



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**

**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 375-2908**

[www.miamidade.gov](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Whirlwind Building Systems**  
**8234 Hansen Road**  
**Houston, TX 77234-5280**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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, last revision #1 dated June 17, 2005, signed and sealed by Terrence E. Wolfe, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**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 **revises NOA #03-0708.01** and consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

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



*Helmy A. Makar*  
 01/11/2007

**NOA No 05-1102.02**  
**Expiration Date: 08/29/2007**  
**Approval Date: 01/11/2007**  
 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, dated 3/27/02, signed and sealed by Terrence E. Wolfe, P.E.*

**B. TESTS**

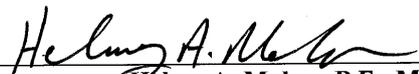
1. *Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC PA 20294 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T191-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.*
2. *Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC PA 20294 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.*



Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No 05-1102.02  
Expiration Date: 08/29/2007  
Approval Date: 01/11/2007

**Whirlwind Building Systems**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. STATEMENTS**

1. *Statement letter of conformance, dated 2/5/02, signed and 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.*

**F. OTHER**

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

**2. NEW EVIDENCE SUBMITTED**

**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**

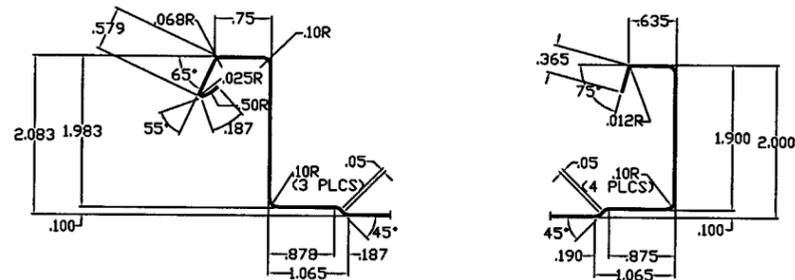
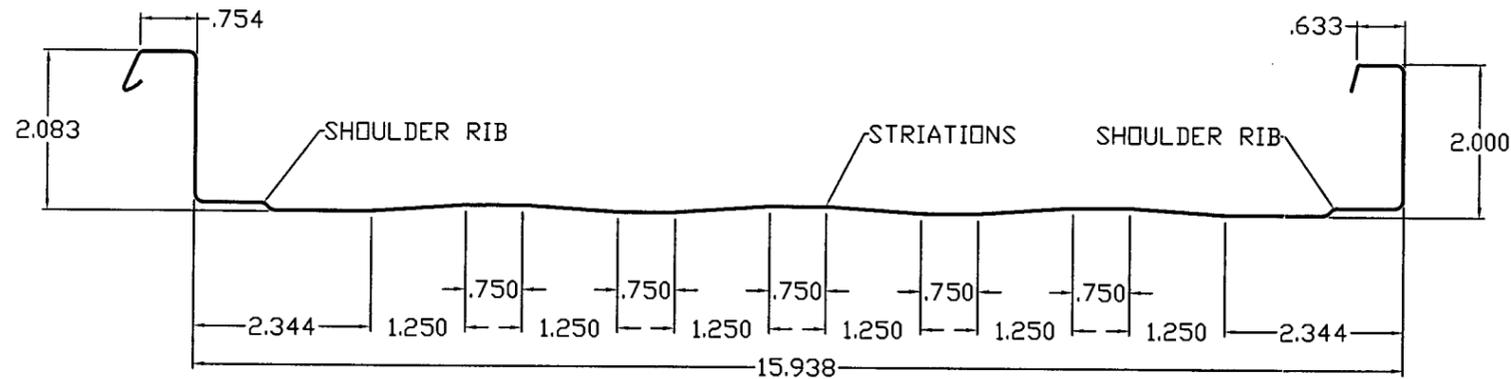
1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATION**

1. *None.*



**Helmy A. Makar, P.E., M.S.**  
**Product Control Examiner**  
**NOA No 05-1102.02**  
**Expiration Date: 08/29/2007**  
**Approval Date: 01/11/2007**



PANEL PROPERTIES						
PANEL GAGE	PAINTED PANEL THICKNESS	YIELD STRENGTH*	TENSILE STRENGTH*	ELONGATION*	STEEL COATING*	PAINT COATINGS
24	0.024" MIN.	50 KSI	65 KSI	26.5	AZ 55	KYNAR 500
*CONFORM TO ASTM A792 STRUCTURAL QUALITY GRADE 50						

**NOTES:**

- THE WEATHER LOK 16-24 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, PERIMETERS AND CORNERS BASED ON PANEL ALLOWABLES SHOWN BELOW.
- THE MAXIMUM ALLOWABLE SPANS AND UPLIFT PRESSURES FOR WEATHER LOK 16-24 ROOF PANEL 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'-2"	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**

