



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105-2197

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: "R-MER Span" 22 Ga. (0.03" min.) Structural Steel Roof Panel (12" to 16" wide)

APPROVAL DOCUMENT: Drawing No. 1319, titled "R-MER Span, 22 Gage Structural Steel Roof Panel", sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on August 23, 2004, 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 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 **renews** NOA # 04-0723.07 and consists of this page 1, evidence submitted pages E-1 and E-2 and approval document mentioned above.

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



Helmy A. Makar
02/04/2009

NOA No. 08-1224.13
Expiration Date: 04/22/2014
Approval Date: 02/04/2009
Page 1

The Garland Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 04-0723.07

A. DRAWINGS

1. *Drawing No. 1319, titled "R-MER Span, 22 Gage Structural Steel Roof Panel", sheets 1 through 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on August 23, 2004*

B. TESTS

1. *Test report on wind and wind driven rain resistance test per TAS 100-95 on Innovative Metals Series 300 Roof Panel by PRI Asphalt Technologies, Report No. IMC-002-02-01, dated June 20, 2003, signed and sealed by Charles L. Thomas, P.E.*
2. *Test report on Uniform Static Air Pressure Test per ASTM 1592-95 on Innovative Metals Series 300 Roof Panel, prepared by Hurricane Test Laboratory, Inc., Report No. 0331-0501-03, dated June 18, 2003, signed and sealed by Vinu J. Abreham, P.E.*
3. *Test report on Accelerated Weathering Testing of Coating 2000 hours per ASTM G23-81, prepared by The Valspar Corporatio.*
4. *Test report on Salt Spray Testing of Coating 1000 hours per ASTM B117-95, prepared by The Valspar Corporatio.*
5. *Susceptibility to leakage test in accordance with Protocol TAS 114 Appendix G, prepared by PRI Asphalt Technologies, Report No. IMC-003-02-01, dated June 20, 2003, signed and sealed by Charles L. Thomas, P.E.*

C. CALCULATIONS

1. *Calculations titled "Innovative Metals Series 300 Roof Panel Calculations", 10 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on August 04, 2003.*
2. *Calculations titled "Innovative Metals Series 300 Roof Panel Calculations", 6 pages, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E. on March 24, 2004*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Tensile test, report # 3FM-545, dated June 24, 2003, by QC Metallurgical, Inc., signed and sealed by Frank E. Grate, Jr., P.E.*

F. OTHERS

1. *This approval is based on a Private Labeling Agreement with Innovative Metals Corporation holder of NOA #03-0811.01.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-1224.13
Expiration Date: 04/22/2014
Approval Date: 02/04/2009

