

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Butler Manufacturing A Division of BlueScope Buildings North America, Inc. 13500 Botts Road Grandview, Missouri 64030

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: "MR-24" 0.032" (min.) Galvalume Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on August 24, 2023, 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 w/the manufacturer's name or logo, Jackson, TN, 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 NOA #20-0922.07 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, E-5 & E-6 as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

Helg A. Noto

NOA No. 23-0908.03 Expiration Date: 12/09/2024 Approval Date: 11/23/2023

Page 1

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 99-0816.08

A. DRAWINGS

1. Drawing No. B, sheets 1 through 6 of 6, prepared by Suresh C. Satsangi, P.E., dated November 4, 1999, signed and sealed by Suresh C. Satsangi, P.E.

B. TESTS

- 1. Test report on Uplift Resistance per UL 580 Class 90 on MR-24 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0063-0311-99, dated 03/22-24/99, signed and sealed by Vinu J. Abraham, P.E.
- 2. Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G26-96, prepared by Celotex, Report No. 520223, dated 08/02/99, signed and sealed by R. C. Miller, P.E.
- 3. Test report on Salt Spray of Coating 1000 hours per ASTM B117-95, issued by Celotex, Report # 520223, dated 08/02/99, signed & sealed by R. C. Miller, P.E.
- 4. Susceptibility to leakage test in accordance with Miami-Dade County Protocol PA 114 Appendix G, prepared by Celotex, Report No. 520223-1, dated 07/01/99, signed and sealed by R. C. Miller, P.E.

C. CALCULATIONS

1. Calculations titled "MR-24 Wind Load Design for Roof", dated 07/28/99, pages 1 through 10 of 10, prepared by Suresh C. Satsangi, P.E., signed and sealed by Suresh C. Satsangi, P.E.

D. MATERIAL CERTIFICATIONS

- 1. Mill Certified Test Report issued by U. S. Steel Group, dated 01/21/99, with chemical composition and mechanical properties of galvalume steel.
- 2. Tensile Test on specimen #3 of Test # 0063-0311-99, Report #9CM-777A, issued by QC Metallurgical, Inc., dated 04/23/99, signed & sealed by Frank Grate, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-1211.09

A. DRAWINGS

1. Drawing No. B, titled "Mr-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing Company, dated 01/06/03, sheets 1 & 2 of 6, and 11/04/99, sheets 3, 4, 5, & 6 of 6, signed & sealed by John Ernest Lamb, P.E. on 01/16/03.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No. 23-0908.03 Expiration Date: 12/09/2024

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0803.01

A. DRAWINGS

1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing Company, dated 07/12/2004, sheets 1 & 2 of 6, & 11/04/1999, sheets 3, 4, 5, & 6 of 6, all signed & sealed by John Ernest Lamb, P.E. on 07/25/2004

B. TESTS

1. None.

C. CALCULATIONS

1. Calculations titled "MR-24 Roof Panel", dated 07/08/04, 5 pages, prepared by Myron Kottwitz, P.E., signed and sealed by Myron Kottwitz.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0208.04

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-1112.11

E - 2

A. DRAWINGS

1. None.

B. TESTS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 23-0908.03

Expiration Date: 12/09/2024 Approval Date: 11/23/2023

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0811.17

A. DRAWINGS

1. Drawing #B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, issued by Butler Manufacturing Company, signed & sealed by Russell Benton, P.E., on 09/15/09.

B. TESTS

1. Test report on Uplift Resistance per ASTM 1592 on MR-24 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0063-0904-08, dated 12/19/08, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #10-0901.20

A. DRAWINGS

1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on August 20, 2010.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. By Miami-Dade County Building and Neighborhood Compliance Department.

E. MATERIAL CERTIFICATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 23-0908.03 Expiration Date: 12/09/2024

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0520.16

A. DRAWINGS

1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on June 10, 2014.

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.

9. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #14-0922.03

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. OUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

10. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #17-0803.42

A. DRAWINGS

1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on September 27, 2017.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

NOA No. 23-0908.03 Expiration Date: 12/09/2024

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- D. QUALITY ASSURANCE
 - 1. By Miami-Dade County Department of Regulatory and Economic Resources.
- E. MATERIAL CERTIFICATIONS
 - 1. None.
- 11. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #19-0708.07
- A. DRAWINGS
 - 1. None.
- 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.
- 12. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #20-0922.07
- A. DRAWINGS
 - 1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on September 11, 2020.
- 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
 - 1. FBC, 2020 Edition compliance letter, prepared by Butler Manufacturing, A Division of BlueScope Buildings NA, Inc., signed & sealed by Russell L. Benton, P.E., on 09/11/20

Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor NOA No. 23-0908.03

Expiration Date: 12/09/2024 Approval Date: 11/23/2023

A Division of BlueScope Buildings North America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

13. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. B, titled "MR-24 Roof Panel", sheets 1 through 6 of 6, prepared by Butler Manufacturing, A Division of BlueScope Buildings North America, Inc., signed & sealed by Russell L. Benton, P.E., on August 24, 2023.

