



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

NOTICE OF ACCEPTANCE (NOA)

Nucor Building Systems
200 Whetstone Road
Swansea, SC 29160

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: 0.030" (min.) Structural VR16-II "VICE LOCK 360" Galvalume Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. LS36022, titled **VR16-II "VICE LOCK 360"** sheets 1 through 6 of 6, prepared by Jeffrey C. Walsh, P.E., dated November 25, 2009, signed and sealed by Jeffrey C. Walsh, P.E. on December 03, 2009, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
 01/27/2010

NOA No. 09-0723.08
Expiration Date: 10/17/2012
Approval Date: 01/27/2010
Page 1

Nucor Building Systems

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. LS36022, titled VR16-II "VICE LOCK 360", sheets 1 through 6 of 6, prepared by Jeffrey C. Walsh, P.E., dated November 25, 2009, signed and sealed by Jeffrey C. Walsh, P.E. on December 03, 2009.*

B. TESTS

1. *See NOA # 07-1025.03 per Private Labeling Agreement.*

C. CALCULATIONS

1. *See NOA # 07-1025.03 per Private Labeling Agreement.*

D. QUALITY ASSURANCE

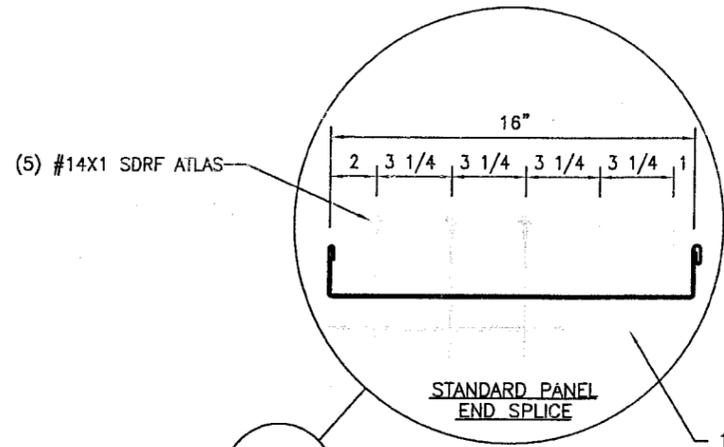
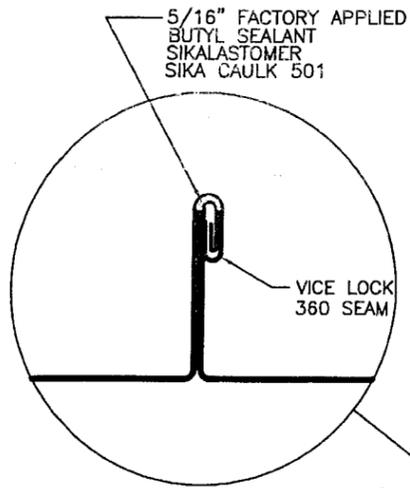
1. *By Miami Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

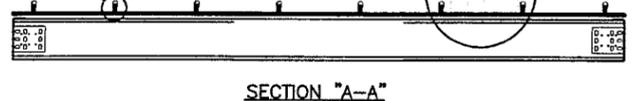
1. *See NOA # 07-1025.03 per Private Labeling Agreement.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 09-0723.08
Expiration Date: 10/17/2012
Approval Date: 01/27/2010



PRODUCT	MANUFACTURER
#12X1 1/4 SDHH	ATLAS BOLT & SCREW
#12X1 1/4 SDRF	ATLAS BOLT & SCREW
#12-24 X 1 1/2" SDRF TS	ATLAS BOLT & SCREW
#14X 1 SDRF	ATLAS BOLT & SCREW
1 1/2X1/8 TAPE MASTIC	SIKA CORP.
5/16" BUTYL SEALANT	SIKA CORP.

