

Evaluation Report

“A.R.B.S. Perimeter Edge Blocking” Metal Component Assembly

Manufacturer:

A.R.B.S. Alternative Blocking

281 NE 32nd Street
Fort Lauderdale, FL 33334
(954) 563-0235

for

Florida Product Approval

FL 8693.1 R7

Florida Building Code 8th Edition (2023)

Per Rule 61G20-3

Method: 1 - D

Category: Roofing

Sub - Category: Roofing Accessories that are an Integral
Part of the Roofing System

Product: A.R.B.S. Perimeter Edge Blocking

Material: Steel

This item has been digitally signed and sealed by
James L. Buckner, P.E., on this date below. Printed
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and sealed, and the signature must be verified on
any electronic copies.

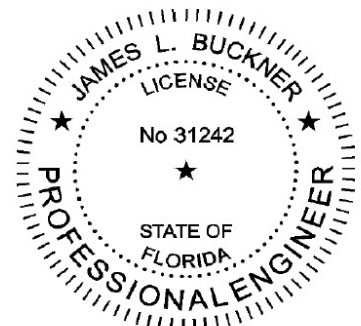
Prepared by:

James L. Buckner, P.E., SECB
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 24-665-EdgeBlocking-S16S-ER
(Revises 20-279-EdgeBlocking-S16S-ER, FL8693.1 R6)
Date: 4/10/2024

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CBUCK, Inc. dba CBUCK Engineering

Phone: (561) 491-9927 · Email: cbuck@cbuckinc.net · Website: www.cbuckinc.net

Business: 1374 Community Dr., Jupiter, FL 33458

Manufacturer:	A.R.B.S. Alternative Blocking		
Product Name:	A.R.B.S. Perimeter Edge Blocking		
Product Category:	Roofing		
Product Sub-Category	Roofing Accessories that are an Integral part of the Roofing System		
Compliance Method:	State Product Approval Rule 61G20-3.005 (1) (d)		
Product Description:	Steel edge blocking system mechanically attached to steel and wood supports.		
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/material & standards: - Perimeter Edge Blocking - Fasteners		
Support:	1) Horizontal Face Support: Type: Steel Deck Description: Material:Steel Thickness:22 Ga. Minimum Yield Strength:40 ksi Minimum 2) Vertical Face Support: Type: Dimensional Lumber Description: Material:Wood Density/Specific Gravity:0.42 Minimum Thickness:1-1/2" Minimum (Design of supports and their attachments to support framing is outside the scope of this evaluation.)		
Performance:	Wind Resistance Design Pressure (ASD)*: - 424 PSF * Allowable design pressure for allowable stress design (ASD).		

Performance Standards:	The product described herein has demonstrated compliance with: • TAS 111 (B) – <i>Test Procedure For Edge Metal Pull-Off Performance</i>
Code Compliance:	The product described herein has demonstrated compliance with: Florida Building Code 8th Edition (2023), Section 1504.5.
Evaluation Report Scope:	This product evaluation is limited to compliance with the structural requirements of the Florida Building Code, as related to the scope section to Florida Product Approval Rule 61G20-3.001.
Limitations and Conditions of Use:	• This evaluation report for “Optional Statewide Approval” contains technical documentation, specifications and installation method(s) which include “Limitations and Conditions of Use” throughout the report in accordance with Rule 61G20-3.005. Per Rule 61G20-3.004, the Florida Building Commission is the authority to approve products under “Optional Statewide Approval”. • Option for application outside “Limitations and Conditions of Use” Rule 61G20-3.005(1)(e) allows engineering analysis for “project specific approval by the local authorities having jurisdiction in accordance with the alternate methods and materials authorized in the Code”. Any modification of the product as evaluated in this report and approved by the Florida Building Commission is outside the scope of this evaluation and will be the responsibility of others. • This report is a building code product evaluation per FLPE rule (FAC) 61G15-36 to comply with Florida product approval rule (FAC) 61G20-3. This evaluation report is part of the Florida Building Commission approval for the listed code related criteria. This report by James Buckner, P.E. and CBUCK Engineering is not a design certification of code compliance construction submittal documentation, per FBC section 107, for any individual structure, site specific or permit design. • Supports shall be in compliance with applicable building code. Design of support system is outside the scope of this report. • All metal components and fasteners shall be corrosion resistant in accordance with applicable sections of FBC, including but limited to Sections 1504.3.2, 1506.5, 1506.6 and 1507.4.4. • Fire Classification is outside the scope of Rule 61G20-3 and is therefore not included in this evaluation. • This evaluation report does not evaluate the use of this product for use in the High Velocity Hurricane Zone code section. (Dade & Broward Counties)
Quality Assurance:	The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through Keystone Certifications, Inc – QA . (FBC Organization #: QUA 1824).

