



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)

Metal Building Components, Inc. LP
14031 West Hardy
Houston, TX 77060

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: " DoubleLok " 0.024" (min.) Structural Standing Seam Steel Roof Panel

APPROVAL DOCUMENT: Drawing No. DL-001, titled " DoubleLok Panel ", sheets 1 through 10 of 10, dated July 25, 2006, prepared by Metal Building Components, Inc. LP, signed and sealed by Mark Detwiler, P.E. on January 05, 2009, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the 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.

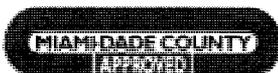
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

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 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
 02/25/2009

NOA No. 06-0920.02
Expiration Date: 02/25/2014
Approval Date: 02/25/2009
Page 1

Metal Building Components, Inc. LP

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. DL-001, titled " DoubleLok Panel ", sheets 1 through 10 of 10, dated July 25, 2006, prepared by Metal Building Components, Inc. LP, signed and sealed by Mark Detwiler, P.E. on January 05, 2009.*

B. TESTS

1. *Test report on Uplift Resistance per ASTM E 1592-01 on DoubleLok 12" wide 24 ga. Roof Panel, prepared by Force Engineering & Testing, Inc., Report No. 07-0129T-06L, dated July 12, 2006, signed and sealed by Terrence E. Wolfe, P.E.*
2. *Test report on Uplift Resistance per ASTM E 1592-01 on DoubleLok 12" wide 24 ga. Roof Panel, prepared by Force Engineering & Testing, Inc., Report No. 07-0129T-061-K, dated July 12, 2006, signed and sealed by Terrence E. Wolfe, P.E.*
3. *Test report on Uplift Resistance per ASTM E 1592-01 on DoubleLok 18" wide 24 ga. Roof Panel, prepared by Force Engineering & Testing, Inc., Report No. 07-0129T-06E-G, dated July 12, 2006, signed and sealed by Terrence E. Wolfe, P.E.*
4. *Test report on Uplift Resistance per ASTM E 1592-01 on DoubleLok 24" wide 24 ga. Roof Panel, prepared by Force Engineering & Testing, Inc., Report No. 07-0129T-06A-C, dated July 12, 2006, signed and sealed by Terrence E. Wolfe, P.E.*
5. *Test report on Uplift Resistance per ASTM E 1592-01 on DoubleLok 24" wide 24 ga. Roof Panel, prepared by Force Engineering & Testing, Inc., Report No. 07-0129T-06D, dated July 12, 2006, signed and sealed by Terrence E. Wolfe, P.E.*
6. *Test report on: 2000 hours Accelerated Weathering per ASTM G23, prepared by The Valspar Corporation, dated 08/12/98, signed by Clark Higginbotham.*
7. *Susceptibility to leakage test in accordance with Miami-Dade County Protocol PA 114 Appendix G, prepared by Farabaugh Engineering and Testing, Inc., Report No. T170-06, dated 06/07/2006, signed and sealed by Daniel G. Farabaugh, P.E.*
8. *Test report on Large Missile Impact Test, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. T169-06, dated 06/07/2006, signed and sealed by Daniel G. Farabaugh, P.E.*

C. CALCULATIONS

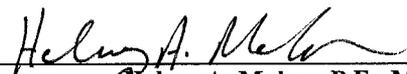
1. *Calculations titled "DoubleLok 12", 18", 24" 24 ga., 6 pages, prepared by Mark Detwiler, P.E. on January 05, 2009, signed and sealed by Mark Detwiler, P.E. on January 05, 2009.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Tensile Test on each specimen tested, prepared by Bodycote Materials Testing, Inc.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 06-0920.02
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Approval Date: 02/25/2009

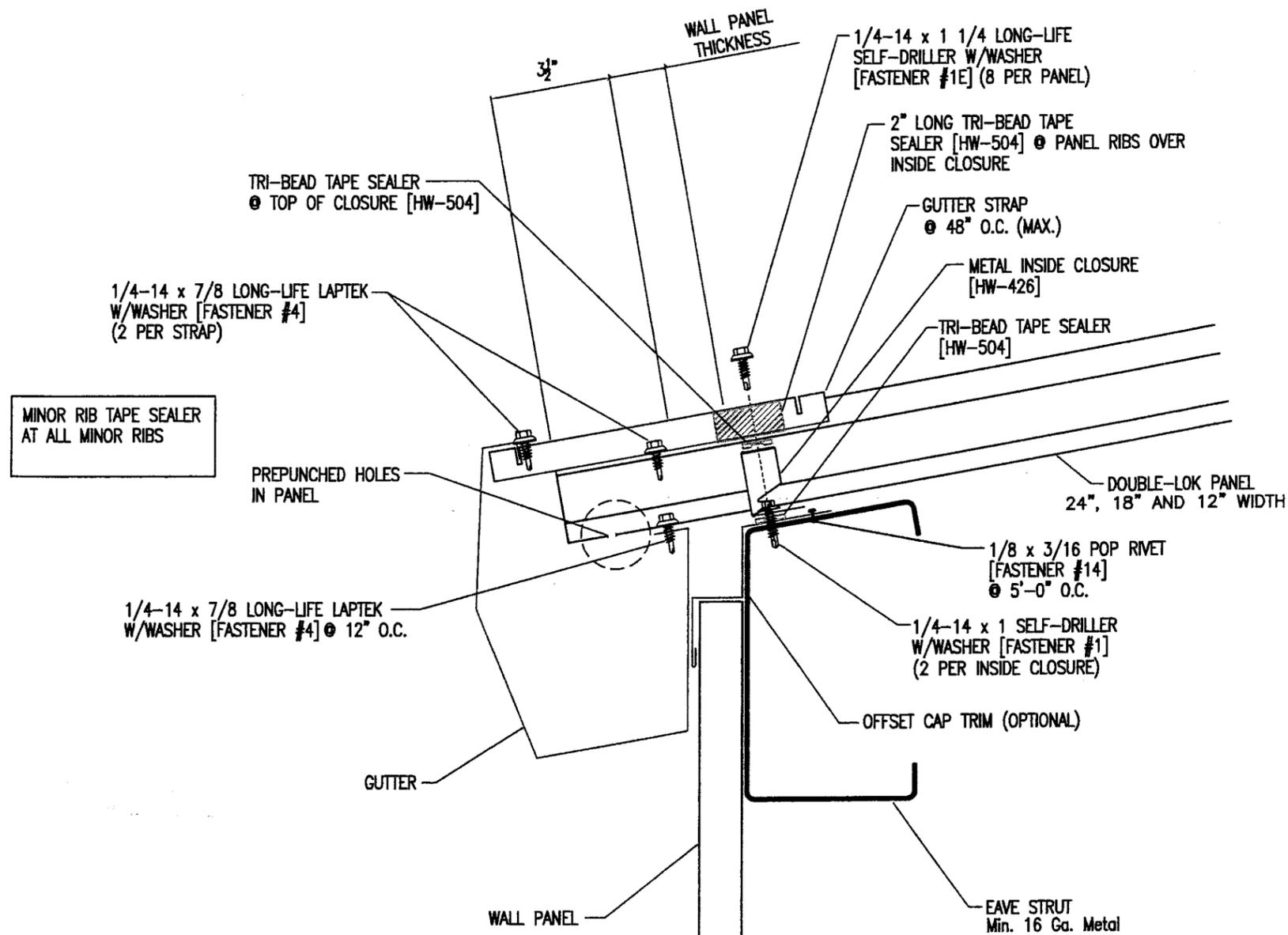
INSTALLATION NOTE:

1. APPLY TRI-BEAD TAPE SEALER CONTINUOUS OVER SUBSTRATE.
2. ATTACH INSIDE METAL CLOSURE W/
1/4"-14 X 1" SDS W/WASHER [FASTENER #1]
3. APPLY A 10" LONG PIECE OF TRI-BEAD TAPE SEALER
UP AND OVER THE INSIDE METAL CLOSURE
4. APPLY A 2" LONG PIECE OF TRI-BEAD TAPE
SEALER IN VERTICAL LEG OF PANEL SEAM
5. IF THE PANELS HAVE MINOR RIBS, APPLY
MINOR RIB TAPE SEAL BETWEEN PANEL AND
EAVE TRIM OR GUTTER
6. ATTACH PANEL W/#1/4-14 X 1 1/4" LONG
LIFE W/WASHER IN THE FLAT PANEL AND ONE
EACH SIDE OF THE INSIDE METAL CLOSURE
(8) TOTAL [FASTENER #1E]



14031 WEST HARDY
HOUSTON, TEXAS 77060
281/445-8555

REL. BY:	DATE:	DESCRIPTION:	SCALE:	CHECK:
	7/25/06	TS		JALLEN



Approved as complying with the
Florida Building Code
Date 02/25/2009
NOA# 06-0920-02
Miami Dade Product Control
Division
By Heley A. Hester

Document # DL-001
Dade County Approvals
DoubleLok Panel

[Signature]
JAN 05 2009

Fixed Eave Detail

DRAWING NUMBER:

INSTALLATION NOTE:

1. APPLY TRI-BEAD TAPE SEALER CONTINUOUS OVER SUBSTRATE.
2. ATTACH INSIDE METAL CLOSURE W/
1/4"-14 X 1" SDS W/WASHER [FASTENER #1]
3. APPLY A 10" LONG PIECE OF TRI-BEAD TAPE SEALER
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DATE:	JALLEN

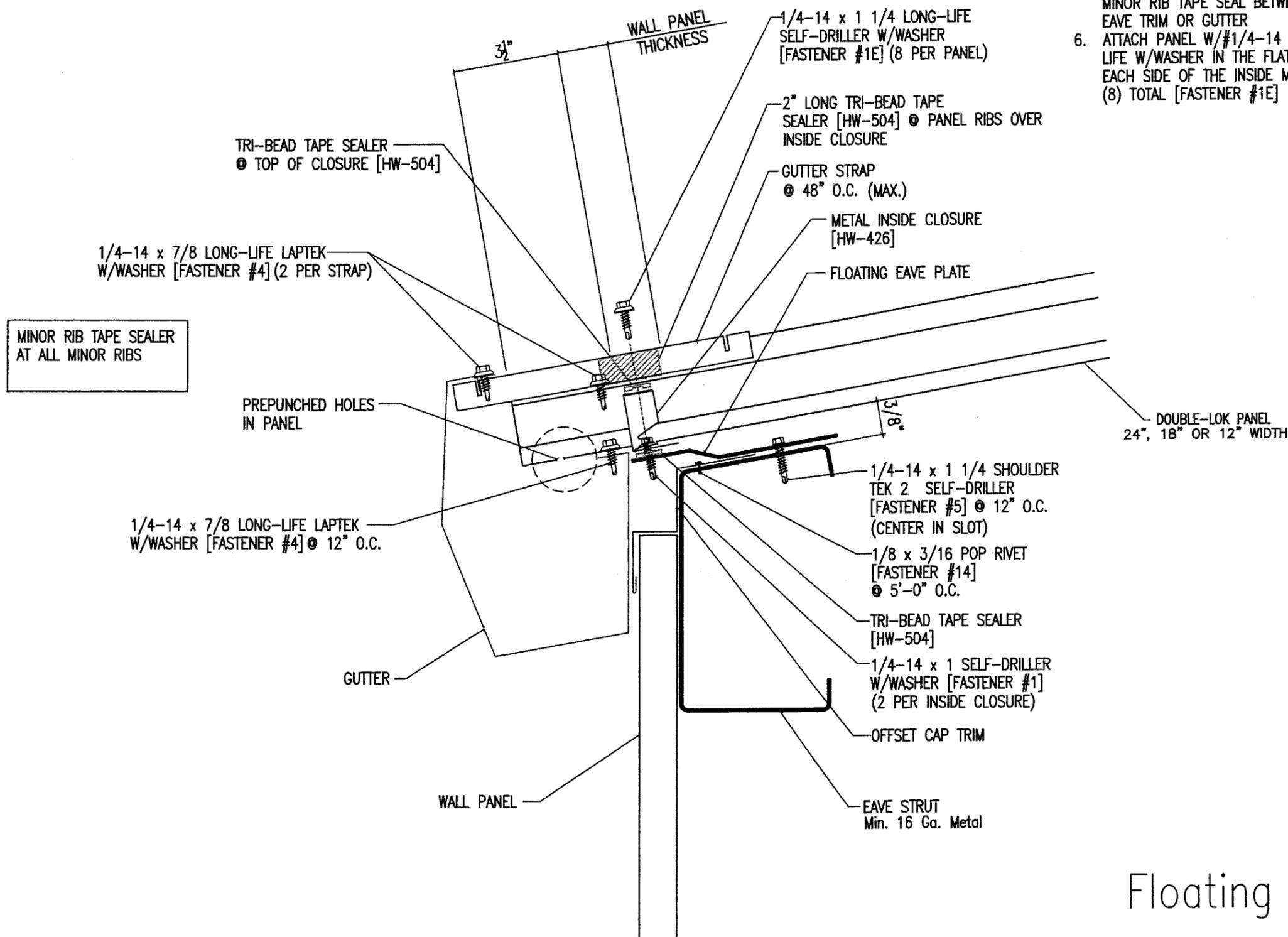
Document # DL-001
Dade County Approvals
DoubleLok Panel

