NOTICE OF ACCEPTANCE (NOA)

NCI Group, Inc.
14031 West Hardy
Houston, TX 77060

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: ‘R-panels” 22 ga. & 24 ga. Structural Galvalume Steel 1-1/4” x 36” Roof Panels

APPROVAL DOCUMENT: Drawing # R95, titled “PBR Panel Flashing Detail”, sheets 100 through 110, prepared by NCI Group, Inc., dated March 21, 2018, signed and sealed by Mark Detwiler, P.E., on March 21, 2018, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the 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 renews NOA #15-0505.26 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, & E-5 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

MIA-MI DADE COUNTY
APPROVED

05/10/2018

NOA No. 17-0920.04
Expiration Date: 02/27/2023
Approval Date: 05/10/2018

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NCI Group, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 96-0529.03

A. DRAWINGS

1. Title: "R-Panel" Roof Panel
   Number: R95, sheets 100 through 110
   Signature: Terrence E. Wolfe, P.E.
   Date: 05/23/96
   Revision Date: 01/30/97

B. TESTS

1. Laboratory: Farabaugh Engineering and testing, Inc.
   Number: T103-96, dated 01/18/96.
   Type: Uniform static air pressure loading, per ASTM 1592 (22 ga R-Panel)
   Signature: Daniel G. Farabaugh, P.E.

2. Laboratory: Farabaugh Engineering and testing, Inc.
   Number: T102-96, dated 01/11/96
   Type: Uniform static air pressure loading, per ASTM 1592 (24 ga R-Panel)
   Signature: Daniel G. Farabaugh, P.E.

3. Laboratory: Farabaugh Engineering and testing, Inc.
   Number: T104-96, dated 01/05/96
   Type: Large missile impacts, per PA 201-94 (24 ga R-Panel)
   Signature: Daniel G. Farabaugh, P.E.

4. Laboratory: Farabaugh Engineering and testing, Inc.
   Number: T118-96, dated 04/26/96
   Type: Susceptibility to leakage for class 1 metal roof panel, per "FM 4471-G" (24 ga R-Panel)
   Signature: Daniel G. Farabaugh, P.E.

5. Laboratory: West Penn Testing Laboratories, Inc.
   Number: WP-9048 (Report # 034), dated 01/31/96
   Type: Tensile Strength (22 ga R-Panel)
   Signature: Todd A. Ault

   Number: WP-9048 (Report # 034), dated 01/31/96
   Type: Tensile Strength (22 ga and 24 ga R-Panels)
   Signature: Todd A. Ault

[Signature]
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0920.04
Expiration Date: 02/27/2023
Approval Date: 05/10/2018

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NCI Group, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

7. Laboratory: Center For Applied Engineering, Inc.
   Number: MTS No. 257558, dated 03/27/96
   Type: Wind Driven Rain Test per PA 100-95 (24 ga R-Panels)
   Signature: R. G. Miller, P.E.

C. CALCULATIONS
   1. Title: 22 gage and 24 gage R-Panel
      Signature: Terrence E. Wolfe, P.E.
      Date: 05/23/96

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 99-0823.04
   A. DRAWINGS
      1. None.

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

   D. MATERIAL CERTIFICATIONS
      1. None.

   E. STATEMENTS
      1. Letter requesting renewal of NOA No. 96-0529.03 and stating that the product has not changed, dated August 12, 1999, signed by Brian N. Jaks.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-1016.04
   A. DRAWINGS
      1. None.

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0920.04
Expiration Date: 02/27/2023
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NOTICE OF ACCEPTANCE:  EVIDENCE SUBMITTED

D. MATERIAL CERTIFICATIONS
   1. None.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 08-0212.06
   A. DRAWINGS
      1. None.

B. TESTS
   2. Test report on Uniform Static Air Pressure Test on PRB-Panel 22 ga. X 36” wide, per ASTM 1592-01, prepared by Force Engineering & Testing Inc., Report No. 07-0004T-08A, B, dated 01/28/2008, signed and sealed by Terrence E. Wolfe, P.E.
   3. Test report on Uniform Static Air Pressure Test on PRB-Panel 22 ga. X 36” wide, per ASTM 1592-01, prepared by Force Engineering & Testing Inc., Report No. 07-0004T-08C, dated 01/28/2008, signed and sealed by Terrence E. Wolfe, P.E.
   4. Test report on Uniform Static Air Pressure Test on PRB-Panel 24 ga. X 36” wide, per ASTM 1592-01, prepared by Force Engineering & Testing Inc., Report No. 07-0004T-08D, E, dated 01/28/2008, signed and sealed by Terrence E. Wolfe, P.E.
   5. Test report on Uniform Static Air Pressure Test on PRB-Panel 24 ga. X 36” wide, per ASTM 1592-01, prepared by Force Engineering & Testing Inc., Report No. 07-0004T-08F, dated 01/28/2008, signed and sealed by Terrence E. Wolfe, P.E.
   6. Test procedure for wind and wind driven rain resistance of discontinuous roof systems performance for R-Panel Steel Roof 36” wide x 24 ga. Per TAS 100-95, test report # T351-07, dated 12/20/07, signed and sealed by Daniel G. Farabaugh, P.E.