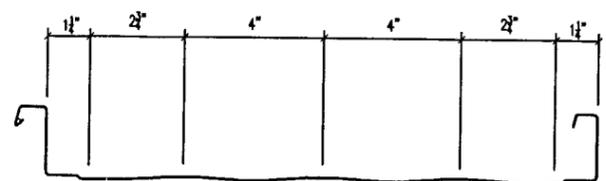
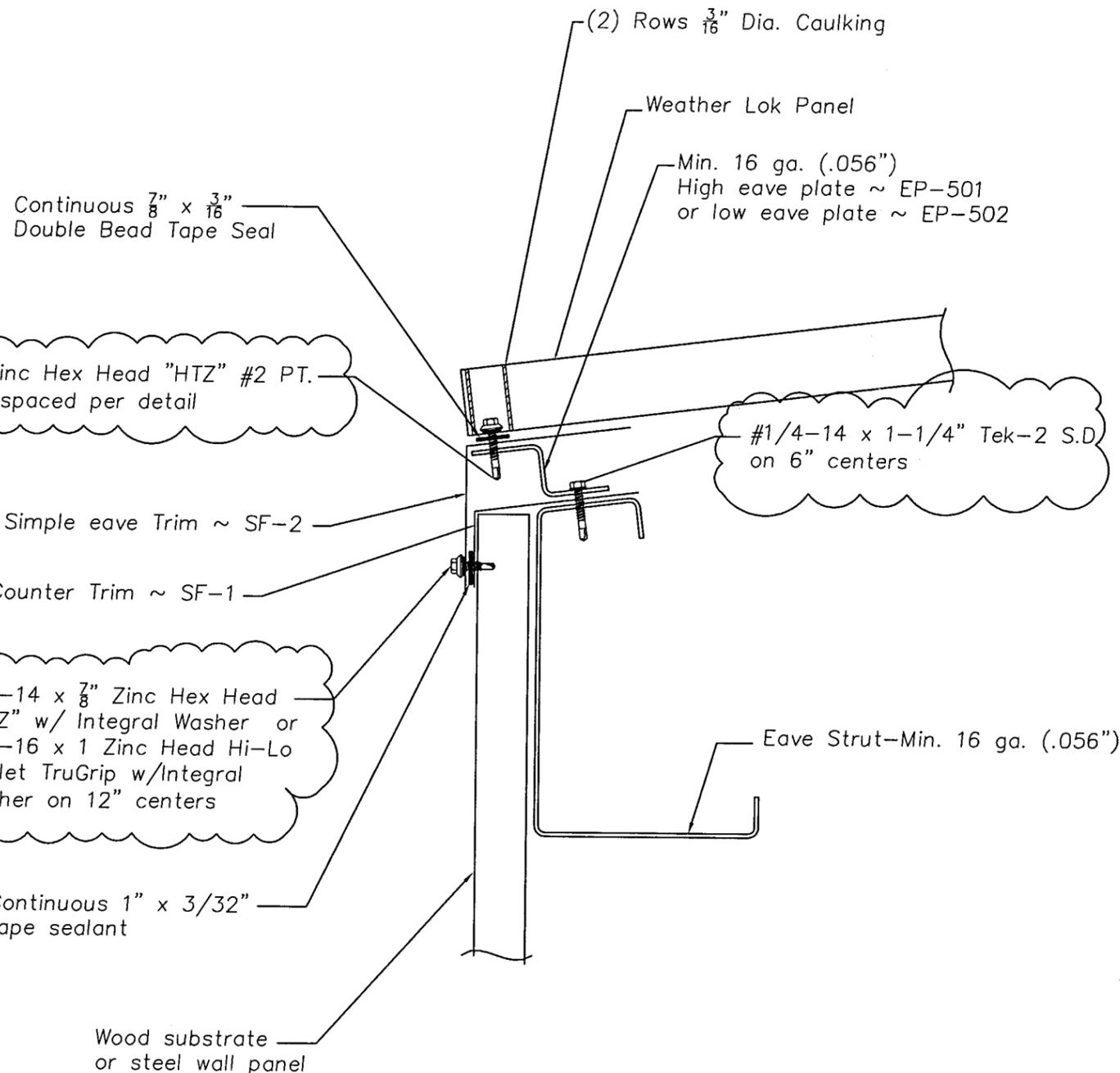
- 1" x 3/2" BUTYL TAPE
- 1 1/2" x 3/2" BUTYL TAPE
- 1 5/8" x 3/4" BUTYL TAPE
- 7/8" x 1 1/8" BUTYL TAPE
- 2 1/2" x 1 1/8" TRI-BEAD BUTYL TAPE
- WEATHER LOK LOW MOVABLE CLIP
- WEATHER LOK HIGH MOVABLE CLIP

SM5522 ACRYL-R ACRYLIC SEALANT, BY SCHNEE-MOREHEAD.

*Terrence E. Wolfe*  
6-21-05

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 05-1102.02  
Expiration Date 08/29/2007  
By *Heather A. Miller*  
Miami Date Product Control  
Division

MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.			
FLORIDA REGISTRATION NO.	44923			
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24				
 P.O. BOX 75280 - 8234 HANSEN RD. HOUSTON, TX 77234-5280 - (713) 948-4600	REL	BY	DESCRIPTION	DATE
		BJ	REVISION 1	6-17-05
PROJECT	DADE COUNTY PRODUCT APPROVAL			
SHEET TITLE	DRWN BY:	DATE:	3-26-02	
WEATHER LOK 16-24 DETAILS	CHEKED BY:	SCALE:	N.T.S.	
LOCATION	PROJECT NUMBER	DRAWING NUMBER	SHEET NUMBER	
DADE COUNTY, FLORIDA		14003502	1 of 8	



PANEL-EAVE FASTENERS

LOW EAVE

*Terrence E. Wolfe*  
6.21.05

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 05-1102.02  
Expiration Date 08/29/2007  
By *Helmy A. Melon*  
Miami Dade Product Control  
Division

