

**EVALUATION REPORT OF
BETCO INC.'S
'26 GA. 236R PANEL'**

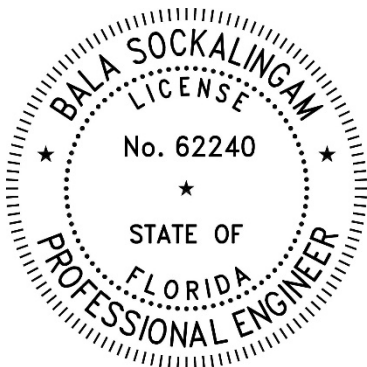
**FLORIDA BUILDING CODE 8TH EDITION (2023)
FLORIDA PRODUCT APPROVAL
FL 37347.1
PANEL WALLS
SIDING**

**Prepared For:
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**This report consists of
Evaluation Report (2 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C2700-5
Date: 8.5.2023**



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

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Manufacturer:	BETCO Inc.
Product Name:	236R Panel
Panel Description:	36" wide coverage with (4) 1.25" high ribs
Materials:	Min. 26 ga., 80 ksi steel or min. 24 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755) as per FBC 2023 Section 1405.2.
Support Description:	Min. 16 ga., min 50 ksi steel section. (Must be designed by others)
Design Pressure: (Factor of Safety = 2) (3 or more spans)	-50.0 psf at support spacing of 60" o.c. -127.2 psf at support spacing of 24" o.c. The allowable inward loads were determined in accordance with FBC 2023 Section 1404.5 and 2210.1 and AISI S100-16(2020) w/S2-20. Panel fasteners, supports, frames and support connections must be designed to resist all loads.
Panel Attachment:	#12-14 x 1" long self-drilling screws with washer. Fasteners are corrosion resistant as per FBC 2023 Section 1405.17.
At panel ends	7"-5"-7" o.c. across panel width
At intermediate	12" o.c. across panel width
Sidelap Attachment:	¼"-14 x 7/8" long self-drilling screws with washer at 12" o.c. Corrosion resistant as per FBC 2023 Section 1405.17.
Test Standards:	Wall assembly tested in accordance with ASTM E1592-01 or E1592-05(2017) 'Test Method for Structural Performance of Sheet Metal Roof and Siding Systems by Uniform Static Air Pressure Difference'.
Test Equivalency:	The test procedure in ASTM E1592-01 complies with test procedure prescribed in ASTM E1592-05(2017).
Code Compliance:	The product described herein has demonstrated compliance with FBC 2023 Section 1404.5.
Product Limitations:	Design wind loads shall be determined for each project in accordance with FBC 2023 Section 1609 or ASCE 7-22 using allowable stress design. The maximum support spacing listed herein shall not be exceeded. The design pressure for reduced support 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.

Supporting Documents: ASTM E1592 Test Reports
ENCON Technology Inc.
Project No. C2661-1, Reporting Date 7/21/2023
Force Engineering & Testing, Inc.
212-0294T-06C, Reporting Date 11/8/2006

BETCO INC
236R Wall Panel

Allowable Inward Loads (psf)

Ga.	Span Condition		Span (ft)						
			2	2.5	3	3.5	4	4.5	5
26	SS	Stress	227.9	145.9	101.3	74.4	57.0	45.0	36.5
		L/120	682.9	349.6	202.3	127.4	85.4	60.0	43.7
	DS	Stress	247.5	161.7	113.6	84.0	64.6	51.2	41.6
		L/120	1643.5	841.5	487.0	306.7	205.4	144.3	105.2
	TS	Stress	284.3	186.7	131.6	97.5	75.1	59.6	48.4
		L/120	1288.6	659.8	381.8	240.4	161.1	113.1	82.5

Notes on Load Table:

- * Section properties and allowables are calculated in accordance with North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition (Reaffirmed 2020), with Supplement 2, 2020 Edition.
- * Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear
- * Allowable load based on deflection limit cannot exceed allowable load based on stress.
- * These loads are for panel strength. Frames, girts, fasteners and all supports must be designed to resist all loads imposed on the panel.
- * SS = Simple span, DS = Double Span and TS = Three or more spans

Allowable Outward Loads (psf)

Support Spacing (in)	Allowable Outward Loads (psf)	
	Two Spans	Three or More Spans
24	-116.3	-127.2
28	-99.7	-109.0
32	-87.2	-95.4
36	-77.5	-84.8
40	-69.8	-76.3
44	-63.4	-69.4
48	-58.1	-63.6
52	-53.7	-58.7
56	-49.8	-54.5
60	-45.7	-50.9

Notes:

1. Allowable load is the lowest value of panel strength, connection strength & deflection limit of L/120.
2. Panels must be installed as per Evaluation Report FL 37347.1 and BETCO current installation procedure.
3. The structural capacity of support beam are not considered and must be examined independently.
4. Minimum support thickness is 16 ga.