



**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**

NOTICE OF ACCEPTANCE (NOA)

**Copper Sales, Inc.
1950 N.W. 18th Street
Pompano Beach, Florida 33069**

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: (UC – 5) Structural Standing Seam Roof Panel System

APPROVAL DOCUMENT: Drawing No. UC-5, titled “Copper Sales, Inc. UC-5 Structural Standing Seam System”, sheets 1 through 5 of 5, prepared by Terrence E. Wolfe, P.E., dated October 24, 2002, 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.

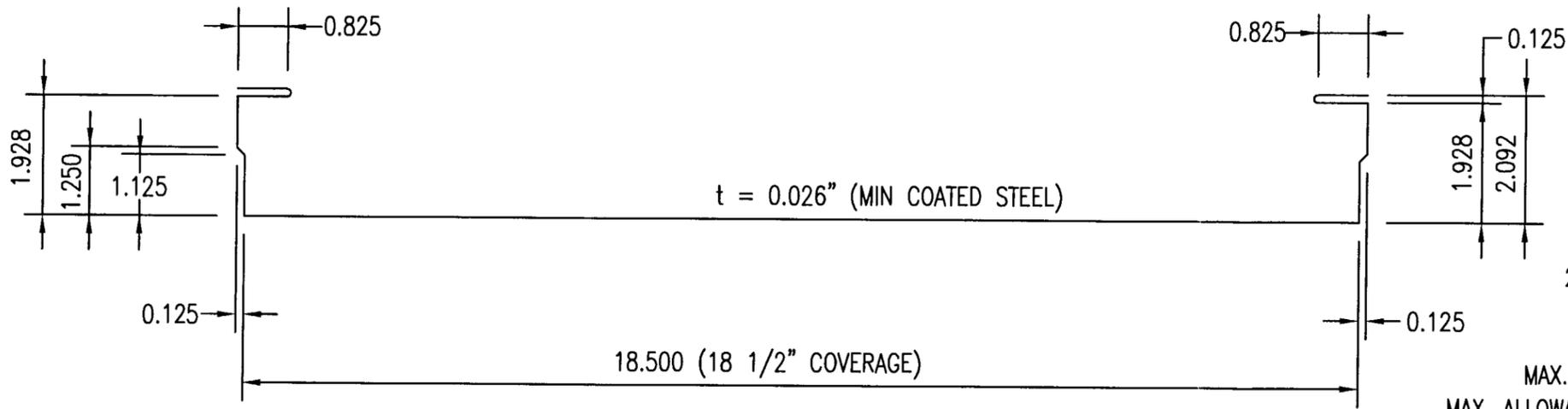
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



**NOA No 01-0509.13
Expiration Date: 01/16/2008
Approval Date: 01/16/2003
Page 1**



UC-5 STANDING SEAM PANEL SECTION

NOTES:

1. THE (.026" MIN.) UC-5 STANDING SEAM 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:

- a. DETAILS OF ALL PANEL MATERIAL CHARACTERISTICS AND SECTIONS WITH DIMENSIONS AND THICKNESS.
- b. ASSEMBLY DETAILS INCLUDING ALL CONNECTION'S FASTENERS DIAGRAM WITH SIZE AND LOCATION.
- c. PANEL MAXIMUM SPAN AND PRESSURE FOR THE FIELD, PERIMETERS AND CORNERS BASED ON PANEL ALLOWABLES. SHOWN BELOW.

2. THE MAXIMUM ALLOWABLE SPANS AND UPLIFT PRESSURES FOR THE (.026" MIN. COATED) UC-5 STEEL ROOF PANEL SHALL BE BASED ON THE FOLLOWING PANEL'S ALLOWABLES:

- MAX. ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORTS = 158.00 FT-LBS
- MAX. ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 123.00 FT-LBS
- MAX. ALLOWABLE PANEL REACTION AT SUPPORTS = 400.70 LBS
- MAX. ALLOWABLE DEFLECTION OF PANEL = L/240
- PANEL'S EI VALUE = 1,189,788.75 LBS-IN²

TO OBTAIN THE MAXIMUM ALLOWABLE DESIGN UPLIFT PRESSURE USE THE LOWEST PRESSURE OBTAINED FROM THE ABOVE PANEL ALLOWABLES AND MULTIPLY IT BY 12/20.

3. MAXIMUM ALLOWABLE PANEL SPAN IS 5 FEET.

4. ALL PANEL ATTACHMENT CHANNELS SHALL BE ATTACHED TO STEEL SUPPORT MEMBERS WITH 0.0575" MINIMUM THICKNESS.

5. PANEL END LAPS ARE NOT PERMITTED.

PANEL PROPERTIES

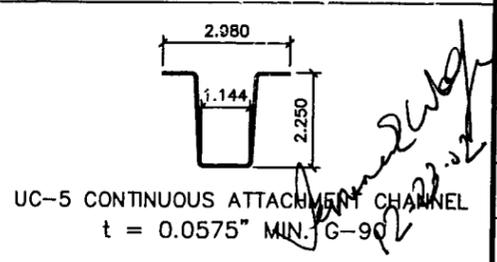
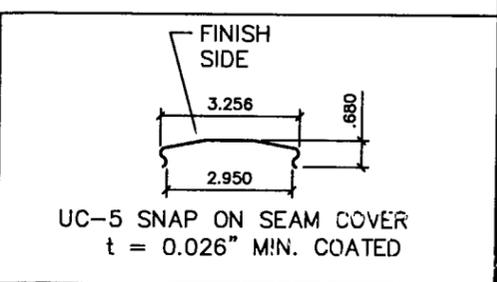
PANEL THICKNESS	YIELD STRENGTH	TENSILE STRENGTH	ELONGATION	STEEL COATING	PAINT COATINGS
.026" MIN. COATED	50 KSI	60	20	AZ 55	PVF2