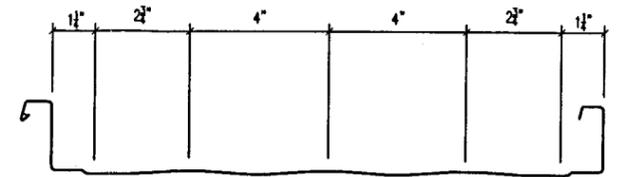
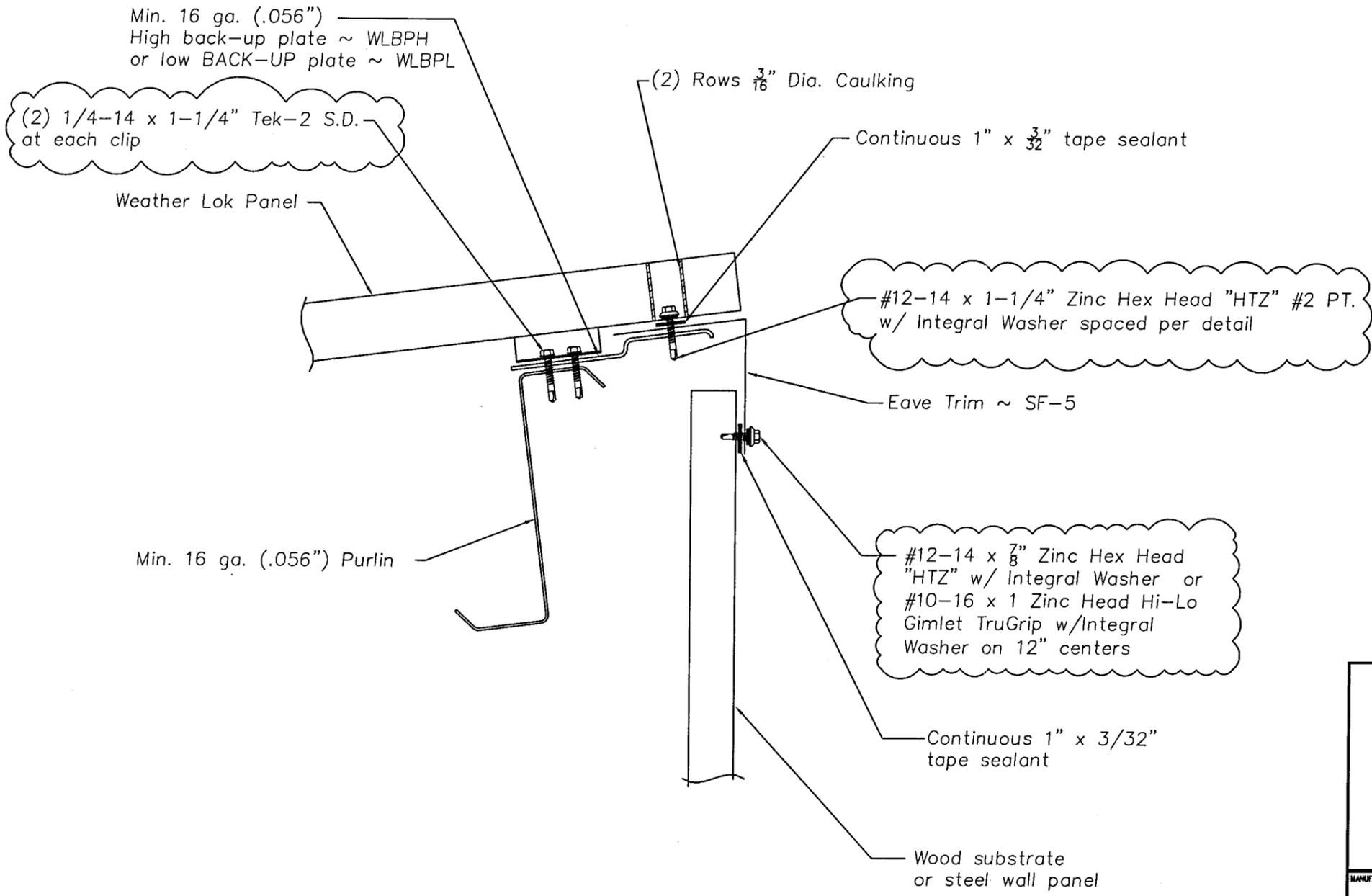
MANUFACTURING ENGINEER: TERRENCE E. WOLFE, P.E.  
FLORIDA REGISTRATION NO.: 44923  
PROJECT: WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24

REL.	BY	DESCRIPTION	DATE
	BJ	REVISION 1	6-17-05

PROJECT: DADE COUNTY PRODUCT APPROVAL

SHEET TITLE: WEATHER LOK 16-24 DETAILS  
DRAWN BY: DATE: 3-27-02  
CHECKED BY: SCALE: N.T.S.