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

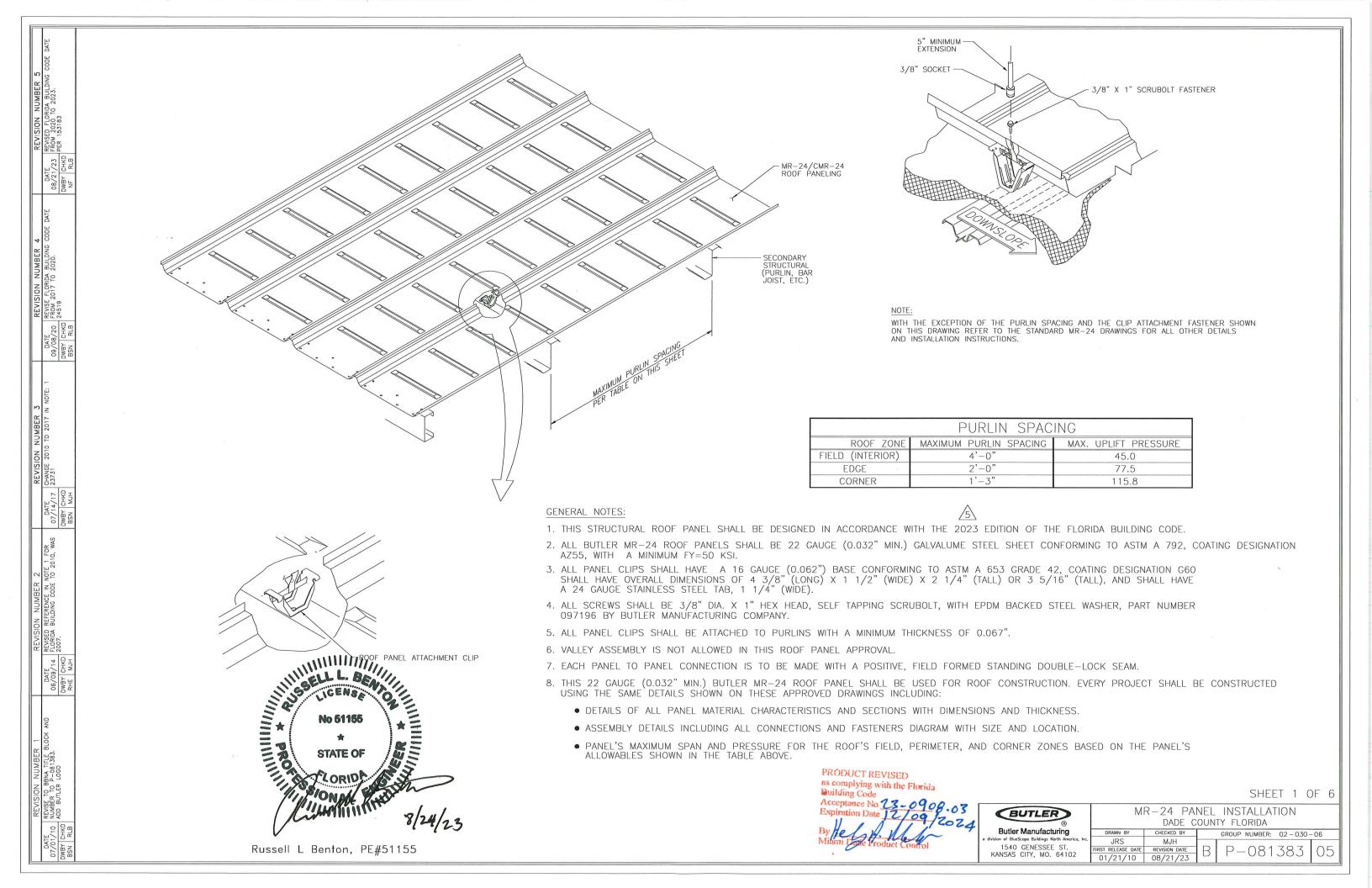
1. None.

