International Impact Building Products, LLC  
5900 Australian Avenue, Suite #300  
West Palm Beach, FL 33407

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 “Titan 120" Aluminum Sliding Glass Door w/ reinforcements-SMI

APPROVAL DOCUMENT: Drawing No. W11-48 Rev E, titled “Series Titan 120 Alum Sliding Glass Door (S.M.I.)", sheets 1 through 8 of 8, prepared by AL-Farooq Corporation, dated 09/07/11 and last revised on MAR 27, 2018, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Renewal 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

Limitations:
1. The frame area of alternate size unit shall not exceed the frame area= 220.92 ft² of the tested approved unit per FBC 2411.3.2.4 (i) (1).
2. See sheet 2 for Design Pressure Ratings Vs sizes, Std or HP Reinforcing, Glass types and anchor types.
3. Detail F (Astragal consists of jamb item #3 and adapter item # 9) is limited to three panels configurations XXO, OXO and OXX only.
4. Single clip at Side Jamb required, can be at exterior or interior side (see detail in sheet 6).

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 renews NOA # 18-0412.02 and consists 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.
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous approvals

A. DRAWINGS (submitted under files referenced below)
   1. Manufacturer's die drawings and sections.
   2. Drawing No. W11-48 Rev D, titled “Series Titan 100 Alum Sliding Glass Door (S.M.I.)”, sheets 1 through 8 of 8, prepared by AL-Farooq Corporation, dated 09/07/11 and last revised on SEP 17, 2014, signed and sealed by Javad Ahmad, P.E.

B. TESTS (submitted under files #11-1115.04/# 09-0127.15)
   1. Test reports on 1) Air Infiltration Test, per TAS 202-94
      2) Uniform Static Air Pressure Test, Loading per TAS 202-94
      4) Forced Entry Test per FBC 2411.3.2.1 and TAS202-94.
      5) Small Missile Impact Test, per TAS 201-94
      6) Cyclic Wind Pressure Loading, per TAS 203-94
   Along with marked-up drawings and installation diagram of an Aluminum Sliding Glass Door, prepared by Hurricane Testing Laboratory, Inc., Test Report No(s). HTL-0171-0713-07 (specimen #4), dated 08/01/08, signed and sealed by Vinu Abraham, P.E., issued to Plaza Door Co (Now known as International Impact Products, LLC)
   Note: This test report has been revised and a copy received on July 28, 2009. Also an addendum letter dated June 18, 2009 has been issued by HTL, signed & sealed by Vinu Abraham, P.E.
   2. Additional test report No. HTL-0171-0713-07 (specimen #5, 5A & 5B) dated 08/01/08, per TAS 202, 201/203-94 (LMI/SMI), issued by Hurricane Testing Lab, signed & sealed by Vinu Abraham, P.E.

C. CALCULATIONS
   1. Anchor verification calculations and structural analysis, complying with FBC 2014, prepared by Al Farooq Corporation, dated JUL 23, 2014, signed and sealed by Javad Ahmad, P.E.
   2. Glazing complies w/ ASTME-1300-02,-04 &-09.

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

E. MATERIAL CERTIFICATIONS
   1. Notice of Acceptance No. 11-0624.01 issued to DuPont DeNeumours, Inc. for their “Butacite PVB Interlayer”, expiring on 12/11/16.
   2. Material properties data sheet of PolyOne Geon vinyl Flexible glazing gasket material extruded by Melt point Inc.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0725.13
Expiration Date: August 26, 2024
Approval Date: September 20, 2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS
1. Statement letter dated 07/10/14, compliance to FBC2014 (5th edition) and No financial interest, prepared by Al Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
3. Statement letter dated 04/09/09, issued by Plaza Doors of all assets sold to Impact Building Products, signed by Roy Elwell, president Plaza Door (original in file #09-0127.14)
4. Statement letter dated 04/09/09, issued by Impact Building Products of all assets purchased from Plaza Doors, signed by Michael Fry, Managing Partner, International Impact Building Products (original in file #09-0127.14)
5. Laboratory compliance, as a part of above test reports.

G. OTHER
1. This NOA revises & renews NOA # 11-1115.04, expiring 08/26/19.
2. Bill of Sales Assignment and Loan Purchase agreement between National City Bank and International Impact Building Products.

2. Evidence submitted under previous approvals.

A. DRAWINGS
1. Drawing No. W11-48 Rev E, titled “Series Titan 120 Alum Sliding Glass Door (S.M.I.)”, sheets 1 through 8 of 8, prepared by AL-Faroq Corporation, dated 09/07/11 and last revised on MAR 27, 2018, signed and sealed by Javad Ahmad, P.E.