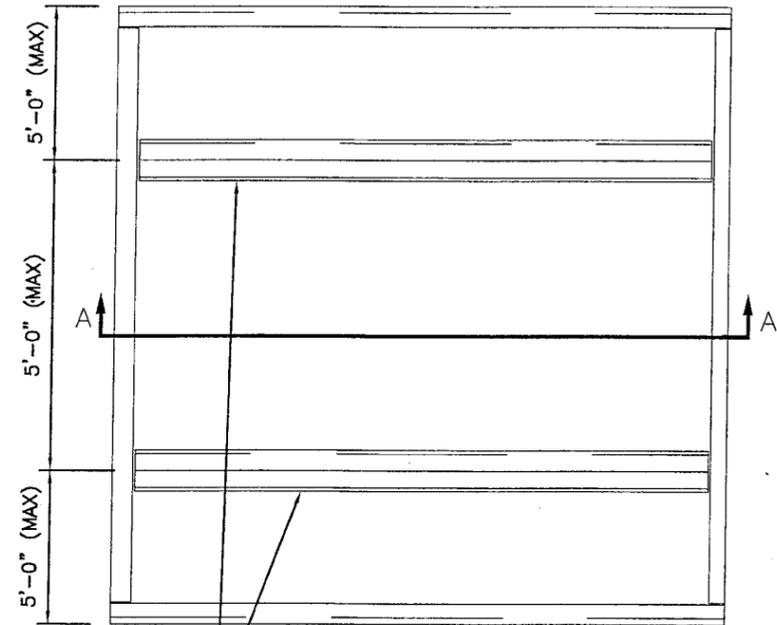
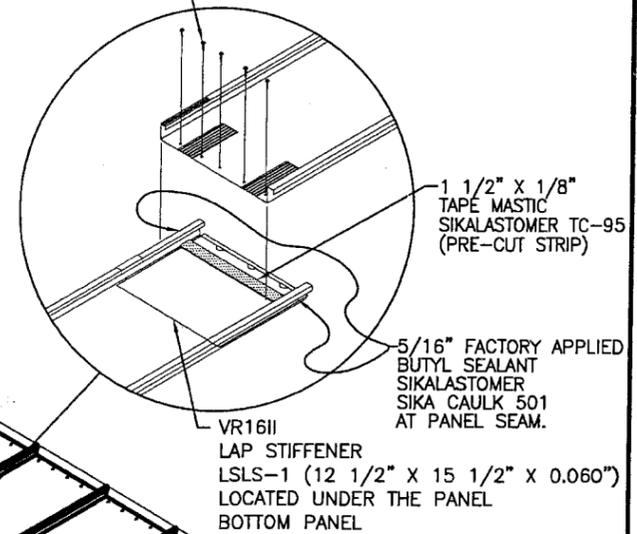


EACH PANEL END SHALL BE ATTACHED TO THE STEEL FRAME (WITH 0.060" MIN. THICKNESS) BY #14X1" SDRF ROOF FASTENER 3 1/4" O.C.

1 1/2" X 1/8" TAPE MASTIC SIKALASTOMER TC-95 (PRE-CUT STRIP)

EACH PANEL AT THE EDGE OF THE ROOF SHALL BE ATTACHED TO THE STEEL FRAME (WITH 0.060" MIN. THICKNESS) BY ROOF FASTENER #14X1" SDRF LOCATED 1'-0" FROM THE ENDS AND 3'-0" O.C. ALONG THE EXTERIOR SIDE OF THE PANEL.

(5) #14X1 SDRF ATLAS
STANDARD PANEL END SPLICE LOCATED AT 12" FROM SUPPORT PURLIN



VR16II PANEL CLIP LSEC-1 OR LSEC-2 W/ (2) #12X1 1/4 SDHH ATLAS LOCATED AT EACH PANEL SIDELAP AT PURLINS

VR16II PANEL

PURLIN
THE PURLIN DESIGN IS NOT PART OF THIS PRODUCT CONTROL APPROVAL AND IT SHALL BE REVIEWED BY THE CORRESPONDING BUILDING DEPARTMENT FOR EACH JGB. PURLIN'S THICKNESS SHALL BE 0.060" (MIN.)

DWG No. LS36022 SHEET No. 1 of 6

For Dade County Office Use Only

Approved as complying with the Florida Building Code
Date 01/27/2010
NOA# 09-0723.08
Miami Dade Product Control Division
By *Heather A. Nelson*

