
<td>STANDARD FRAME JAMB</td>
<td>6063-T6</td>
<td>LIMIT MAX LOADS TO 885 PSF</td>
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<td>E4</td>
<td>ES-6500-004</td>
<td>2</td>
<td>HEAVY DUTY FRAME JAMB</td>
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<td>E5</td>
<td>ES-6500-005</td>
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<td>PANEL</td>
<td>TOP AND BOTTOM RAIL (INSUL. LAM. GLASS)</td>
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<td>E10</td>
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<td>ADD-ON TRACK</td>
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<td>E11</td>
<td>ES-6500-011</td>
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<td>THRESHOLD (LENGTH = GAP WIDTH BETWEEN FIXED PANELS)</td>
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<tr>
<td>E12</td>
<td>ES-6500-012</td>
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<td>SNAP-IN JAMB COVER (OPTIONAL)</td>
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<td>ASTRAGAL REINFORCEMENT, FULL PANEL LENGTH</td>
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<td>FIXED PANEL BOTTOM GUIDE</td>
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<td>#12 X 1 1/2&quot;</td>
<td>3</td>
<td>CORNER FRAME ASSEMBLY SCREWS</td>
<td>ST. STEEL</td>
<td>P.H. SMS</td>
</tr>
<tr>
<td>M2</td>
<td>#10 X 1 1/4&quot;</td>
<td>4</td>
<td>CORNER PANEL ASSEMBLY SCREWS</td>
<td>ST. STEEL</td>
<td>P.H. SMS</td>
</tr>
<tr>
<td>M3</td>
<td>#8 X 1&quot;</td>
<td>2</td>
<td>LOCK FASTENERS</td>
<td>F.H. SMS</td>
<td>-</td>
</tr>
<tr>
<td>M4</td>
<td>#8 X 3/4&quot;</td>
<td>2</td>
<td>HANDLE SET FASTENERS</td>
<td>ST. STEEL</td>
<td>P.H. SMS</td>
</tr>
<tr>
<td>M5</td>
<td>#10 X 1/2&quot;</td>
<td>2</td>
<td>CUP RETAINER CUP FASTENERS</td>
<td>ST. STEEL</td>
<td>F.H. SMS</td>
</tr>
<tr>
<td>M6</td>
<td>ES-6500-016</td>
<td>4</td>
<td>PANEL</td>
<td>GLAZING GASKET (LAM. GLASS)</td>
<td>SILICONE</td>
</tr>
<tr>
<td>M8</td>
<td>E-214</td>
<td>AS REQD.</td>
<td>ASTRAGAL ADAPTER W/STRIPPING</td>
<td>VINYL</td>
<td>THERMOPLASTIC ELASTOMER</td>
</tr>
<tr>
<td>M10</td>
<td>ES-8011</td>
<td>AS REQD.</td>
<td>Spacer Gasket</td>
<td>EPDM</td>
<td>DIAMETER 80/15 SHORE A, EXTRUSIONS S.A.</td>
</tr>
<tr>
<td>M11</td>
<td>27-445</td>
<td>AS REQD.</td>
<td>Glazing Wedge Gasket</td>
<td>EPDM</td>
<td>DIAMETER 74/15 SHORE A, SOLUCIONSENAGACHO</td>
</tr>
<tr>
<td>M12</td>
<td>27-448</td>
<td>AS REQD.</td>
<td>Bottom Rail Glazing Gasket</td>
<td>EPDM</td>
<td>DIAMETER 68/15 SHORE A, SOLUCIONSENAGACHO</td>
</tr>
<tr>
<td>M13</td>
<td>27-449</td>
<td>AS REQD.</td>
