



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)

Whirlwind Building Systems
8234 Hansen Road
Houston, TX 77075

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: Weather Lok-16, 24 ga. (0.024" min.) Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8 of 8, prepared by Whirlwind Building Systems, dated March 27, 2002, revised on March 25, 2021 signed and sealed by Ronald H. Mays, P.E., on April 09, 2021, 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 #23-1017.22 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4, and E-5 as well as approval document mentioned above.

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



Helmy A. Makar
08/01/24

NOA No. 24-0717.03
Expiration Date: 08/15/2025
Approval Date: 08/01/2024
Page 1

Wirlwind Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0708.01

A. DRAWINGS

1. *Manufacturer's die drawings and sections.*
2. *Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8, prepared by manufacturer on 03/27/02, signed & sealed by Terrence E. Wolfe, P.E.*

B. TESTS

1. *Test reports on 1) Uniform Static Air Pressure Test, Loading per PA-125-95 per ASTM 1592-98 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T191-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.*
2. *Test reports on 1) Uniform Static Air Pressure Test, Loading per PA-125-95 per ASTM 1592-98 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T190-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.*
3. *Test reports on 1) Large Missile Impact Test per SFBC, PA 201-94 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T209-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.*
4. *Test reports on 1) Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems, P 100-95 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Asphalt Technologies, Inc., Test Report No. DDI-001-02-01, dated 12/11/01, signed and sealed by Charles L. Thomas, P.E.*

C. CALCULATIONS


1. *Anchor Calculations and structural analysis, prepared by Terrence E. Wolfe, P.E., dated 4/3/02, signed and sealed by Terrence E. Wolfe, P.E.*

D. MATERIAL CERTIFICATION

1. *Mill Certificate, prepared by Metal Prep, dated 7/12/02.*
2. *Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T191-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.*
3. *Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T190-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.*
4. *Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T209-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.*

E. STATEMENTS

1. *Letter of conformance, dated 2/5/02, signed & sealed by Terrence E. Wolfe, P.E.*
2. *Statement letter of no financial interest, dated 2/5/02, signed by Terrence E. Wolfe, P.E., and signed and sealed by Debra Parten.*


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

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. OTHER

1. *Letter from Maurice Gray Associates, Inc.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-1102.02

A. DRAWINGS

1. *Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8 of 8, prepared by Whirlwind Building Systems, dated March 27, 2002, last revision #1 dated June 17, 2005, signed and sealed by Terrence E. Wolfe, P.E.*

B. TESTS

1. *Test reports on Susceptibility to Leakage test for Roof System Assemblies, TAS 114 Appendix G along with drawings and installation diagram of 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T178-04, dated 05/03/05, signed and sealed by Daniel Farabaugh, P.E.*

C. CALCULATIONS

1. *Fastener Calculations, prepared by Terrence E. Wolfe, P.E., dated 06/21/05, signed and sealed by Terrence E. Wolfe, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0813.04

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 CERTIFICATION

1. *None.*



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

Product Control Section Supervisor

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Whirlwind Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 12-1204.08

A. DRAWINGS

1. *Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8 of 8, prepared by Whirlwind Building Systems, dated March 27, 2002, signed and sealed by Dennis L. Johnson, P.E., on June 30, 2013.*

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.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 18-0522.06

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 CERTIFICATION

1. *None.*

F. STATEMENTS

1. *Statement letter of FBC 2017 Edition conformance, dated 05/08/18, signed and sealed by Terrence E. Wolfe, P.E.*



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

Product Control Section Supervisor

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Whirlwind Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 19-0711.04

A. DRAWINGS

1. *Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8 of 8, prepared by Whirlwind Building Systems, dated March 27, 2002, signed and sealed by Ronald H. Mays, P.E., on August 21, 2019.*

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. STATEMENTS

1. *Statement letter of FBC 2017 Edition conformance, dated 08/22/19, signed and sealed by Ronald H. Mays, P.E.*

7. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 21-0419.12

A. DRAWINGS

1. *Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8 of 8, prepared by Whirlwind Building Systems, dated March 27, 2002, revised on March 25, 2021 signed and sealed by Ronald H. Mays, P.E., on April 09, 2021.*

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. STATEMENTS

1. *Statement letter of FBC 2020 Edition conformance, dated 04/09/21, signed and sealed by Ronald H. Mays, P.E.*

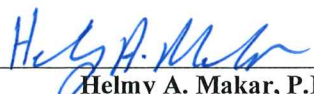


Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0717.03
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Approval Date: 08/01/2024

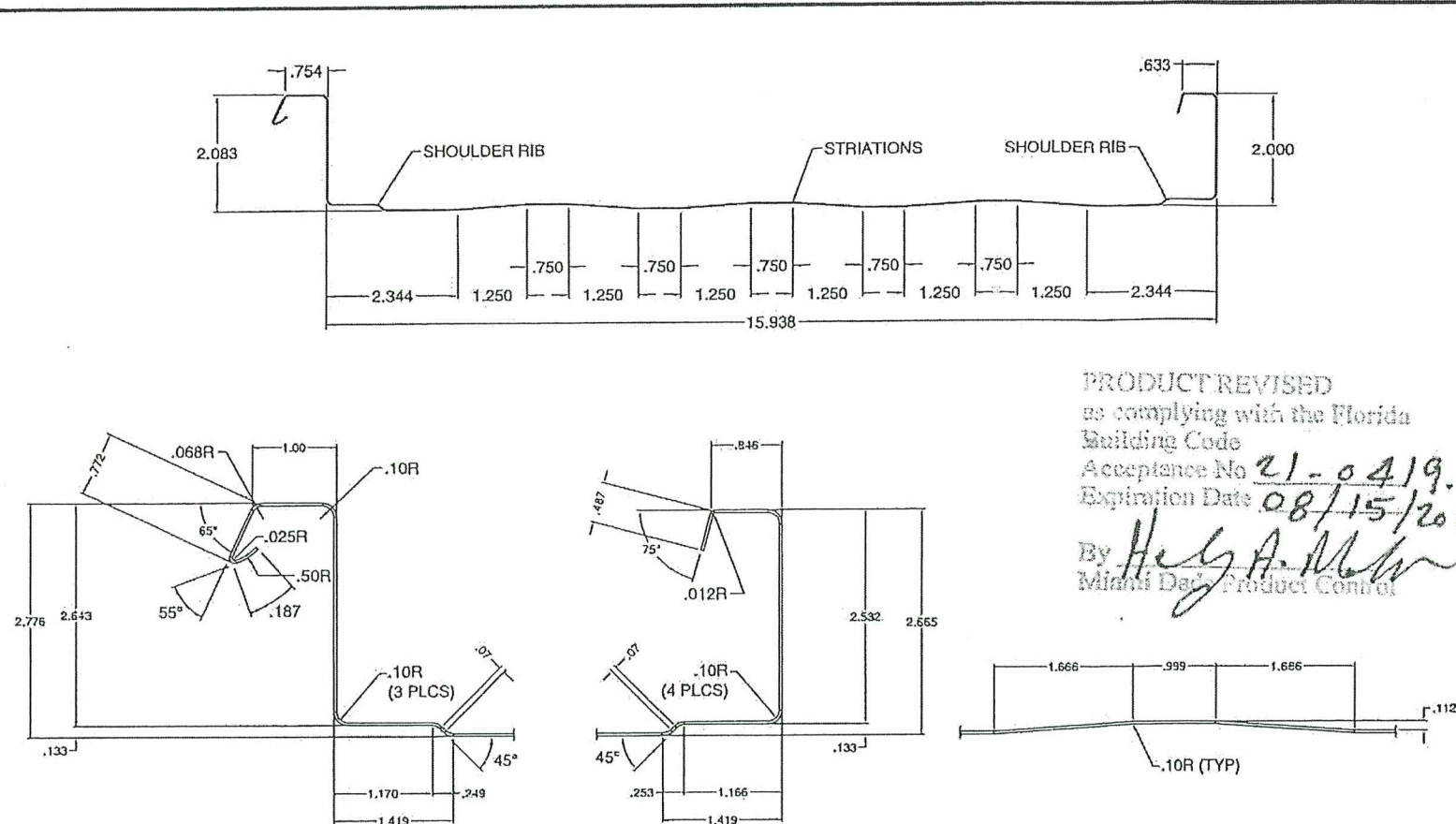
Wirlwind Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 8. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 23-1017.22**
- 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 CERTIFICATION**
1. *None.*
- F. STATEMENTS**
1. *Statement letter of FBC 2023 Edition conformance, dated 08/24/2023, signed and sealed by Ronald H. Mays, P.E.*
- 9. NEW EVIDENCE SUBMITTED**
- 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 CERTIFICATION**
1. *None.*
- F. STATEMENTS**
1. *Statement letter of FBC 2023 Edition conformance, dated 06/17/2024, signed and sealed by Ronald H. Mays, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 24-0717.03
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PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0419.12
Expiration Date 08/15/2024
By Hely A. Mays
Miami Dade Product Control