PANEL ACCESSORIES

- DYNAMIC FASTENERS**
9911 E. 53RD. STREET
RAYTOWN (K.C.) MO 64133
- 1/4-14 X 7/8" LONG HWH T-1 SELF DRILLER W/BONDED NEOP. WASHER W/LOGLIFE HEAD
 - 1/4-14 X 1" LONG HWH T-3 SELF DRILLER W/BONDED NEOP. WASHER W/LOGLIFE COATING
 - 12 X 1 1/4" LONG PANCAKE HEAD SELF DRILLER MINIMUM 8u ZINC COATING

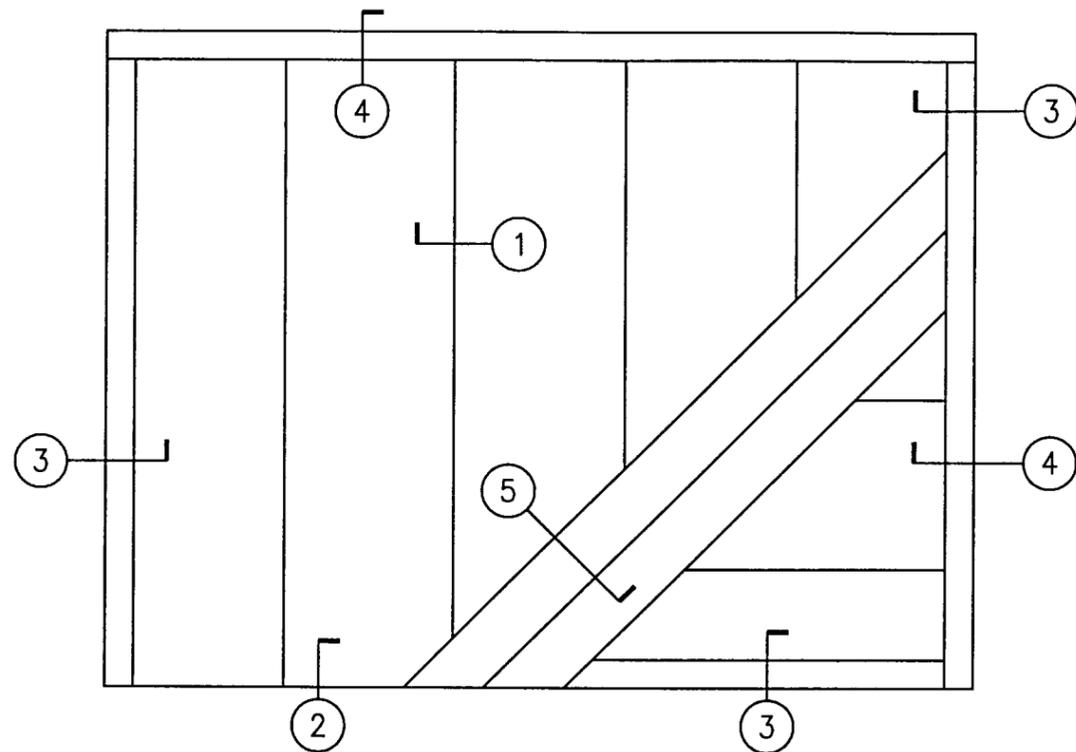
1/8" X 1"
1/8" x 1" BUTYL TAPE #TC95-35
ISOBUTYLENE TRIPOLYMER TAPE

ONE-PART, MOISTURE CURING,
POLYURETHANE SEALANT
POLYURETHANE SEALANT



Approved as complying with the
Florida Building Code
Date 01/16/2003
NOA# 01-0509-13
Miami Dade Product Control
Division
By Helmut A. Miller

MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.	DISCIPLINE :	CIVIL
TEXAS REGISTRATION NO.	44923	COPPER SALES, INC. UC-5 STRUCTURAL STANDING SEAM SYSTEM	
COPPER SALES, INC.		UNA-CLAD PRODUCTS	
COPPER SALES, INC. 1001 LAND BOULEVARD ANOKA, MINNESOTA 55303			
PROJECT	DADE COUNTY PRODUCT APPROVAL	REL	BY
SHEET TITLE	UC-5 DETAILS	DATE	10/24/02
LOCATION	DADE COUNTY, FLORIDA	SCALE	NTS
		DRAWING NUMBER	UC-5
		SHEET NUMBER	1