LOCATION: DADE COUNTY, FLORIDA  
PROJECT NUMBER: DRAWING NUMBER: 14003502 SHEET NUMBER: 2 of 8



PANEL-EAVE FASTENERS

HIGH EAVE

*Terrence Wolfe*  
6-21-05

**PRODUCT REVISION**  
as complying with the Florida Building Code  
Acceptance No. 05-1102-02  
Expiration Date 08/29/2007  
By *Helmut A. Neuber*  
Miami Dade Product Control Division

MANUFACTURING ENGINEER: **TERRENCE E. WOLFE, P.E.**

FLORIDA REGISTRATION NO.: **44923**

**WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24**

REL.	BY	DESCRIPTION	DATE
	BJ	REVISION 1	6-17-05

PROJECT: **DADE COUNTY PRODUCT APPROVAL**

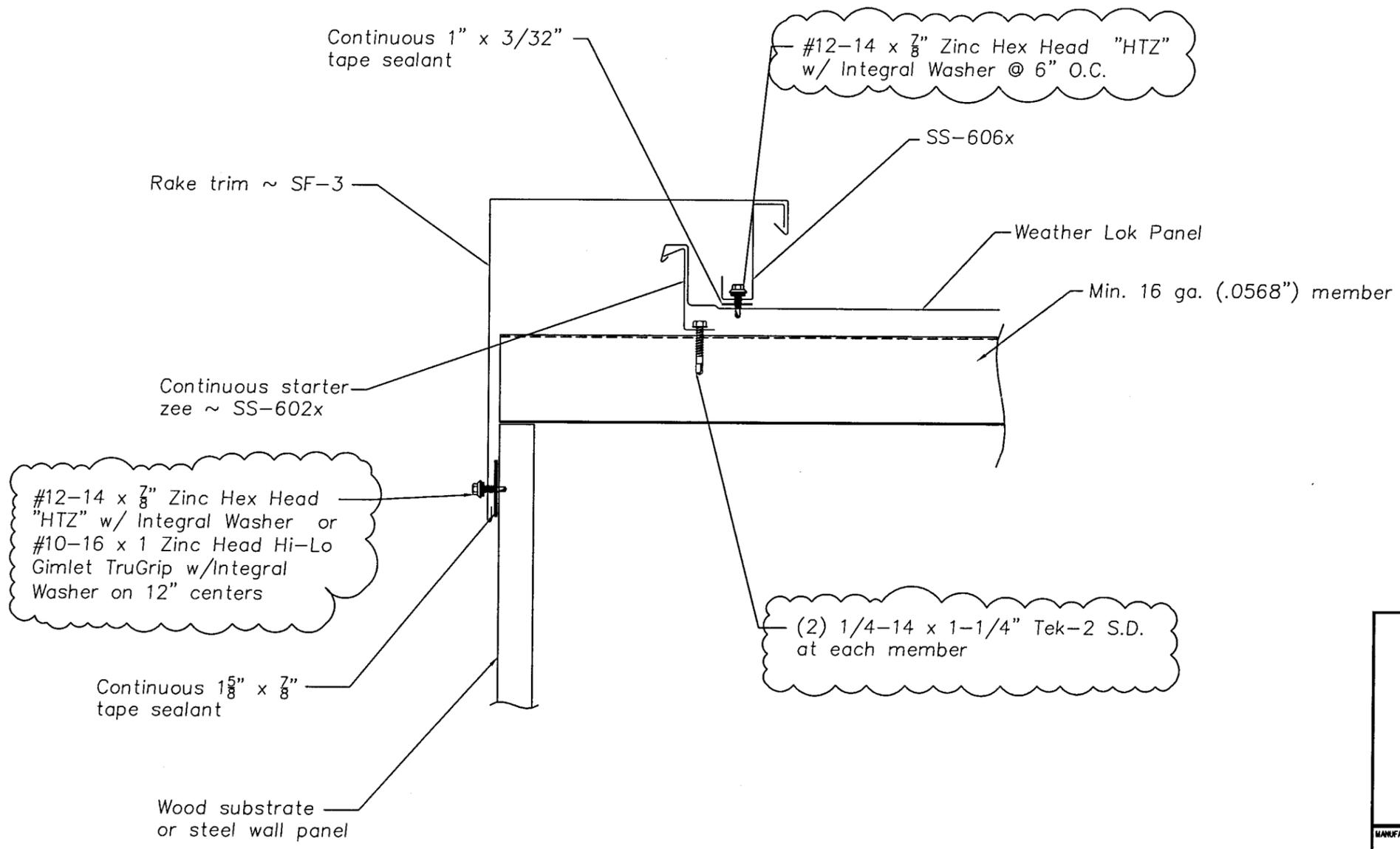
SHEET TITLE: **WEATHER LOK 16-24 DETAILS**