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 27, 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. 16-1117.01 issued to Kuraray America, Inc. (former E.I. DuPont De Nemours & Co., Inc.) for “Trofasil, 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 03/27/18, signed and sealed by Javad Ahmad, P.E.
2. Statement of lab compliance, as part of test report.

G. OTHER
1. This NOA revises #14-0724.09, expiring 08/26/19.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0725.13
Expiration Date: August 26, 2024
Approval Date: September 20, 2018

E - 2
International Impact Building Products, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

H. New Evidence submitted

A. DRAWINGS
   1. Drawing No. W11-48 Rev E, titled “Series Titan 120 Alum Sliding Glass Door (S.M.I.)”, sheets 1 through 8 of 8, prepared by AL-Farooq Corporation, dated 09/07/11 and last revised on MAR 27, 2018, signed and sealed by Javad Ahmad, P.E.

B. TESTS
   1. None.

C. CALCULATIONS
   1. None.

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

E. MATERIAL CERTIFICATIONS
   1. None.

F. STATEMENTS
   1. Statement letter of conformance to FBC 6th Edition (2017) and of no financial interest, prepared by Al Farooq Corporation, dated 07/16/18, signed and sealed by Javad Ahmad, P.E.
   2. Statement of lab compliance, as part of test report.

G. OTHER
   1. This NOA renews NOA # 18-0412.02, expiring 08/26/24.

Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No. 18-0725.13
Expiration Date: August 26, 2024
Approval Date: September 20, 2018
SERIES 'TITAN 120' ALUMINUM 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).

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 EMBRACEMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

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 BUILDING CODE & ADOPTED 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.

TYPICAL ELEVATION

DAYLITE OPENINGS:

D.L.O. HEIGHT = PANEL HEIGHT - 7.000"
D.L.O. WIDTH = PANEL WIDTH - 6.625"
DOOR HEIGHT = PANEL HEIGHT + 1.250"

ALL ANCHORS IN PAIRS
INTERMEDIATE ANCHORS:
(1) PAIR REQD. FOR PANEL WIDTHS UPTO 48"
(2) PAIRS REQD. FOR PANEL WIDTHS ABOVE 48"

LAMINATED 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 REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.
### DESIGN LOAD CAPACITY – PSF

<table>
<thead>
<tr>
<th>Panel Width (inches)</th>
<th>SDR Reinforcing Glass Type A' or B'</th>
<th>HP Reinforcing Glass Type B' (in-house adapters)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Anchor A' or B' in C</td>
<td>Anchor B' in C</td>
</tr>
<tr>
<td></td>
<td>Ext. (+) / Int. (-)</td>
<td>Ext. (+) / Int. (-)</td>
</tr>
<tr>
<td>36</td>
<td>90.0 / 90.0</td>
<td>100.0 / 120.0</td>
</tr>
<tr>
<td>42</td>
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<td>113.0 / 120.0</td>
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<td>60</td>
<td>87.5 / 87.5</td>
<td>87.5 / 104.9</td>
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<td>90.0 / 90.0</td>
<td>100.0 / 120.0</td>
</tr>
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<td>109-1/4</td>
<td>90.0 / 90.0</td>
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</tr>
<tr>
<td>121-1/4</td>
<td>90.0 / 90.0</td>
<td>100.0 / 120.0</td>
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**Door height and width size must comply with egress requirements per FPC.**

### GLASS OPTIONS

**Glass Type A'**
- 7/16" overall laminated glass

**Glass Type B'**
- 9/16" overall laminated glass

**Glazing Options**
- 3/16" heat streng'd glass
- 1/4" heat streng'd glass
- 0.060" interlayer (Tesital PVB)
- By "Kuraray America, Inc."