The Garland Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

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 CERTIFICATIONS

1. *None.*



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

Product Control Examiner

NOA No. 08-1224.13

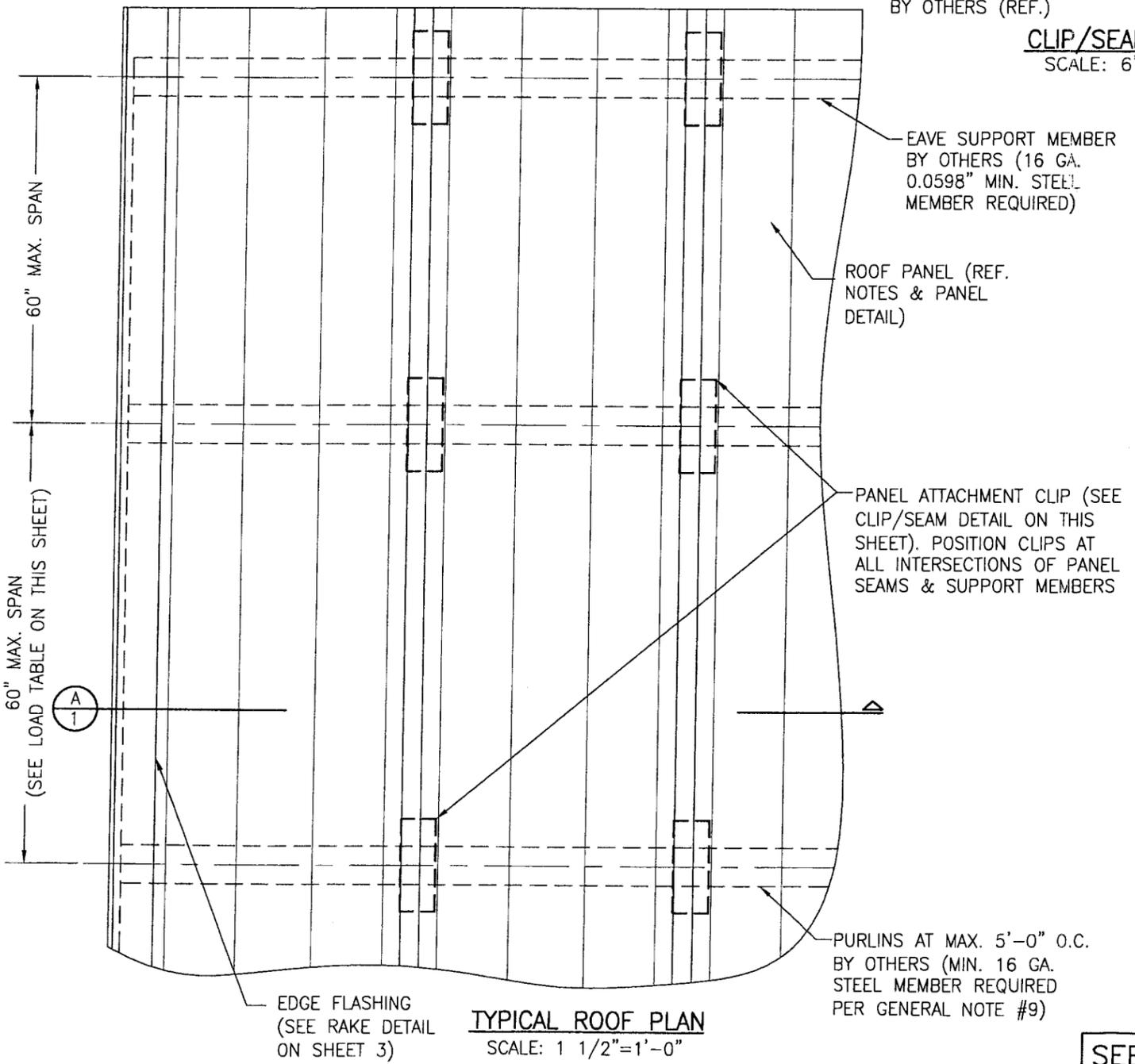
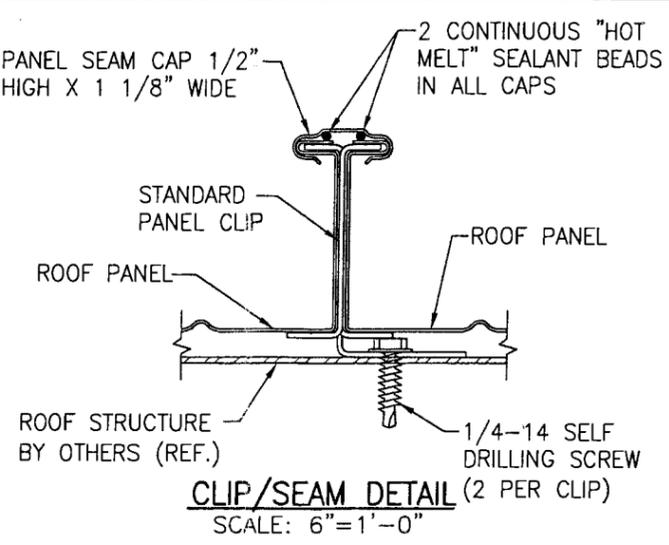
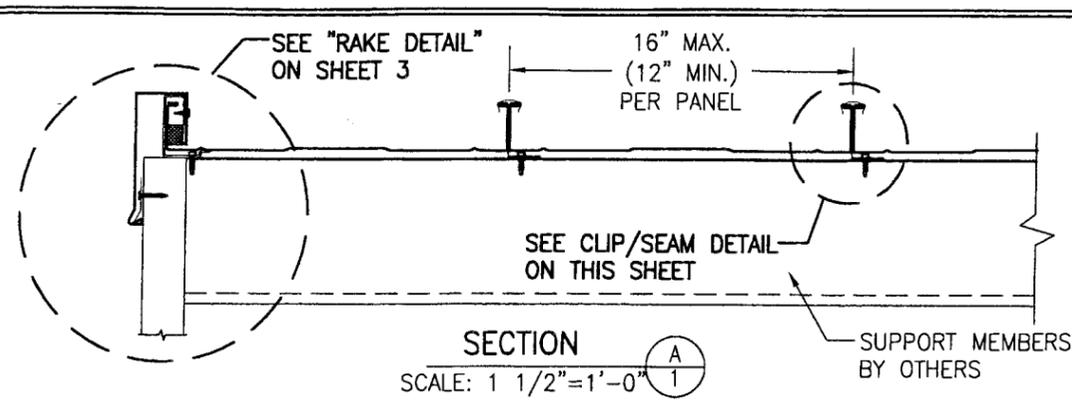
Expiration Date: 04/22/2014