NOTES:

- The 24 gage Weather Lok-16 roof panels shall be used for roof construction only. The actual roof project shall be constructed using the same details shown on these drawings including:
 - Details, all panel material characteristics and section with dimension and thickness.
 - Erection details including all connection fasteners with size and location.
 - Panel maximum span and pressure for the field, edge and corners based on panel allowables shown below.
- This structural roof panel system has been designed in accordance with the Florida Building Code 7th Edition (2020). The design pressures are determined from ultimate pressures as defined in Section 1620 and ASCE 7-16. Multiply the ultimate pressure by 0.6 to get design pressures.
- The maximum allowable spans and design pressures for the Weather Lok-16 24ga are as follows:

Maximum Panel Span	Maximum Uplift Pressure (psf)
1'-0"	133.40
1'-6"	122.53
2'-0"	111.66
2'-6"	100.79
3'-0"	89.92
3'-6"	79.06
4'-0"	68.19
4'-6"	57.32
5'-0"	42.80

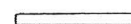
- All panel submembers shall be minimum 16 gage (.056"). They are not part of this approval and they shall be reviewed structurally by the structural plans examiner of the corresponding building department for each job.

PANEL PROPERTIES						
Panel Gage	Painted Panel Thickness	Yield Strength*	Tensile Strength*	Elongation*	Steel Coating*	Paint Coatings
24	0.0240"	50 KSI	65 KSI	26.5	AZ 55	Kynar 500
* Conform to ASTM A792 Structural Quality Grade 50						

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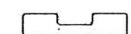
12-14 x 1 1/4" Zinc Hex Head
"Ultimate" #3 Pt. with Integral
Washer by Atlas Fasteners



1" x 3/32" Butyl Tape



1/4-14 x 7/8" Zinc Hex Head
"Ultimate" with Integral
Washer by Atlas Fasteners



7/8" x 3/16" Butyl Tape



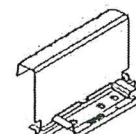
1/4-14 x 1 1/4" Tek-2 Self-Driller
by Atlas Fasteners



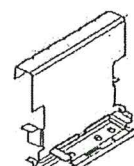
2 1/2" x 3/16" Tri-Bead Butyl Tape



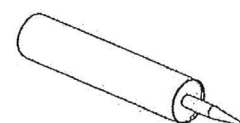
10-14 x 1" Zinc Hex Head
Woodlite "Ultimate" with
Integral Washer by Atlas
Fasteners