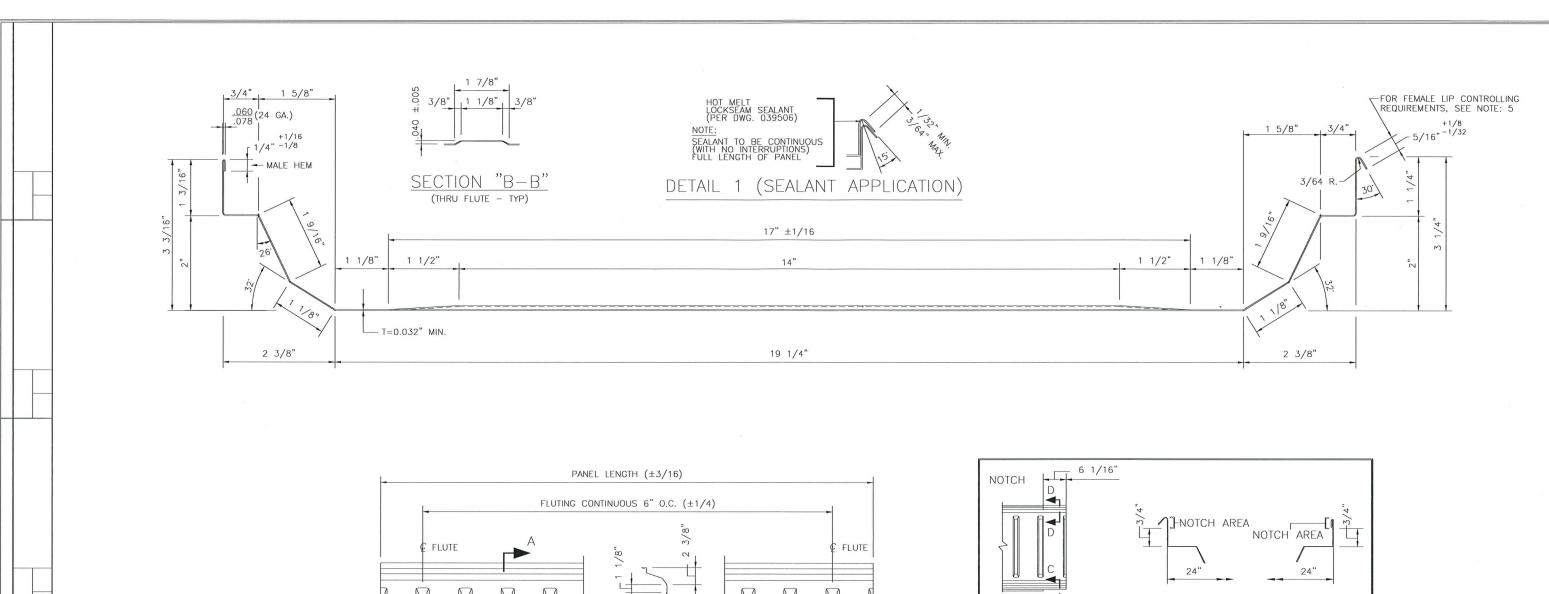
F. STATEMENTS

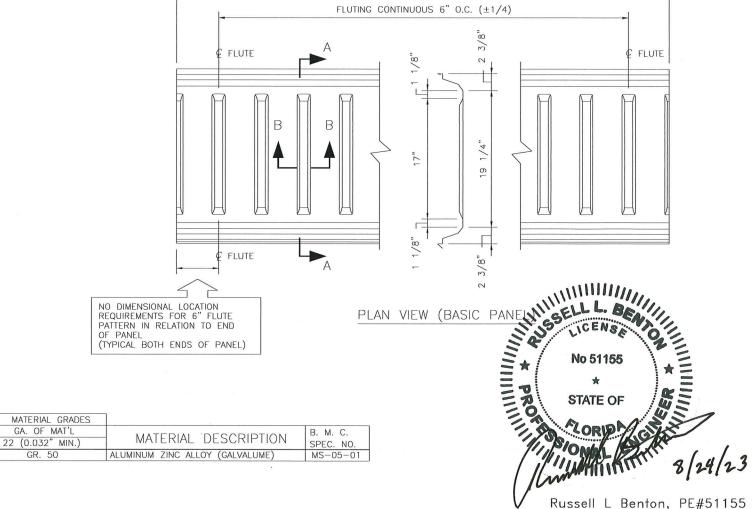
1. FBC, 2023 Edition compliance letter, prepared by Butler Manufacturing, A Division of BlueScope Buildings NA, Inc., signed & sealed by Russell L. Benton, P.E., on 08/22/2023.