Approval Date: 02/04/2009

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
DATE: 07/20/04	
NO.	REVISION DESCRIPTION

GENERAL NOTES:

- THIS STRUCTURAL ROOF PANEL SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (F.B.C.).
- ROOF PANELS ARE FABRICATED FROM A MAX. 21 13/16" WIDE COIL & SHALL BE 22 GA. (t = 0.03") ASTM 792 GRADE D STEEL WITH A KYNAR 500 COATING APPLIED. EFFECTIVE COVERING WIDTH OF PANEL = MAX. 16".
- THE ROOF PANELS SHALL BE INSTALLED OVER ROOF STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
- PANEL END OVERLAPS MAY OCCUR WITHIN 6" OF CENTERLINE OF SUPPORTING PURLIN PROVIDING THE END LAPS ARE CONSTRUCTED, SUPPORTED & SEALED PER THE END LAP DETAIL ON SHEET 3.
- REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON THIS DRAWING.
- THIS ROOFING PANEL SYSTEM HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE:
 - * ACCELERATED TESTING OF COATING PER ASTM G23
 - * SALT SPRAY TESTING PER ASTM B117
 - * UPLIFT RESISTANCE TEST PER TAS-125 & ASTM E1592
 - * WIND DRIVEN RAIN & STANDING WATER TESTS PER TAS-100 & TAS-114
 - * TENSILE TESTS PER ASTM E8
- ROOF PANEL MANUFACTURER'S PERMANENT LABEL SHALL BE PLACED AT THE END OF EACH PANEL RUN AND SHALL READ: THE GARLAND COMPANY, INC. CLEVELAND, OHIO MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL SCREWS SHALL BE CORROSION RESISTANT SELF DRILLING SCREWS.
- THE SUPPORTING STRUCTURE, OVER WHICH THE PANELS ARE TO BE INSTALLED, MUST BE MINIMUM 16 GAGE (MIN. 0.0598") STEEL WITH MIN. Fy = 50 KSI.
- THESE ROOF PANELS SHALL NOT BE CONSIDERED TO OR BE USED FOR TRANSFER OF DIAPHRAM ACTION OF ROOF TO SUPPORTING STRUCTURE.
- ROOF PANEL CAP IS FABRICATED FROM A 2" WIDE COIL OF 22 GAGE (t = 0.03") ASTM 792 GRADE D STEEL & HAS A KYNAR 500 COATING.



PANEL SUPPORT CONDITION	MAXIMUM ALLOWABLE UPLIFT PRESSURE (PSF)							
	L=18"	L=24"	L=30"	L=36"	L=42"	L=48"	L=54"	L=60"
$\Delta \quad L \quad \Delta$	200.0	200.0	153.7	106.7	78.4	60.0	43.7	31.9
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	176.0	132.0	105.6	88.0	75.4	66.0	58.7	48.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	200.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	192.4	144.3	115.4	96.2	82.5	72.2	64.1	56.1
	MAXIMUM ALLOWABLE POSITIVE PRESSURE (PSF)							
$\Delta \quad L \quad \Delta$	200.0	200.0	153.7	106.7	78.4	60.0	43.7	31.9
$\Delta \quad L \quad \Delta \quad L \quad \Delta$	176.0	132.0	105.6	88.0	75.4	66.0	58.7	48.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	200.0	150.0	120.0	100.0	85.7	75.0	66.7	60.0
$\Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta \quad L \quad \Delta$	192.4	144.3	115.4	96.2	82.5	72.2	64.1	56.1

PRODUCT APPROVAL IS LIMITED TO THE ROOF PANEL & ITS CONNECTING CLIPS. THE STRUCTURAL ADEQUACY OF ALL OTHER STRUCTURAL ITEMS (BEAMS, COLUMNS, PURLINS, FACIA SUPPORTS, CONNECTIONS OF STRUCTURE, ETC.) SHALL BE VERIFIED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. THE METAL ROOF PANELS SHALL NOT BE DESIGNED TO ACT AS A DIAPHRAGM.

PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 08-1224.13
 Expiration Date 04/22/2014
 By *Helmut A. Mader*
 Miami Dade Product Control Division

Approved as complying with the Florida Building Code
 Date 08/26/2004
 NOA# 04-0723.07
 Miami Dade Product Control Division
 By *Helmut A. Mader*

SEE SHEET 2 FOR VALLEY DETAILS

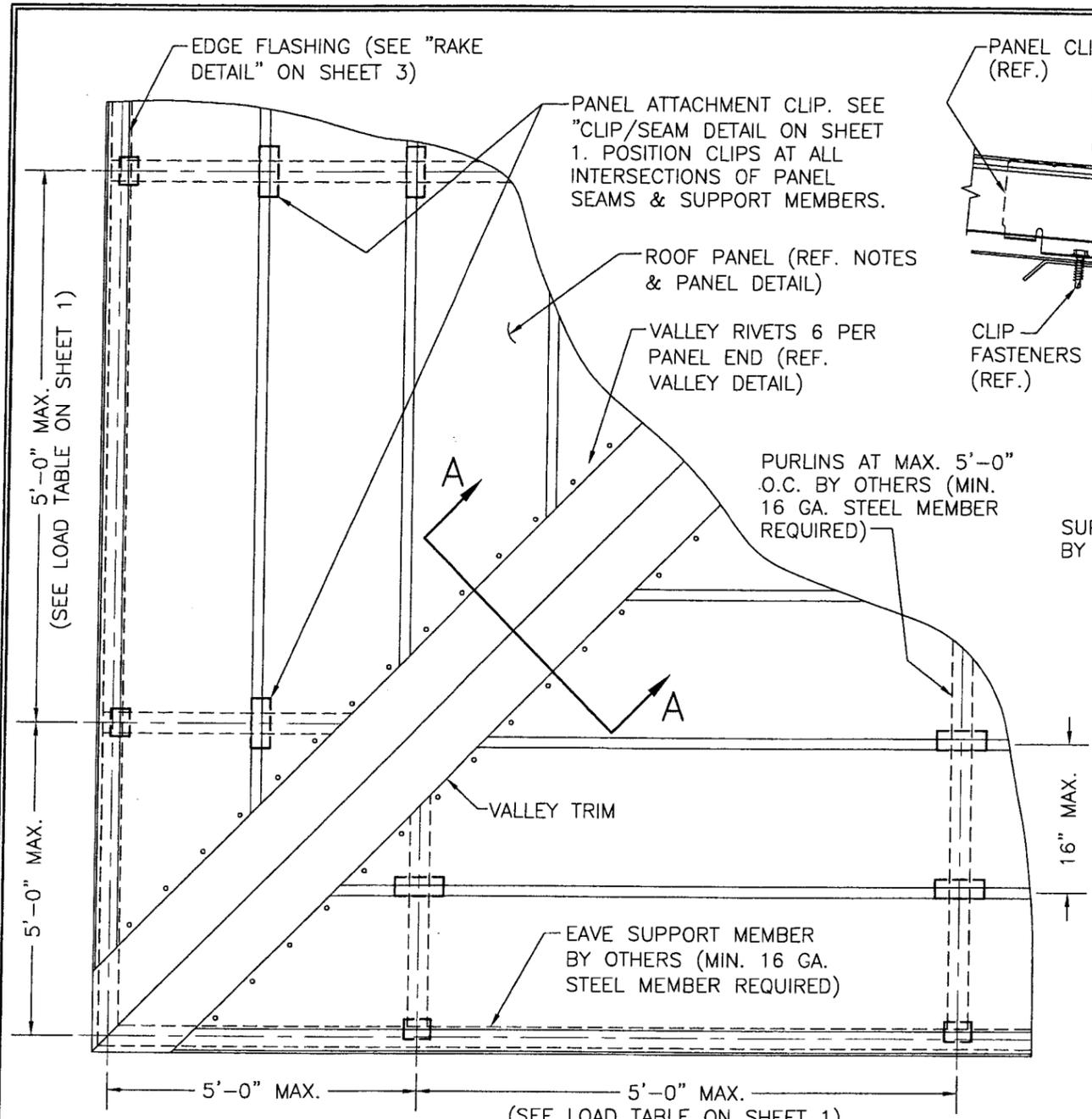
DRAWING TITLE: R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL

MANUFACTURER: THE GARLAND COMPANY, INC.
 3800 EAST 91ST STREET
 CLEVELAND, OH 44105-2197
 800-321-9336

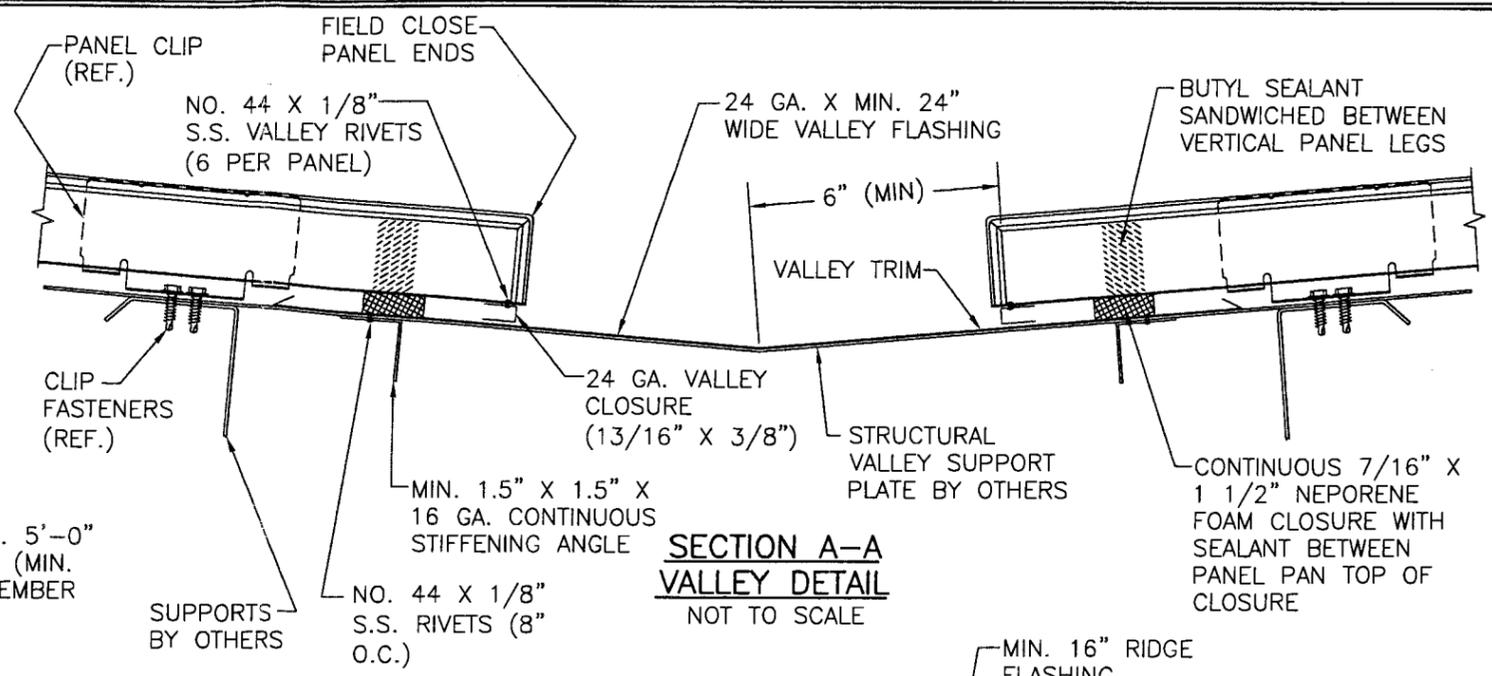
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION: AUG 23 2004

