

**EVALUATION REPORT OF
BETCO INC.'S
'316 PANEL'**

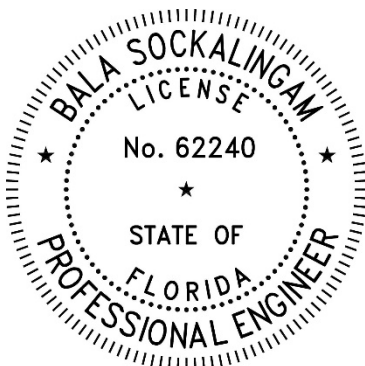
**FLORIDA BUILDING CODE 9TH EDITION (2026)
FLORIDA PRODUCT APPROVAL
FL 16372.2-R2
STRUCTURAL COMPONENTS
ROOF DECK**

**Prepared For:
BETCO Inc.
228 Commerce Blvd
Statesville, NC 28625
Telephone: (704) 872-2999**

**Prepared By:
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**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C3070-2
Date: 10.3.2026**



This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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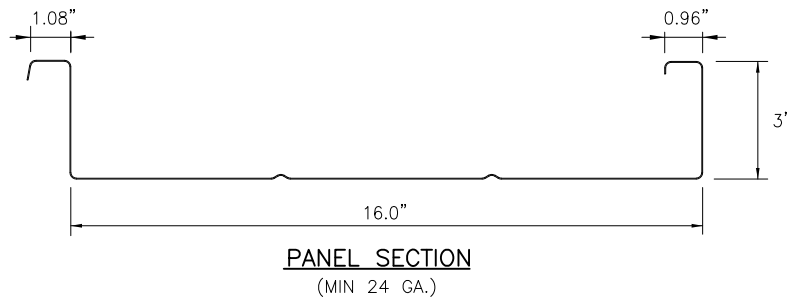
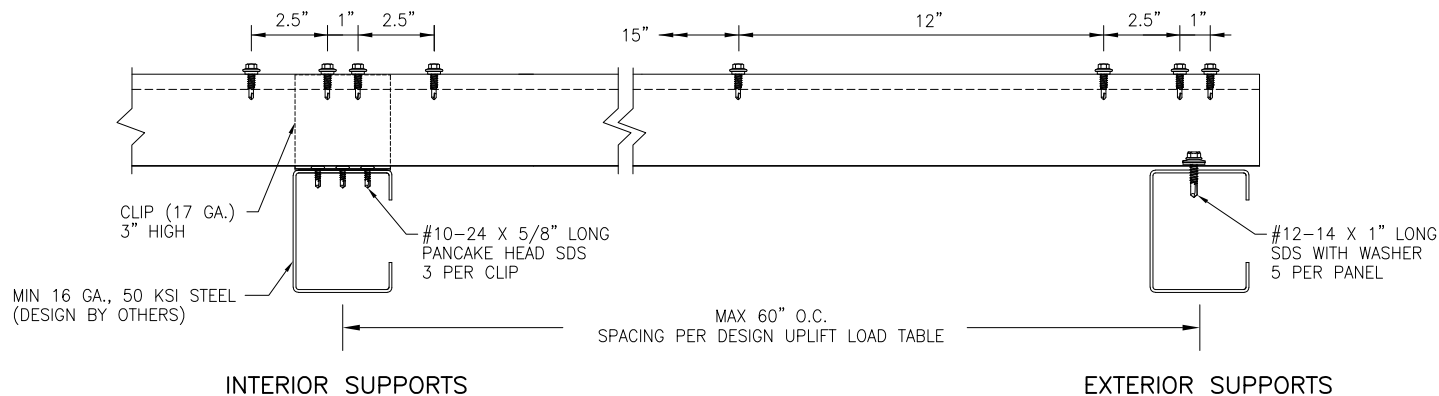
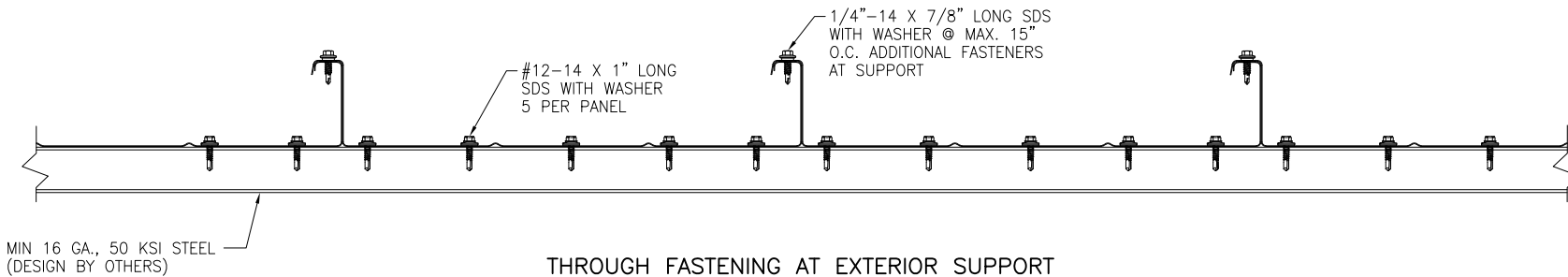
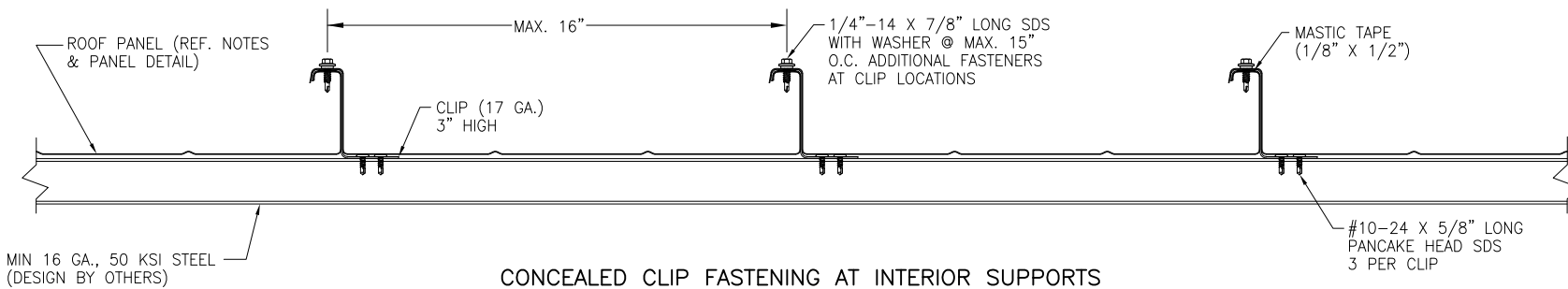
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Manufacturer:	BETCO Inc.
Product Name:	316 Panel
Panel Description:	Standing seam panel with maximum 16" wide coverage and 3" high seam
Materials:	Min 24 ga. with galvalume coated steel (ASTM A792) or painted steel (ASTM A755) ($F_y = 50$ ksi). Corrosion resistant as per FBC 2026 Section 1507.4.3.
Support Description:	Min. 16 ga., 50 ksi steel section (Must be designed by others)
Slope:	1/4:12 or greater in accordance with FBC 2026 Section 1507.4.2
Design Uplift Pressure:	80 psf at clip spacing of 60" o.c. 140 psf at clip spacing of 30" o.c.
Panel Attachment:	17 ga. clip with (3) #10-24 x 5/8" long pancake head self-drilling. The panel sidelaps were sealed with 1/8" thick, 1/2" wide butyl tape and fastened with 1/4"-14 x 7/8" long stitch screws spaced at maximum 15" o.c. Four stitch screws were used to fasten the sidelap at all clip locations. At end supports, the panels are through fastened with (5) #12-14 x 1" long self-drilling screws with washers to support. Clips and fasteners are corrosion resistant as per FBC 2026 Section 1506.7 and 1507.4.4, respectively. For installation in areas within 3000 ft. of a saltwater coastline, clips and fasteners are corrosion resistant as per FBC 2026 Section 1711.
Test Standards:	Roof assembly tested in accordance with ASTM E1592-01 and E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference' and FM 4470 Section 5.5 'Resistance to Foot Traffic'.
Test Equivalency:	The test procedure in ASTM E1592-01 complies with test procedure prescribed in ASTM E1592-05(2017). The test procedure in FM 4470 (1992) complies with test procedure prescribed in FM 4470 (2022) Section 4.6 'Resistance to Foot Traffic'.
Code Compliance:	The product described herein has demonstrated compliance with FBC 2026 Section 1507.4.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2026 Section 1609 or ASCE 7-22 using allowable stress design. The maximum clip spacing listed herein shall not be exceeded. The design uplift pressure for reduced clip spacing may be

