NOTICE OF ACCEPTANCE (NOA)

Technoglass, LLC
3550 NW 49 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 "PH3400" 9'10" Aluminum Sliding Glass Door – S.M.I.

APPROVAL DOCUMENT: Drawing No. W07–108, titled “Series PH 3400 Alum. Sliding Glass Door (S.M.I.)”, sheets 1, 2, 3, 3.1, 4, 4.1, 5, 6, 7 of 7, dated 02/07/08, with revision “D” dated 02/26/18, prepared by Al-Farooq Corporation, 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: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Barranquilla, Colombia S.A., 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 and renews NOA No. 08-0312.02 and 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 Sifang Zhao, P.E.
NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA’s
   A. DRAWINGS
      1. Manufacturer's die drawings and sections.
         (Submitted under NOA No. 08-0312.02)
         sheets 1 through 7 of 7, dated 02/07/08 with revision “B” dated 11/12/09, prepared by
         Al–Farooq Corporation, dated 04/23/10, signed and sealed by Javad Ahmad, P. E.

   B. TESTS
      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) Small 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 Aluminum Sliding Glass
         Door, prepared by Fenestration Testing Laboratory, Inc., Test Report No. FTL–5362,
         dated October 17, 2007, signed and sealed by Michael Wenzel, P. E.
         (Submitted under NOA No. 08-0312.02)

   C. CALCULATIONS
      1. Anchor verification calculations and structural analysis, complying with FBC-2004
         and 2007, prepared by Al–Farooq Corporation, dated February 01, 2008, signed and
         sealed by Dr. Humayoun Farooq, P. E.
      2. Complies with ASTM E1300–02
         (Submitted under NOA No. 08-0312.02)

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

   E. MATERIAL CERTIFICATIONS
      1. Notice of Acceptance No. 09–0312.02 issued to E.I. DuPont DeNemours & Co., Inc.
         for their “DuPont Butacite® PVB, Interlayer” dated 05/13/09, expiring on 12/11/10.
      2. Test reports on neoprene wedge #V-067 prepared by Ghesquiere Plastic Testing, Inc.,
         1) Shore “A” Hardness per ASTM D2240-05, passed 70 ≤ 75±5 Shore A
         2) Compression Set per ASTM D395-08: passed 27% ≤ 30% max at 70 Durometer
         3) Ozone Resistance per ASTM D1149-07: NO Cracks;
         4) Tensile Strength per ASTM D412-05: Elongation 273% > 200% min. at 70
            Durometer
         5) Heat Aging per ASTM D573-04: passed: +1 point ≤ +10 points max change

Sifang Zhao, P. E.
Product Control Examiner
NOA No. 16-0510.16
Expiration Date: November 22, 2023
Approval Date: November 22, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS (CONTINUED)
   6) Tear Test per ASTM D624C–07: passed 112 lbs/in ≥ 100 lbs/in
   7) Brittleness per ASTM D746–07: Non-Brittle at -40°C
   8) Non-Staining Characteristics test per ASTM D925-08: No Migration Staining

   3. Test reports on Ethylene Propylene Diene Monomer Rubber (EPDM) prepared by
      by Suzanne Cannell
      1.) ASTM C116–06, Standard Test method for Flame Propagation of Dense and
          Cellular Elastomeric Gaskets and Accessories: 460 mm Flame Propagation

F. STATEMENTS
   1. Statement letter of conformance and complying with FBC 2007, and no financial
      interest, dated April 22, 2010, signed and sealed by Javad Ahmad, P. E.
   2. Laboratory compliance letter for Test Report no. FTL–5362, issued by Fenestration
      Testing Laboratory, Inc., dated November 14, 2007, signed and sealed by Michael
      Wenzel, P. E.
   3. Addendum letter for Test Report No. FTL–5362, issued by Fenestration Testing
      Laboratory, Inc., dated January 04, 2008, signed and sealed by Carlos S. Rionda, P. E.
      (Submitted under NOA No. 08-0312.02)