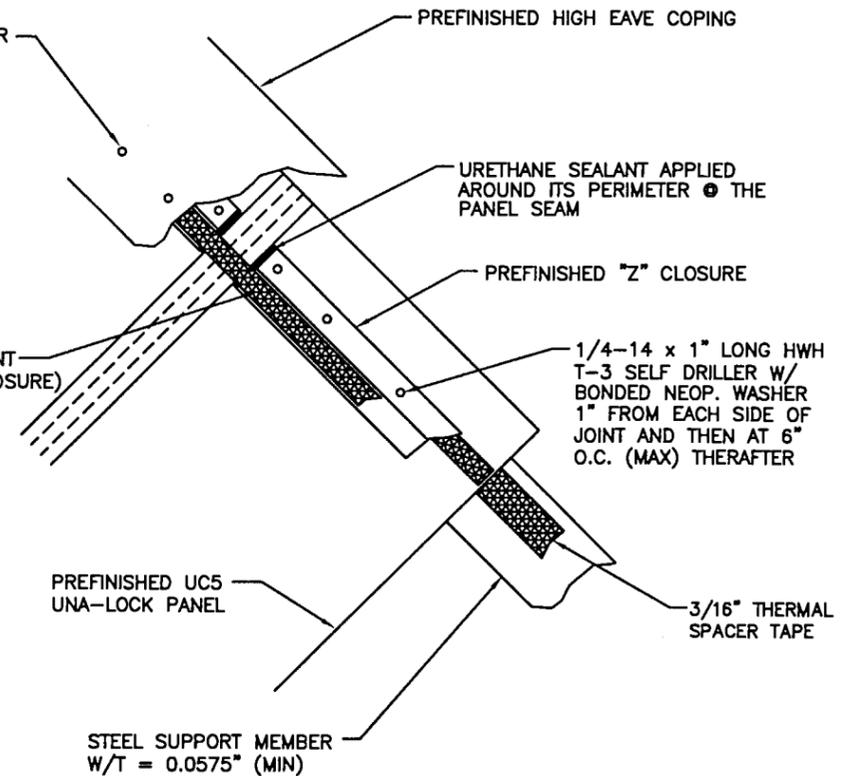
UC-5 WIND DRIVEN RAIN TEST PANEL

1/4-14 x 7/8" LONG HWH T-1 SELF DRILLER
W/BONDED NEOP. WASHER 6" O.C. (MAX)

1/8"x1" BUTYL TAPE SEALANT
(TOP & BOTTOM OF "Z" CLOSURE)

PREFINISHED UC5
UNA-LOCK PANEL

STEEL SUPPORT MEMBER
W/T = 0.0575" (MIN)



PLAIN VIEW AT HIGH EAVE

1/4-14 x 7/8" LONG HWH T-1 SELF DRILLER
W/BONDED NEOP. WASHER 6" O.C. (MAX)

PREFINISHED "Z" CLOSURE WITH
URETHANE SEALANT APPLIED
AROUND ITS PERIMETER @ THE
PANEL SEAM

1/8"x1" BUTYL TAPE SEALANT
(TOP & BOTTOM OF "Z" CLOSURE)

PREFINISHED UC5
UNA-LOCK PANEL

3/16" THERMAL SPACER TAPE
CONTINUOUS

STEEL SUPPORT MEMBER
W/T = 0.0575" (MIN)

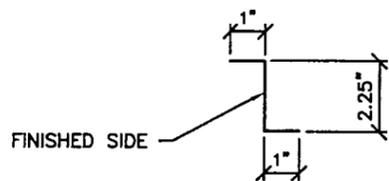
1/4-14 x 1" LONG HWH T-3 SELF DRILLER
W/BONDED NEOP. WASHER 1" FROM EACH SIDE
OF JOINT AND THEN AT 6" O.C. (MAX) THERAFTER

1/4-14 x 7/8" LONG HWH T-1 SELF DRILLER
W/BONDED NEOP. WASHER 6" O.C. (MAX)

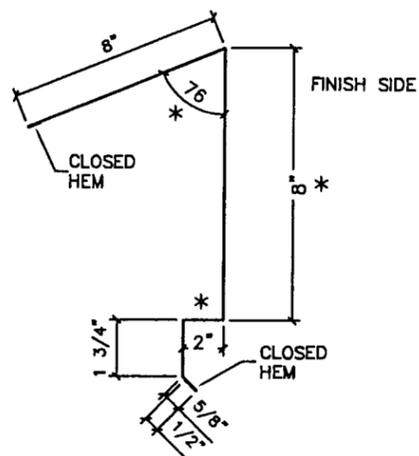
CONTINUOUS URETHANE SEALANT
APPLIED TO BOTTOM OF FLASHING

SECTION THRU HIGH EAVE
SECTION (4)

PREFINISHED "Z" CLOSURE (t=.026" MIN.COATED)



PREFINISHED TOP COPING (t=.026" MIN. COATED)



* ASTERICK ITEMS ARE ADJUSTED TO FIELD SPECIFIC CONDITIONS.

Approved as complying with the
Florida Building Code
Date 01/16/2003
NOA# 01-0509.13
Miami Dade Product Control
Division
By: *Helmut A. Miller*

MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.	DISCIPLINE : CIVIL
TEXAS REGISTRATION NO.	44923	
COPPER SALES, INC. UC-5 STRUCTURAL STANDING SEAM SYSTEM		
PROJECT: DADE COUNTY PRODUCT APPROVAL SHEET TITLE: UC-5 DETAILS LOCATION: DADE COUNTY, FLORIDA		
REL. BY	DESCRIPTION	DATE
DRWN BY	REVISION NO:	10/24/02
CHECKED BY	SCALE	NTS
PROJECT NUMBER	DWG. NUMBER	SHEET NUMBER
	UC-5	2

