NOTICE OF ACCEPTANCE (NOA)

McElroy Metal, Inc.
1500 Hamilton Road
Bossier City, LA  71111

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:  Maxima, 0.0245” min. Structural Galvalume Steel Roof Panel

APPROVAL DOCUMENT:  Drawing #1597, titled “Maxima, 24 Gage Structural Galvalume Steel Roof System”, sheets 1 through 4 of 4, dated July 31, 2008, last revision #3 dated July 07, 2017, prepared, signed and sealed by Bala Sockalingam, P.E., bearing the Miami-Dade County Product Control Revision 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/logo, Clinton, IL or Peachtree, GA, 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 revises & renews NOA #12-0831.02 and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.
The submitted documentation was reviewed by Helmy A. Makar, P.E., M.S.

NOA No. 17-0802.13
Expiration Date: 09/13/2022
Approval Date: 03/29/2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0826.04

A. DRAWINGS

B. TESTS
1. Test reports on 1) Uniform Static Air Pressure Test, Loading per ASTM E1592 and 2) Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram 24 GA 16” steel roof panel, prepared by Hurricane Test Laboratory, Inc., Test Report No. 0420-0216-06 and 0420-0313-06, dated 05/25/2006, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems, TAS 100-95 along with marked-up drawings and installation diagram 24 GA 16” steel roof panel, prepared by Asphalt Technologies, Inc., Test Report No. NBS-002-02-01, dated 03/30/2006, signed and sealed by Charles L. Thomas, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per ASTM E1592 along with marked-up drawings and installation diagram 24 GA 16” steel roof panel, prepared by Hurricane Test Laboratory, Inc., Test Report No. 0420-0610-07, dated 07/12/2007, signed and sealed by Vinu J. Abraham, P.E.
5. Test Report for Susceptibility to Leakage for roof system assemblies per TAS-114, dated 04/03/2006, signed and sealed by Charles L. Thomas, P.E.

C. CALCULATIONS
1. Fasteners Calculations and structural analysis, prepared by Bala Sockalinggam, P.E., dated 07/07/2006, signed and sealed by Bala Sockalinggam, P.E.
2. Fasteners Calculations and structural analysis, prepared by Bala Sockalinggam, P.E., dated 07/24/2007, signed and sealed by Bala Sockalinggam, P.E.

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

E. MATERIAL CERTIFICATION
2. Tensile Test prepared by QC Metallurgical, Inc., Project No. 6FM-501, dated 06/19/2006, for steel samples, tested per ASTM E8-00, signed and sealed by Frank Grate, P.E.

F. OTHERS
1. Private Labeling agreement with Manufacturer of NOA # 06-0803.04

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0802.13
Expiration Date: 09/13/2022
Approval Date: 03/29/2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 09-0715.01
   A. DRAWINGS

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

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

   E. MATERIAL CERTIFICATION
      1. None.

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-0831.02
   A. DRAWINGS
      1. Drawing #1597, titled “Maxima, 24 Gage Structural Galvalume Steel Roof System”, sheets 1 through 4 of 4, dated July 31, 2008, last revision #2 dated August 10, 2012, prepared, signed and sealed by Bala Sockalingam, P.E.

   B. TESTS
      1. None.

   C. CALCULATIONS
      1. None.

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

   E. MATERIAL CERTIFICATION
      1. None.

Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-0802.13
Expiration Date: 09/13/2022
Approval Date: 03/29/2018
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED
A. DRAWINGS
   1. Drawing #1597, titled “Maxima, 24 Gage Structural Galvalume Steel Roof System”, sheets 1 through 4 of 4, dated July 31, 2008, last revision #3 dated July 07, 2017, prepared, signed and sealed by Bala Sockalingam, P.E.