**Components/Materials
(As Evaluated):**

Perimeter Edge Blocking:

Material: Steel
Thickness: 16 Ga. Minimum
Yield Strength: 33 ksi Minimum
Corrosion Resistance: In compliance with FBC Section 1507.4.3(1) and Table 1507.4.3(2)
Dimension:
Maximum Length: 40'
Horizontal Leg: 4-1/2"
Top Flange: 2-1/2"
Vertical Face: 10"

Fasteners (Florida or Miami-Dade Approved Roof Fasteners):

Type: Low Profile Screws
Size: #14 × 1-1/2"
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4

Installation:

Install the "A.R.B.S Perimeter Edge Blocking" anchor as follows:

- Attach horizontal leg to the steel deck with above described **Fasteners** spaced **12" o.c.** maximum along the length of the horizontal leg and 1" from all ends.
- Attach vertical face to dimensional lumber with above described **Fasteners** spaced **12" o.c.** maximum along the length of the vertical face and nominally 1" below the horizontal leg. Fasteners shall embed into dimensional lumber a minimum of 1-1/2".

Install the "A.R.B.S. Perimeter Edge Blocking" assembly in compliance with the installation method listed in this report and applicable code sections of FBC. The installation method described herein is in accordance with the scope of this evaluation report. Refer to manufacturer's installation instructions as a supplemental guide for attachment.

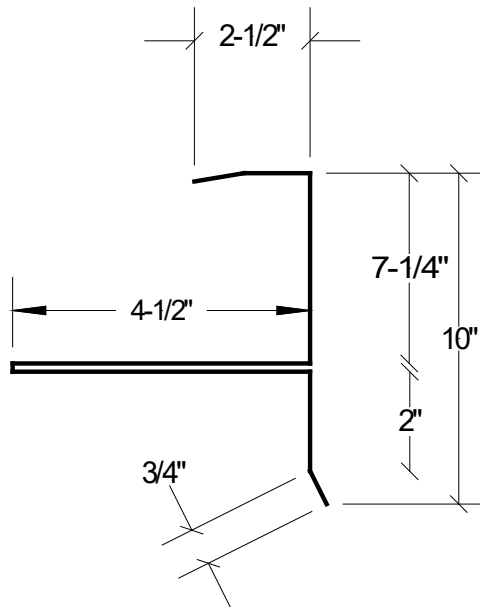
Referenced Data:

1. TAS 111 (B) – 95 Pull-Off Performance Test
By Hurricane Test Laboratory, LLC. (TST ID: 3892)
Report #: 0397-0327-05, Conclusion Section 7.1; Test Date: 2 / 21 / 07
2. Quality Assurance
By Keystone Certifications, Inc. (FBC Organization #QUA ID: 1824)
A.R.B.S. Inc. Licensee # 297
3. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering (FBC Organization #ANE 1916)
4. Rational Engineering
By CBUCK Engineering
Report #C04-173-EB

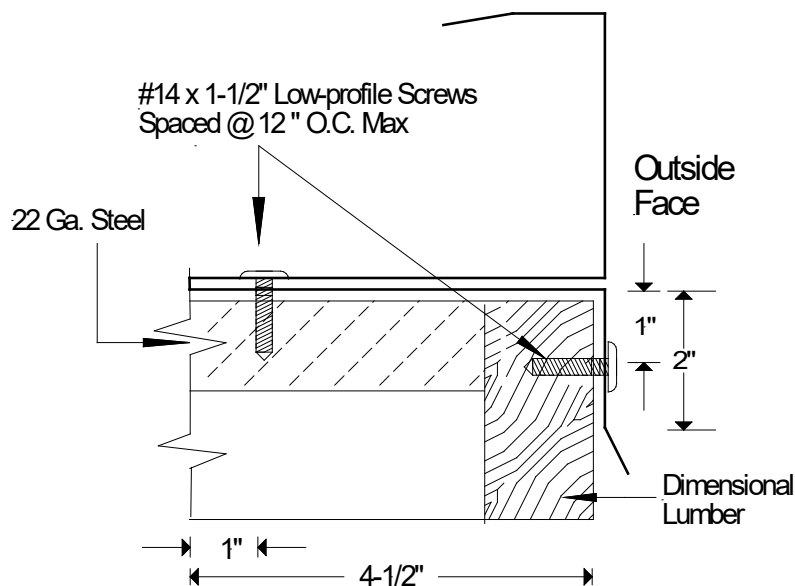
Installation Method A.R.B.S. Alternative Blocking

"A.R.B.S. Perimeter Edge Blocking" (16 ga Min) Attached to Steel & Wood Supports.