Terrence E. Wolfe
12-23-02

PREFINISHED UC-5 SNAP-ON SEAM COVER
W/CONTINUOUS BEAD OF FACTORY APPLIED
SEALANT INSIDE CORNERS OF COVER

FIELD APPLY 1/4" BEAD OF URETHANE SEALANT
INSIDE THE CONTINUOUS HEM OF PANEL

1/4-14 x 1" LONG HWH T-3 SELF DRILLER
W/BONDED NEOP. WASHER 1" FROM EACH SIDE
OF JOINT AND THEN AT 6" O.C. (MAX) THERAFTER

PREFINISHED UC-5 PANEL

1/4-14 x 1" LONG HWH
T-3 SELF DRILLER W/BONDED
NEOP. WASHER 1" FROM EACH
SIDE OF JOINT AND THEN AT 6"
O.C. (MAX) THERAFTER

ATTACHMENT CHANNEL

BUTYL SEALANT TAPE
UNDER PANELS AND
ATTACHMENT CHANNEL

SHEET METAL
ENDCAP

PREFINISHED UC5
UNA-LOCK PANEL

3/16" THERMAL SPACER TAPE
CONTINUOUS

STEEL SUPPORT MEMBER
W/T = 0.0575" (MIN)

APPLY URETHANE SEALANT AT
THE END OF EACH ATTACHMENT
CHANNEL. MARRY SEALANT TAPE
TO FACTORY APPLIED SEALANT

(2) 1/4-14 x 1" LONG HWH T-3 SELF DRILLER W/
BONDED NEOP. WASHER @ EACH SUPPORT MEMBER
MIN. SPACING = 3/4" O.C.

SEAL AT BOTTOM OF PANEL

3/16" S.S. RIVET (2) 1" FROM
EACH END OF PANEL (TYP)

1/4-14 x 1" LONG HWH T-3 SELF DRILLER
W/BONDED NEOP. WASHER 1" FROM EACH SIDE
OF JOINT AND THEN AT 6" O.C. (MAX) THERAFTER

CUT ATTACHMENT CHANNEL
ON A BEVEL TO MATCH THE
CUT IN THE PANELS

APPLY URETHANE SEALANT TO
THE BOTTOM OF EACH SEAM
TO PREVENT WATER INFILTRATION.
MARRY SEALANT TAPE TO
FACTORY APPLIED SEALANT

2" LONG VALLEY TRIM
ANCHOR CLIP @ 24"
O.C. (MAX)

CONTINUOUS 1/4" x 2 1/2" TRIPLE
BEAD BUTYL TAPE SEAL (BOTH SIDES)

VALLEY PLATE (CONT.)
W/T = 0.0575" (MIN)

PREFINISHED VALLEY FLASHING W/T =
0.0236" (MIN) AND 20 1/2" WIDE AND
SPANNED THE LENGTH VALLEY.

PLAIN VIEW AT VALLEY

APPLY URETHANE SEALANT TO
THE BOTTOM OF EACH SEAM
TO PREVENT WATER INFILTRATION.
MARRY SEALANT TAPE TO
FACTORY APPLIED SEALANT

3/16" S.S. RIVET (2) 1" FROM
EACH END OF PANEL (TYP)

ATTACHMENT CHANNEL

PREFINISHED UC-5 PANEL

PREFINISHED VALLEY FLASHING
(.026" MIN. COATED)

1'-0" (MIN.)

2" LONG VALLEY TRIM
ANCHOR CLIP @ 24"
O.C. (MAX)

1/4-14 x 1" LONG HWH T-3 SELF DRILLER
W/BONDED NEOP. WASHER 1" FROM EACH SIDE
OF JOINT AND THEN AT 6" O.C. (MAX) THERAFTER

12 X 1 1/4" LONG PANCAKE
HEAD SELF DRILLER (1) PER
CLIP

1/4" x 2-1/2" TRIPLE BEAD
BUTYL TAPE (BOTH SIDES)

VALLEY PLATE (CONT.)
W/T = 0.0575" (MIN)

STEEL SUPPORT MEMBER
W/T = 0.0575" (MIN)

SECTION THRU VALLEY
SECTION ⑤

Terrence Wolfe
12-23-02

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NOA# 01-0509.13
Miami Dade Product Control
Division
By Helmut A. Miller

MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E. DISCIPLINE : CIVIL	
TEXAS REGISTRATION NO.		44923	
COPPER SALES, INC. UC-5 STRUCTURAL STANDING SEAM SYSTEM			
COPPER SALES, INC.  UNA-CLAD PRODUCTS			
COPPER SALES, INC. 1001 LINDA BOULEVARD ANOKA, MINNESOTA 55303			
PROJECT	DADE COUNTY PRODUCT APPROVAL	REL. BY	DATE
SHEET TITLE	UC-5 DETAILS	DESIGNED BY	10/24/02
LOCATION	DADE COUNTY, FLORIDA	SALE	NTS
		DRAWING NUMBER	UC-5
		SHEET NUMBER	3

3/16" S.S. RIVET (2) 1" FROM EACH END OF PANEL (TYP)

24 GA. PREFINISHED UC-5 SNAP-ON SEAM COVER

FIELD APPLY 1/4" BEAD OF URETHANE SEALANT INSIDE CONTINUOUS HEM OF PANEL

CONTINUOUS FACTORY APPLIED SEALANT INSIDE CORNERS OF SEAM COVER

20" O/C CENTER TO CENTER

3.250

0.260" PREFINISHED UC5

STEEL SUPPORT MEMBER W/T = 0.0575" (MIN)