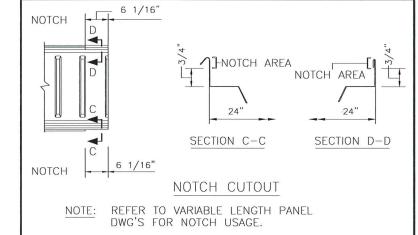
Helmy A. Makar, P.E., M.S. Product Control Section Supervisor

> NOA No. 23-0908.03 Expiration Date: 12/09/2024









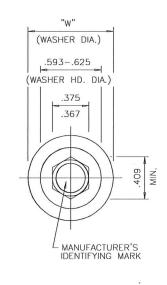
NOTES:

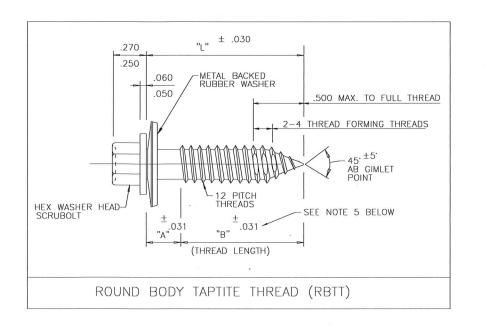
- 1. DIMENSIONAL TOLERANCES = $\pm 1/32$ (EXCEPT AS NOTED)
- 2. ALL INSIDE FORMING RADII = 1/32 (EXCEPT AS NOTED)
- 3. ANGLE TOLERANCES ±2' (EXCEPT AS NOTED)
 (ANGLES TO BE MEASURED FROM A FLAT PLANE WITH PANEL HELD TO THAT PLANE WITHOUT DISTORTION OF FABRICATED CROSS—SECTIONAL SHAPE AND WITH OUTSIDE CORRUGATIONS FREE).
- 4. CROSS SECTIONAL TOLERANCES SHOWN TO BE HELD THROUGHOUT LENGTH OF PANEL EXCEPT WHERE PANEL IS DISTORTED BY SHEARING OR BENDING. (MAXIMUM ALLOWABLE LATERAL OR VERTICAL DISTORTION BY THE SHEARING OPERATIONS IS $\pm 1/32$ FROM "AS ROLLED SHAPE")
- 5. THE LENGTH OF FEMALE LIP MUST BE AT LEAST 1/16" LONGER THAN THE MALE HEM.

PRODUCT REVISED as complying with the Florid.

SHEET 2 OF 6

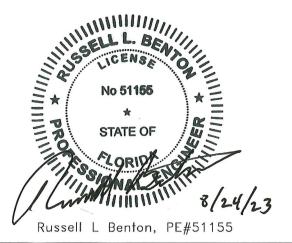
| BUTLER | MR-24 ROOF PANEL DADE COUNTY FLORIDA | | | | | |
|---|---|---------------|---|------------------------|-----|--|
| Butler Manufacturing | DRAWN BY | CHECKED BY | | GROUP NUMBER: 02 - 030 | -06 | |
| a division of BlueScope Buildings North America, Inc. | JRS | MJH | | | | |
| 1540 GENESSEE ST. | FIRST RELEASE DATE | REVISION DATE | R | P - 081384 | 102 | |
| KANSAS CITY, MO. 64102 | 01/21/10 | 07/17/17 | | 1 001304 | 02 | |
| | | | | | | |