computed using rational analysis prepared by a Florida Professional Engineer or based on BETCO's load span table. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2026 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

Supporting Documents: ASTM E1592 Test Reports
Force Engineering and Testing Inc.
212-0294T-06B, Reporting Date 11/8/2006
ENCON Technology Inc.
C2298-1, Reporting Date 8/27/2020

FM 4470 Test Report
ENCON Technology Inc.
C1953-1, Reporting Date 4/4/2014



GENERAL NOTES:

1. STRUCTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS SHALL BE MIN. 24 GA. ($t = 0.022$). MAX. EFFECTIVE COVERING WIDTH OF PANEL = 16".
3. THE ROOF PANELS SHALL BE INSTALLED OVER STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. 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.
5. CLIPS AND FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. PURLINS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: R.S.
PLOT:	DATE: 8/2/2023
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 24 GA. 316 PANEL	MANUFACTURER BETCO INC. 228 COMMERCE BLVD STATESVILLE, NC 28625 704-872-2999
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E.	1216 N. LANSING AVE. SUITE C TULSA, OK 74106 PHONE: 918-492-5992
DRAWING NO. 3070-2	REV.
PAGE NO. 1	OF 1

BETCO INC
316 Panel
Allowable Uplift Loads

Description	Fastener Spacing along panel length (in)	Allowable Uplift Load (psf)
316 Panel Min. 24 ga. Maximum 16" wide 17 ga. clip with (3) #10-24 x 5/8" long pancake head SDS Sidelaps fastened with 1/4"-14 x 7/8" long stitch screws at max 15" o.c. Support - Min 16 ga.	30	140.0
	32	136.0
	34	132.0
	36	128.0
	38	124.0
	40	120.0
	42	114.3
	44	109.1
	46	104.3
	48	100.0
	50	96.0
	52	92.3
	54	88.9
	56	85.7
	58	82.8
	60	80.0

Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 16372.2 and BETCO current installation procedure.