3/16" THERMAL SPACER TAPE CONTINUOUS

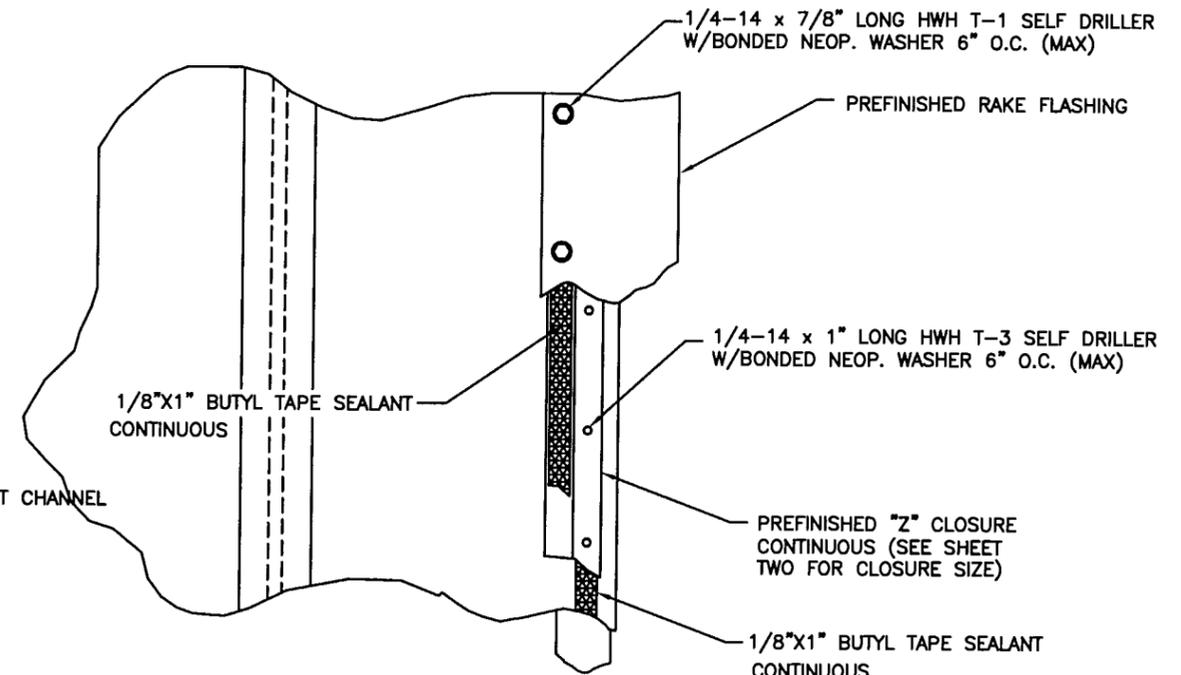
18.500

16 GA. GALV. CONTINUOUS ATTACHMENT CHANNEL W/T = 0.0575" (MIN)

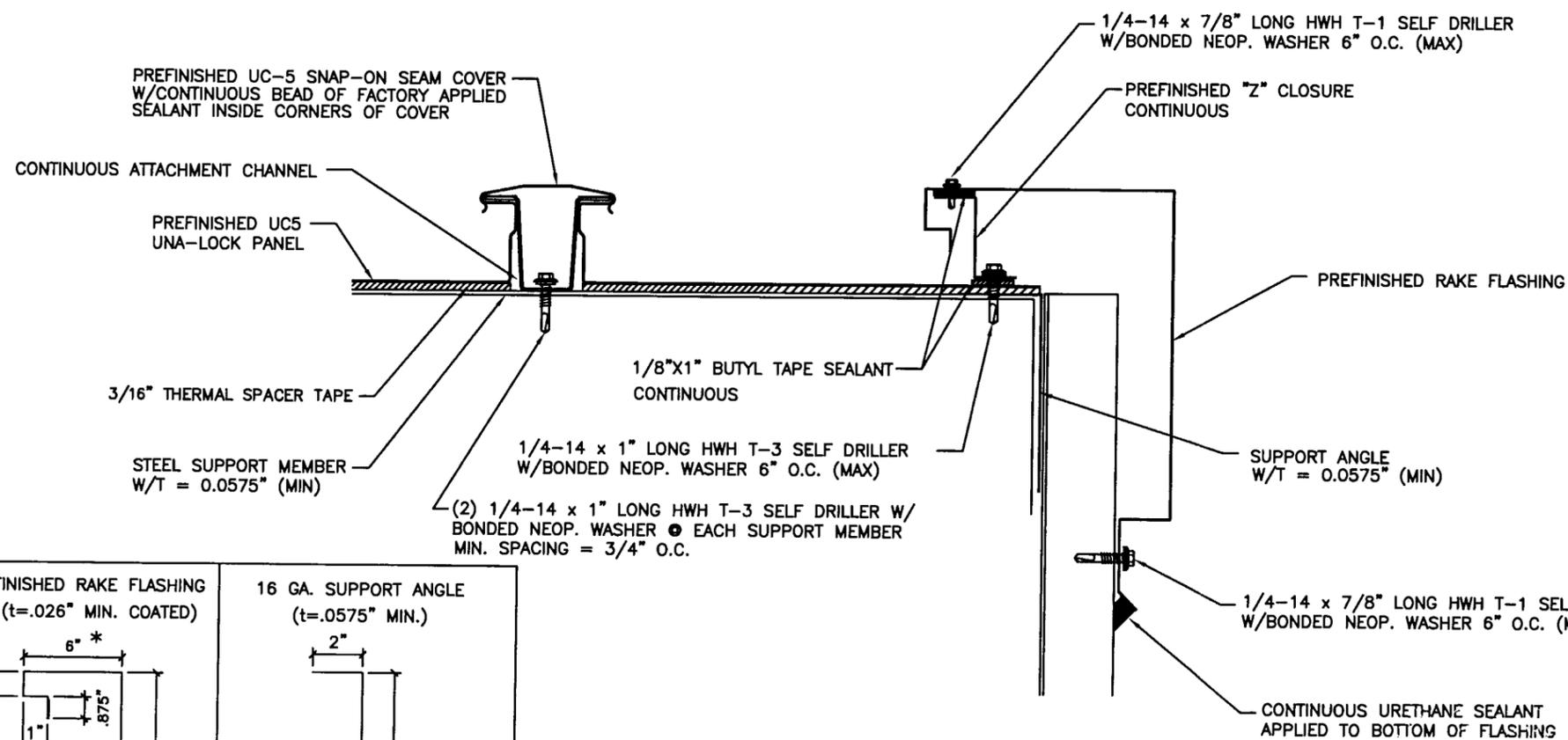
(2) 1/4-14 x 1" LONG HWH T-3 SELF DRILLER W/ BONDED NEOP. WASHER @ EACH SUPPORT MEMBER MIN. SPACING = 3/4" O.C.