<td>Glazing Gasket at Top Rail and Stiles</td>
<td>EPDM</td>
<td>DIAMETER 68/15 SHORE A, SOLUCIONSENAGACHO</td>
</tr>
<tr>
<td>M14</td>
<td>1/4&quot; X 1/2&quot;</td>
<td>AS REQD.</td>
<td>Glazing Tape (Insul. LAM. Glass)</td>
<td>FOAM</td>
<td>-</td>
</tr>
<tr>
<td>M17</td>
<td>0200190</td>
<td>AS REQD.</td>
<td>Fabricated Coated Foam Weatherseal</td>
<td>POLYETHYLENE</td>
<td>O-LONG</td>
</tr>
<tr>
<td>M18</td>
<td>0200190</td>
<td>AS REQD.</td>
<td>Weatherseal Exterior</td>
<td>POLYETHYLENE</td>
<td>O-LONG</td>
</tr>
<tr>
<td>M19</td>
<td>0150727</td>
<td>AS REQD.</td>
<td>Interlock Bumper</td>
<td>POLYETHYLENE</td>
<td>O-LONG</td>
</tr>
<tr>
<td>M20</td>
<td>W223001K</td>
<td>AS REQD.</td>
<td>Pile W/Stripping</td>
<td>POLYVYNL</td>
<td>-</td>
</tr>
<tr>
<td>M21</td>
<td>GT-234/460-G0-2-A</td>
<td>2</td>
<td>PANEL ROLLER</td>
<td>-</td>
<td>PARBOSE</td>
</tr>
<tr>
<td>M22</td>
<td>PS01-1001-008</td>
<td>1</td>
<td>MORTISE LOCK KEEPER</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M23</td>
<td>PS01-0035-008</td>
<td>2</td>
<td>TWO POINT 3-PLY HOOK LOCK</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M24</td>
<td>PS01-0016-XX</td>
<td>1</td>
<td>MOV. PANEL HANDLE SET</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>M26</td>
<td>52019</td>
<td>AS REQD.</td>
<td>Threshold W/Stripping</td>
<td>-</td>
<td>AMESbury</td>
</tr>
<tr>
<td>M27</td>
<td>ES-7700-001</td>
<td>AS REQD.</td>
<td>SILL W/Stripping</td>
<td>SILICONE</td>
<td>DIAMETER 60/15 SHORE A</td>
</tr>
<tr>
<td>M29</td>
<td>AU-0-A07</td>
<td>AS REQD.</td>
<td>Fix. Panel Angle, 2&quot; X 2&quot; X 1/8&quot; X 7/8&quot; LONG</td>
<td>HEAD/SILL (FIXED PANEL)</td>
<td>-</td>
</tr>
<tr>
<td>M30</td>
<td>#4 X 1&quot;</td>
<td>2</td>
<td>CUP</td>
<td>Fix. Panel Angle Fasteners</td>
<td>HISH</td>
</tr>
<tr>
<td>M31</td>
<td>ES-5008</td>
<td>AS REQD.</td>
<td>Bolt W/Stripping</td>
<td>EPDM</td>
<td>DIAMETER 70 SHORE A</td>
</tr>
<tr>
<td>M32</td>
<td>ES-6500-019</td>
<td>1</td>
<td>1/4&quot; SPAVER FOR JAMB</td>
<td>NYLON</td>
<td>-</td>
</tr>
<tr>
<td>M33</td>
<td>ES-6500-002</td>
<td>1</td>
<td>1/2&quot; SPAVER FOR ASTRAGAL</td>
<td>NYLON</td>
<td>-</td>
</tr>
<tr>
<td>M35</td>
<td>P5004 AFK</td>
<td>AS REQD.</td>
<td>Adhesive Splice Pad (4&quot; X 1&quot; X 1&quot;)</td>
<td>ULTRAFAB</td>
<td>-</td>
</tr>
<tr>
<td>M36</td>
<td>W33414690008</td>
<td>AS REQD.</td>
<td>Threshold Weatherseal</td>
<td>PILE</td>
<td>-</td>
</tr>
<tr>
<td>M39</td>
<td>ES-6500-031</td>
<td>1</td>
<td>BOTTOM SPACER</td>
<td>POLYVYNL</td>
<td>-</td>
</tr>
</tbody>
</table>
UNITS WITHOUT HEAD RECEPPTORS