B. TESTS
   1. None.

C. CALCULATIONS
   1. None.

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

E. MATERIAL CERTIFICATION
   1. None.

F. OTHERS
GENERAL NOTES:
1. THIS STRUCTURAL ROOF PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH 2014 & 2017 FLORIDA BUILDING CODE (F.B.C.). THE DESIGN PRESSURES AS DETERMINED FROM SECTION 1600 AND ASCE 7-10 MUST BE MULTIPLIED BY 0.6.
2. ROOF PANELS ARE FABRICATED FROM A MAX. 22.5" WIDE COIL & SHALL BE 24 GA. (G = 0.0245") ASTM 792 GRADE B STEEL WITH A SUZUKED POLYESTER COATING APPLIED. EFFECTIVE COVERING WIDTH OF PANEL = MAX. 166". Fy = 56.4 ksi (MIN.)
3. THE ROOF PANELS SHALL BE INSTALLED OVER ROOF STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
4. PANEL END OVERLAPS MAY OCCUR WITHIN 12" OF SUPPORTING PURLIN WEB PROVIDING THE END LAPS ARE CONSTRUCTED, SUPPORTED & SEALED PER THE END LAPT DETAIL ON SHEET 3.
5. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT.
6. THIS ROOFING PANEL SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE.
   • ACCELERATED TESTING OF COATING PER ASTM G153
   • SALT SPRAY TESTING PER ASTM B117
   • UPLIFT RESISTANCE TEST PER TAS-125 & ASTM E1392
   • WIND DRIVEN RAIN & STANDING WATER TESTS PER TAS-100 & TAS-114
   • TENSILE TESTS PER ASTM E8
7. ROOF PANEL MANUFACTURER'S PERMANENT LABEL SHALL BE PLACED AT THE END OF EACH PANEL RUN AND SHALL READ: "MCLOREY METAL INC. CLINTON, IL & PEACHTREE CITY, GA. MAMM-DALE COUNTY PRODUCT CONTROL APPROVED".
8. ALL SCREWS SHALL BE CORROSION RESISTANT SELF DRILLING SCREWS.
9. THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GAQ (MIN. 0.0598") STEEL WITH MIN. Fy = 50 KSI.
10. MAXIMUM POSITIVE AND NEGATIVE DESIGN LOADS FOR 24 GA. MAXIMA WITH 90° OR 180° SEAM IN THE ROOF FIELD, PERIMETER AND CORNER ZONES SHALL BE THE LOWEST DESIGN LOAD CALCULATED BASED ON THE PANELS ALLOWABLES AND CLIP TYPE SHOWN. MAXIMUM ALLOWABLE DEFLECTION LIMIT = 1/240.

<table>
<thead>
<tr>
<th>PANEL ALLOWABLES</th>
<th>FOR POSITIVE LOAD *</th>
<th>FOR UPLIFT LOAD *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ALL SEAM TYPES</td>
<td>90° SEAM</td>
</tr>
<tr>
<td>A (SUPPORT) (lb/ft.)</td>
<td>125</td>
<td>86</td>
</tr>
<tr>
<td>B (SPAN) (lb/ft.)</td>
<td>100</td>
<td>69</td>
</tr>
<tr>
<td>ROA (in/lb.)</td>
<td>270</td>
<td>189</td>
</tr>
<tr>
<td>EI (in^3/lb)</td>
<td>4074248</td>
<td>1654505</td>
</tr>
</tbody>
</table>

* SEE NOTE 10.

TYPICAL PANEL PROFILE
24 GA. GALVALUME COATED STEEL WITH PAINTED FINISH (t = 0.0245" MIN.)

PRODUCT APPROVAL IS LIMITED TO THE ROOF PANEL & ITS CONNECTING CLIPS. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS (BEAMS, COLUMNS, PURLINS, PFA, SUPPORTS, CONNECTIONS OF STRUCTURE, ETC.) SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL ROOF PANELS SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAGM.
SECTION
VALLEY DETAIL

VERTICAL AND HORIZONTAL BEAD OF TUBE CAULK (12" LONG)

INSULATION PAN

VALLEY PLATE (40" WIDE, 16 GA.)

PURLIN

DIVERTER FLASH (20" WIDE, 26 GA.)

HAT CHANNEL (16 GA.) WITH (2) 1/4"-1/4 SDS AT EACH SUPPORT

#12-14 SDS WITH WASHER @ 4" O.C.

#10-16 PANCAKE HEAD SDS (Ø 24" OC)

#12-14 SDS WITH WASHER (4 PER PANEL)

5"

BACK OF RAKE ANGLE

3/4" X 1/8" TAPE MASTIC BETWEEN PANEL & RAKE ANGLE

RAKE ANGLE (16 GA.)

RAKE ANGLE CLIP (16 GA.)

1/4-14 SDS (1 PER SUPPORT)

RAKE ANGLE (16 GA.)

RAKE ANGLE (16 GA.)

RAKE TRIM 12" DEEP X 9-3/8" WIDE, 26 GA. GALV.

CAP TRIM

EAVE TRIM 9" DEEP X 1-1/2" WIDE, 26 GA. GALV.

EAVE STRUT (BY OTHERS)

WALL PANEL FASTENERS (BY OTHERS)

WALL PANELS (BY OTHERS)

RAKE TRIM RETAINER

NOTE: ALL FLASHING MATERIAL NOT CALLED OUT WITH A SPECIFIC GAGE THICKNESS SHALL BE MIN. 26 GAGE.
RAKE ANGLE CLIP (16 GA. GALV.)

RAKE ANGLE (16 GA. GALV.)

EAVE PLATE (18 GA. GALV.)

RAKE RETAINER TRIM (26 GA.)

EAVE TRIM (26 GA.)

SCULPTURED RAKE TRIM (26 GA.)

DIVERTER FLASH (26 GA.)

BACK-UP PLATE (16 GA. GALV.)

TAPE SEALANT (3/4"x1/8"x50') Butyl
(2-1/4"x3/16"x20') Butyl
(2"x1/8"x22") Butyl

TUBE SEALANT

CLIP FASTENER 1/4-14 SDS 1-1/4" LONG

FLASHING/PERIMETER FASTENER 12-14 SDS WITH WASHER 1-1/4" LONG

ALL FLASHING MATERIAL - ALUMINUM/ZINC COATED STEEL