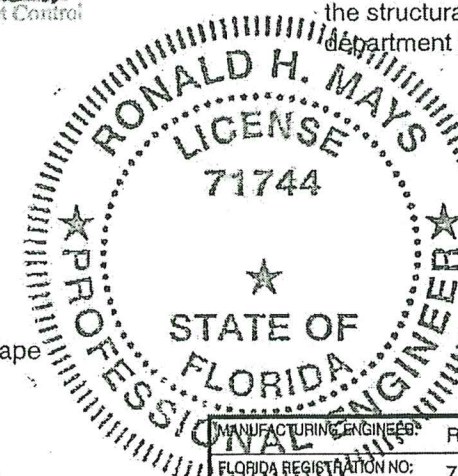
Weather Lok-16
Low Movable Clip



Weather Lok-16
High Movable Clip



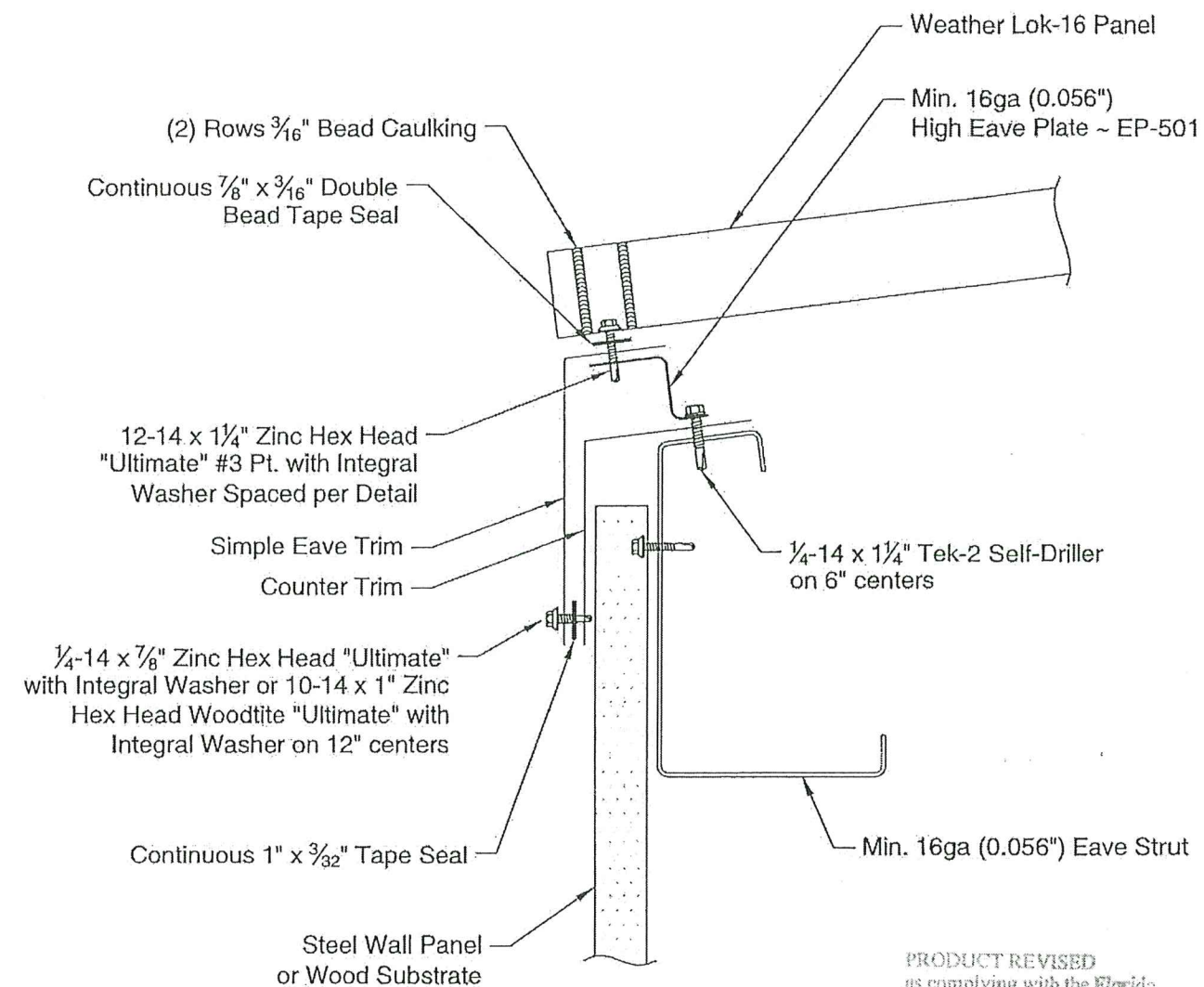
Advanced Polymer Gutter
Sealant



Signature of Ronald H. Mays
4/9/21

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as complying with the Florida
Building Code
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By Hely A. Mays
Miami Dade Product Control

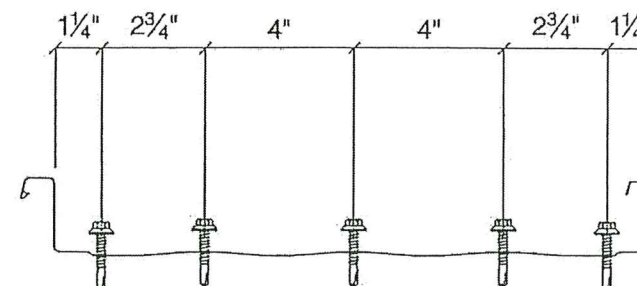
MANUFACTURING ENGINEER: RONALD H MAYS, P.E.			
FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
PROJECT: PRODUCT APPROVAL	REL RM	BY ML	DATE 3/25/2021
	DESCRIPTION 2020 FBC 7th Edition		
SHEET TITLE: WEATHER IOK-16 24GA DETAILS	DWN BY: ML	DATE: 3-26-02	
LOCATION: FLORIDA	CHKD BY: RM	SCALE: N.T.S.	
	PROJECT NUMBER:	DWG NO: 14003502	SHEET NO: 1 of 8



LOW EAVE

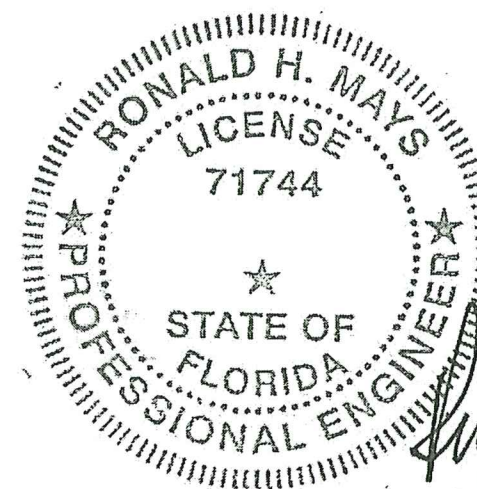
PRODUCT REVISED
as complying with the Florida
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Acceptance No. 23-1017.22
Expiration Date 08/15/2024
By H. A. Mays
Miami Data Product Control

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Expiration Date 08/15/2024
By H. A. Mays
Miami Data Product Control




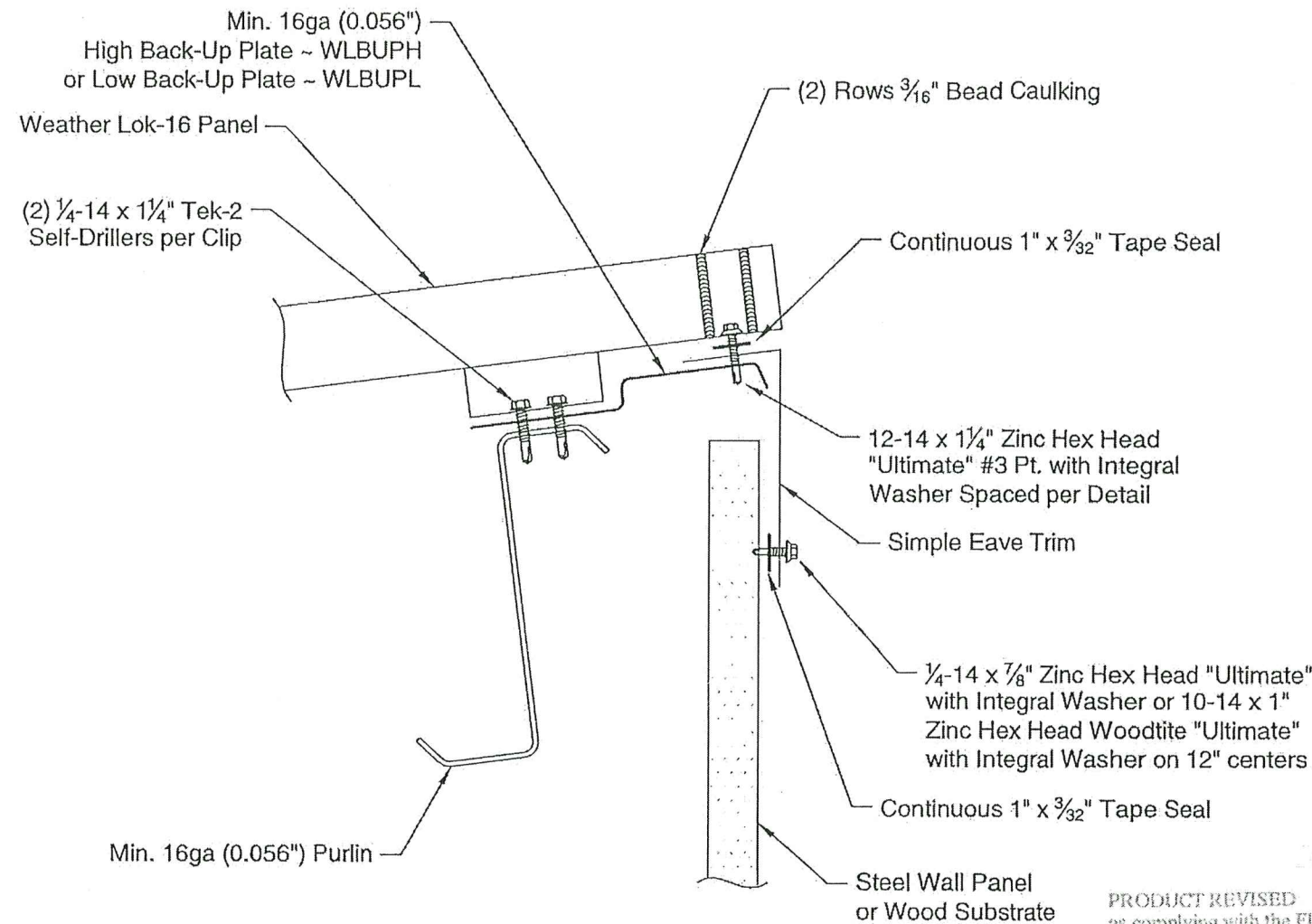
PANEL - EAVE FASTENERS

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Building Code
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By H. A. Mays
Miami Data Product Control



