

Evaluation Report

"A.R.B.S. Parapet Wall 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 9100.5 R6

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. Parapet Wall Blocking*

Material: *Steel*

Support: *Wood and Structural Concrete*

This item has been digitally signed and sealed by James L. Buckner, P.E., on this date below. Printed copies of this document are not considered signed 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-WallBlocking-S16W,C-ER

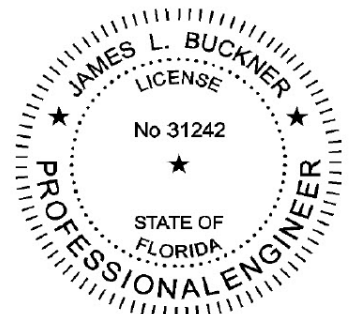
(Revises 20-279-WallBlocking-S16W,C-ER, FL9100.5 R5)

Date: 4/10/2024

Contents:

Evaluation Report

Pages 1 – 6



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Manufacturer:	A.R.B.S. Alternative Blocking
Product Name:	A.R.B.S. Parapet Wall 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 Wall blocking system mechanically attached to wood and concrete supports.
Product Assembly as Evaluated:	Refer to Page 4 of this report for product assembly components/material & standards: - Parapet Wall Blocking - Fasteners
Support:	1) Horizontal Support: Description: Material: Wood Thickness: 1-1/2" Minimum Density/Specific Gravity: 0.42 Minimum 2) Vertical Support: Description: Material: Structural Concrete Compressive Strength: 3,000 psi. Minimum (Design of supports and their attachments to support framing is outside the scope of this evaluation.)
Performance:	Wind Resistance • Design Pressure (ASD)*: - 654 PSF <i>* Allowable design pressure for allowable stress design (ASD).</i>

Performance Standards:	The product described herein has demonstrated compliance with: • TAS 111 (B) – Test Procedure For Edge Metal Pull-Off Performance
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):**

Parapet Wall 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 Web Width: 12"
Vertical Inside Face: 2"
Vertical Outside Face: 7"

Horizontal Wood Support Fasteners

(Florida or Miami-Dade Approved Roof Fasteners):

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

Vertical Concrete Support Fasteners

(Florida or Miami-Dade Approved Roof Fasteners):

Type: Low Profile Concrete Anchors
Size: 1/4" × 2" Minimum
Corrosion Resistance: Per FBC Section 1506.6 and 1507.4.4

Installation:

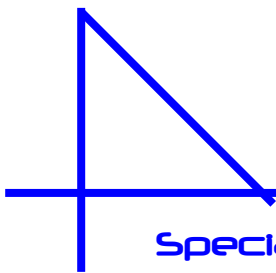
Install the **"A.R.B.S Parapet Wall Blocking"** anchor as follows:

- Attach horizontal web to horizontal wood support with above described **Fasteners** spaced **5" o.c.** maximum along the length of the horizontal web. Fasteners shall be embedded into horizontal wood support a minimum of 1-1/4".
- Attach vertical outside face to vertical structural concrete support with above described **Fasteners** spaced **5" o.c.** maximum along the length of the vertical outside face and nominally 5" below the horizontal web. Fasteners shall be embedded into vertical concrete support a minimum of 1-3/4".

Install the "A.R.B.S. Parapet Wall 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:

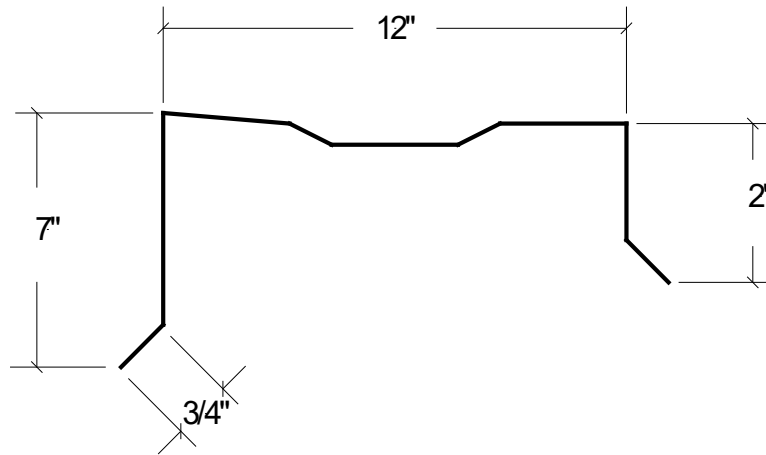
1. TAS 111 (C) – 95 Pull-Off Performance Test
By Hurricane Test Laboratory, LLC. (TST ID: 3892)
Report #: 0397-0327-05, Conclusion Section 7.1; Test Date: 2 / 21 / 07
2. Quality Assurance
By Keystone Certifications, Inc. (FBC Organization #QUA ID: 1824)
A.R.B.S. Inc. Licensee # 297
3. Certification of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



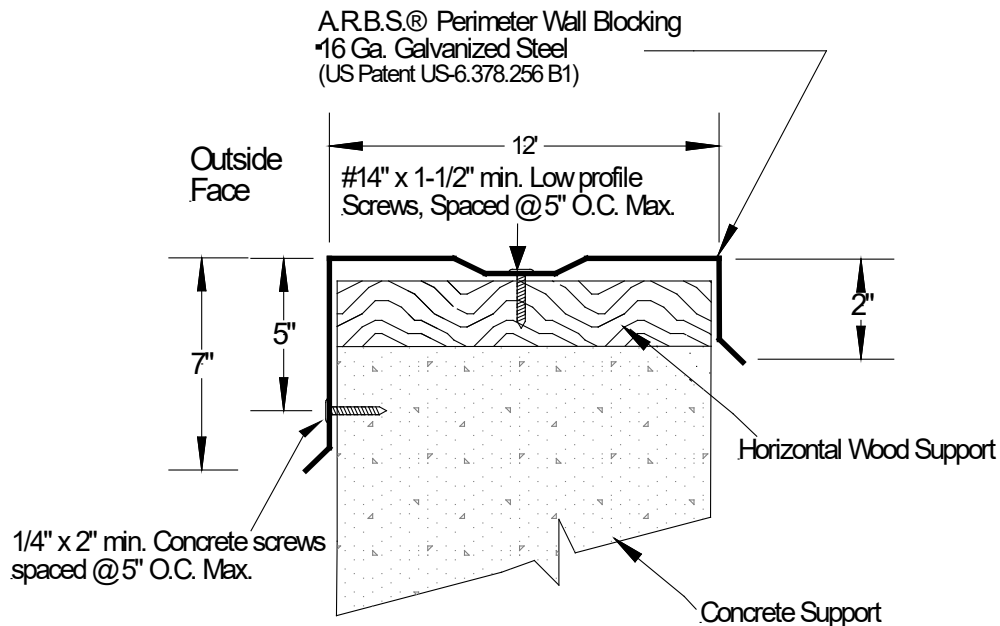
Installation Method A.R.B.S. Alternative Blocking

"A.R.B.S. Parapet Wall Blocking" (16 ga Min. Steel) Attached to Wood & Concrete Supports

Profile Drawings



Product Profile View



Typical Assembly Profile View