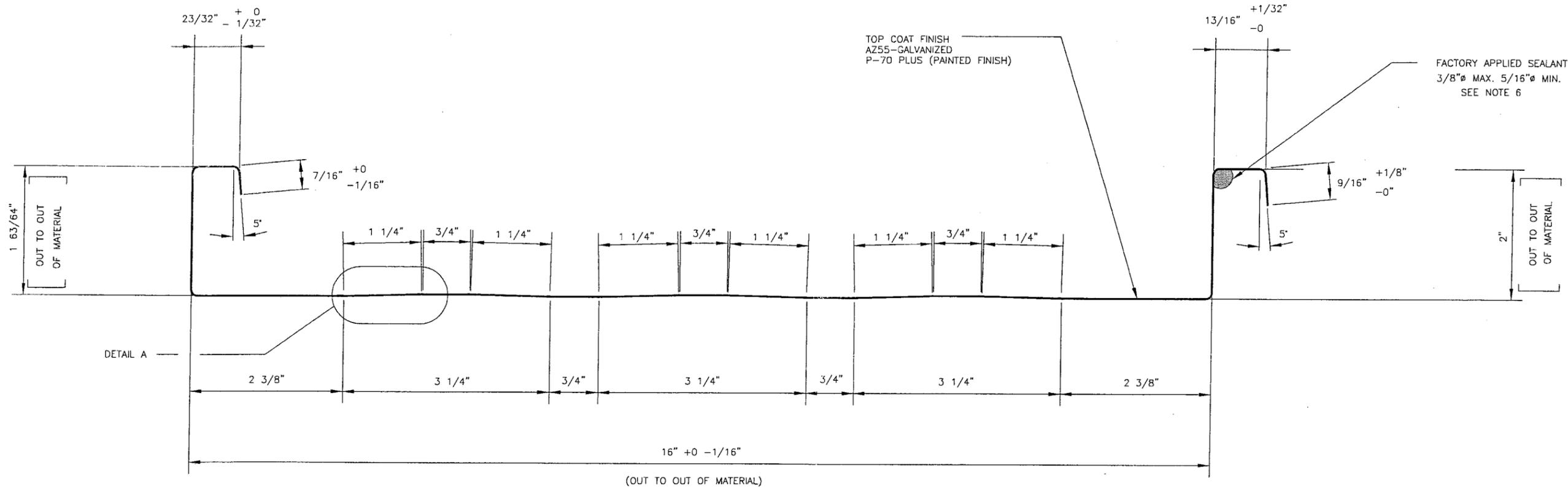
NO.	REVISION	MADE	CK'D.	DATE

Jeffrey C. Walsh
12/3/09

ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE: 11-25-09
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: RLV	CHECKED BY: HRW
	DESIGN APP'D. BY:	ISSUED DATE:

DADE COUNTY
VR16-II "VICE LOCK 360"
ROOF PANEL TEST SETUP

NUCOR BUILDING SYSTEMS	PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121
DRAWING NUMBER: VR16II-MD1	REVISION NUMBER: 0



VR16II VICE LOCK 360 ROOF PANELS: 22 GAUGE

THE MAXIMUM PANEL SPAN AND THE MAXIMUM ALLOWABLE DESIGN UP-LIFT (NEGATIVE) PRESSURE OF THIS ROOF PANEL SHALL BE BASED ON THE FOLLOWING PANEL'S ALLOWABLES:

- * MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORTS = 80.8 ft-lbs.
- * MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 62.9 ft-lbs.
- * MAXIMUM ALLOWABLE PANEL REACTION AT SUPPORT = 204.8 lbs.
- * MAXIMUM ALLOWABLE DEFLECTION OF PANEL = $\frac{L}{240}$
- * PANEL'S EI VALUE = 846,072 lbs.-in²

NOTES

- * THIS ROOF PANEL IS APPROVED FOR UPLIFT (NEGATIVE) PRESSURE PER THE PANEL'S ALLOWABLE SHOWN ABOVE AND GRAVITY (POSITIVE) PRESSURE OF 30.00 PSF.
- * THIS ROOF PANEL IS APPROVED FOR SPANS OF UP TO 5'-0" MAXIMUM.

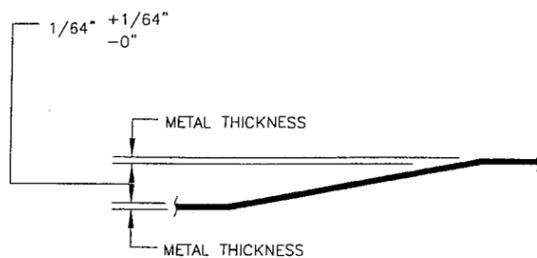
GENERAL NOTES

1. ALL DIMENSIONS ARE ±1/16" (U.N.) EXCEPT TOLERANCE DIMENSIONS.
2. ALL RADII = 3/32" (+1/32", -0")
3. COIL WIDTH = 22" FOR 16" PANEL
TOLERANCE = +1/8", -0"
4. PANEL LENGTHS = SEE MFG. SECTION OF MASTER PARTS LISTING.
5. PANEL MATERIAL SHALL BE 0.030" (MIN.) GALVALUME STEEL PER ASTM A792 GR50 WITH MINIMUM YIELD 50 KSI AND COATED WITH AZ55.
6. MASTIC SHALL BEGIN AND END A MAXIMUM DISTANCE OF 2" FROM BOTH PANEL ENDS, EXCEPT ON SWAGED PANEL END WHICH WILL BEGIN 2" MAXIMUM FROM THE SWAGE.

DWG No. **LS36022** SHEET No. **2 of 6**

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 NOA# 09-0723.08
 Miami Dade Product Control Division
 By Heather A. Miller



DETAIL A
(TYPICAL)