| | ASSEMBLY | | SCRUBOLT WITHOUT WASHER | | | | | METAL BACKED RUBBER WASHER | | | |
|-----|----------|--------|-------------------------|------------|------------------------------|--------|------------|----------------------------|--------------------|------|--------------------|
| | | | SCRUBOLT PART NO. | MATERIAL | NOMINAL SIZE (SEE NOTE 6) | "∟" | "A" | "B" | WASHER PART NO. | "W" | WASHER DWG. NO. |
| - | PART NO. | WEIGHT | 17/11/1 140. | | (SEE NOTE 0) | | | | I AKT NO. | | BWG. 146. |
| | 095984 | 0.031 | 095304 | SS NOTE 1 | 11/32" X 7/8" | .875" | SEE NOTE 4 | .875" | 097436 | .729 | 095016 |
| | 096932 | 0.038 | 096930 | ST. NOTE 2 | 3/8" X 1 1/4" | 1.25" | SEE NOTE 4 | 1.250" | 095154 | .729 | 095016 |
| | 097104 | 0.039 | 097103 | SS NOTE 1 | 11/32" X 1 1/4" | 1.25" | SEE NOTE 4 | 1.250" | 097436 | .729 | 095016 |
| | 097196 | 0.039 | 097195 | ST. NOTE 2 | 3/8" X 1" | 1.00" | SEE NOTE A | 100" | 095154 | .729 | 095016 |
| 3/[| 097222 | 0.055 | 097221 | ST. NOTE 2 | 3/8" X 2" | 2.00"(| SEE NOTE 4 | 2.00" | 095154 | .729 | 095016 |
| _,[| 097264 | 0.074 | 096931 | ST. NOTE 2 | 3/8" X 2 3/4" | 2.75" | -750 | 2.00 | 095154 | .729 | 095016 |
| | 097270 | 0.060 | 097268 | ST. NOTE 2 | 3/8" X 2 1/4" | 2.25" | .250" | 2.00" | 095154 | .729 | 095016 |
| ſ | 097271 | 0.086 | 097269 | ST. NOTE 2 | 3/8" X 3 1/2" | 3.50" | .500" | 3.00" | 095154 | .729 | 095016 |
| | 097292 | 0.125 | 097291 | ST. NOTE 2 | 3/8" X 5" | 5.00" | 2.000" | 3.00" | 095154 | .729 | 095016 |
| - [| 097298 | 0.145 | 097297 | ST. NOTE 2 | 3/8" X 6" | 6.00" | 3.000" | 3.00" | 095154 | .729 | 095016 |

SEE NOTE 5



MATERIALS:

- 1. 410 STAINLESS WITH CLEAR CHROMATE, MS-06-03
- 2. CARBON STEEL WITH YELLOW CHROMATE MS-06-03
- 3. WASHER SPEC. AND DIMENSIONS SEE DWG 095016

SCRUBOLT WITH FULL THREADS:

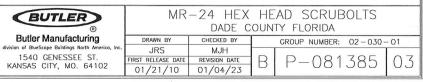
HAS A ± .050 TOLERANCE

- 4. FULL THREAD TO WITHIN 1 THREAD OF HEAD AND SHANK JUNCTURE.
- 5. 3" THREAD LENGTH
- 6. DIAMETER OF 3/8" SCRUBOLT IS .367±.003 DIAMETER OF 11/32" SCRUBOLT IS .345±.003

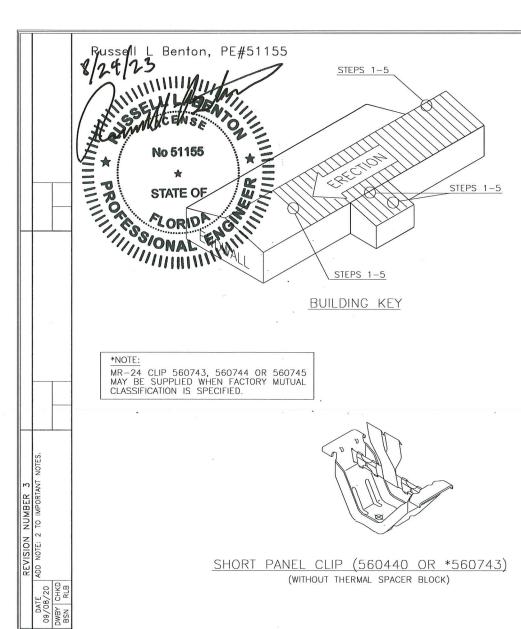
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23 - 0 9 8 . 0
Expiration Date 12 / 09 / 2024

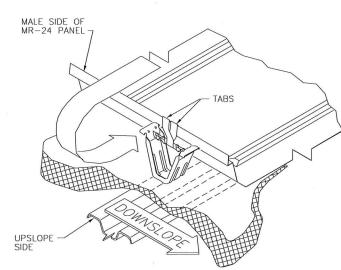
By Helph.
Miunti Dec Product Control

SHEET 3 OF 6

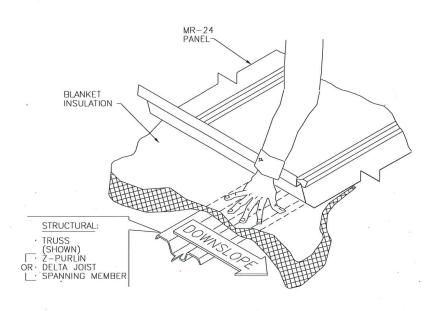


| REVISION NUMBER 1 | DATE | DATE | DATE | DATE | DATE | DATE | DOCK AND | DATE | DATE





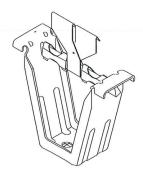
HOOK PANEL CLIP TABS STEP 3 OVER PANEL AND ROTATE CLIP INTO POSITION



STEP 1 LOCATE STRUCTURAL



FROM THE ADJACENT MR-24 PANEL. LOCATE THE STRUCTURAL UNDER THE BLANKET INSULATION.



