



CBUCK Engineering

Specialty Structural Engineering

CBUCK, Inc. Florida Certificate of Authorization # 8064

Evaluation Report of Streamline Roofing & Construction, Inc. “200 MS”

Metal Roof Assembly
for
Florida Product Approval
FL 7207.11 R1
Florida Building Code 2007
Per Rule 9B-72

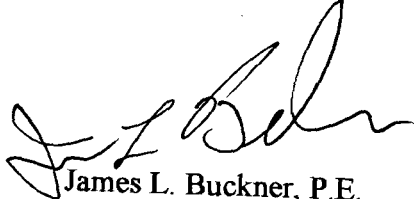
Method: 1 - D
Category: Roofing
Sub - Category: Metal Roofing

Product: “200 MS” Roof Panel
Material: Steel
Panel Thickness: 24 Gauge
Panel Width(s): 16”
Support Type: Wood Deck

Prepared for:
Streamline Roofing & Construction, Inc.
P.O. Box 2378
Tallahassee, Florida 32316

Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242
Florida Evaluation ANE ID: 1916
Project Manager: Diana Galloway
Report No. 08-137-200MS-16-S4W -ER
Date: 10 / 10 / 08

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James L. Buckner, P.E.
Florida, P.E. #31242
10/23/08

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Manufacturer:	Streamline Roofing & Construction, Inc.
Product Name:	“200 MS”
Product Category:	Roofing
Product Sub-Category	Metal Roofing
Compliance Method:	State Product Approval Rule 9B-72.070 (1) (d)
Panel Description:	“200 MS”, Steel, Standing Seam Roof Panel attached to Wood Deck.
Panel Material / Standards:	Material: Steel Yield Strength: 40 ksi minimum Corrosion Resistance: Material shall comply with the Florida Building Code (FBC), 2007 Section 1507.4.3.
Panel Dimension(s)	Thickness: 24 gauge minimum Width: 16” Maximum (Net Coverage Width) Rib Height: 2”
Support Type:	Wood Deck (Design of support system is not included in this evaluation)
Support Description:	<ul style="list-style-type: none">• 15/32” or greater plywood, or• Wood plank
Slope Range:	Minimum slope shall comply with FBC 2007, including Sections 1507.4.2, 1504.7 and in accordance with the Manufacturers recommendations.
Underlayment:	Underlayment shall be per manufacturer’s guidelines as required in FBC Section 1507.4.5.
Insulation:	(Optional) Rigid Insulation Board, 3” maximum thickness and shall comply with ASTM C 578 per FBC Section 1508.2.
Fire Classification:	Fire Classification is outside the scope of Rule 9B-72, and is therefore not included in this evaluation. Additional approved substrates may be added for Fire Classification purposes.

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**Attachment Component
Description:**

Roof Panel Clips

Type: Two-part, floating assembly

Nominal Dimensions:

Upper Tab: 3-1/2" (tall) x 3" (wide)

Base: 1" (wide) x 1-1/4" (long)

Material & Thickness:

Upper Tab: 24 Ga. Galv. Steel or Stainless Steel

Base: 18 Ga. Stainless Steel

Yield Strength: 45 ksi minimum

Corrosion Resistance: Per FBC Section 1506.7

Clip Fasteners

Type: Hex-head wood screws

Material: Steel

Size: #12-14 x 3/16" minimum penetration through deck

Corrosion Resistance: Per FBC Section 1507.4.4 and 1506.6

Standard: ANSI/ASME B18.6.1

Installation:

Streamline "200 MS" Roof Panel Attached to Wood Deck:

- **Clip Spacing: 26" o.c.** maximum (along the length of the panel)
- **TWO** Fasteners per Clip
- Rib Interlock: Mechanically seamed, 45° Minimum

Minimum fastener penetration or embedment into wood deck, 3/16".

Design Uplift Pressure:

- **52.5 PSF** (Safety Factor of 2:1)

Install the system in compliance with the attached installation method.
Refer to manufacturer's installation instructions as a supplemental guide for attachment.