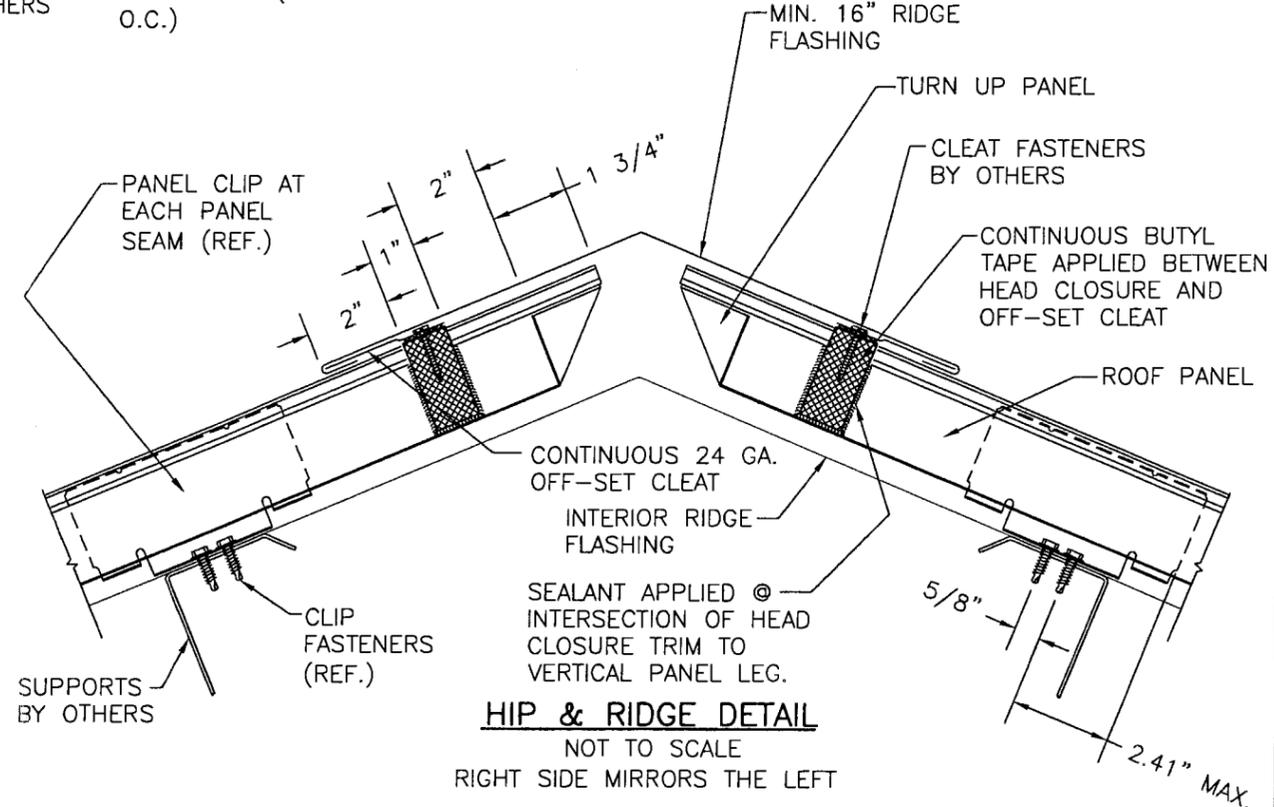
DRAWING NO. 1319
 SHEET NO. 1 OF 3



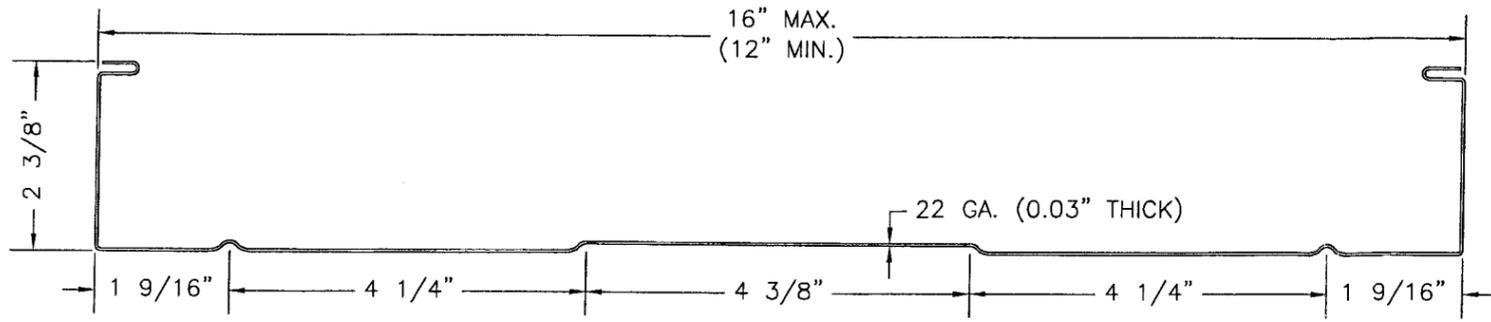
TYP. VALLEY PLAN VIEW
SCALE: 3/4"=1'-0"