G. OTHERS
   1. None.

2. NEW EVIDENCE SUBMITTED
A. DRAWINGS
      sheets 1, 2, 3, 3.1, 4, 4.1, 5, 6, 7 of 7, with revision “D” dated 02/26/18, prepared by
      Al-Farooq Corporation, signed and sealed by Javad Ahmad, P. E.,

B. TESTS
   1. None

C. CALCULATIONS
      dated 02/23/2018, prepared by Al-Farooq Corporation, signed and sealed by Javad
      Ahmad, P.E.

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

   ____________________________
   Sifang Zhao, P. E.
   Product Control Examiner
   NOA No. 16-0510.16
   Expiration Date: November 22, 2023
   Approval Date: November 22, 2018
Tecnoglass, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS
1. NOA No. 17-1114.14 issued to Kuraray America, Inc. for their “Trosifol® Ultraclear, Clear and Color PVB Glass Interlayers” dated 01/18/18, expiring on 07/08/19.

F. STATEMENTS
2. Distribution agreement dated 02/17/17 between Energia Solar, SA, Columbia and Tecnoglass, LLC (USA), signed by Ms. Carla Garcia, Int’l Sales Manager and Ms. Evelyn Daes, General Manager on behalf of their respective companies.
3. Asset purchase agreement dated 06/19/14, signed by Mr. Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc. and Mr. José M. Daes, for and on behalf of Tecnoglass, LLC (submitted under file #14-0807.15).
4. Statement letter dated 07/15/14, issued by R.C. Aluminum Industries, Inc. of sales of asset and relinquishing of all rights of NOA No. 08-0312.02, signed by Raul Casares, for and on behalf of R.C. Aluminum Industries, Inc.
5. Department of State Certification of TECNOGLASS, LLC as a limited liability company, active and organized under the laws of the State of Florida, dated 03/03/14 and signed by Ken Detzner, Secretary of State.

G. OTHERS
1. NOA #08-0312.02, issued to R.C. Aluminum Industries, Inc., for their Series "PH3400" 9'10" Aluminum Sliding Glass Door – S.M.I. approved on 06/16/2010 and expiring on 06/16/2015.

__________________________
Sifang Zhao, P. E.
Product Control Examiner
NOA No. 16-0510.16
Expiration Date: November 22, 2023
Approval Date: November 22, 2018
SERIES PH3400 ALUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHART SHOWN ON SHEET 2.

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).

1BY OR 2BY 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 EMBLEMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHMBS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRRESSIBLE.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017 FLORIDA BLDG. CODE & ACCEPTED 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 INFLITRATION RESISTANCE ETC.

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

ALTERNATE SIZE UTES: (4 PANELS OR LESS) MAX. FRAME AREA OF DOORS NOT TO EXCEED THE TESTED FRAME AREA OF 160 SQ. FT.

HEAD/SILL ANCHORS (SEE SHEET 4.1) CLUSTER OF 4, 6 OR 8 AT STILE ENDS 2-1/2" C.C.
SEE CHART ON SHEET 2 FOR CAPACITY.

TITLE: SMALL MISSILE IMPACT

DESIGN: W07-108

DATE: Aug 21, 2018

PRODUCT REVISION:

By Miami Dade Product Control.

1BY OR 2BY 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 EMBLEMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY. ALL SHMBS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRRESSIBLE.

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HEAD/SILL ANCHORS (SEE SHEET 4.1) CLUSTER OF 4, 6 OR 8 AT STILE ENDS 2-1/2" C.C.
SEE CHART ON SHEET 2 FOR CAPACITY.

TYPICAL ELEVATION

TESTED UNIT (XX100)

44" D.L. OPN. 44" D.L. OPN.

49 1/2" PANEL WIDTH 49 7/8" PANEL WIDTH

INSUL. LAM. GLASS

SMALL MISSILE IMPACT

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.