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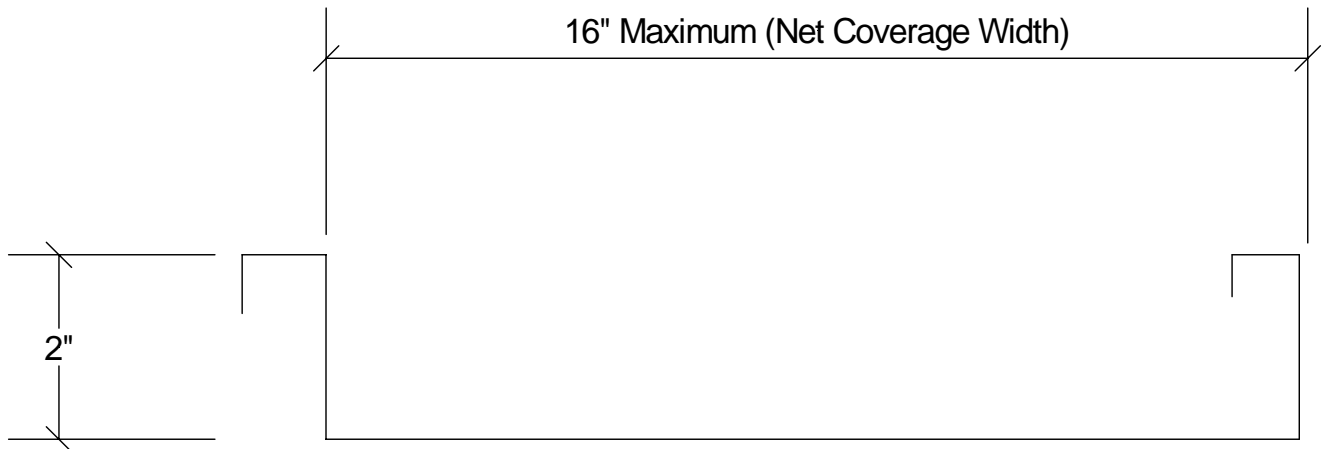
- Quality Assurance:** The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 9B-72.070 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Underwriter's Laboratories, Inc.** (FBC Organization #: QUA 1743)
- Performance Standards:** The product described herein has demonstrated compliance with:
- **UL580-94 – Test for Uplift Resistance of Roof Assemblies – with Revisions through February 1998.**
- Code Compliance:** The product described herein has demonstrated compliance with the Florida Building Code 2007, Section 1507.4.3.2
- Evaluation Report Scope:** This product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code, as related to Rule 9B-72.
- System Limitations:** The required design wind loads shall be determined for each project per FBC, 2007, Section 1609. Any rational analysis shall be prepared by a qualified design professional as required by FBC 2007, Sections 104, 105, 106. The maximum fastener/clip spacing listed herein shall not be exceeded. This report does not evaluate use of this product in the High Velocity Hurricane Zone.
- Referenced Data:**
1. UL Uplift Class 90
By Underwriters Laboratories, Inc., (FBC Organization #CER ID: 1739)
UL File # TGKX.90
Based on UL580-94 (with February 1998 Revisions) Uplift Test
 2. Quality Assurance
Underwriters Laboratories, Inc. (FBC Organization #QUA ID:1743)
 3. Certification of Independence
By James L. Buckner, P.E. @ CBUCK Engineering
(FBC Organization# ANE ID: 1916)
 4. Engineering Analysis
By CBUCK Engineering
Report #C08-137, Dated: 10/19/08

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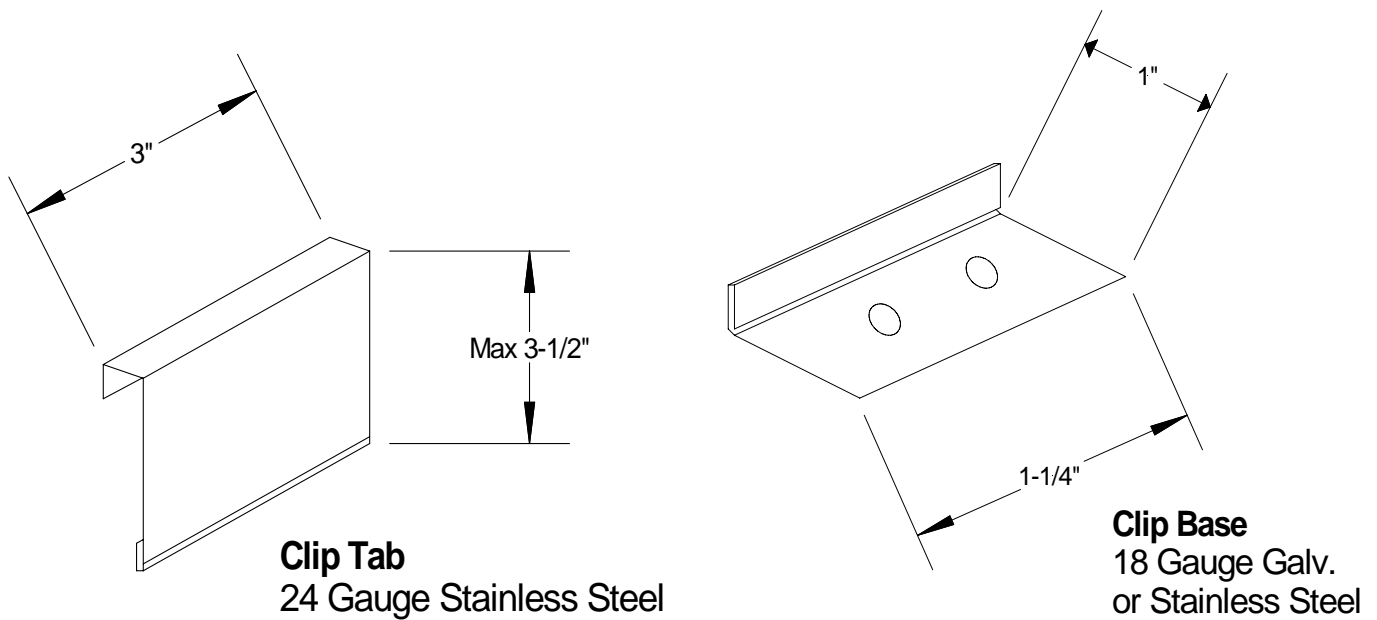
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Installation Method Streamline Roofing & Construction, Inc. "200 MS" (24 Ga. Steel) Roof Panel Attached to Wood Deck