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Date 02/25/2009
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Miami Dade Product Control
Division
By Helmy A. Albin

[Handwritten Signature]
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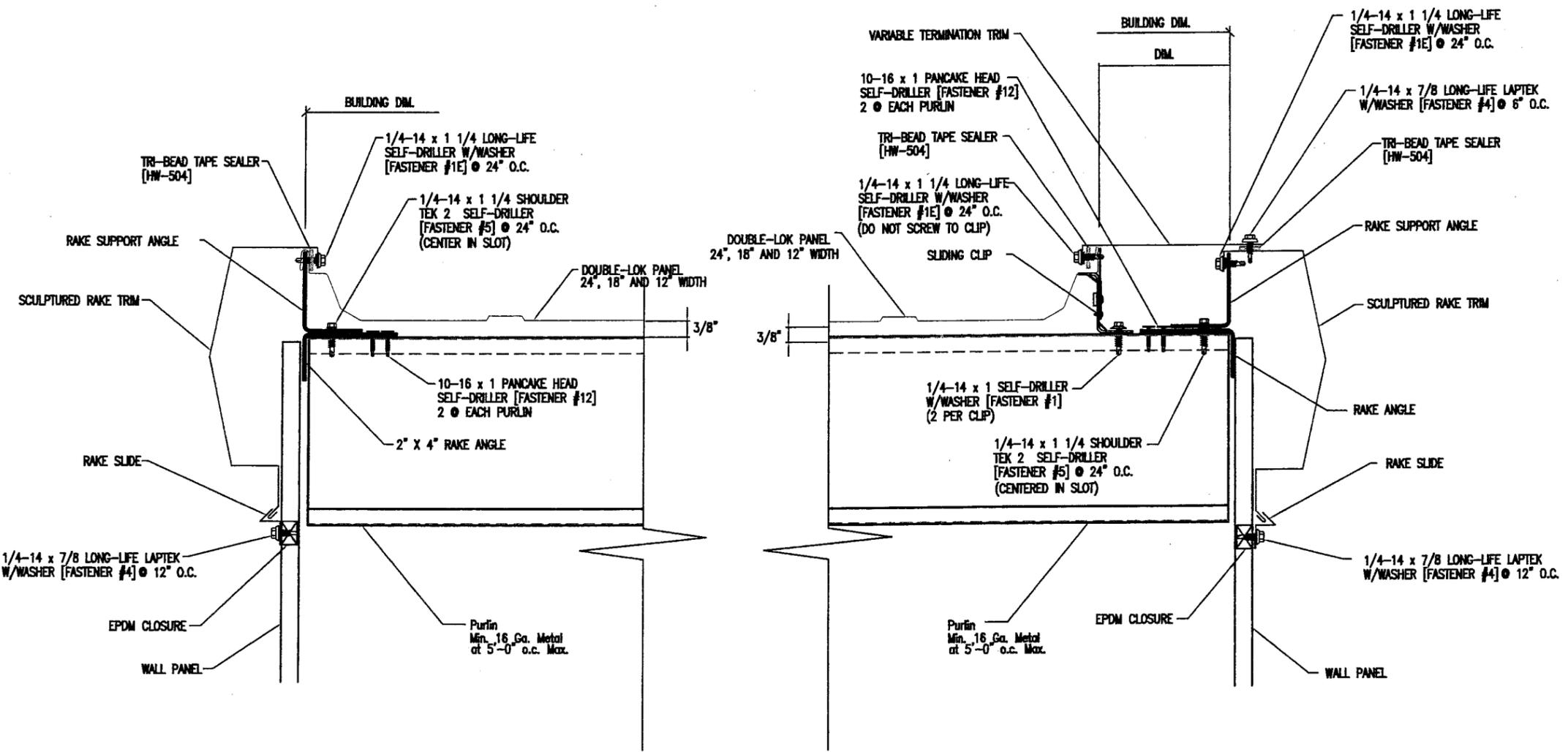


Floating Eave Detail



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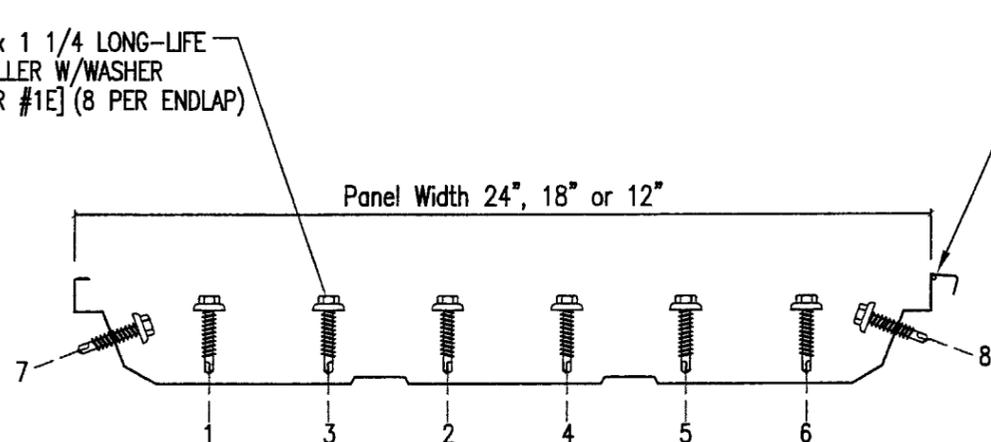
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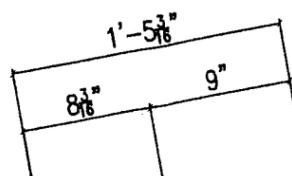
1/4-14 x 1 1/4 LONG-LIFE
SELF-DRILLER W/WASHER
[FASTENER #1E] (8 PER ENDLAP)



FASTENER SEQUENCE @ ENDLAP

Factory Applied Holt Melt Mastic

Panel Width 24", 18" or 12"



1/4-14 x 1 1/4 LONG-LIFE
SELF-DRILLER W/WASHER
[FASTENER #1E] (8 PER ENDLAP)

DOUBLE-LOK PANEL
(PREPUNCHED)
24", 18" OR 12" WIDTH

TRIPLE BEAD TAPE SEALER CONT.
ACROSS PANEL [HW-502]

DOUBLE-LOK PANEL
(PREPUNCHED)

METAL INSIDE CLOSURE
[HW-426]

MID-SLOPE FIXED PLATE

1/4-14 x 1 SELF-DRILLER
W/WASHER [FASTENER #1]
(2) PER INSIDE CLOSURE

Purlin
Min. 16 Ga. Metal
at 5'-0" o.c. Max.