C. CALCULATIONS
   1. None.

D. QUALITY ASSURANCE
   1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS
   1. Tensile Test foe 22 ga. From test # 07-0004T-08A, B.
   2. Tensile Test foe 24 ga. From test # 07-0004T-08A, B.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0920.04
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5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 11-0810.07
   A. DRAWINGS

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

   D. QUALITY ASSURANCE
      1. By Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs.

   E. MATERIAL CERTIFICATIONS
      1. None.

   F. OTHERS
      1. Bill of Sale, assignment and Assumption Agreement.

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0730.02
   A. DRAWINGS

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

   D. QUALITY ASSURANCE
      1. By Miami-Dade County Department of Regulatory and Economic Resources.

   E. MATERIAL CERTIFICATIONS
      1. None.

[Signature]
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0920.04
Expiration Date: 02/27/2023
Approval Date: 05/10/2018
NCI Group, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 15-0505.26
   A. DRAWINGS
      1. Drawing # R95, titled “PBR Panel Flashing Detail”, sheets 100 through 110, prepared by NCI Group, Inc., dated April 14, 2016, signed and sealed by Mark Detwiler, P.E., on April 14, 2016.
   
   B. TESTS
      1. None.
   
   C. CALCULATIONS
      1. None.
   
   D. QUALITY ASSURANCE
      1. By Miami-Dade County Department of Regulatory and Economic Resources.
   
   E. MATERIAL CERTIFICATIONS
      1. None.

8. NEW EVIDENCE SUBMITTED
   A. DRAWINGS
   
   B. TESTS
      1. None.
   
   C. CALCULATIONS
      1. None.
   
   D. QUALITY ASSURANCE
      1. By Miami-Dade County Department of Regulatory and Economic Resources.
   
   E. MATERIAL CERTIFICATIONS
      1. None.
   
   F. STATEMENTS

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0920.04
Expiration Date: 02/27/2023
Approval Date: 05/10/2018
TYPICAL DETAILS OF EAVE WITH GUTTER

DETAIL "A"

1/2" x 3/32" TAPE SEALER (SEAL TO TAPE SEALER AT)

12-14 x 1 LONG-LIFE SELF-DRILLER W/WASHER [FASTENER #3] (6) PER PANEL

1/8 x 3/16 POP RIVET [FASTENER #14] (2) PER STRAP

10-16 x 1 PANCAKE HEAD SELF-DRILLER [FASTENER #12] @ 5'-0" O.C.

12-14 x 1 LONG-LIFE SELF-DRILLER W/WASHER [FASTENER #3] (6) PER PANEL

GUTTER STRAP @ 32" O.C.

INSIDE CLOSURE

OUTSIDE CLOSURE

ISOMETRIC VIEW OF EAVE WITH GUTTER

CROSS SECTION OF EAVE WITH GUTTER
TYPICAL DETAILS OF HIP

CROSS SECTION OF HIP

ISOMETRIC VIEW OF HIP
TYPICAL DETAILS OF PANEL LAPS

12-14 x 1 LONG-LIFE SELF-DRILLER W/ WASHER [FASTENER #3] HIGH SIDE ATTACHMENT (6) PER PANEL

12-14 x 1 LONG-LIFE SELF-DRILLER W/ WASHER [FASTENER #3] EAVE ATTACHMENT (6) PER PANEL

12-14 x 1 LONG-LIFE SELF-DRILLER W/ WASHER [FASTENER #3] INTERMEDIATE ATTACHMENT (3) PER PANEL

1/4-14 x 7/8 LONG-LIFE LAPIERK W/ WASHER [FASTENER #4] @ 12' O.C.