UC-5 STANDING SEAM PANEL SUPPORT DETAILS

SECTION ①

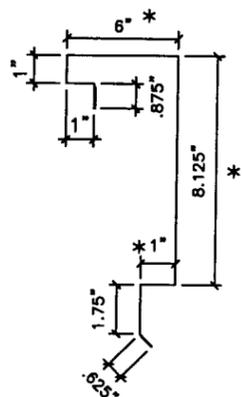


PLAIN VIEW AT RAKE

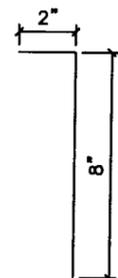


SECTION THRU RAKE SECTION ③

PREFINISHED RAKE FLASHING (t=.026" MIN. COATED)



16 GA. SUPPORT ANGLE (t=.0575" MIN.)

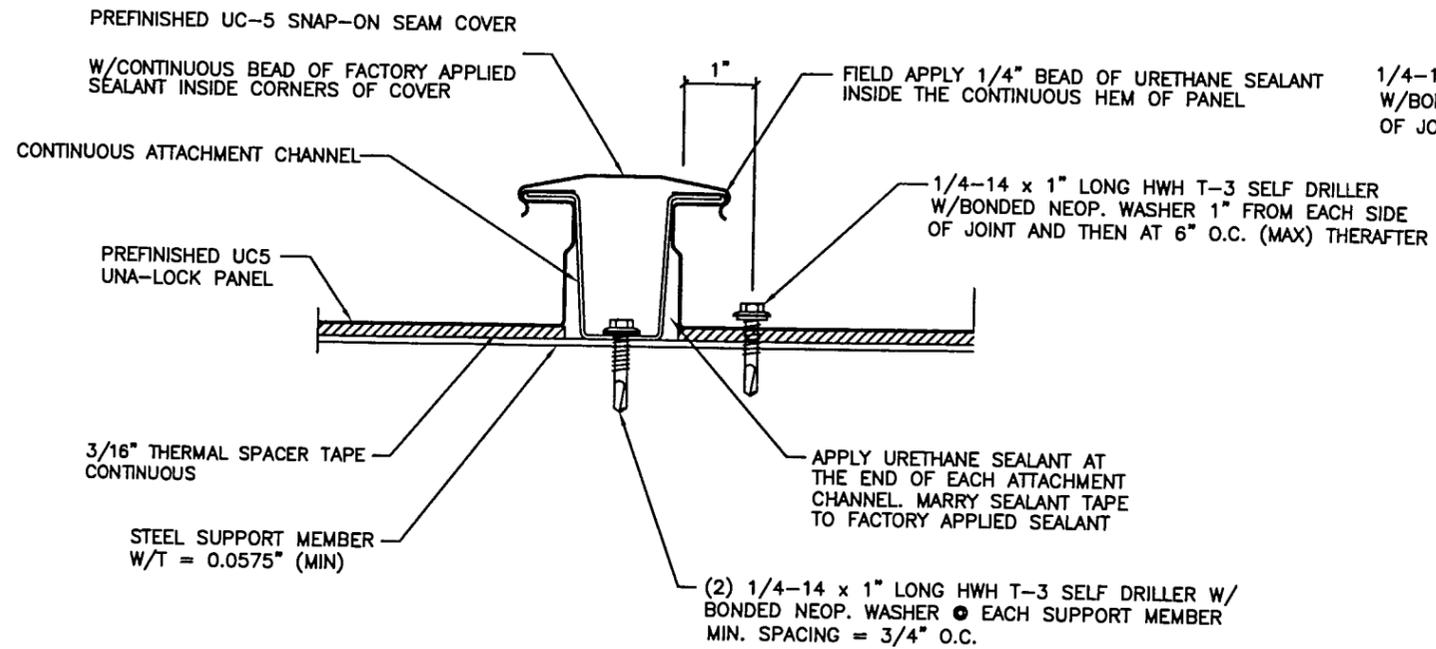


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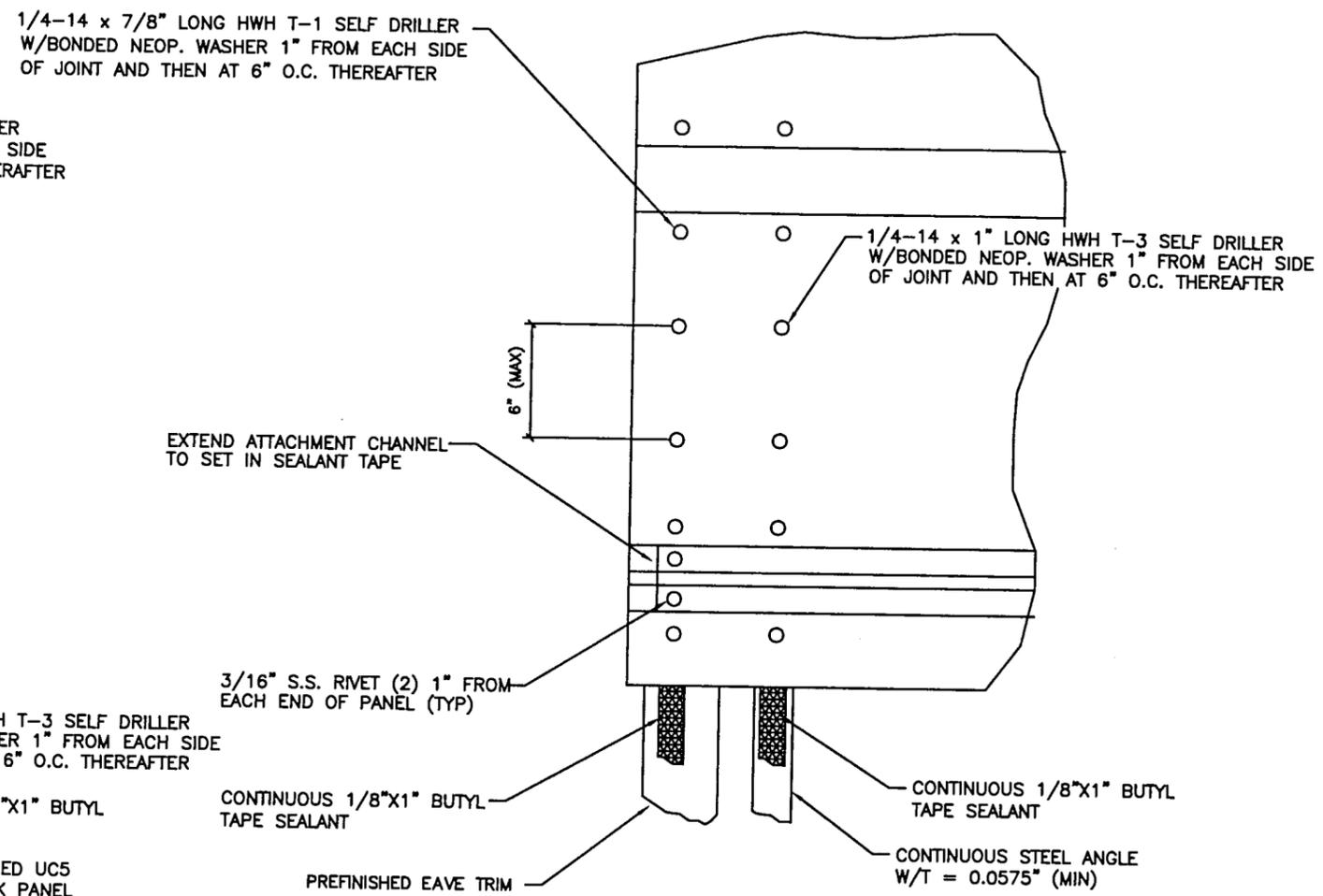
Terrence E. Wolfe
12-23-02

Approved as complying with the Florida Building Code
Date 01/16/2003
NOA# 01-0509-13
Miami Dade Product Control Division
By Helmut A. Weber