SECTION A-A VALLEY DETAIL
NOT TO SCALE



HIP & RIDGE DETAIL
NOT TO SCALE
RIGHT SIDE MIRRORS THE LEFT



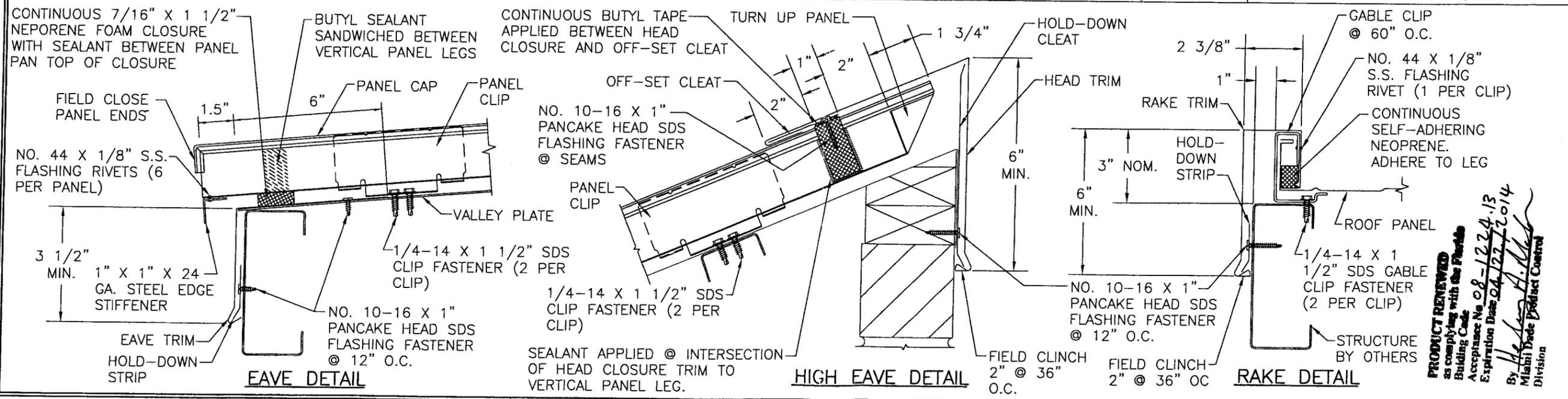
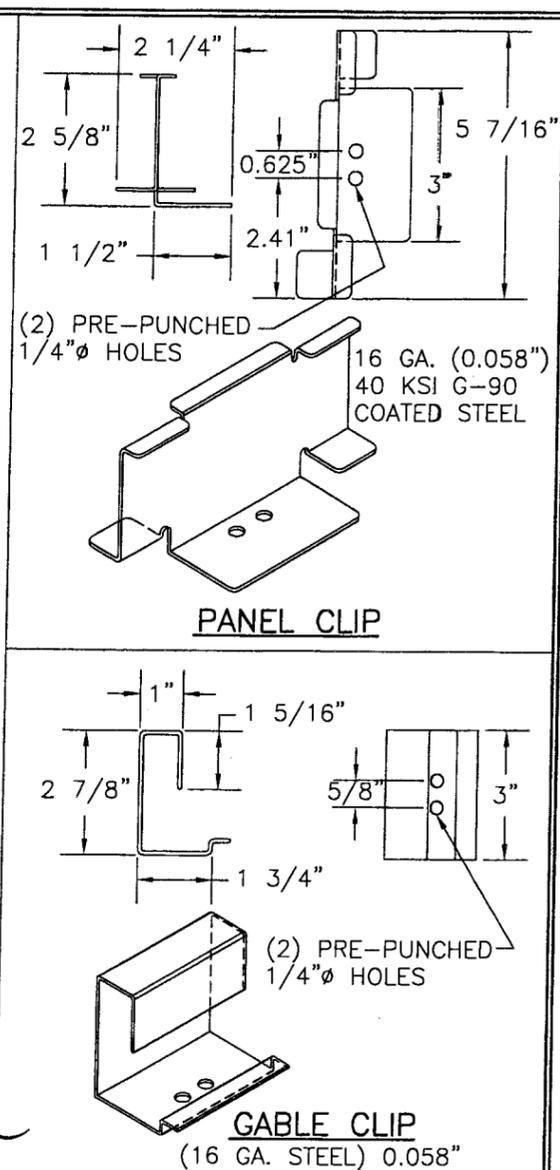
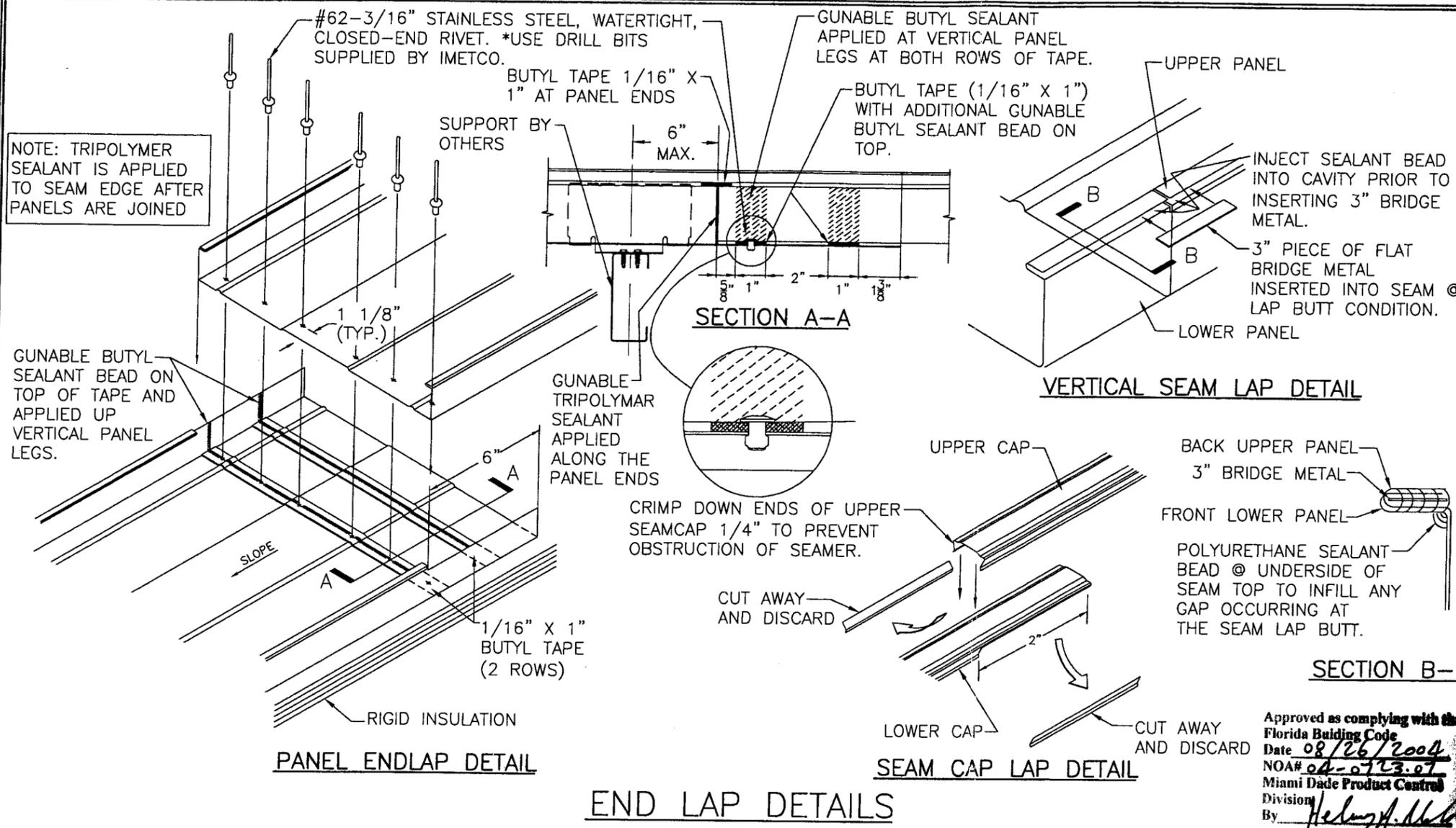
PANEL DETAIL
SCALE: 6"=1'-0"