DRIFT PIN

UPSLOPE SIDE

LOCATE HOLE IN STRUCTURAL STEP 2 WITH DRIFT PIN

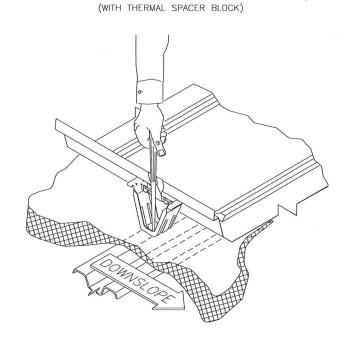
IMPORTANT NOTE: ALWAYS LOCATE PANEL CLIPS ON THE UPSLOPE SIDE OF TRUSS OR DELTA JOIST. (FOR DELTA JOIST SYSTEM, AT THE HIGH SIDE OF SINGLE SLOPE MOUNT CLIP ON ROOF SUPPORT ANGLE.)





WARNING

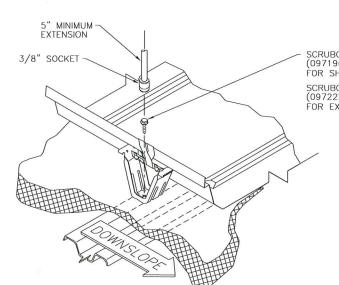
ALWAYS USE FALL PROTECTION WHILE WORKING AROUND ROOF OPENINGS.



TALL PANEL CLIP (560441 OR *560744)

STEP 4

TEMPORARILY SECURE THE PANEL CLIP WITH A DRIFT PIN



SCRUBOLT (097196) 3/8" X 1" FOR SHORT AND TALL CLIPS SCRUBOLT.

(097222) 3/8" X 2" FOR EXTRA TALL CLIP PRODUCT REVISED as complying with the Florida

IMPORTANT NOTES:

- 1. ALWAYS MAKE SURE TABS ARE CENTERED IN THE MR-24 CLIP AFTER THE CLIP IS INSTALLED.
- 2. PANEL CLIPS MUST BE ATTACHED TO ALL ROOF SECONDARY SUPPORT MEMBERS INCLUDING ALL INTERMEDIATE MEMBERS, SUB-PURLINS, ETC.