1/4-14 x 1 SELF-DRILLER
W/WASHER [FASTENER #1]
@ 6" O.C.

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Division
By Helmy A. Miller

Fixed Endlap Detail



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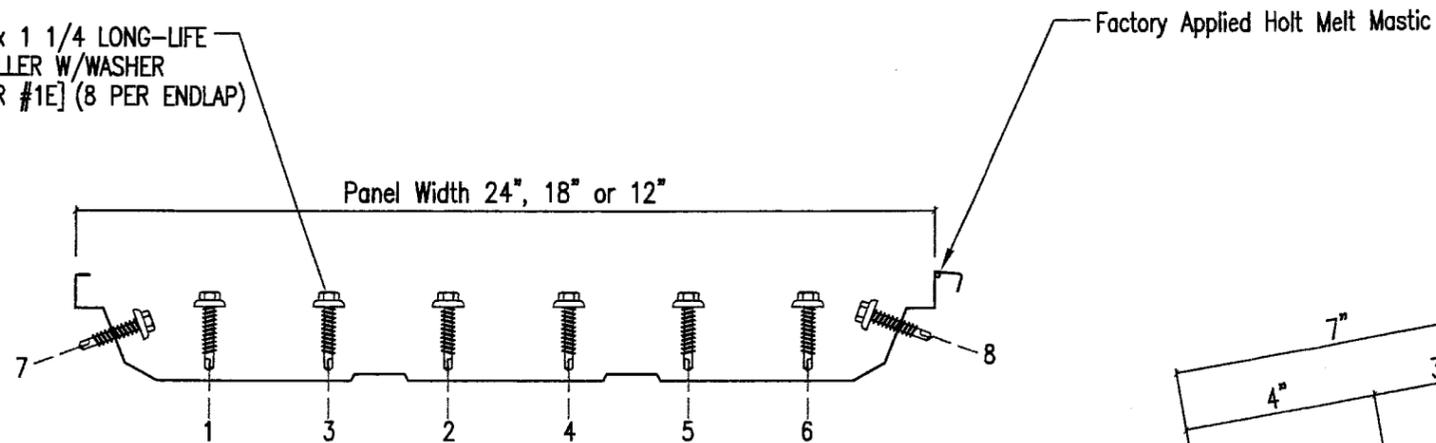
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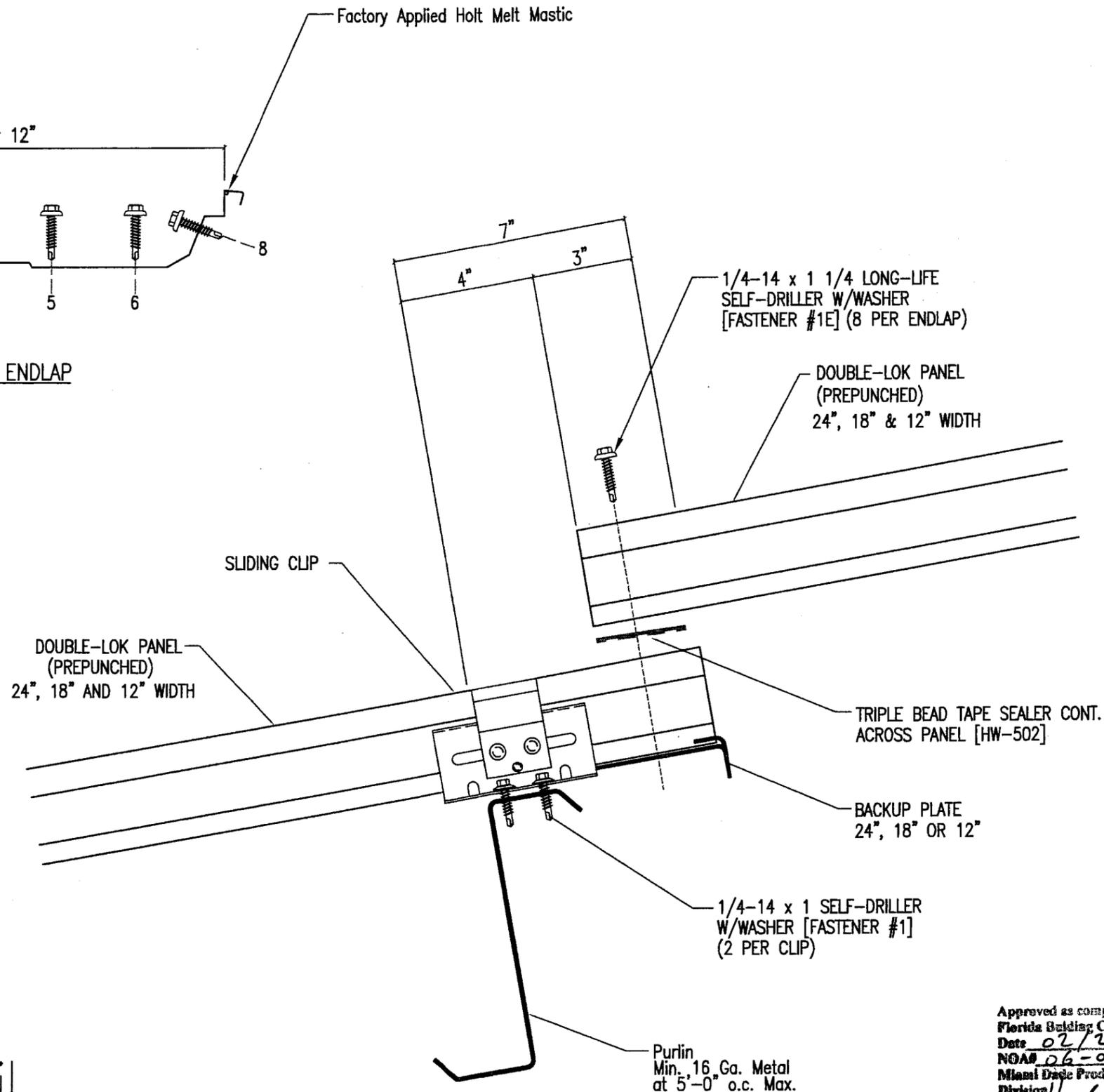
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1/4-14 x 1 1/4 LONG-LIFE
SELF-DRILLER W/WASHER
[FASTENER #1E] (8 PER ENDLAP)