SEALANT:
ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

WEEPHOLES:
\[ W = 1/4" \times 3" \text{ LONG WEEP HOLES AT 4 1/2" FROM EACH END.} \]
1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

--- AT HEAD (FOR DOORS WITHOUT HEAD RECEPTOR) ---

TYPE 'AA'—
5/16" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, fy=155 KSI)
INTO WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY BUCKS INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

TYPE 'BB'—
5/16" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

TYPE 'CC'—
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

TYPE 'CC'—
5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MILLIONS
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

--- AT SILL (FOR DOORS W/NO HEAD RECEPTOR) ---

TYPE 'BB'—
5/16" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

--- AT JAMBS (FOR DOORS W/NO HEAD RECEPTOR) ---

5/16" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, fy=155 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1BY BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE OR BLOCKS

5/16" DIA. ULTRACON BY "ELCO" (Fy=177 KSI, fy=155 KSI)
DIRECTLY INTO CONCRETE
1-1/2" MIN. EMBED

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MILLIONS
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
OR
INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ALTERNATE SUBSTRATES UNITS WITHOUT HEAD RECEPTORS
SEE SHEET 2 FOR SPACING AND SHEET 5 FOR QUANTITY

ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-1/2" MIN.
INTO BLOCKS = 3-1/8" MIN.
INTO WOOD STRUCTURE = 1-1/4" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
WOOD AT HEAD OR JAMBS = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS F' = 3000 PSI MIN.
C=90 HOLLOW/FILLED BLOCK AT JAMBS F'm = 2000 PSI MIN.
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD (FOR DOORS WITH RECEPTOR)

TYPE 'AAA'- 5/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED

1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 3/16" THK. MIN. (6063-75 MIN.)
STEEL: 3/16" THK. MIN. (Fu = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
ALUMINUM: 3/16" THK. MIN. (6063-75 MIN.)
STEEL: 3/16" THK. MIN. (Fu = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES
INTO CONCRETE = 2-3/16" MIN.
INTO METAL STRUCTURE = 1-1/2" MIN.

CONCRETE AT HEAD/SILL f'c = 3000 PSI MIN.

UNITS WITH HEAD RECEPTORS

HEAD RECEPTOR MOUNT SHOWN, SEE DETAIL IN SHEET 3
AND ANCHOR CAPACITY CHART IN SHEET 6
FIXED PANEL:
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9
ANCHORS AT HEAD/SILL AND FREE JAMB ENDS
SEE ELEVATIONS ON SHEETS 2 & 3
(APPLICABLE TO ALL SIZES ON SHEET 4 AND CONFIGURATIONS ABOVE)
MAX. FRAME AREA NOT TO EXCEED 200 SQ. FT. (DOORS W/ O HEAD RECEPTORS)
MAX. AREA NOT TO EXCEED 162.33 SQ. FT. (DOORS WITH HEAD RECEPTORS)

DOWNSL 790 = 100% STRETCH
ALLOWABLE LOADS FOR DOOR HEIGHTS VERSUS 100% STRETCH SILICONEs

<table>
<thead>
<tr>
<th>DOOR HEIGHT</th>
<th>1/4&quot; MIN. GAP</th>
<th>3/8&quot; MIN. GAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>96&quot;</td>
<td>135 PSF</td>
<td>135 PSF</td>
</tr>
<tr>
<td>108&quot;</td>
<td>135 PSF</td>
<td>135 PSF</td>
</tr>
<tr>
<td>120&quot;</td>
<td>135 PSF</td>
<td>135 PSF</td>
</tr>
</tbody>
</table>

MAXIMUM GAP = 1/2" ALL CASES

CHART APPLICABLE TO ALL SIZES, LOAD CAPACITIES AND CONFIGURATIONS AS SHOWN ON SHEETS 4, 5, 6 AND 7.

NOTE:
DATA IN THIS SHEET MAY BE USED TO QUALIFY SEALANT TO BE USED AT UNANCHORED JAMBS.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATIBILITY OF SEALANT TO SUBSTRATE & DOOR MATERIAL FINISH AND COMPLIANCE FOR WARRANTY. (UNDER SEPARATE REVIEW)

FREE STANDING H. DUTY JAMB

FIXED PANEL:
SEE HEAD/SILL CLIP ANGLE DETAIL ON SHEET 7 & 9
FRAME TOP CORNER
STD. JAMB (SHOWN)
H.D. JAMB (SIMILAR)

FRAME BOTTOM CORNER
STD. JAMB (SHOWN)
H.D. JAMB (SIMILAR)

PANEL TOP/BOTTOM CORNER
LAM. GLASS RAIL & STILE (SHOWN)
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)