Panel Profile View



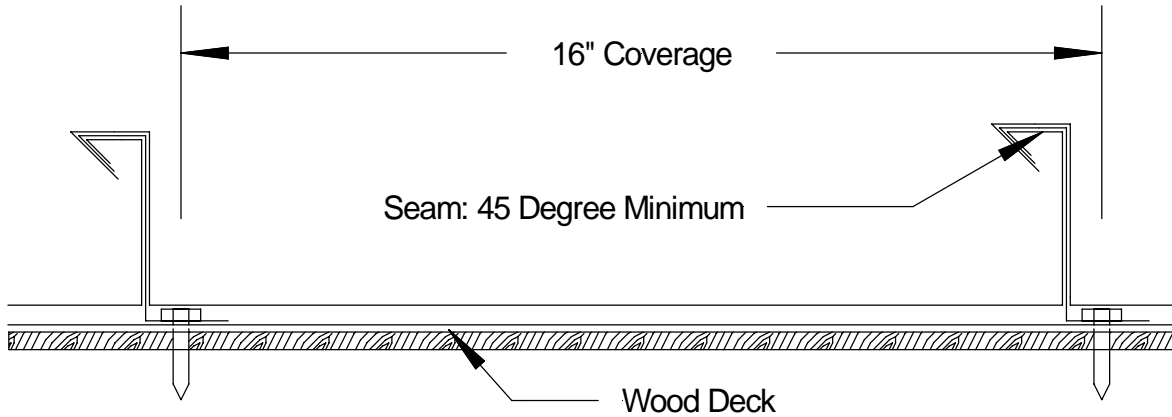
Panel Clip

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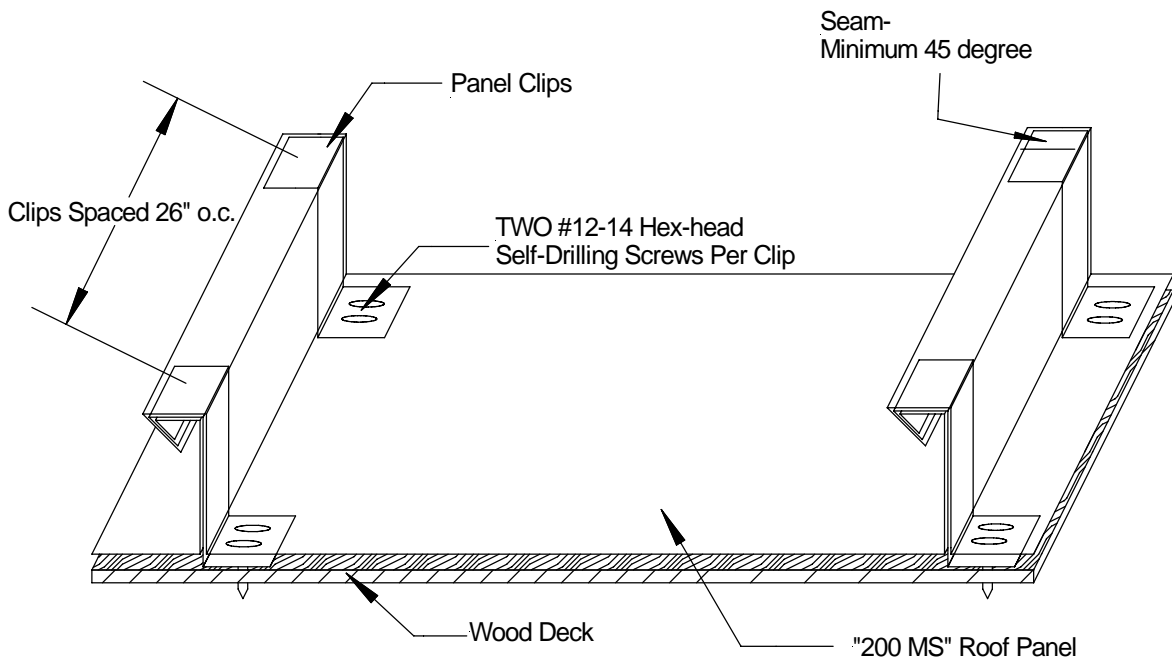
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Typical Assembly Profile View



Typical Assembly Isometric View

Optional Insulation:

Rigid Insulation Board, 3" maximum thickness and shall comply with ASTM C 578 per FBC Section 1508.2.