LOCATION: **DADE COUNTY, FLORIDA**

DIVISION: **DATE 3-27-02**

CHECKED BY: **SCALE N.T.S.**

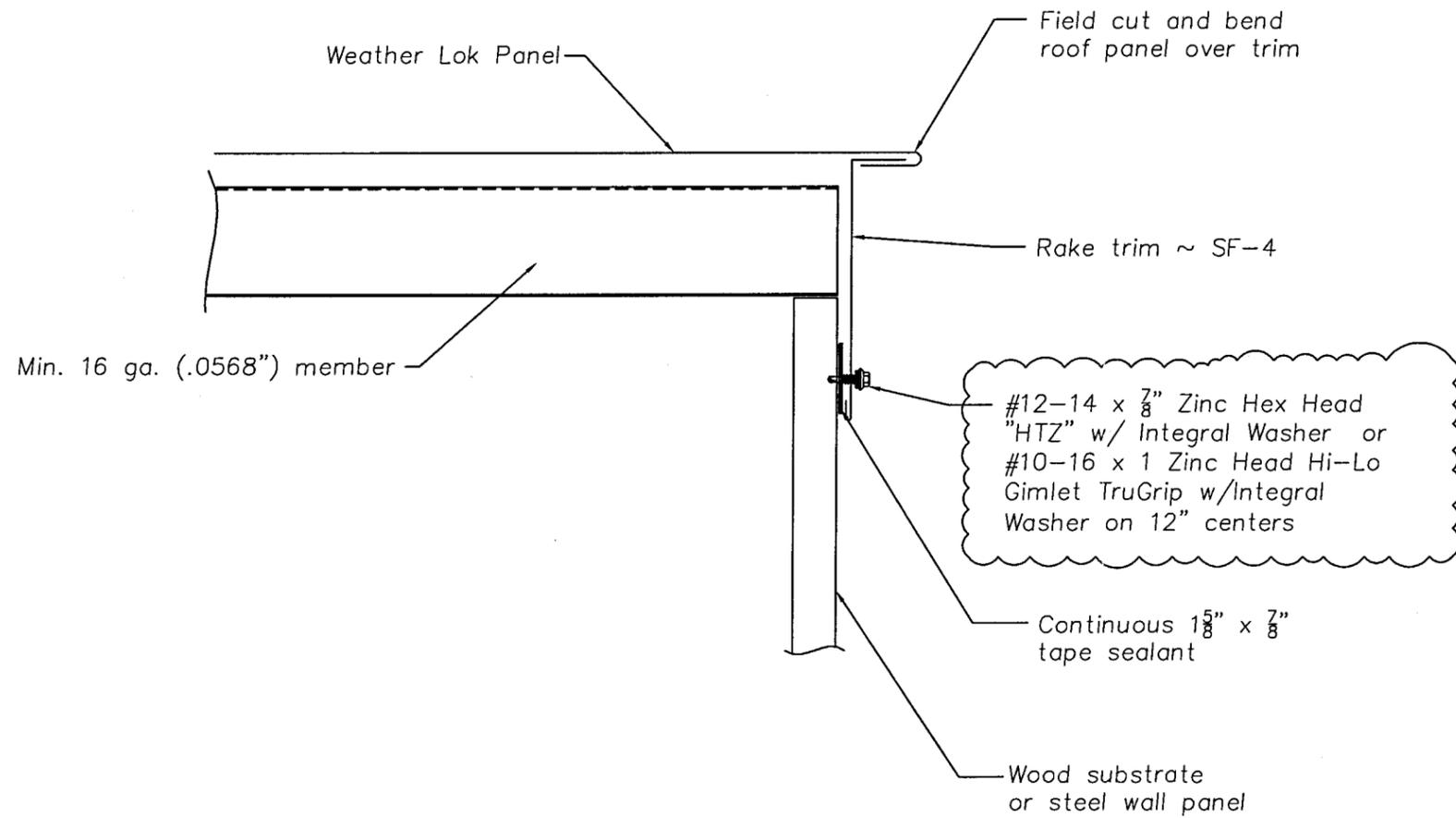
PROJECT NUMBER: **DRAWING NUMBER 14003502 SHEET NUMBER 3 of 8**



RAKE 1

*Terrence E. Wolfe  
6-21-05*

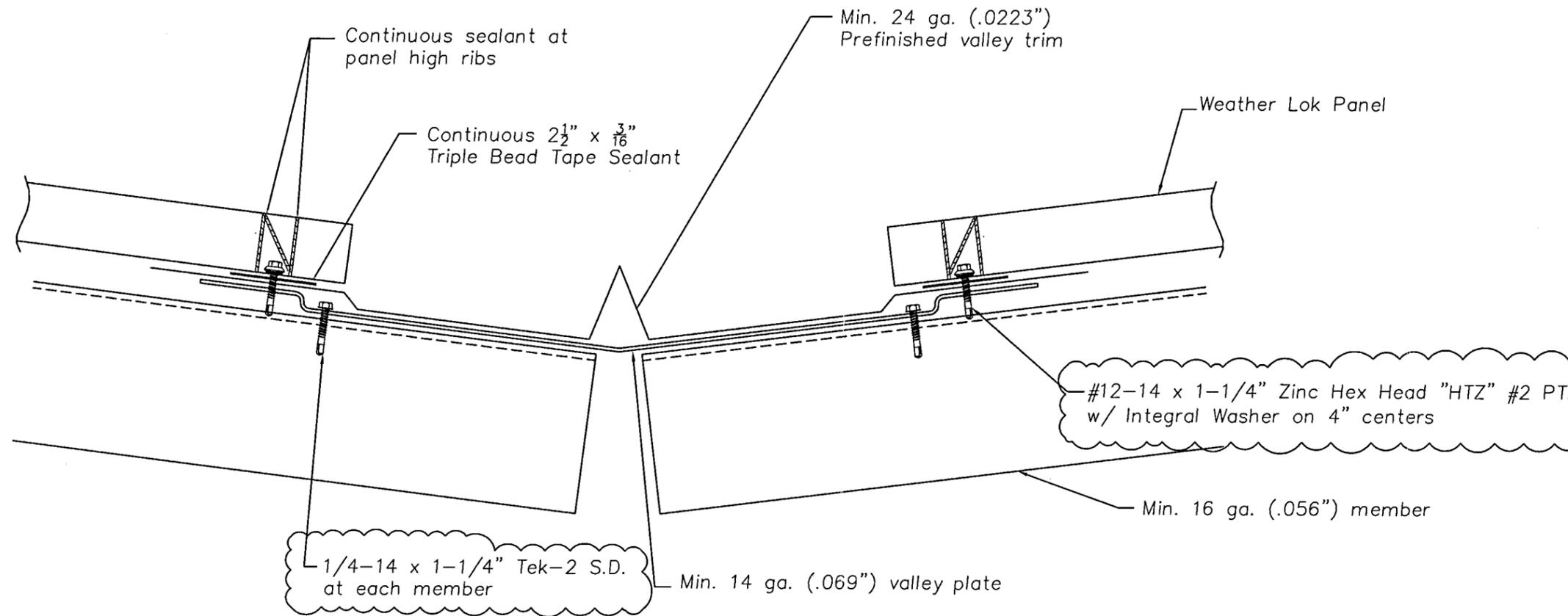
<p><b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No. <u>05-1102.02</u> Expiration Date <u>08/29/2007</u> By <u>Healing A. Healy</u> Miami Dept. Product Control Division</p>			
MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24			
 <b>WHIRLWIND BUILDING SYSTEMS</b> <small>P.O. BOX 75280 - 8234 HANSEN RD. HOUSTON, TX 77234-5280 - (713) 948-4600</small>		REL BY	DESCRIPTION
		BU	REVISION 1
PROJECT		DATE	DATE
DADE COUNTY PRODUCT APPROVAL			6-17-05
SHEET TITLE		DRAWN BY	DATE
WEATHER LOK 16-24 DETAILS		CHECKED BY	3-27-02
LOCATION		PROJECT NUMBER	SCALE
DADE COUNTY, FLORIDA		14003502	N.T.S.
		DRAWING NUMBER	SHEET NUMBER
		14003502	4 of 8