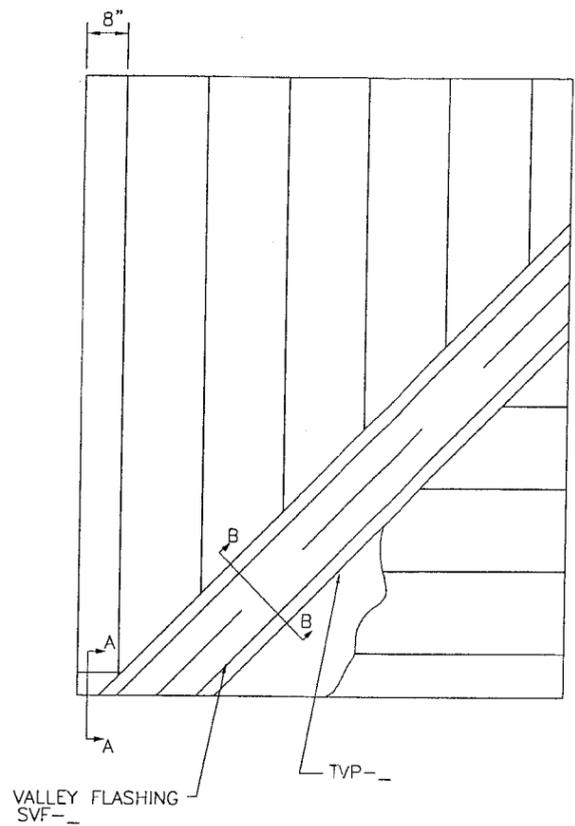
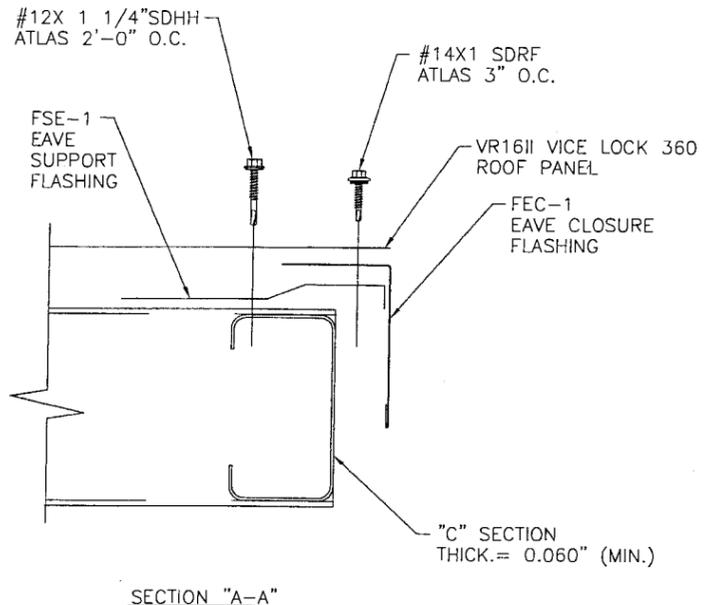
Handwritten: J.C. Walsh
12/3/09

NO.	REVISION	MADE	CHK'D.	DATE

ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE: 11-25-09
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: EJV	CHECKED BY: ERW
	DESIGN APP'D. BY:	ISSUED DATE:

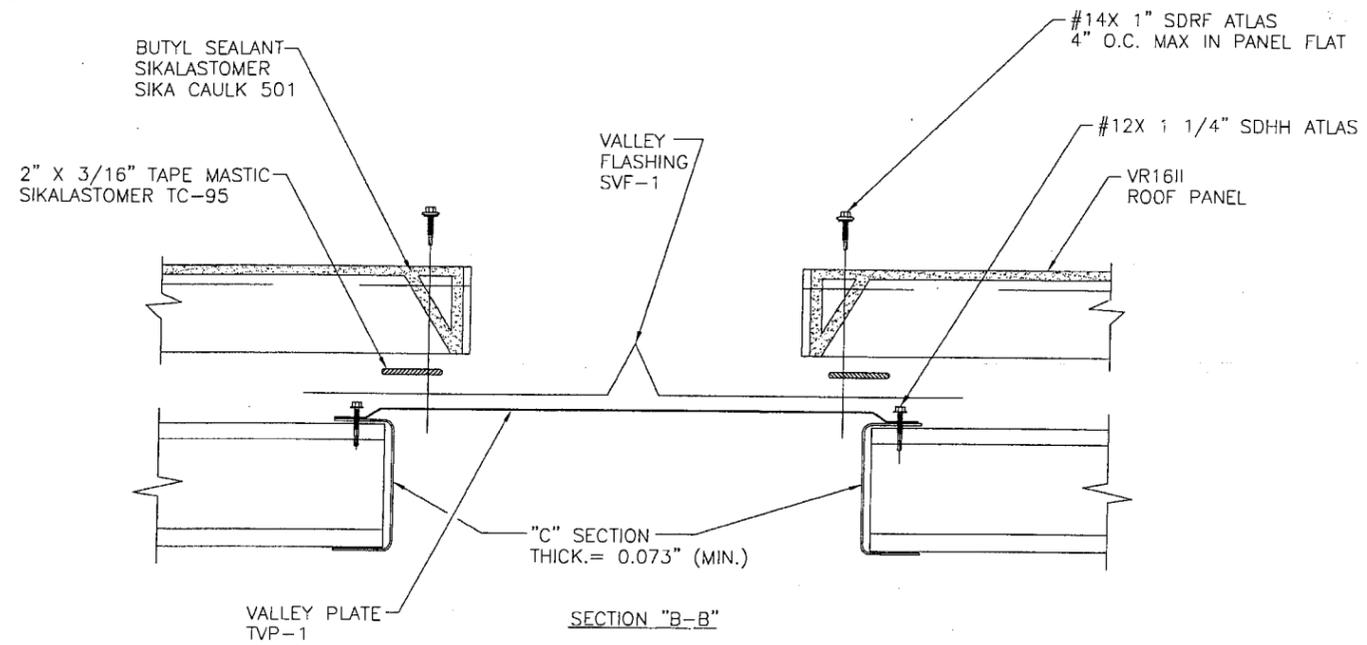
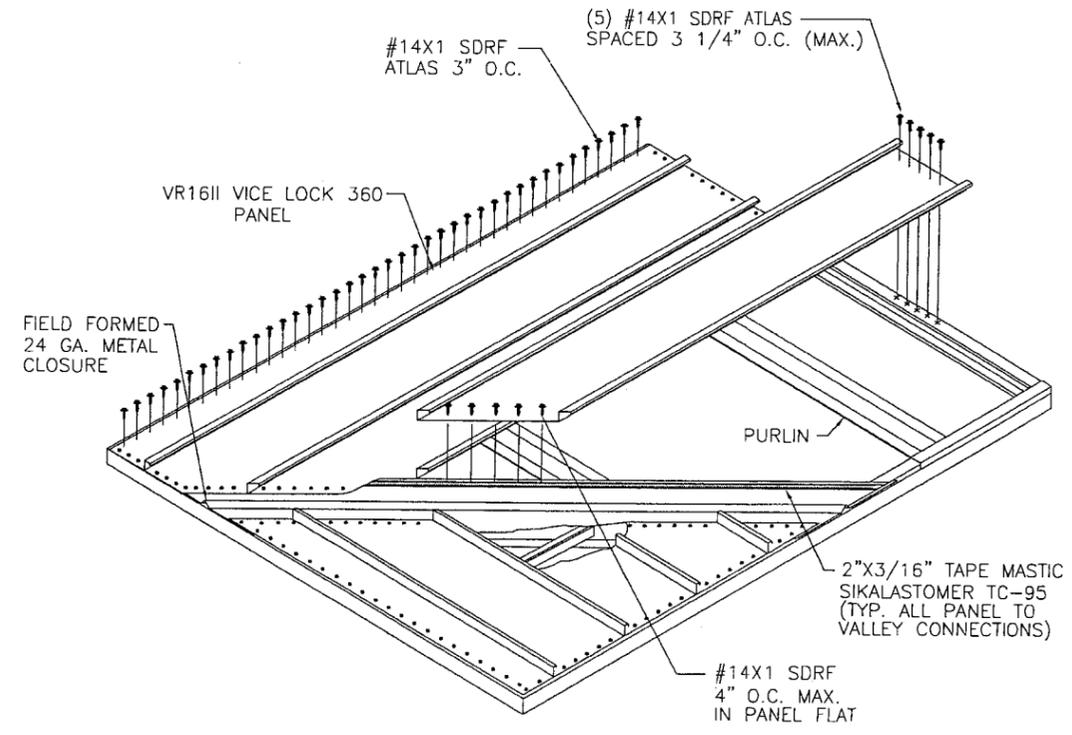
**VR16-II PANEL
CROSS SECTION
LC624-LENGTH**

NUCOR BUILDING SYSTEMS	PO BOX 1006, 200 WHEATSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121
DRAWING NUMBER: VR16II-MD3	REVISION NUMBER: 0



PRODUCT	MANUFACTURER
#12X1 1/4 SDHH	ATLAS BOLT & SCREW
#14X1 SDRF	ATLAS BOLT & SCREW
BUTYL SEALANT	SIKA CORP.
2"X3/16" TAPE MASTIC	SIKA CORP.

MINOR RIBS OMITTED FOR CLARITY



DWG No. LS36022 SHEET No. 4 of 6

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 Miami Dade Product Control Division
 By Heather A. Nelson