MIAMI--DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.
<table>
<thead>
<tr>
<th>PANEL WIND HOURS</th>
<th>DOOR FRAME HEIGHT INCHES</th>
<th>ANCHOR TYPE (A)</th>
<th>1/4 MAX. SHIM</th>
<th>1/2 MAX. SHIM</th>
<th>ANCHOR TYPE ('A')</th>
<th>1/4 MAX. SHIM</th>
<th>1/2 MAX. SHIM</th>
<th>ANCHOR TYPE 'B'</th>
<th>3/8 MAX. SHIM</th>
<th>ANCHOR TYPE 'C'</th>
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Note: Claus Capacities on this Sheet are based on ASTM E1300-09 (3 Sec. Gusts) and Florida Building Commission Declaratory Statement DCA5-DEC-219.
### GLAZING DETAIL

1-1/4" OVERALL INSUL. LAM. GLASS

#### SEALANTS:

All frame and panel joint, installation screws and heads of anchor screws at sill to be sealed with white/alum colored sealant.

#### LOCKS:

Three ply metallic hook lock with surface mount metallic handle at 42" from bottom.

Lock fastened with (2) #5 X 1/2" FH Machine Screws and handle fastened with (2) #8 X 2-1/4" ON machine screws. Surface mount metallic keepers at 42" from bottom fastened with (2) #10 X 3/4" FH SMS.

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<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
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<td>E1</td>
<td>PH3400-001</td>
<td>1/ PANEL INTERLOCK STILE INSIDE</td>
<td>6005-15</td>
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<td>E2</td>
<td>PH3400-002</td>
<td>1 LOCK STILE</td>
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<td>PH3400-004</td>
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<td>E5</td>
<td>PH3400-005</td>
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<td>1 FRAME HEAD</td>
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<td>PH3400-007</td>
<td>1 SILL TRACK</td>
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<td>E8</td>
<td>PH3400-008</td>
<td>1 SILL THRESHOLD</td>
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<td>E9</td>
<td>PH3400-009</td>
<td>1 HEAD CLOSURE ADPTOR</td>
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<td>PH3400-013</td>
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<td>E14</td>
<td>2400ST-031</td>
<td>AS REQD. SILL TRACK PLATE, 5&quot; LONG AT ENDS, 10&quot; LONG AT STILE LOCATIONS</td>
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<td>S1</td>
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<td>#14 X 1&quot; PH SMS TYPE &quot;B&quot; ST/ST</td>
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<td>#10 X 3/4&quot; PHSMS. ST/ST</td>
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<td>S5</td>
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<td>1/4&quot; X 20&quot; X 3/4&quot; LG. SOCKET HEAD CAP SCREW</td>
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<td>V1</td>
<td>V-019</td>
<td>1/ MOV. PANEL DRIP SILL VINYL (DURAMETER 65/5 SHEAR A)</td>
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<td>V-026</td>
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<td>V-047</td>
<td>AS REQD. BULB VINYL (DURAMETR 65/5)</td>
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<td>V4</td>
<td>V-067</td>
<td>AS REQD. MARINE GLAZING FOR UAM/PHS. GLASS SM (DURAMETER: #65 SHEAR A)</td>
<td>EPDM CANAL VITRIS LTD</td>
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<tr>
<td>M1</td>
<td>U54</td>
<td>0-LON 3757270 @ INTERLOCK, JAMB &amp; MIT. STILES</td>
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<tr>
<td>M2</td>
<td>W3132456X</td>
<td>AS REQD. PILE WITH PLASTIC FIN W/STRIPPING</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>M3</td>
<td>E16-106W/B</td>
<td>AS REQD. SILICONE BUMPER</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>M4</td>
<td>DOWSIL 995</td>
<td>BLACK SILICONE (LM)</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>M5</td>
<td>C505-1003</td>
<td>ROLLER TRACK COVER</td>
<td>ST/ST</td>
<td>—</td>
</tr>
<tr>
<td>M6</td>
<td>RO 00151W/D</td>
<td>SILL ANCHOR TRACK</td>
<td>6005-15</td>
<td>6&quot; LONG</td>
</tr>
<tr>
<td>M7</td>
<td>U56</td>
<td>0-LON 2507270 @ HEAD ADPTOR &amp; SILL THRESHOLD</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H1</td>
<td>10 0030 01</td>
<td>1 (WPH) HARDWARE</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>H2</td>
<td>10 0071 01</td>
<td>2/ MOV. PANEL (WPH) ROLLER LARGE</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

### 3/8" AIR SPACE CONSISTING OF:

**SPACER:**

"HELMA" LOW PROFILE ALUMINUM SPACER

**BY** LINDERMANN GmbH

AROUND THE PERIMETER OF THE GLASS.