FASTENER SEQUENCE @ ENDLAP



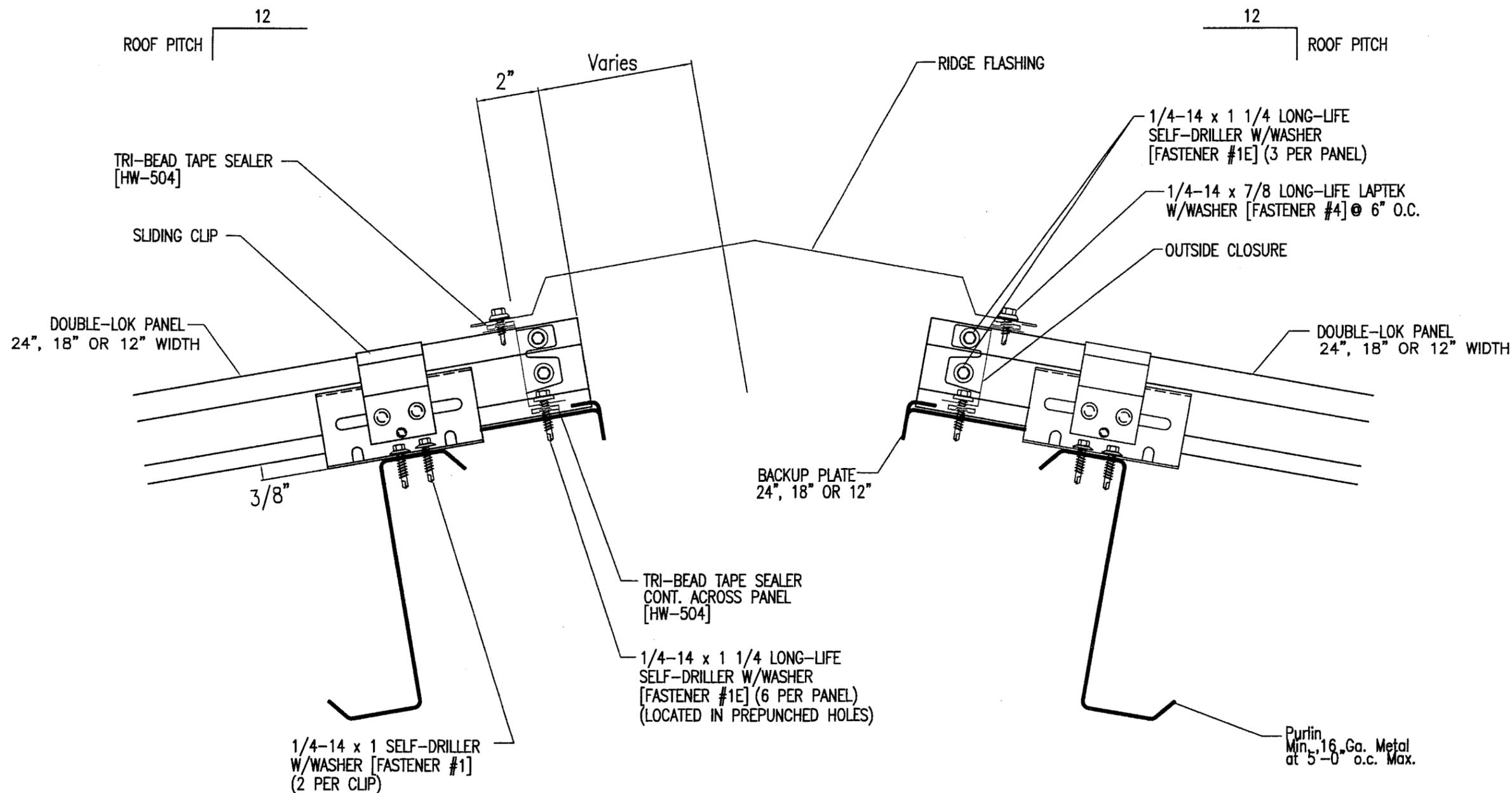
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Floating Endlap Detail



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DATE: 7/25/06	SCALE: JALLEN
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DATE:	DATE:



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DoubleLok Panel

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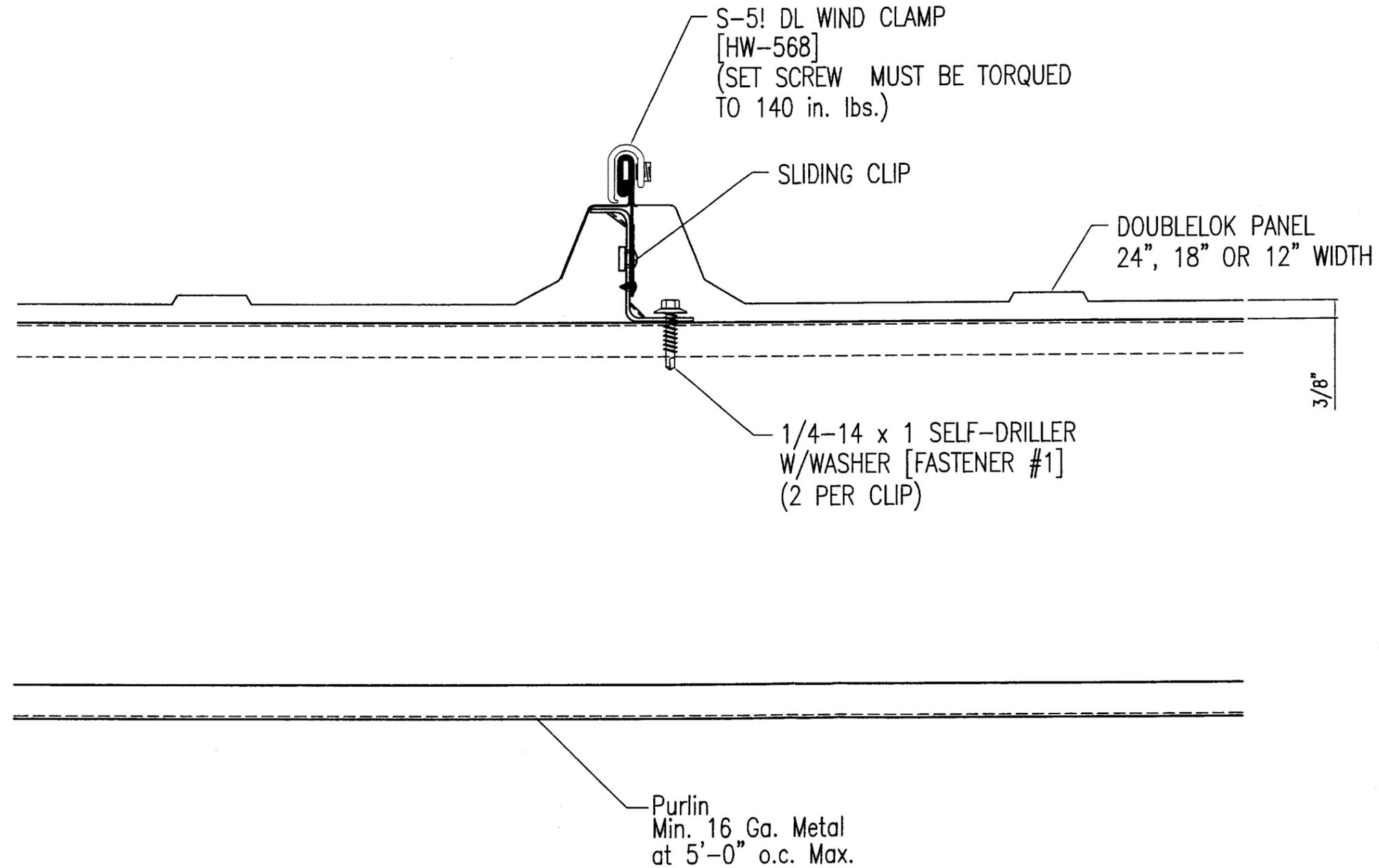
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INSTALLATION NOTE:

ATTACH S5! DL WINDCLAMP AT EVERY SLIDINGCLIP LOCATION



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Miami Dade Product Control
Division
By *[Signature]*

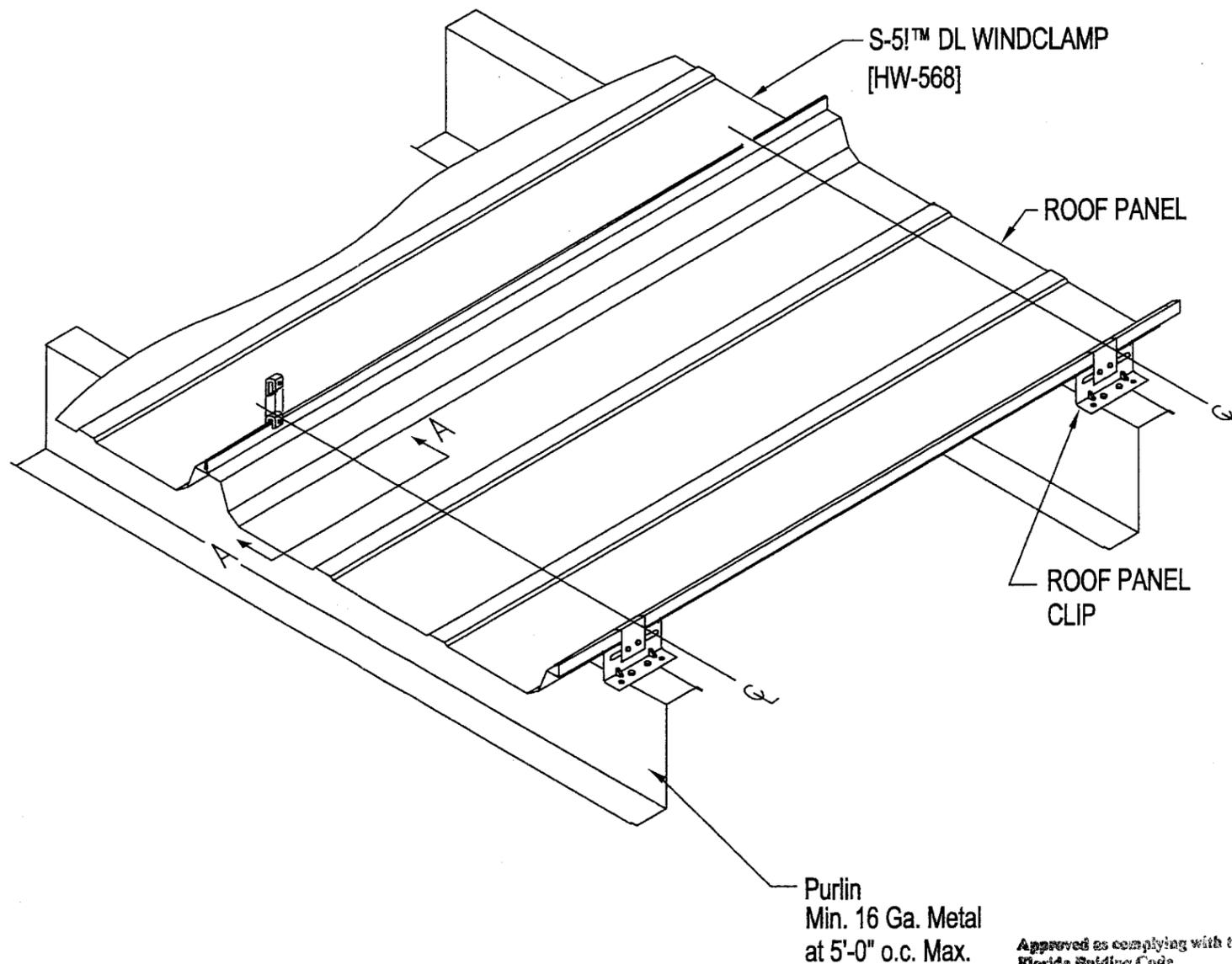
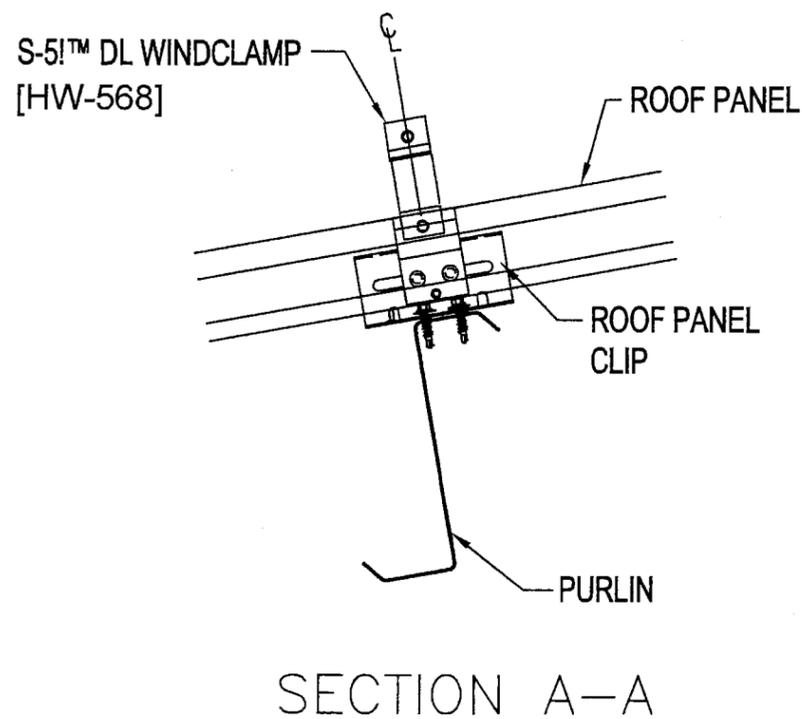
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14031 WEST HARDY
HOUSTON, TEXAS 77060
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S-5! DL WINDCLAMP Installation Location Double-Lok®