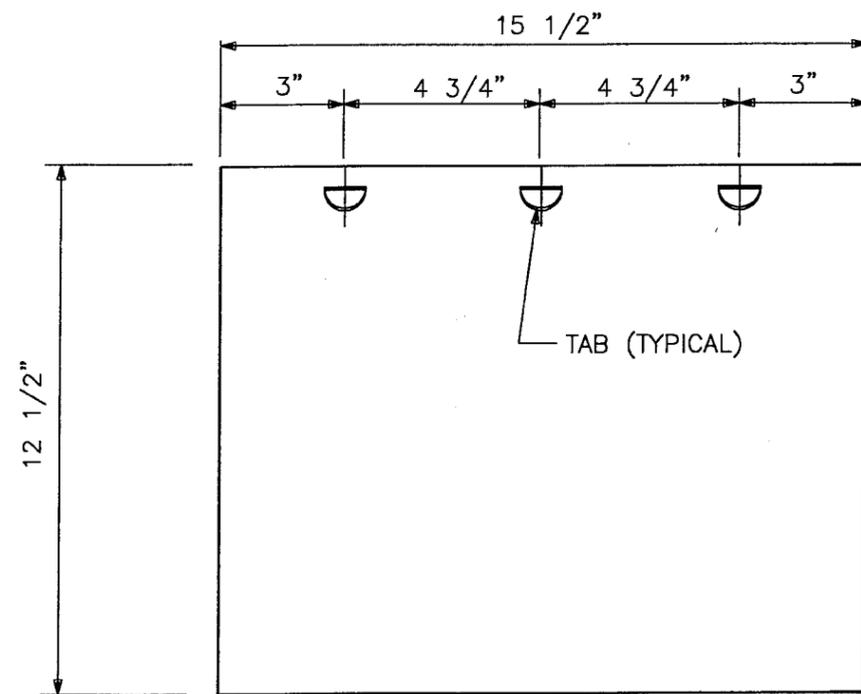
NO.	REVISION	MADE	CK'D.	DATE

Handwritten: c Walsh 12/3/09

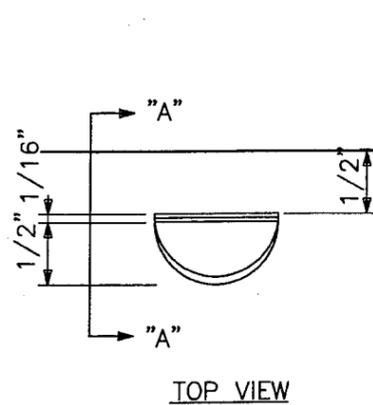
ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE: 11-25-09
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: RLY	CHECKED BY: BRW
	DESIGN APP'D. BY:	ISSUED DATE:

DADE COUNTY
 VR16-II ROOF PANEL
 W/ VALLEY TEST SETUP
 PA-100

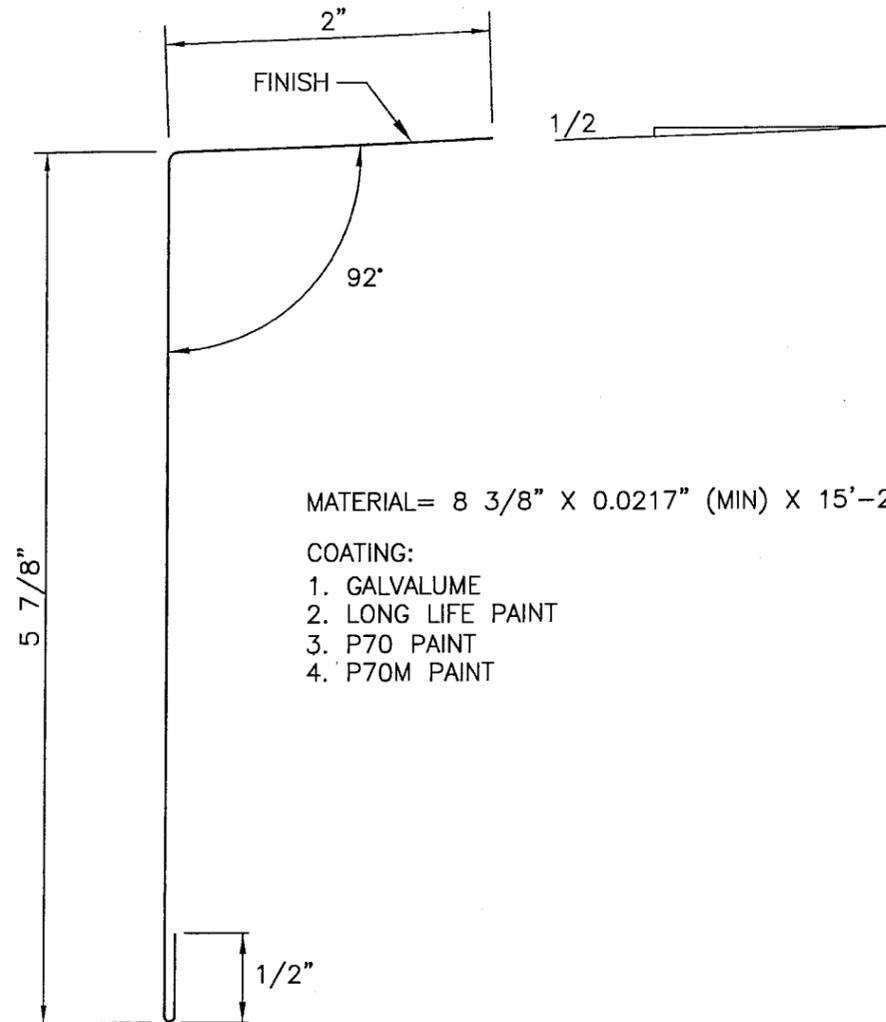
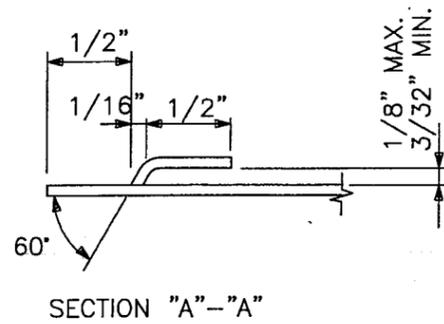
NUCOR BUILDING SYSTEMS	PO BOX 1008, 200 WHEATSTONE RD. SWANSEA, SC 29180 PHONE: (803) 588-2100 FAX: (803) 588-2121
DRAWING NUMBER: VR16II-MD2	REVISION NUMBER: 0