**PERIMETER SEALANT:**

SILICONE

DOWSIL 791

GE 2000
**TYPICAL ANCHORS IN CLUSTERS AT MTD. STYLE & INTERLOCK ENDS SEE SHEET 2 FOR QUANTITIES**

**CONCRETE**

3 KS MIN.

**EDGE DIST.**

1/2" MAX.

**DOOR FRAME HEIGHT**

**CONCRETE**

3 KS MIN.

**TYPICAL ANCHORS IN CLUSTERS AT MTD. STYLE & INTERLOCK ENDS SEE SHEET 2 FOR QUANTITIES**

**CONCRETE**

3 KS MIN.

**EDGE DIST.**

1/2" MAX.

**DOOR FRAME HEIGHT**

**POURED & HARDENED HIGH STRENGTH GROUT**

NON-SHRINK, NON-METALLIC

-Fc = 5000 PSI MIN.

NOT BY TECNOGLASS

MUST TRANSFER SHEAR LOADS TO STRUCTURE

**POURED & HARDENED HIGH STRENGTH GROUT**

NON-SHRINK, NON-METALLIC

-Fc = 5000 PSI MIN.

NOT BY TECNOGLASS

MUST TRANSFER SHEAR LOADS TO STRUCTURE

**WEEPS:**

W1 = 3/4" WEEP NOTCH AT EACH END OF EACH TRACK

W2 = 1-3/4" NOTCH AT MIDSPAN OF FIX. PANEL TRACK

W3 = 2-1/2" NOTCH AT MIDSPAN OF MOV. PANEL TRACK

**CONCRETE**

3 KS MIN.

**TYPICAL ANCHORS IN CLUSTERS AT MTD. STYLE & INTERLOCK ENDS SEE SHEET 2 FOR QUANTITIES**

**CONCRETE**

3 KS MIN.

**EDGE DIST.**

1/2" MAX.

**DOOR FRAME HEIGHT**

**TYPICAL ANCHORS IN CLUSTERS AT MTD. STYLE & INTERLOCK ENDS SEE SHEET 2 FOR QUANTITIES**
TYPICAL ANCHORS: SEE ELEV. FOR SPACING

--- AT HEAD ---

**TYPE 'A'**
1/4" x 2-3/4" dia. XWR-CON II by "HALT"  
(Fy=138 KSI, FY=137 KSI)
DIFFRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE

**TYPE 'AA'**
1/4" x 2-3/4" dia. XWR-CON # II by "HALT"  
(Fy=138 KSI, FY=137 KSI)
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

**TYPE 'B'**
1/4" dia. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
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 ---

1/4" x 2-3/4" dia. XWR-CON # II by "HALT"  
(Fy=138 KSI, FY=137 KSI)
DIFFRECTLY INTO CONCRETE
1-1/2" MIN. EMBED INTO CONCRETE

--- AT JAMBS ---

1/4" x 2-3/4" dia. XWR-CON # II by "HALT"  
(Fy=138 KSI, FY=137 KSI)
DIFFRECTLY INTO CONCRETE OR BLOCKS
2" MIN. EMBED INTO BLOCKS
2" MIN. EMBED INTO CONCRETE

1/4" x 2-3/4" dia. XWR-CON # II by "HALT"  
(Fy=138 KSI, FY=137 KSI)
INTO WOOD STRUCTURES
2" MIN. PENETRATION INTO WOOD
THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE OR BLOCKS
1-1/4" MIN. CONCRETE OR BLOCKS EMBEDMENT

1/4" dia. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
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)

1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY TECNOGLASS
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER
THEM TO THE BUILDING STRUCTURE.