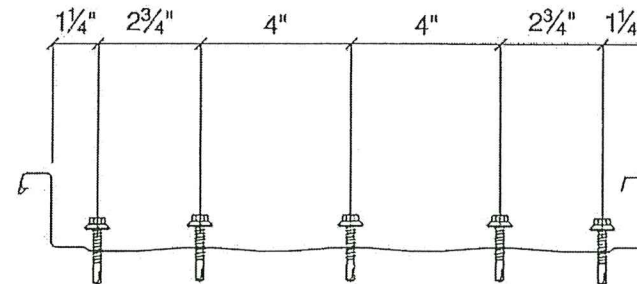
H. A. Mays
4/9/21

MANUFACTURING ENGINEER: RONALD H MAYS, P.E.			
FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
	REL	BY	DESCRIPTION
	RM	ML	2020 FBC 7th Edition
DATE: 3/25/2021			
PROJECT: PRODUCT APPROVAL			
SHEET TITLE: WEATHER LOK-16 24GA DETAILS		DATE: 3-27-02	
LOCATION: FLORIDA		SCALE: N.T.S.	
PROJECT NUMBER:		DWG NO: 14003502	SHEET NO: 2 of 8



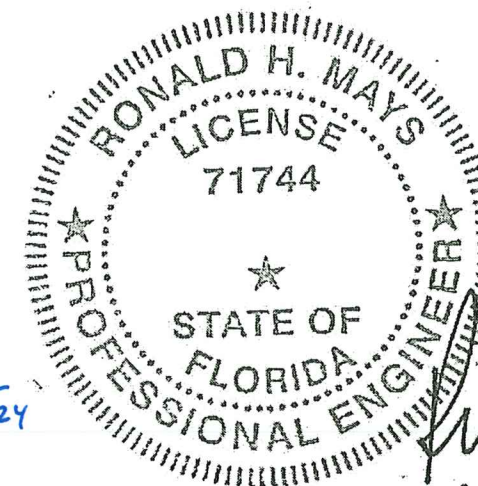
HIGH EAVE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1017.22
Expiration Date 08/15/2024
By Heb A. Mays
Miami Data Product Control




PANEL - EAVE FASTENERS

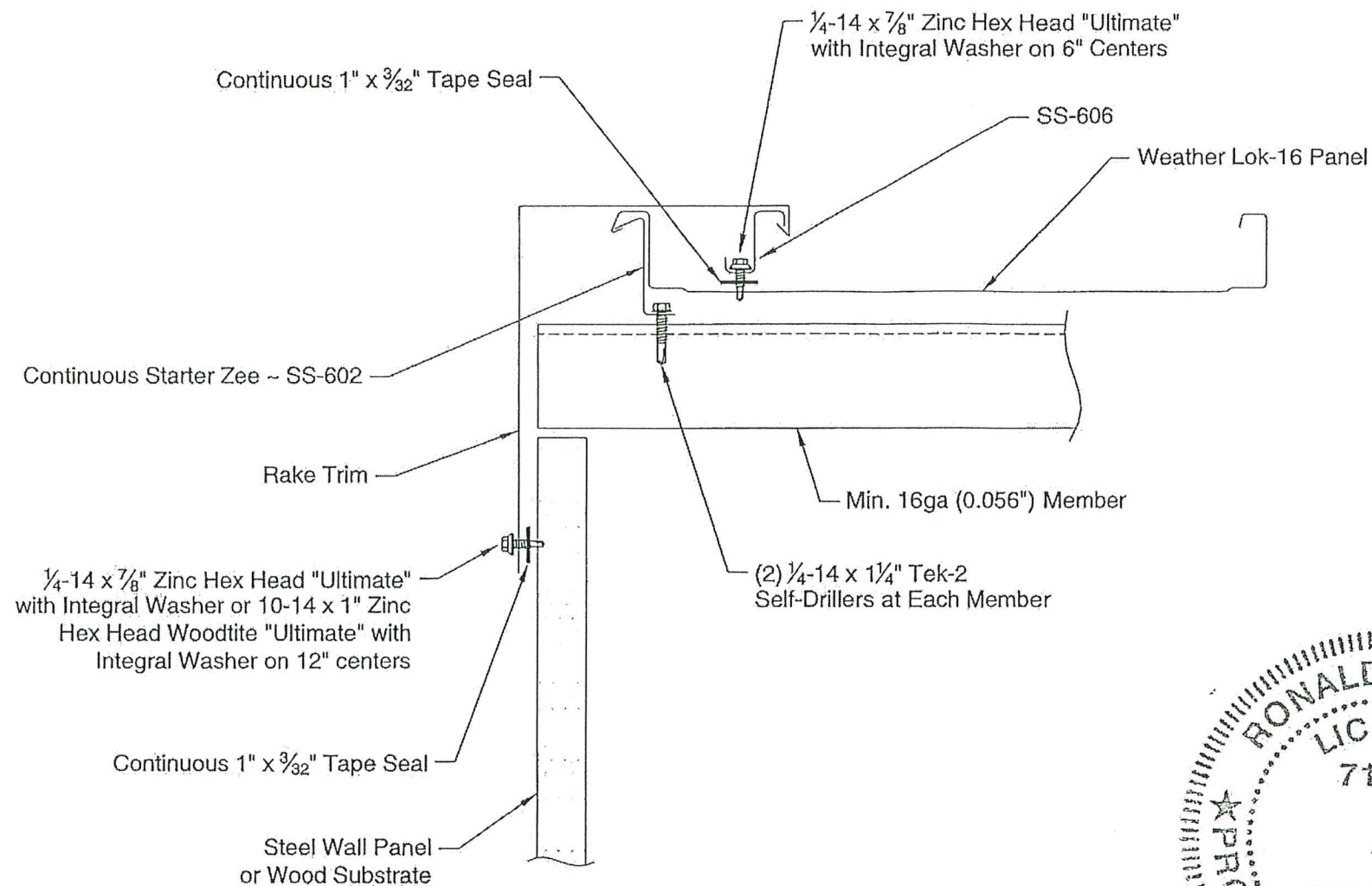
PRODUCT RENEWED
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By Heb A. Mays
Miami Data Product Control



Heb A. Mays
4/9/21

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By Heb A. Mays
Miami Data Product Control