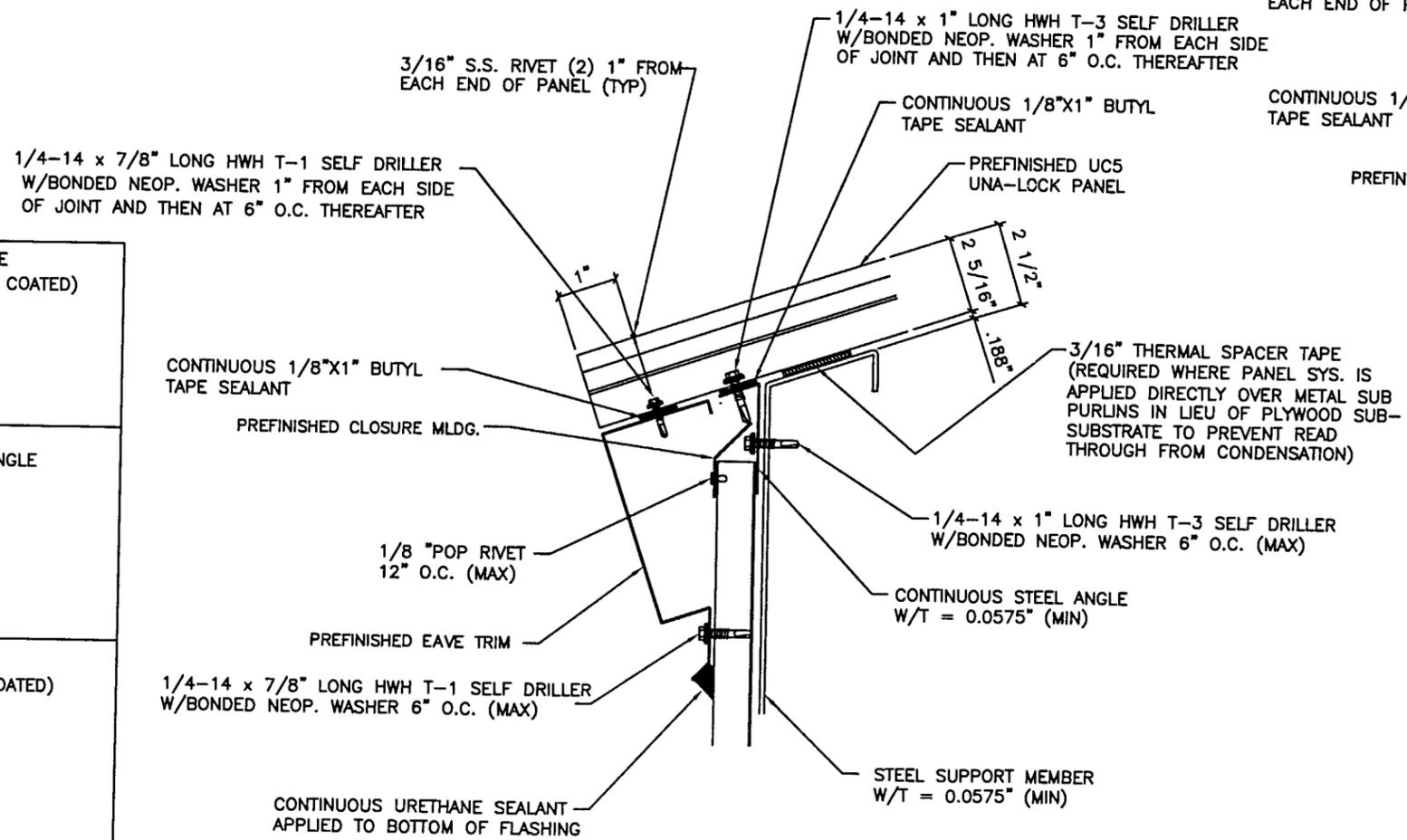
MANUFACTURING ENGINEER	TERRENCE E. WOLFE, P.E.	DISCIPLINE : CIVIL
TEXAS REGISTRATION NO.	44923	
COPPER SALES, INC. UC-5 STRUCTURAL STANDING SEAM SYSTEM		
PROJECT	DADE COUNTY PRODUCT APPROVAL	
SHEET TITLE	UC-5 DETAILS	
LOCATION	DADE COUNTY, FLORIDA	
REL. BY		DATE
CHECKED BY		10/24/02
PROJECT NUMBER	UC-5	SHEET NUMBER 4



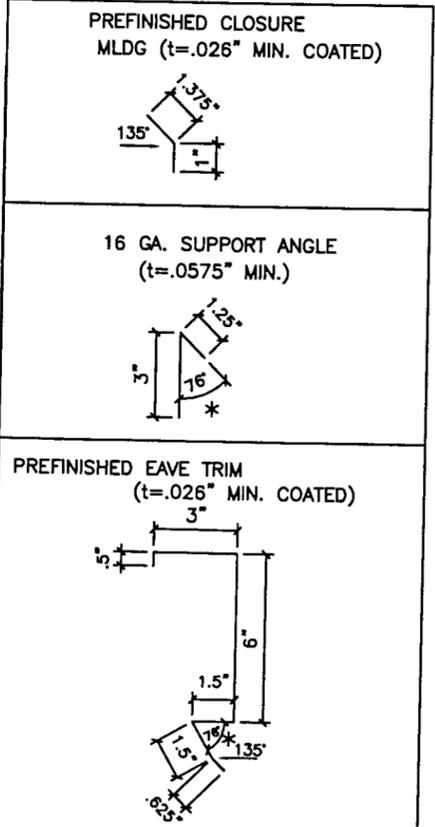
SEAL AT BOTTOM OF PANEL



PLAIN VIEW LOW EAVE



SECTION THRU LOW EAVE SECTION ②



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Terrence E. Wolfe
 12-23-02

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 Date 01/16/2003
 NOA# 01-0509.13
 Miami Dade Product Control Division
 By *Helmut A. Meier*

MANUFACTURING ENGINEER		TERRENCE E. WOLFE, P.E. DISCIPLINE : CIVIL	
TEXAS REGISTRATION NO.		44923	
COPPER SALES, INC. UC-5 STRUCTURAL STANDING SEAM SYSTEM			
COPPER SALES, INC. 		UNA-CLAD PRODUCTS	
COPPER SALES, INC. 1001 LUND BOULEVARD ANOKA, MINNESOTA 55303			
PROJECT	DADE COUNTY PRODUCT APPROVAL	REL. BY	DESCRIPTION
SHEET TITLE	UC-5 DETAILS	DATE	10/24/02
LOCATION	DADE COUNTY, FLORIDA	SCALE	NTS
		PROJECT NUMBER	UC-5
		DRAWING NUMBER	5