STOCK = 12 1/2" X 0.060" X 15 1/2"
 FINISH = PREPAINTED WITH RED OXIDE POLYESTER PAINT
 STEEL SPEC. = ASTM A570-88, GRADE 55



TAB DETAILS



MATERIAL = 8 3/8" X 0.0217" (MIN) X 15'-2" (50 KSI MIN)
 COATING:
 1. GALVALUME
 2. LONG LIFE PAINT
 3. P70 PAINT
 4. P70M PAINT

EAVE CLOSURE FLASHING
 FEC-1

DWG. NO. LS36022 SHEET NO. 5 OF 6

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 Florida Building Code
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 NOA# 09-0723.08
 Miami Dade Product Control
 Division
 By *Helmy A. Alkhalaf*

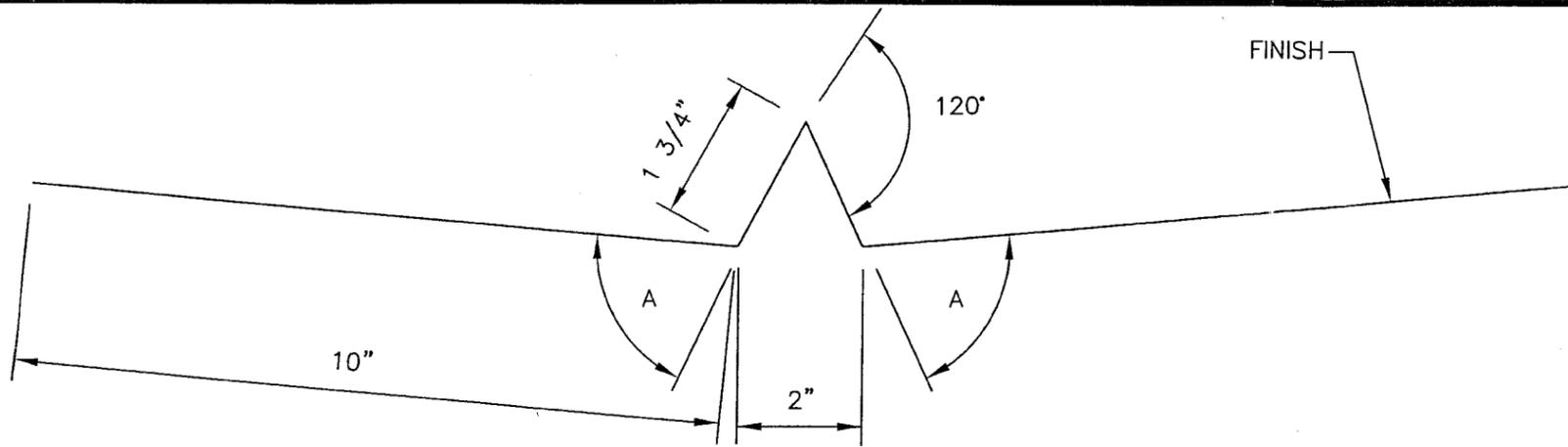
NO.	REVISION	MADE	CHK'D.	DATE

J.C. Walsh
 12/3/09

ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE 11-25-09
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: RLV	CHECKED BY: BRW
	DESIGN APP'D. BY:	ISSUED DATE:

VR16-II
LAP STIFFENER
& EAVE CLOSURE FLASHING

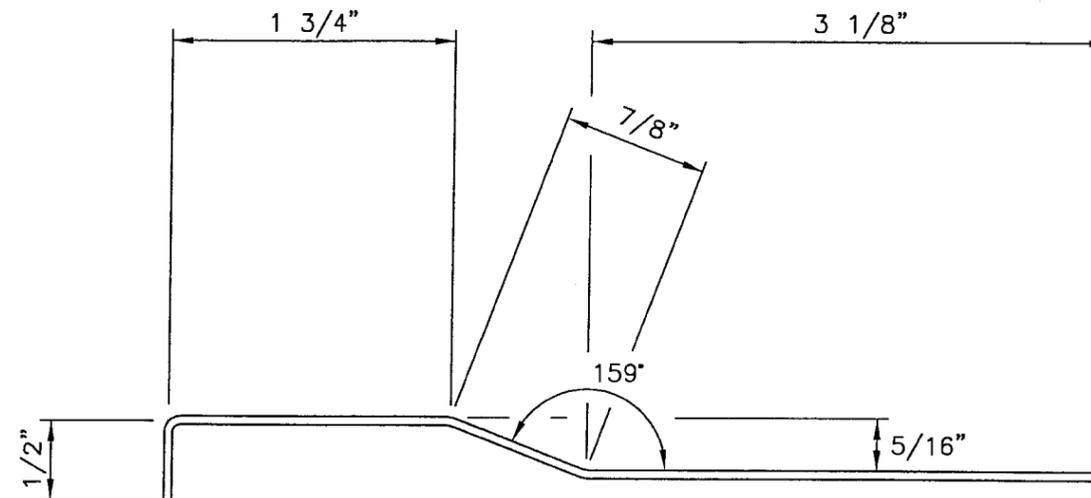
NUCOR BUILDING SYSTEMS	PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29160 PHONE: (803) 568-2100 FAX: (803) 568-2121
DRAWING NUMBER: VR16II-MD5	REVISION NUMBER 0



MATERIAL:
23 1/2" STOCK X 0.0217" (MIN.)

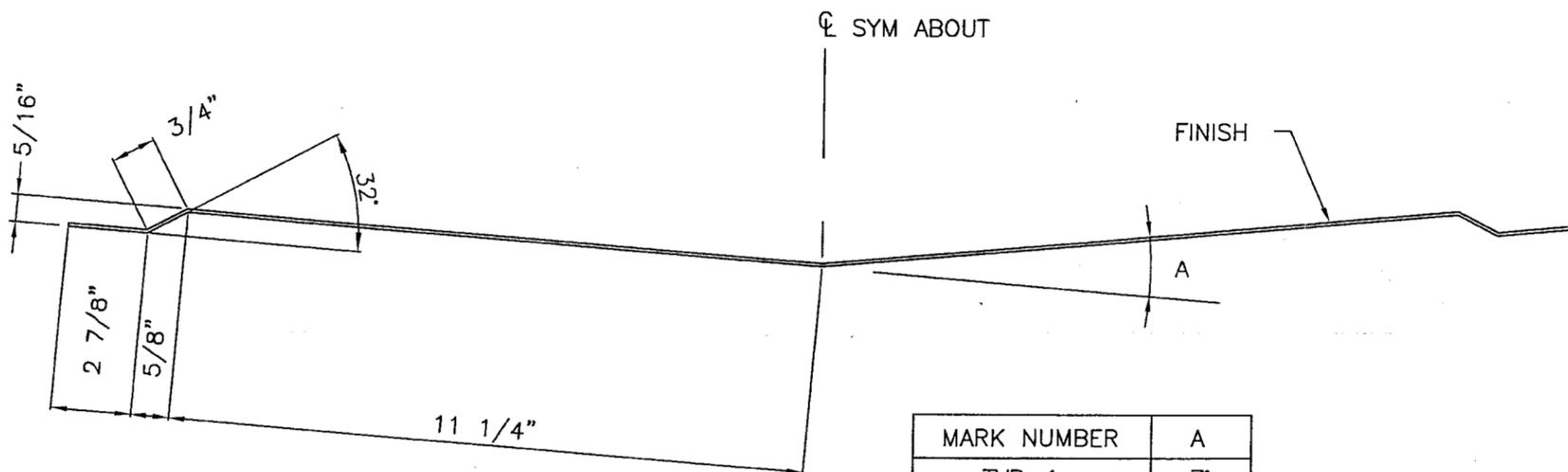
MARK NO	A
SVF-1	63°

VALLEY FLASHING
SVF-1



MATERIAL= 6 1/4" X 0.0516" X 15'-2" (CQ min.)
COLOR= ALCT

FLASHING EAVE SUPPORT
FSE-1



MATERIAL:
30" STOCK X 0.0516" (MIN.)

MARK NUMBER	A
TVP-1	7°

VALLEY PLATE
TVP-1

DWG. NO. LS36022 SHEET NO. 6 OF 6

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Florida Building Code
Date 01/27/2010
NOA# 09-0723.08
Miami Dade Product Control
Division
By *Heather A. Mohr*

NO.	REVISION	MADE	CK'D.	DATE

Jeffrey C. Walsh
12/3/09

ENGINEER'S NAME: JEFFREY C. WALSH	SCALE: NOT TO SCALE	DATE 11-25-09
ENGINEER'S STATE REGISTRATION NUMBER: 41467	DRAWN BY: ELV	CHECKED BY: ELV
	DESIGN APP'D. BY:	ISSUED DATE:

VALLEY FLASHING, VALLEY PLATE,
AND
FLASHING EAVE SUPPORT

NUCOR BUILDING SYSTEMS	PO BOX 1006, 200 WHETSTONE RD. SWANSEA, SC 29180 PHONE: (803) 588-2100 FAX: (803) 588-2121
DRAWING NUMBER: VR16II-MD6	REVISION NUMBER 0