MANUFACTURING ENGINEER: RONALD H MAYS, P.E.			
FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
	REL	BY	DESCRIPTION
	RM	ML	2020 FBC 7th Edition
DATE: 3-27-02			
PROJECT: PRODUCT APPROVAL			
SHEET TITLE: WEATHER LOK-16 24GA DETAILS		SCALE: N.T.S.	
LOCATION: FLORIDA		PROJECT NUMBER:	SHEET NO:
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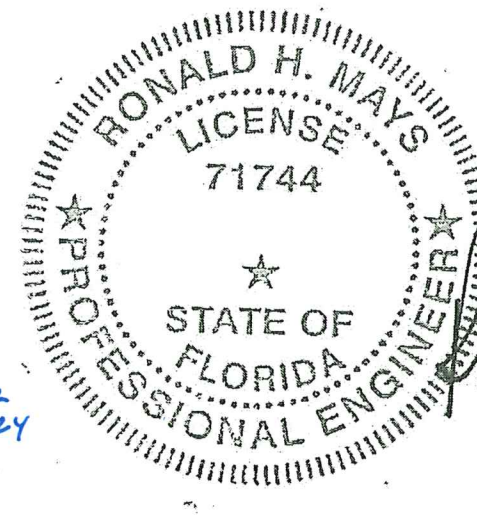



RAKE 1

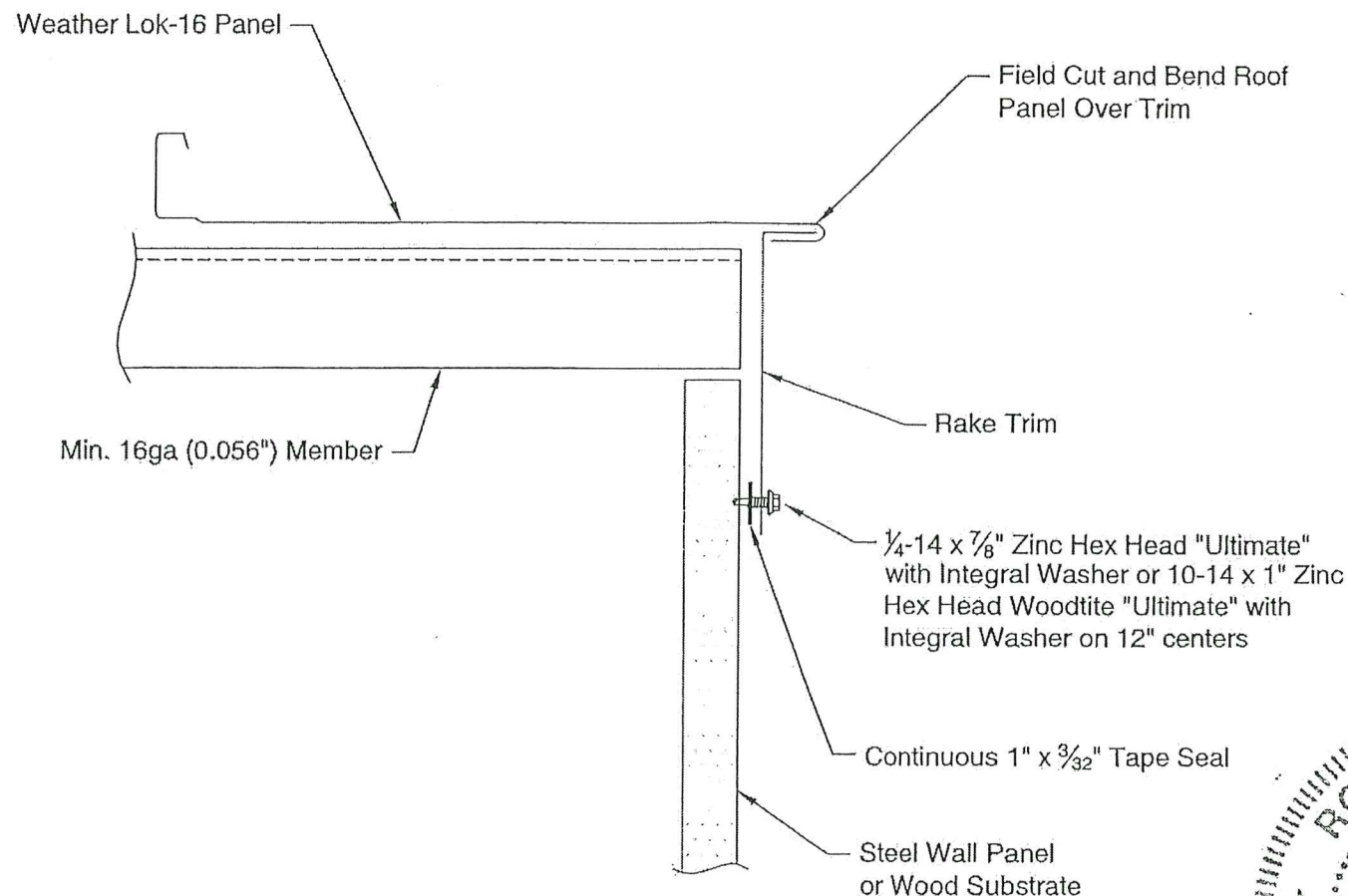
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 23-1012.22
Expiration Date 08/15/2024
By Hely A. Mays
Miami Dade Product Control

PRODUCT REVISED
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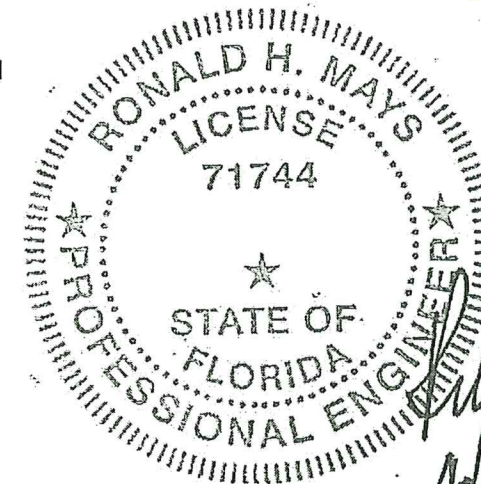
MANUFACTURING ENGINEER: RONALD H MAYS, P.E.			
FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
 WHIRLWIND STEEL BUILDINGS, INC. P.O. BOX 75280 - 8234 HANSEN ROAD HOUSTON, TX 77234 - (713) 946-7140	REL	BY	DESCRIPTION
	RM	ML	2020 FBC 7th Edition
PROJECT:	DATE: 3-27-02		
SHEET TITLE:		CHKD BY: RM	SCALE: N.T.S.
LOCATION:		PROJECT NUMBER:	DWG NO: 14003502
FLORIDA		SHEET NO: 4 of 8	




PRODUCT RENEWED
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Miami Dade Product Control