"PBR" PANEL

TRI-BEAD TAPE SEALER

TAPE SEALER

DETAIL "A"

DETAIL "B"

ISOMETRIC VIEW OF "PBR" PANEL ROOF
TYPICAL DETAILS OF HIGH SIDE EAVE

CROSS SECTION OF HIGH SIDE EAVE

ISOMETRIC VIEW OF HIGH SIDE EAVE
TYPICAL DETAILS OF PARAPET RAKE

BEGINNING ON MODULE

FINISHING OFF MODULE
TYPICAL DETAILS OF RIDGE

CROSS SECTION OF RIDGE

12-14 x 1 LONG-LIFE SELF-DRILLER W/ WASH [FASTENER #3] (6) PER PANEL

1/2" X 3/32" TAPE SEALER

1/4-14 x 7/8" LONG-LIFE LAPTEK W/ WASH [FASTENER #4] PER RIDGE CAP

ISOMETRIC VIEW OF RIDGE
TYPICAL DETAILS OF VALLEY

CROSS SECTION OF VALLEY

ISOMETRIC VIEW OF VALLEY
**PBR PANEL CROSS SECTION**

**CONFIDENTIAL FOR OFFICIAL USE ONLY**

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### PANEL PROPERTIES

<table>
<thead>
<tr>
<th>PANEL GAUGE</th>
<th>PANEL THICKNESS</th>
<th>YIELD STRENGTH</th>
<th>TENSILE STRENGTH</th>
<th>ELONGATION</th>
<th>HARDNESS</th>
<th>STEEL COATING</th>
<th>PAINT COATINGS</th>
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</thead>
<tbody>
<tr>
<td>24</td>
<td>.024 MIN.</td>
<td>50 KSI</td>
<td>55-70 KSI</td>
<td>20-36%</td>
<td>50-65 HRB</td>
<td>AZ 55</td>
<td>SIG 300 KYNAR</td>
</tr>
<tr>
<td>22</td>
<td>.029 MIN.</td>
<td>50 KSI</td>
<td>55-70 KSI</td>
<td>20-36%</td>
<td>50-65 HRB</td>
<td>AZ 55</td>
<td>SIG 300 KYNAR</td>
</tr>
</tbody>
</table>

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### PANEL ACCESSORIES

**CONSTRUCTION FASTENERS INC.**
**SPRING STREET AND VAN REED ROAD**
**P.O. BOX 508**
**SOUTH HOUSTON, TX 77587**

**GULF-SEAL SPECIALTIES, INC.**
**P.O. BOX 6326, WYOMISSING PA 19610**
**#14 X 7/8" Lap Tek W/Bond Seal Washer**
**#12 X 1 SDS W/EPDM Washer**
**#12 X 1 Tek 2 W/Bond Seal Washer**
**#14 X 7/8" Lap Tek W/EPDM Washer**
**WG-7 Inside/Outside Closed Cell Polyethylene Foam**

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**SCHNEE MOREHEAD, INC.**
**111 NORTH NURSERY ROAD**
**IRVING, TX 75060**

**PERMATHANE URETHANE CAULK**

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**NOTES:**

1. THE 22 GAGE OR 24 GAGE PBR PANELS SHALL BE USED FOR ROOF CONSTRUCTION ONLY. THE ACTUAL ROOF PROJECT SHALL BE CONSTRUCTED USING THE SAME DETAILS SHOWN ON THESE DRAWINGS INCLUDING:
   - A. DETAILS OF ALL PANEL MATERIAL CHARACTERISTICS AND SECTIONS WITH DIMENSIONS AND THICKNESS
   - B. ASSEMBLY DETAILS INCLUDING ALL CONNECTIONS FASTENERS DIAGRAM WITH SIZE AND LOCATION
   - C. PANEL MAXIMUM SPAN AND PRESSURE FOR THE FIELD PERIMETERS AND CORNERS SHOWN

2. THE MAXIMUM ALLOWABLE SPANS AND Pressures FOR THE 24 GAGE STEEL PANEL ARE AS FOLLOWS:

   - **MAXIMUM PANEL SPAN**  
     - FIELD ZONE *: 4'-0"  
     - PERIMETER ZONE *: 2'-0"
   - **MAXIMUM PRESSURE (psf)**  
     - 50.00
   - **CORNER ZONE**: 1'-0"  
     - 212.00
   - • ONE (1) 3/4" TEK FASTENER PLACED ON ONE SIDE OF EACH RB (i.e. 1-3/4" @ 12")

3. THE MAXIMUM ALLOWABLE SPANS AND Pressures FOR THE 22 GAGE STEEL PANEL ARE AS FOLLOWS:

   - **MAXIMUM PANEL SPAN**  
     - FIELD ZONE **: 4'-0"  
     - PERIMETER ZONE **: 2'-0"
   - **MAXIMUM PRESSURE (psf)**  
     - 53.00
   - **CORNER ZONE**: 1'-0"  
     - 238.00
   - • ONE (1) 3/4" TEK FASTENER PLACED ON EACH SIDE OF EACH RB (i.e. 2-3/4" @ 12"

4. THIS STRUCTURAL ROOF PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2024 AASHTO/FTC FRP CODE AND THE 2014 FRP AS A SUBSTITUTE FOR THE DESIGN PRESSURES AS DETERMINED FROM SECTION 1620 AND 7-10 MUST BE MULTIPLIED BY 0.60.