INSTALL SCRUBOLT FASTENER STEP 5

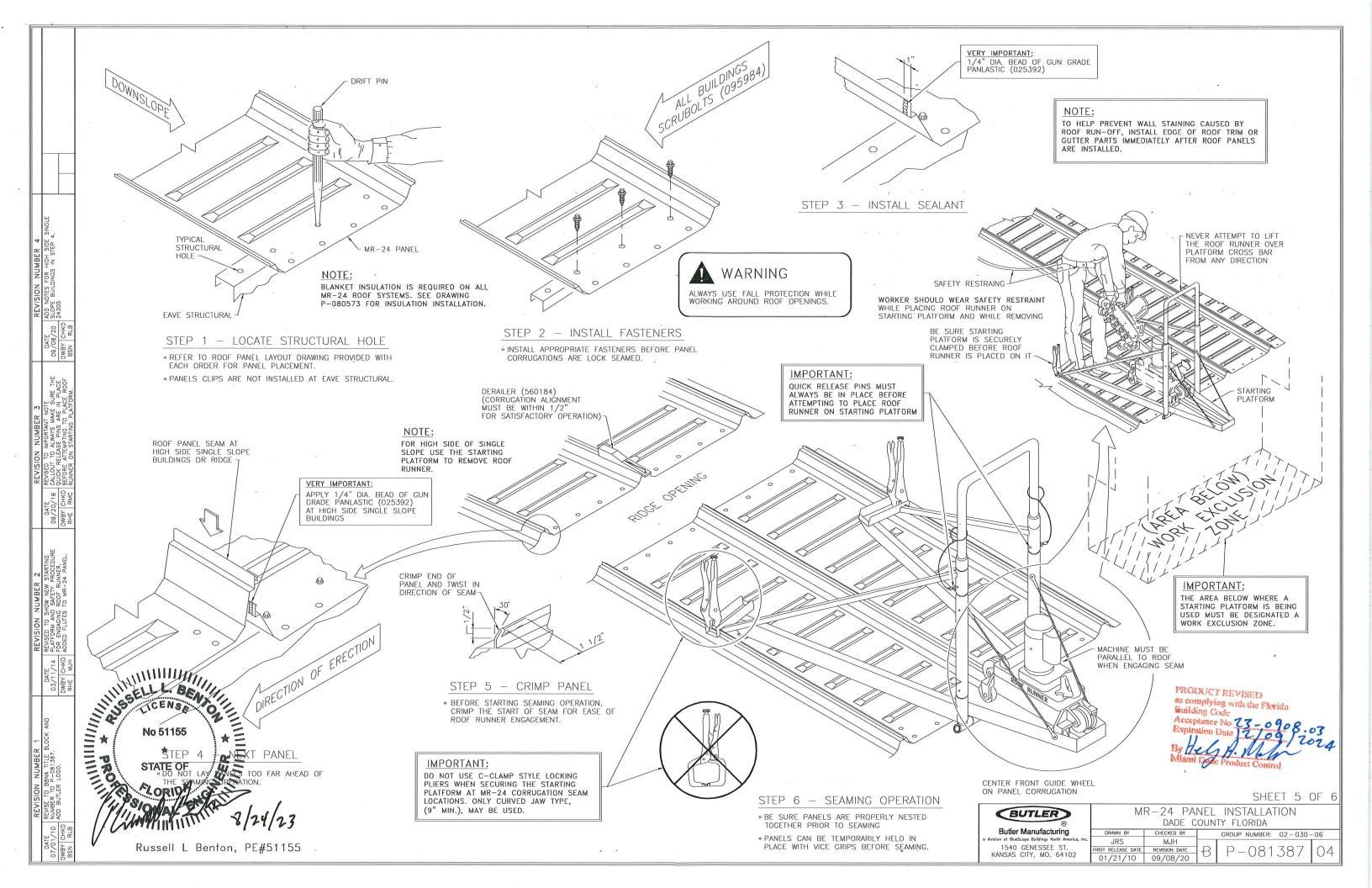
SHEET 4 OF 6

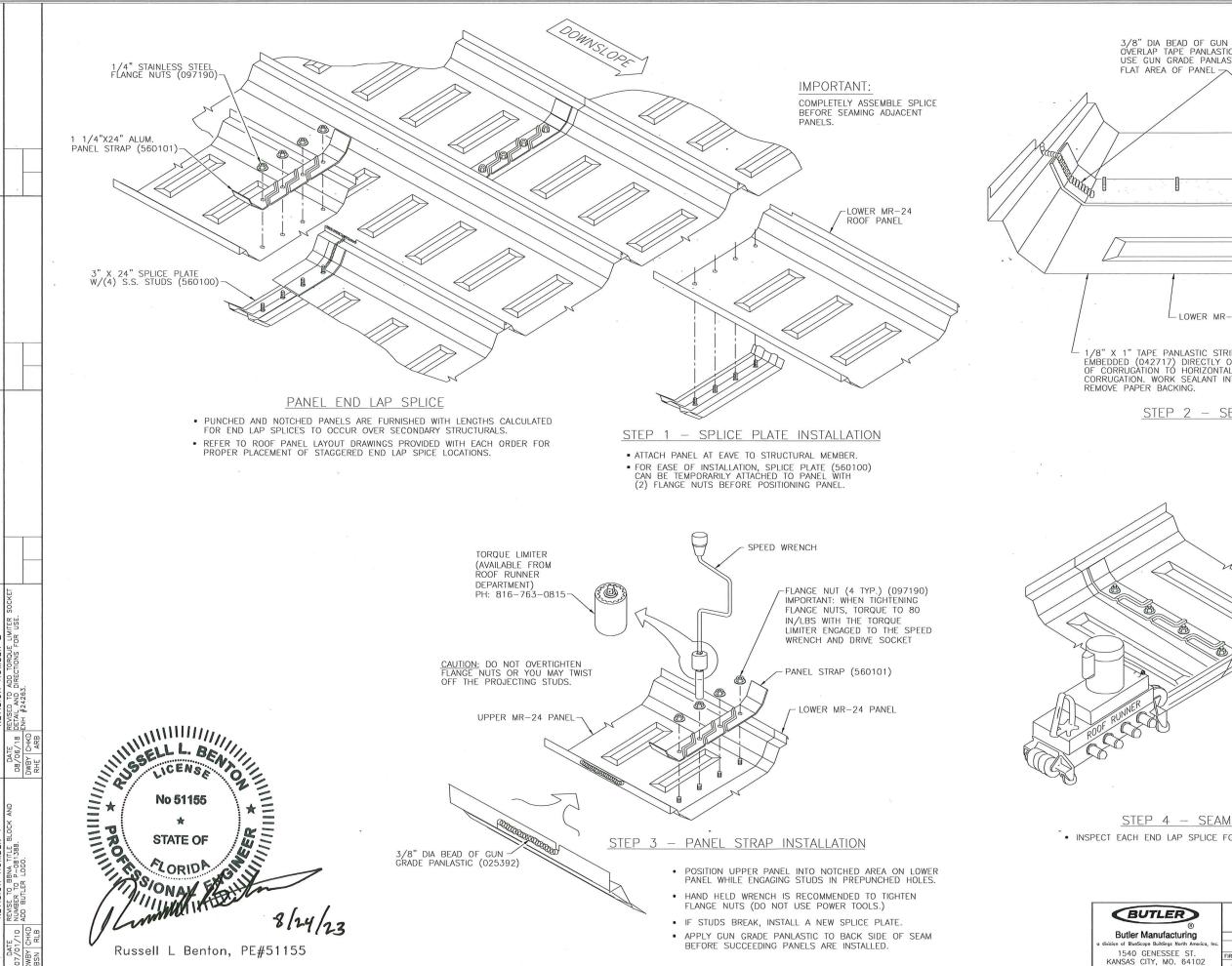
INSTALLATION OF SCRUBOLT REQUIRES A 3/8" SOCKET AND A 5" (MINIMUM) EXTENSION.