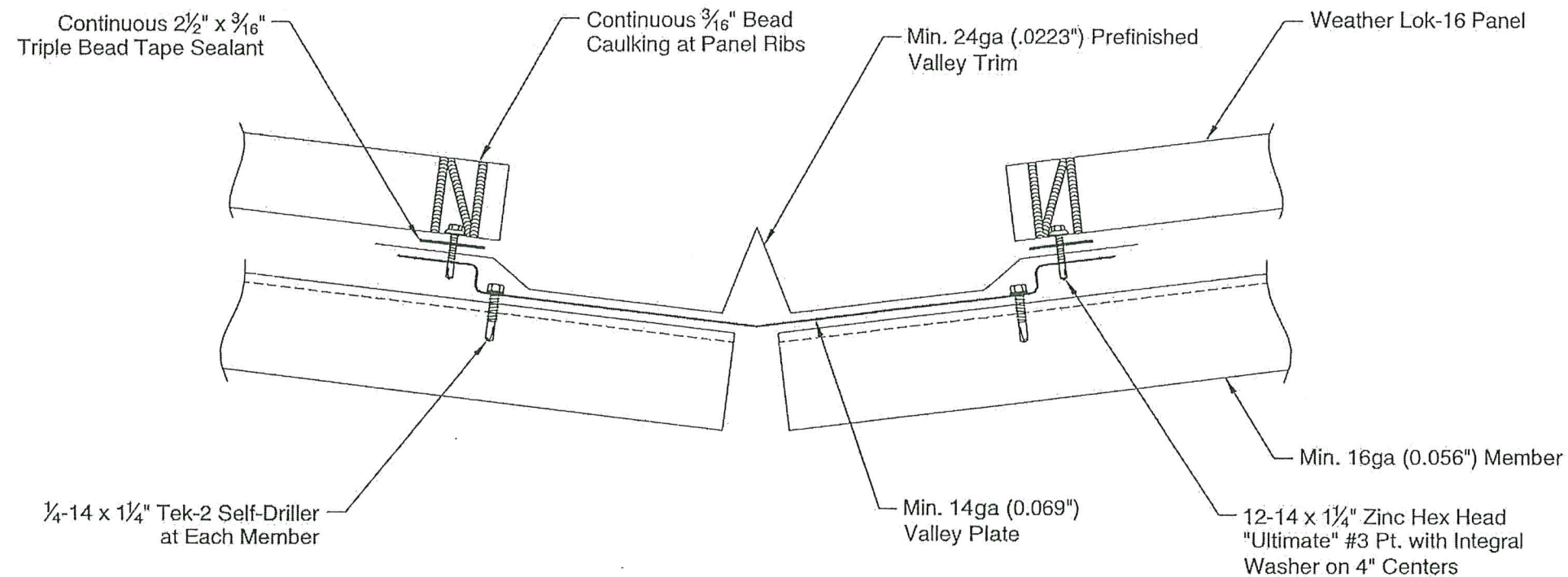
RAKE 2

PRODUCT REVISED
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Miami Dade Product Control

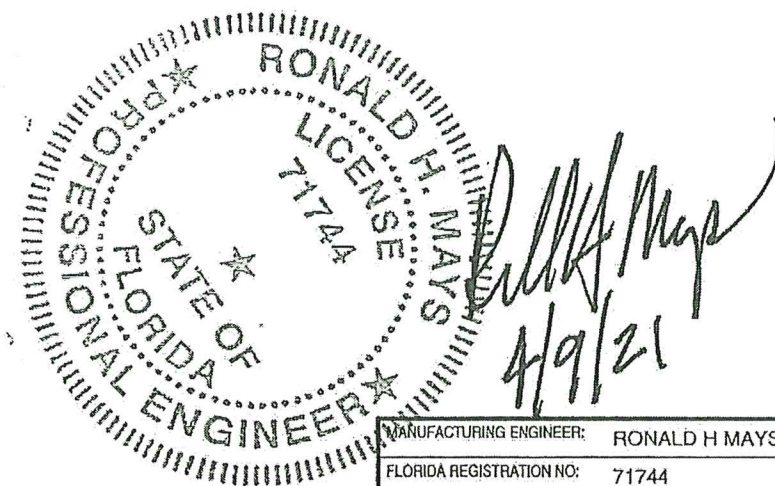


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Building Code
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MANUFACTURING ENGINEER: RONALD H MAYS, P.E.				
FLORIDA REGISTRATION NO: 71744				
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA				
	REL	BY	DESCRIPTION	DATE
	RM	ML	2020 FBC 7th Edition	3/25/2021
PROJECT:				
SHEET TITLE:				
LOCATION:				
PRODUCT APPROVAL				
WEATHER LOK-16 24GA DETAILS				
FLORIDA				
DWN BY: ML		DATE: 3-27-02		
CHKD BY: RM		SCALE: N.T.S.		
PROJECT NUMBER:		DWG NO:	SHEET NO:	
		14003502	5 of 8	