RAKE II

*James Wolfe*  
6-21-05

<p>PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 05-1102.02 Expiration Date 08/29/2007 By <i>Helmut Adler</i> Miami Dade Project Control Division</p>			
MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24			
	REL	BY	DESCRIPTION
		BJ	REVISION 1
			DATE
			6-17-05
PROJECT		DADE COUNTY PRODUCT APPROVAL	
SHEET TITLE		WEATHER LOK 16-24 DETAILS	
LOCATION		DADE COUNTY, FLORIDA	
DRAWN BY:		DATE: 3-27-02	
CHECKED BY:		SCALE: N.T.S.	
PROJECT NUMBER		DRAWING NUMBER	SHEET NUMBER
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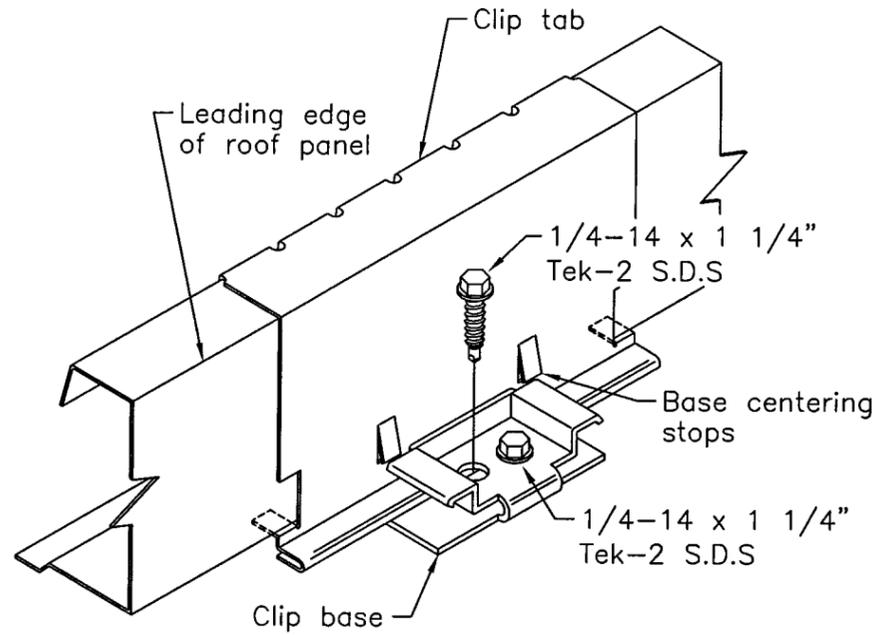


VALLEY

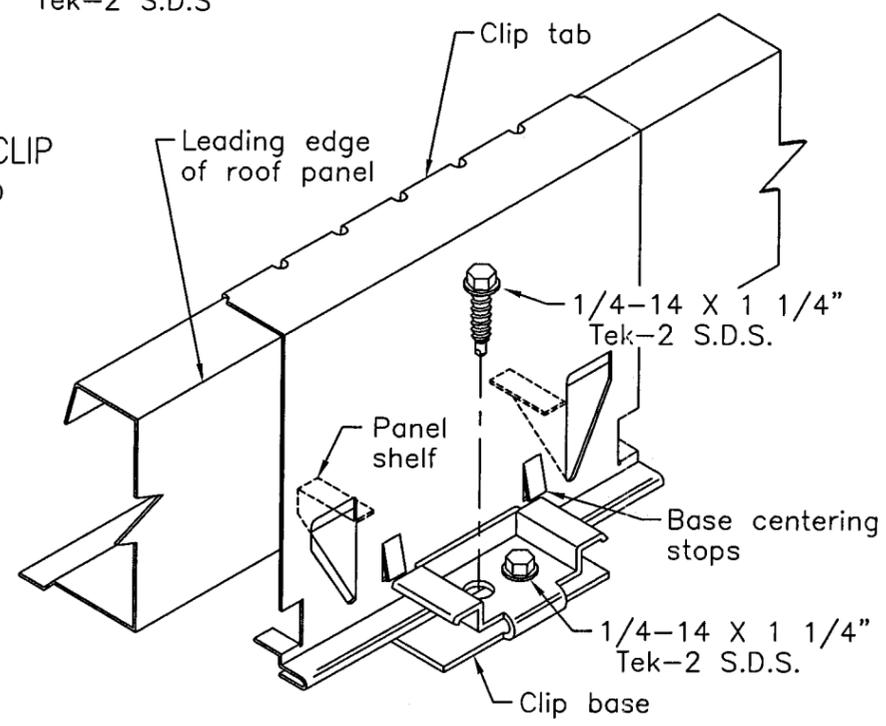
*James [Signature]*  
6-21-05

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No. 05-1102.02  
 Expiration Date 08/29/2007  
 By *Helmut [Signature]*  
 Miami Dade Product Control  
 Division