NOTE: ALL FLASHING MATERIAL NOT CALLED OUT WITH A SPECIFIC GAGE THICKNESS SHALL BE MIN. 24 GAGE.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 08-1224.13
Expiration Date 04/22/2013
By *Helmy A. Melon*
Miami Dade Product Control Division

Approved as complying with the Florida Building Code
Date 08/26/2004
NOAH 08-0773-07
Miami Dade Product Control Division
By *Helmy A. Melon*

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 07/20/04
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER THE GARLAND COMPANY, INC.
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	3800 EAST 91ST STREET CLEVELAND, OH 44105-2197 800-321-9336
CERTIFICATION AUG 23 2004	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1319	REV.
SHEET NO. 2	OF 3



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=4	DATE: 07/20/04
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE R-MER SPAN 22 GAGE STRUCTURAL STEEL ROOF PANEL	
MANUFACTURER THE GARLAND COMPANY, INC. 3800 EAST 91ST STREET CLEVELAND, OH 44105-2197 800-321-9336	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION AUG 23 2004	P.E. WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1319	REV.
SHEET NO. 3	OF 3

Approved as complying with the Florida Building Code
 Date 08/26/2004
 NOAH 04-0723.07
 Miami Dade Product Control
 Division
 By Helmut H. Miller

PRODUCT REVIEWED as complying with the Florida Building Code
 Acceptance No 08-1274.13
 Expiration Date 04/27/2014
 By Helmut H. Miller
 Miami Dade Product Control
 Division