VALLEY

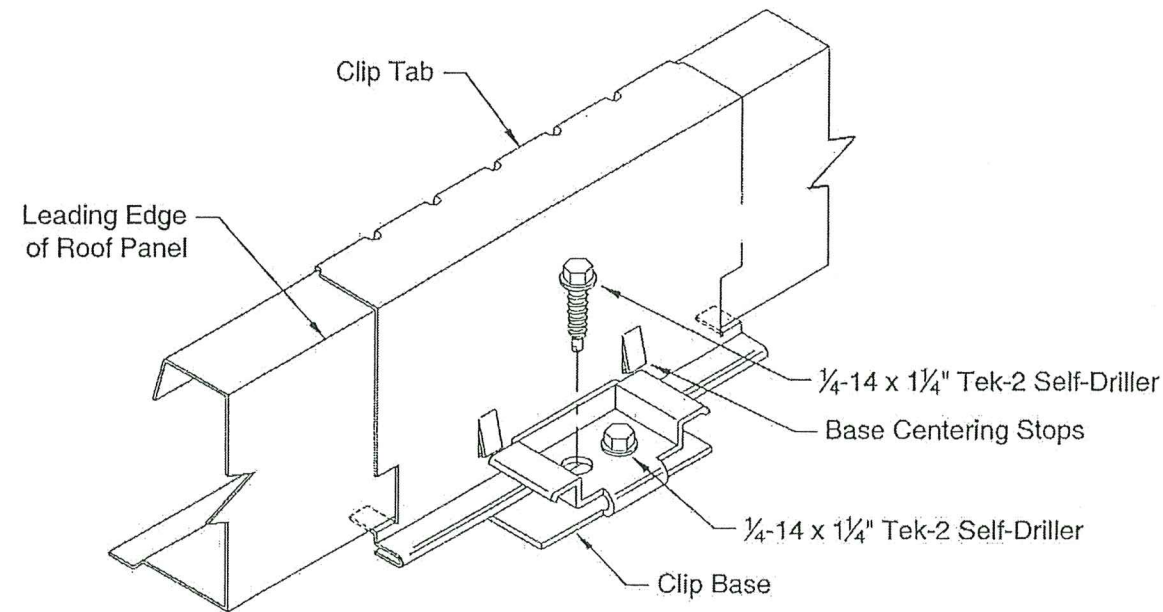


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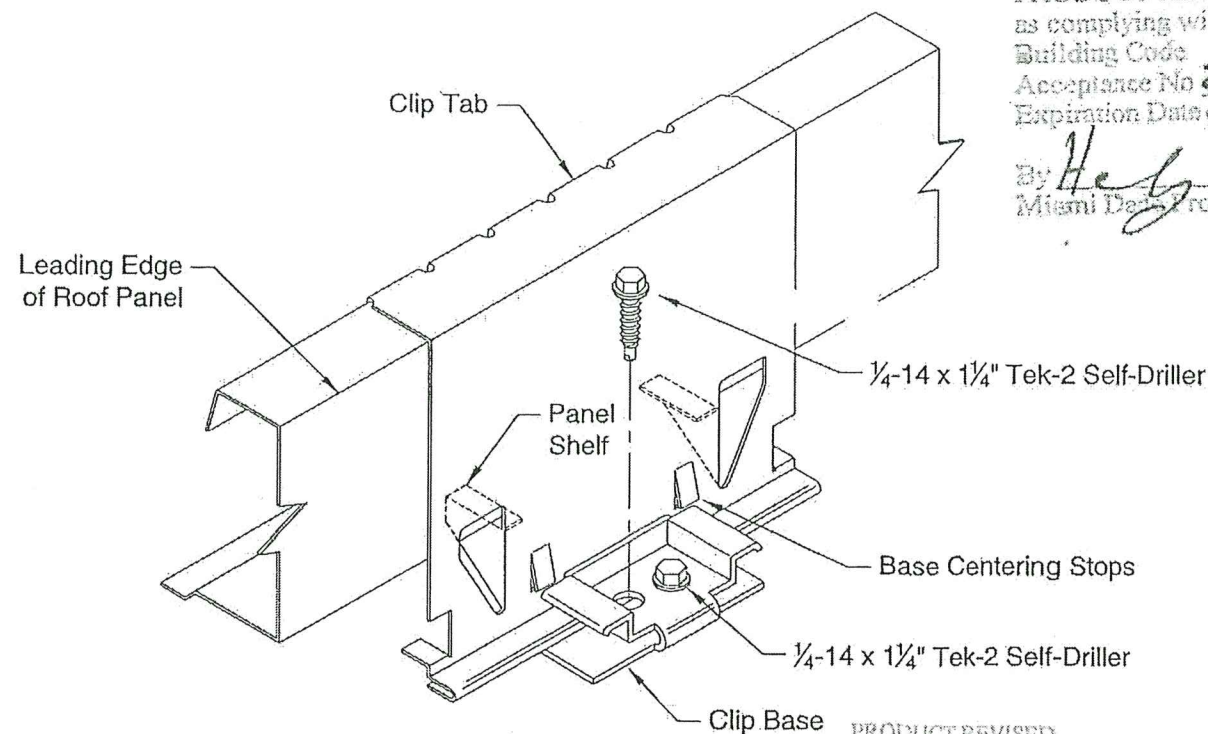
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By H. A. Mays
Miami Dade Product Control

MANUFACTURING ENGINEER: RONALD H MAYS, P.E.			
FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
	REL	BY	DESCRIPTION
	RM	ML	2020 FBC 7th Edition
PROJECT: PRODUCT APPROVAL		DATE: 3-27-02	
SHEET TITLE: WEATHER LOK-16 24GA DETAILS		CHKD BY: RM	SCALE: N.T.S.
LOCATION: FLORIDA		PROJECT NUMBER:	DWG NO: 14003502
			SHEET NO: 6 of 8



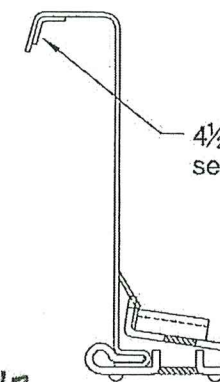
3/8" Stand-Off Clip
WL-16 Low Clip
(MC 120310)



1 3/8" Stand-Off Clip
WL-16 High Clip
(MC 121310)

NOTES:

1. There are two types of clips that can be furnished with this roof system, the 3/8" stand-off and the 1-3/8" stand-off. Both of these are floating clips.
2. Thermal spacers are required with the 1 3/8" stand-off clip.
3. Apply a 4 1/2" strip of 3/8" x 3/32" tape sealant to the underside of the clip before installation per Detail "A".
4. Install panel clips along the male edge of the panel at each purlin location.
5. Attach clip to purlin with (2) 1/4-14 x 1/4" Tek-2 self-drilling screws per clip.

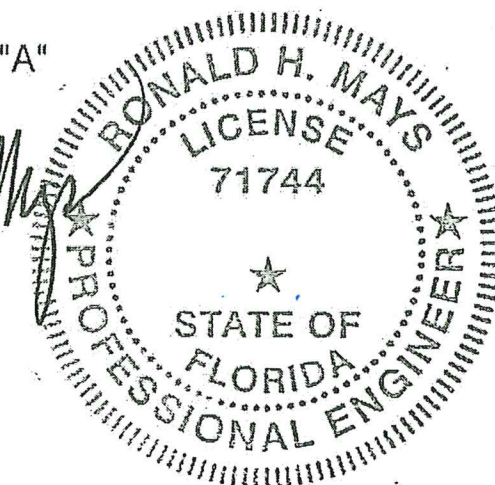



4 1/2" strip of 3/8" x 3/32" tape sealant

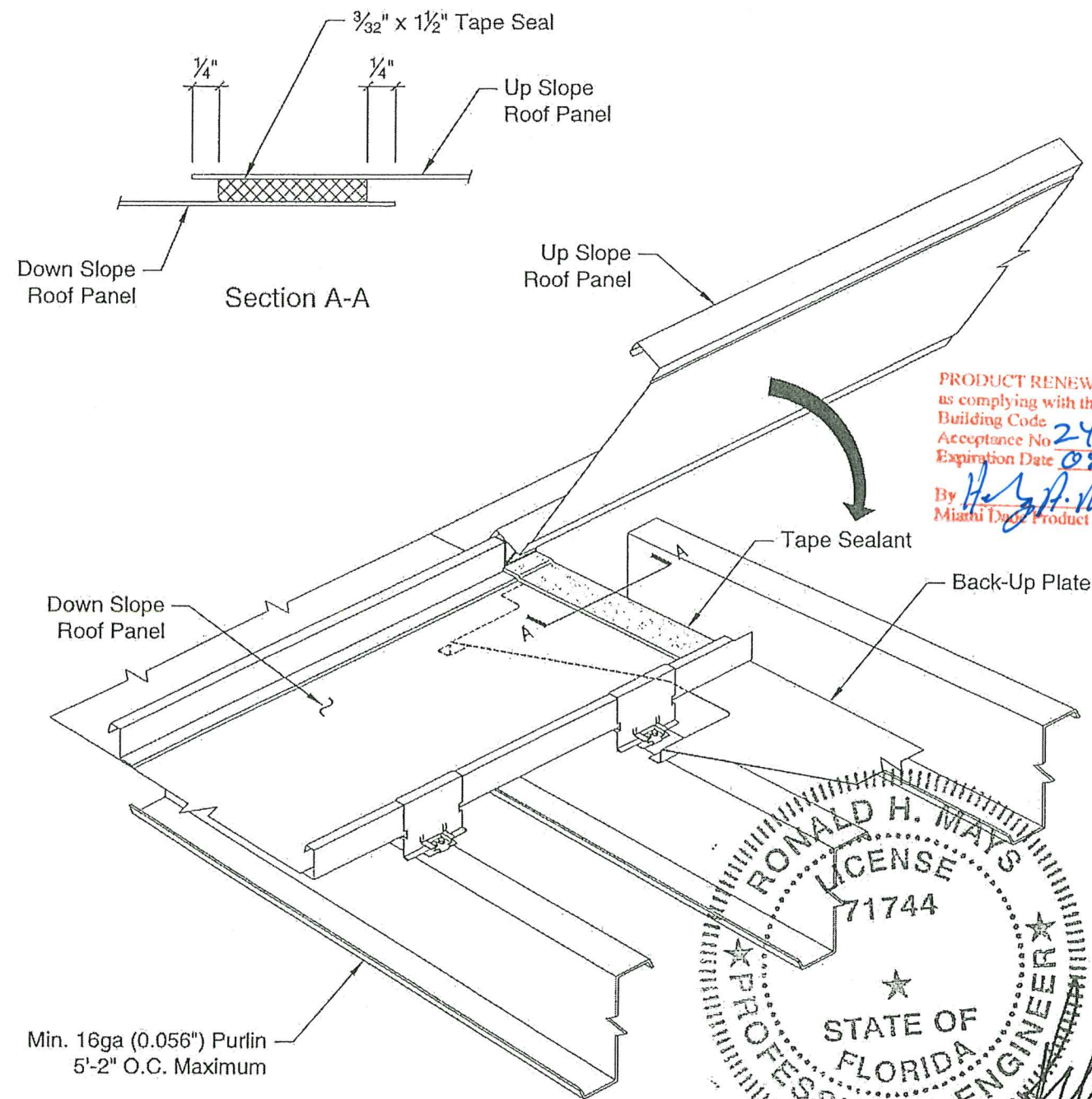
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 21-0419.12
Expiration Date 08/15/2024
By *H. G. A. Miller*
Miami Design Product Control