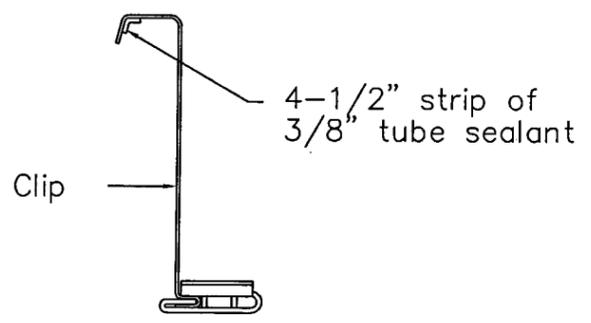
MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24			
<b>WHIRLWIND BUILDING SYSTEMS</b> <small>P.O. BOX 75280 - 8234 HANSEN RD. HOUSTON, TX 77234-5280 - (713) 948-4600</small>		REL BY	DESCRIPTION
		BJ	REVISION 1
			6-17-05
PROJECT		DADE COUNTY PRODUCT APPROVAL	
SHEET TITLE		WEATHER LOK 16-24 DETAILS	
LOCATION		DADE COUNTY, FLORIDA	
DIVISION NO.		DATE 3-27-02	
CHECKED BY:		SCALE N.T.S.	
PROJECT NUMBER		DRAWING NUMBER	SHEET NUMBER
		14003502	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)



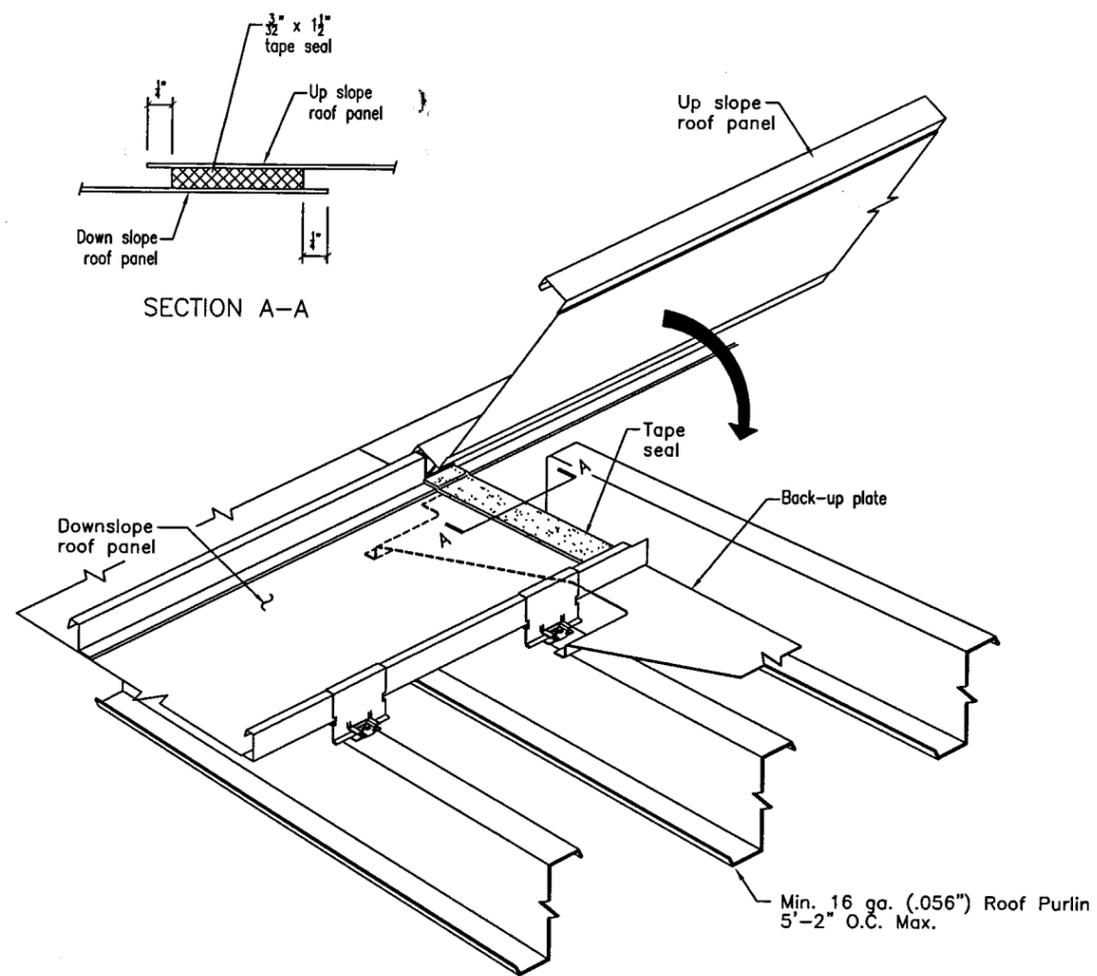
DETAIL "A"

- 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" tube 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 1-1/4" Tek-2 self-drilling screws per clip.