Profile Drawings



Product Profile View

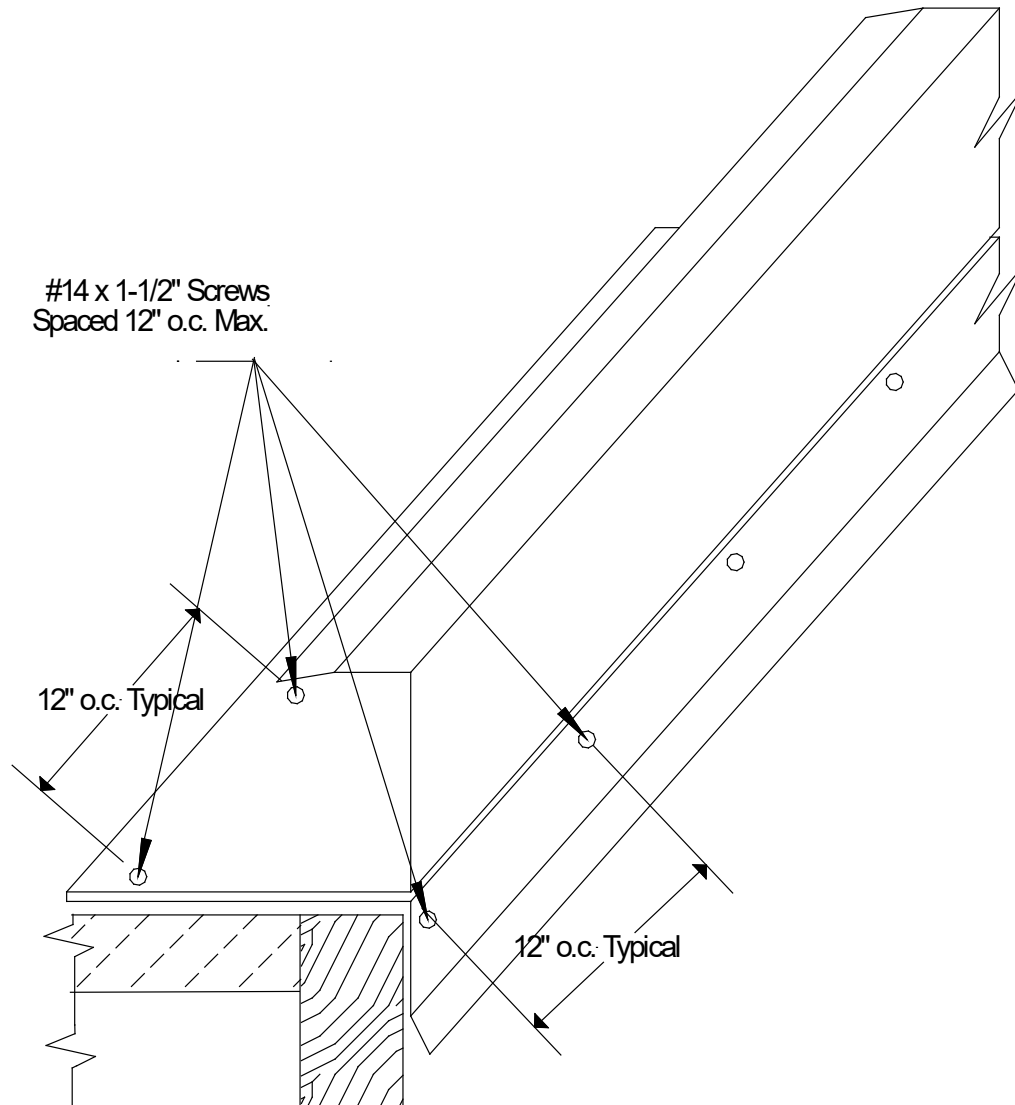


Typical Assembly Profile View

Installation Method

A.R.B.S. Alternative Blocking

"A.R.B.S. Perimeter Edge Blocking" (16 ga Min) Attached to Steel & Wood Supports.



Assembly Isometric View