**Notes:**
- Glass capacities on this sheet are based on ASTM E1300–09 (3 sec. gusts) and Florida Building Commission Declaration Statement DCA05–DEC–219.
NOTE:
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE ONLY
(SEE APPLICABLE ANCHOR INSTALLATIONS IN SHEETS 4 & 5)
<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART #</th>
<th>QUANTITY</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
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<tr>
<td>1</td>
<td>PDC-009</td>
<td>1</td>
<td>FRAME HEAD</td>
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<td>6063-T6 –</td>
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<td>PDC-012</td>
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<td>FRAME SILL</td>
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<td>3</td>
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<td>FRAME JAMB</td>
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<td>4</td>
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<tr>
<td>5</td>
<td>PDC-059</td>
<td>1/2</td>
<td>PANEL, BOTTOM RAIL</td>
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<td>6063-T6 –</td>
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<td>6</td>
<td>PDC-060</td>
<td>1/2</td>
<td>JAMB LOCK STILE</td>
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<td>7</td>
<td>PDC-061</td>
<td>1/2</td>
<td>PANEL INTERLOCK STILE</td>
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<td>6063-T6 –</td>
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<td>8</td>
<td>PDC-002</td>
<td>AS REQ.</td>
<td>ADJ. ASTRAGL STILE</td>
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<td>12</td>
<td>PDC-062</td>
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<td>PANEL STD INTERLOCK STILE REINFORCEMENT, LENGTH = PANEL HT. – 18”</td>
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<td>6063-T6 –</td>
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<td>13</td>
<td>PDC-098</td>
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<td>HP INTERLOCK STILE REINFORCEMENT, LENGTH = PANEL HT. – 18”</td>
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<td>14</td>
<td>PDC-099</td>
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<td>PANEL INTERLOCK REINFORCEMENT, 12” LONG</td>
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<td>PDC-063</td>
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<td>16</td>
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<td>FLEXIBLE PVC</td>
<td>WESTPOINT PLASTICS –</td>
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<tr>
<td>19</td>
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<td>MOV. PANEL ADJUSTABLE ROLLER ASSEMBLY</td>
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<td>– IBP –</td>
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<tr>
<td>20</td>
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<td>DECOLOCK  #1841-02 SS</td>
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<td>– ADAMS RITE –</td>
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<tr>
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<td>LOCK ESCUTCHEON #4430</td>
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<td>– ADAMS RITE –</td>
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<td>LOCK KEEPER</td>
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<td>TRACK RAIN PAN</td>
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<td>24</td>
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<td>H.P. WEATHER SEAL</td>
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<td>– IBP –</td>
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<td>1 PER DOOR ROLLER</td>
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<td>33</td>
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<td>#8 X 1/4&quot; FH SMS</td>
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<td>2 PER 1/2&quot; ROLLER BAR</td>
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<td>2 PER DOOR PANEL, CORNERS</td>
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<td>#10 X 1-1/4&quot; WS TYPE F PH</td>
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<td>– (1) AT 8&quot; FROM BOTTOM</td>
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</tbody>
</table>

40 – AS REQ. JAMB SHEAR CLIP 3/4” LONG MIN OR CONTINUOUS 6063-T6 –
1" OR 2" WOOD BUCKS AND METAL STRUCTURE NOT BY PLAZA DOOR MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV FOR SPACING

TYPE 'A' -
1/4" DIA. ULTRA CON RC LBO (Fy = 77 KSI, Fv = 155 KSI)
INTO 2" WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
THRU 1" WOOD BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
1-1/2" MIN. EMBED INTO GROUT FILLED BLOCKS (JAMBS)

TYPE 'B' -
1/4" DIA. ULTRA CON RC LBO (Fy = 177 KSI, Fv = 155 KSI)
DIRECTLY INTO CONC. OR BLOCKS
1-1/2" MIN. EMBED INTO CONCRETE (HEAD/SILL)
2" MIN. EMBED INTO CONC. OR FILLED BLOCKS (JAMBS)

TYPE 'C' -
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MUNITIONS OR INTO METAL STRUCTURES (HEAD/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (Fy = 35 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 5/4" MIN.
WOOD AT HEAD OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS Fc = 3000 PSI MIN.
C-90 GROUT FILLED BLOCK AT JAMBS Fm = 2000 PSI MIN.
FRAME TOP CORNER

JAMB NOTCHED TO RECEIVE HEADER AND SILL RIBS
APPLY BEAD OF SONNEBORN NP1 SEALANT AT TOP AND BOTTOM JOINTS

FRAME BOTTOM CORNER

PANEL TOP CORNER

APPLY BEAD OF SONNEBORN NP1 SEALANT AT TOP AND BOTTOM JOINTS

PANEL BOTTOM CORNER

1/4" X 1-1/2" DRAIN PAN
FACTORY APPLIED

ROLL-CLIP FASTENER DETAIL

WEEPHOLES:

W1 = CLUSTER OF SIX 3/8" WEEP HOLES AT 17" FROM EACH END AND 21" O.C.

W2 = 1/4" X 1-1/2" OPENING FOR DRAIN PAN AT 17" FROM EACH END AND 21" O.C.