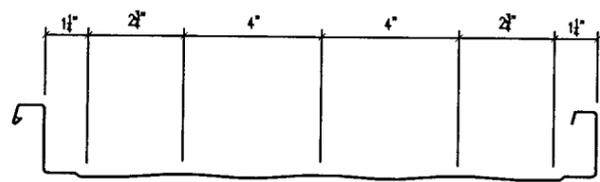
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 05-1102.02  
Expiration Date 08/29/2007  
By *Helmut Adlger*  
Miami Dade District Control  
Division

MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24			
REL.	BY	DESCRIPTION	DATE
	BJ	REVISION 1	6-17-05
PROJECT			
DADE COUNTY PRODUCT APPROVAL			
SHEET TITLE		DRAWN BY:	DATE 3-27-02
WEATHER LOK 16-24 DETAILS		CHECKED BY:	SCALE N.T.S.
LOCATION		PROJECT NUMBER	DRAWING NUMBER SHEET NUMBER
DADE COUNTY, FLORIDA		14003502	7 of 8

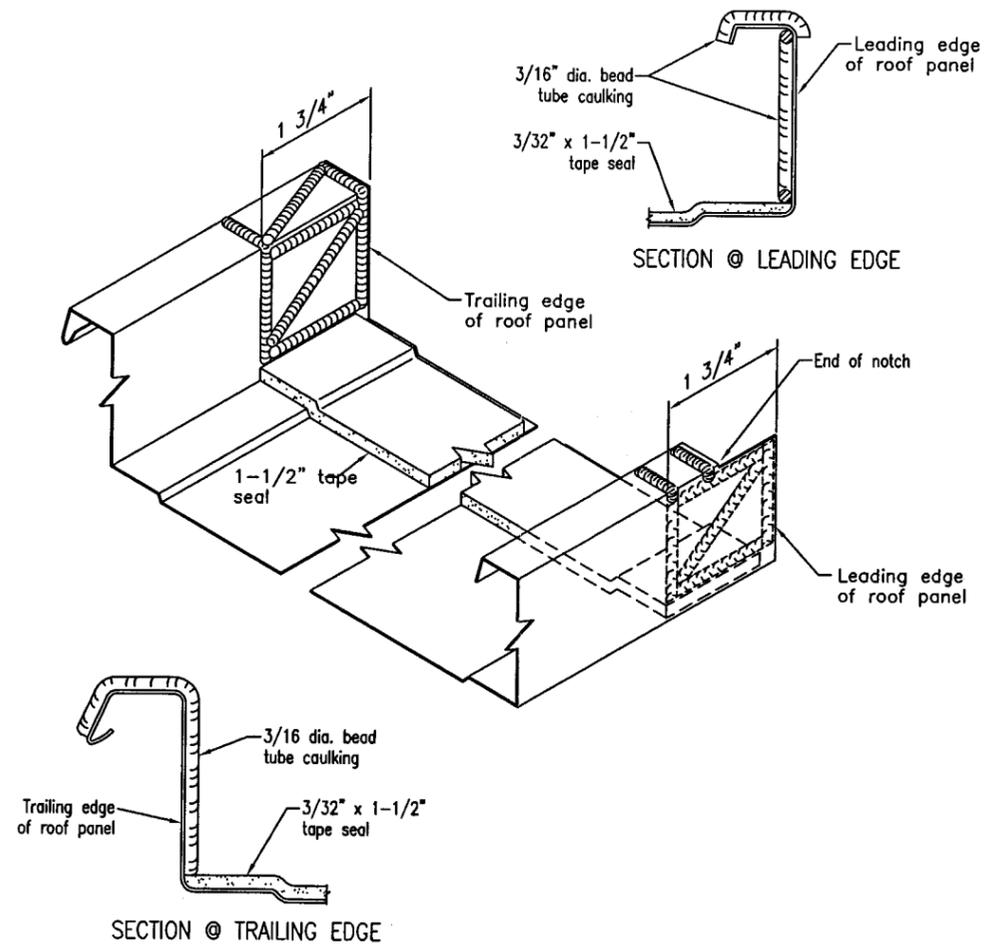
*Terrence Wolfe*  
6-24-05



- 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.



LAP FASTENERS



- 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 can not have any gaps.

*Terrence E. Wolfe*  
6-21-05

<p>PRODUCT REVISED as complying with the Florida Building Code Acceptance No. <u>05-1102.02</u> Expiration Date <u>08/29/2007</u> By <i>Helmut A. Hahn</i> Miami Dade Product Control Division</p>			
MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E.	
FLORIDA REGISTRATION NO.		44923	
WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24			
 P.O. BOX 75280 - 8234 HANSEN RD. HOUSTON, TX 77234-5280 - (713) 948-4800	REL.	BY	DESCRIPTION
		BJ	REVISION 1
DATE	6-17-05		
PROJECT	DADE COUNTY PRODUCT APPROVAL		
SHEET TITLE	WEATHER LOK 16-24 DETAILS		DATE 3-27-02
LOCATION	DADE COUNTY, FLORIDA		SCALE N.T.S.
DRAWN BY:	CHECKED BY:	PROJECT NUMBER	DRAWING NUMBER
			14003502
			SHEET NUMBER
			8 of 8