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	7/25/06		TS	JALLEN



Notes:

- Only for use with HW-2122, 2124 clips.
- Torque set screw to 140 in-lbs.

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DoubleLok Panel

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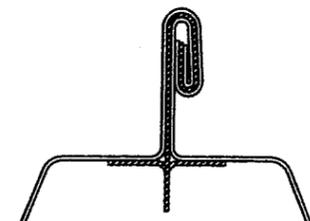
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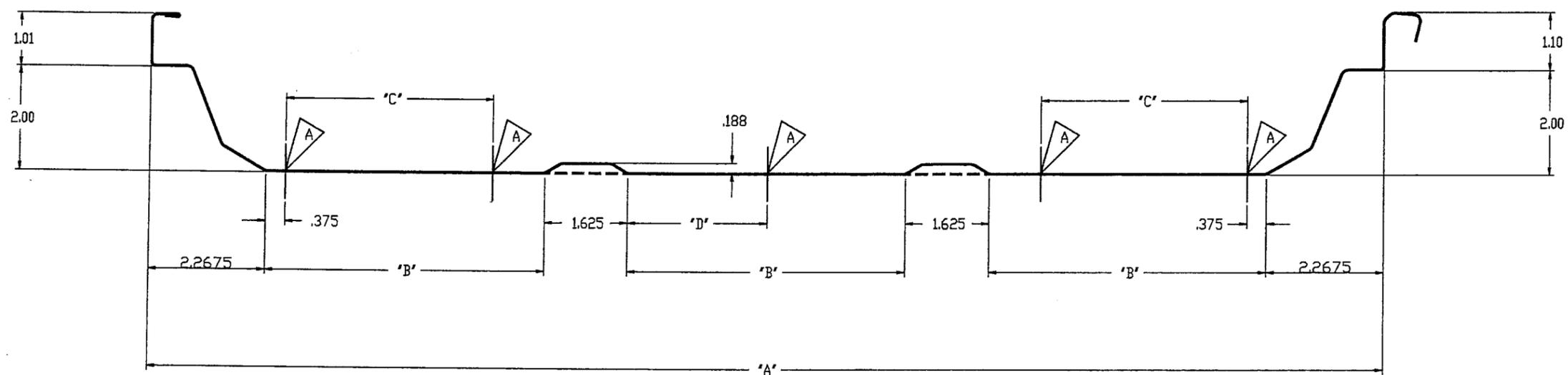


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COVERAGE	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	RIBS
24'	23.94	_____	_____	_____	NO
18'	17.94	_____	_____	_____	NO
12'	11.94	_____	_____	_____	NO
24'	23.94	5.386	4.000	2.693	YES
18'	17.94	3.386	2.187	1.693	YES



SEAM DETAIL
(FULL SCALE)

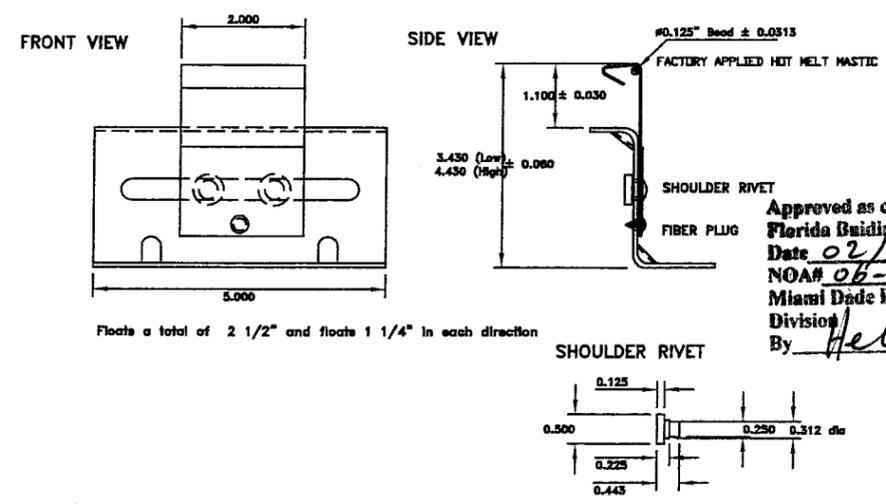


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DoubleLok Panel

Low Double-Lok Sliding Clip HW-2122
High Double-Lok Sliding Clip HW-2124

NOTES:
A 1. FLAG 'A' SHOWS CENTERLINE OF 5/16 DIA. HOLES (PUNCHED IN RIBBED PANELS ONLY) WHICH ARE LOCATED 1.50 INCHES IN FROM BOTH ENDS OF THE PANEL (5 HOLES EACH END).