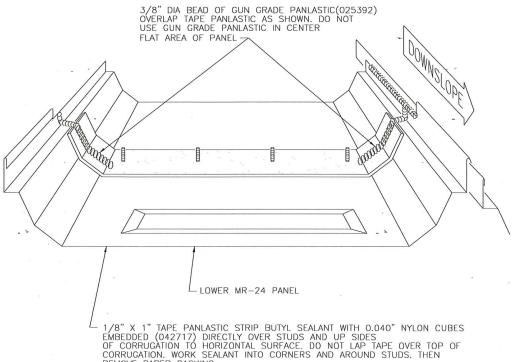
| (BUTLER) | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| Butler Manufacturing | | | | | | | | | |
| division of BlueScope Buildings North America, | | | | | | | | | |

1540 GENESSEE ST. KANSAS CITY, MO. 64102 MR-24 PANEL CLIP INSTALLATION DADE COUNTY FLORIDA

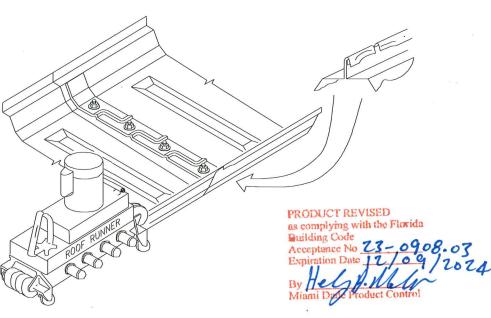
CHECKED BY GROUP NUMBER: 02 - 030 - 06 JRS MJH REVISION DA P - 08138601/21/10 09/08/20







STEP 2 - SEALANT APPLICATION



STEP 4 - SEAMING OPERATION

• INSPECT EACH END LAP SPLICE FOR PROPER FIT AND WEATHER TIGHTNESS.

SHEET 6 OF 6

| 2 | | | | | CONTRACTOR AND | XI 2000 | | |
|---|---|---------------------|---------------|----|--|---------------------|--|--|
| | BUTLER | | MR-24 E | ND | LAP SPLICE | 4 | | |
| | R | DADE COUNTY FLORIDA | | | | | | |
| | Butler Manufacturing | DRAWN BY | CHECKED BY | | GROUP NUMBER: 02 - 030 - | MBER: 02 - 030 - 06 | | |
| | a division of BlueScope Buildings North America, Inc. | JRS | MJH | | | | | |
| | 1540 GENESSEE ST. | FIRST RELEASE DATE | REVISION DATE | R | P_081388 | 02 | | |
| | KANSAS CITY, MO. 64102 | 01/21/10 | 08/06/18 | | 1 001300 | UZ | | |