Detail "A"

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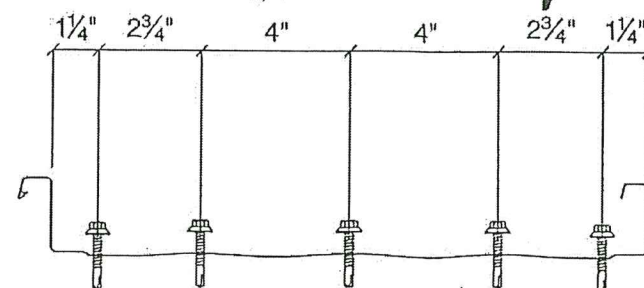
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FLORIDA REGISTRATION NO: 71744			
WHIRLWIND STEEL BUILDINGS WEATHER LOK-16 24GA			
	REL	BY	DESCRIPTION
	RM	ML	2020 FBC 7th Edition
DATE: 3/25/2021			
PROJECT: PRODUCT APPROVAL			
SHEET TITLE: WEATHER LOK-16 24GA DETAILS		DATE: 3-27-02	
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Min. 16ga (0.056") Purlin
5'-2" O.C. Maximum

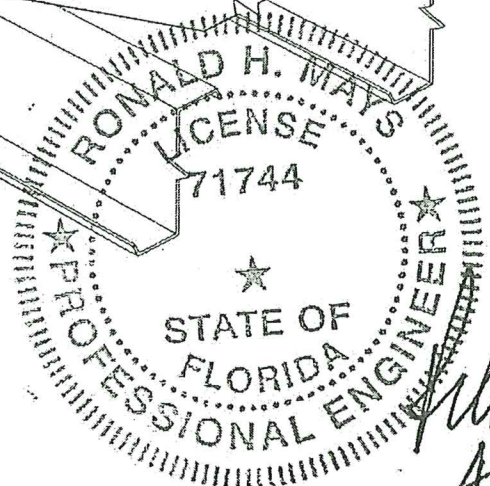
NOTES:

1. Position the up slope panel so the total panel lap is 2".
2. The endlap tape seal and the up slope panel are positioned so their edges are 1/4" apart. (See section above)
3. When placing the up slope panel care must be taken to prevent moving or wiping the tape seal and caulking from the down slope panel.



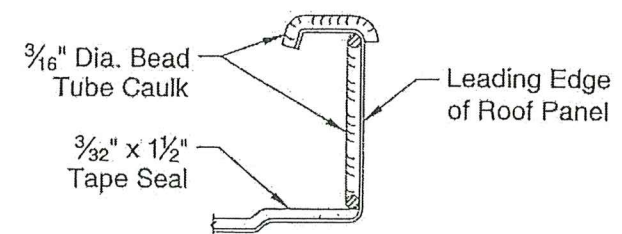
PANEL - LAP FASTENERS

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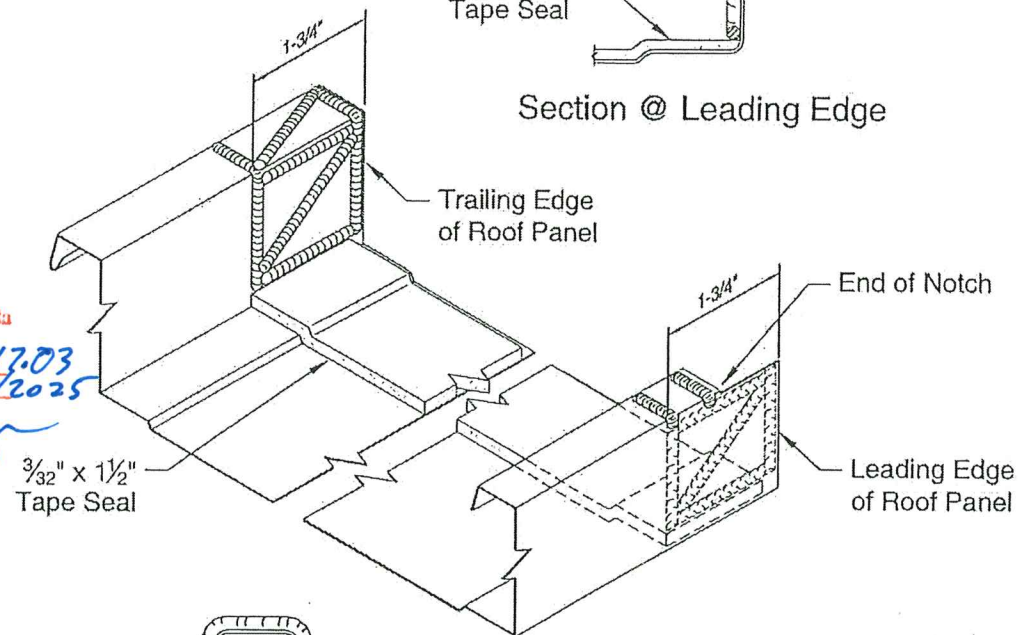


NOTES:

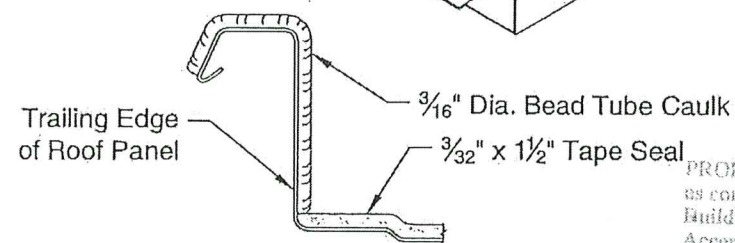
1. Place the 3/32" x 1 1/2" endlap tape seal as shown in the above illustrations. Make sure the tape seal is pressed tightly into the panel bends and corners.
2. Use 3/16" diameter beads for all caulking shown. Caulking cannot have any gaps.



Section @ Leading Edge




Section @ Trailing Edge



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Acceptance No. 21-0419.12
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PROJECT NUMBER:		DWG NO: 14003502	SHEET NO: 8 of 8