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JAN 05 2009

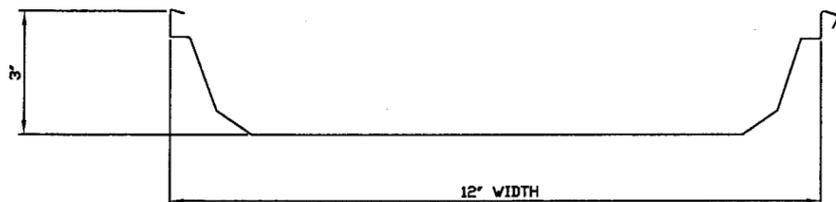
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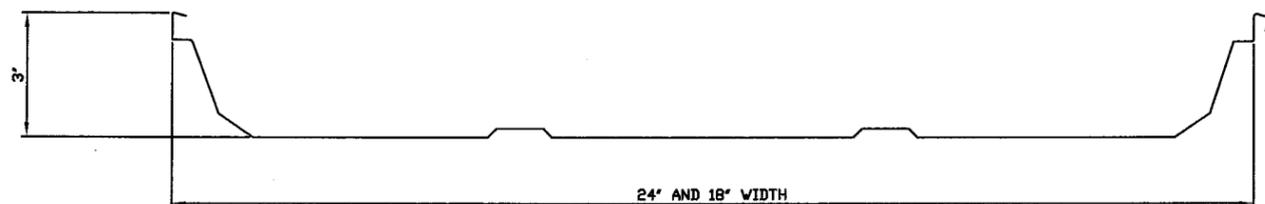
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14031 WEST HARDY
HOUSTON, TEXAS 77060
281/445-8555



DOUBLE-LOK PANEL PROFILE



DOUBLE-LOK PANEL PROFILE

NOTES:

1. THE 24 GAUGE DOUBLELOK 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.

2A. THE MAXIMUM PANEL SPAN AND THE MAXIMUM ALLOWABLE DESIGN UP-LIFT (NEGATIVE) PRESSURE OF THIS ROOF PANEL SHALL BE BASED ON THE FOLLOWING ALLOWABLES:

DOUBLELOK 12"-24 GA. PANELS

MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORTS = 200.00 FT-LBS/FT
 MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 160.00 FT-LBS/FT
 MAXIMUM PANEL REACTION AT SUPPORTS = 440.00 LBS
 MAXIMUM ALLOWABLE DEFLECTION OF PANEL = L/240
 PANEL'S EI VALUE = 2,695,835.52 LB-IN²
 THIS ROOF PANEL IS APPROVED FOR A MAXIMUM SPAN OF 5'-0".

2B. THE MAXIMUM PANEL SPAN AND THE MAXIMUM ALLOWABLE DESIGN UP-LIFT (NEGATIVE) PRESSURE OF THIS ROOF PANEL SHALL BE BASED ON THE FOLLOWING ALLOWABLES:

DOUBLELOK 18"-24 GA. PANELS

MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORTS = 71.20 FT-LBS/FT
 MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 56.96 FT-LBS/FT
 MAXIMUM PANEL REACTION AT SUPPORTS = 156.64 LBS
 MAXIMUM ALLOWABLE DEFLECTION OF PANEL = L/240
 PANEL'S EI VALUE = 848,931.84 LB-IN²
 THIS ROOF PANEL IS APPROVED FOR A MAXIMUM SPAN OF 5'-0".

2C. THE MAXIMUM PANEL SPAN AND THE MAXIMUM ALLOWABLE DESIGN UP-LIFT (NEGATIVE) PRESSURE OF THIS ROOF PANEL SHALL BE BASED ON THE FOLLOWING ALLOWABLES:

DOUBLELOK 24"-24 GA. PANELS

MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL AT SUPPORTS = 53.33 FT-LBS/FT
 MAXIMUM ALLOWABLE BENDING MOMENT OF PANEL BETWEEN SUPPORTS = 42.66 FT-LBS/FT
 MAXIMUM PANEL REACTION AT SUPPORTS = 117.32 LBS
 MAXIMUM ALLOWABLE DEFLECTION OF PANEL = L/240
 PANEL'S EI VALUE = 635,8004.64 LB-IN²
 THIS ROOF PANEL IS APPROVED FOR A MAXIMUM SPAN OF 5'-0".

3. ALL PANEL SUBMEMBERS SHALL BE STEEL WITH 16 GA. MINIMUM THICKNESS.

DATE:	TS
DESCRIPTION:	TS
DATE: 7/25/06	SCALE:
DRAWN: JALLEN	CHECK:

Document # DL-001
 Dade County Approvals
 DoubleLok Panel

1-23-09

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 NOA# 06-0920-02
 Miami Dade Product Control
 Division
 By *Helmut A. Mohr*

DRAWING NUMBER:
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PANEL PROPERTIES

PANEL GAUGE	PANEL THICKNESS	YIELD STRENGTH	TENSILE STRENGTH	ELONGATION	HARDNESS	STEEL COATING	PAINT COATINGS
24	.024 MIN.	50 KSI	55-70 KSI	20-36%	50-65 HRB	AZ 55	SIG 300 KYNAR

PANEL ACCESSORIES

CONSTRUCTION FASTENERS INC.
 SPRING STREET AND VAN REED ROAD
 P.O. BOX 6326, WYOMISSING PA 19610

GULF-SEAL SPECIALTIES, INC.
 P.O. BOX 508
 SOUTH HOUSTON, TX 77587

- #14 X 7/8" LAP TEK W/BOND SEAL WASHER LONG LIFE - FASTENER #4
- 1/4-14 X 1 1/4 SDS W/ WASHER LONG LIFE - FASTENER #5
- 1/4-14 X 1 SDS W/ WASHER - FASTENER #1
- 1/4-14 X 1 1/4 SHOULDER TEK SDS - FASTENER #5
- #10-16 PANCAKE HEAD SDS - FASTENER #12
- 1/4-14 X 1 ZAC STS W/ WASHER - FASTENER #18

METAL INSIDE CLOSURE - HW#29

SSI II WINDCLAMP - HW 568

- TRI-BEAD
TAPE SEALER MB-10A (POLYISOBUTYLENE-ISOPRENE)
- TRIPLE BEAD
TAPE SEALER MB-10A (POLYISOBUTYLENE-ISOPRENE)

SCHNEE-MOREHEAD, INC.
 111 NORTH NURSERY ROAD
 IRVING, TX 75060

PERMATHANE URETHANE CAULK