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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 7207.12 R1
Florida Building Code 2007
Per Rule 9B-72

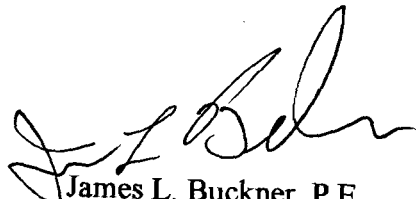
Method: 1 - D
Category: Roofing
Sub - Category: Metal Roofing

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

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

Prepared by:
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Florida Evaluation ANE ID: 1916
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Report No. 08-137-200MS-16-S4P -ER
Date: 10 / 10 / 08

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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 Steel Purlins.
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:	Steel Purlins (Design of support system is not included in this evaluation)
Support Description:	<ul style="list-style-type: none">• Steel Supports, 16 Gauge minimum• Yield Strength: 40 ksi minimum
Slope Range:	Minimum slope shall comply with FBC 2007, including Sections 1507.4.2, 1504.7 and in accordance with the Manufacturers recommendations.
Insulation:	(Optional) Any compressible blanket insulation maximum 6” thick before compression.
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, self-drilling screws

Material: Steel

Size: #12-14 x 1" (3/4" minimum penetration through supports)

Corrosion Resistance: Per FBC Section 1507.4.4 and 1506.6

Standard: Per SAE J78-1979

Installation:

Streamline "200 MS" Roof Panel Attached to Steel Purlins:

- **Purlin Spacing: 60" o.c.** maximum
(along the length of the panel at each purlin and within 3" from all ends)
- **ONE** Fastener per Clip
- Rib Interlock: Mechanically seamed, 45° Minimum

Minimum fastener penetration or embedment into steel purlins, 3/4".

Design Uplift Pressure:

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

@ maximum support spacing, 60" (based on 2 or more spans)

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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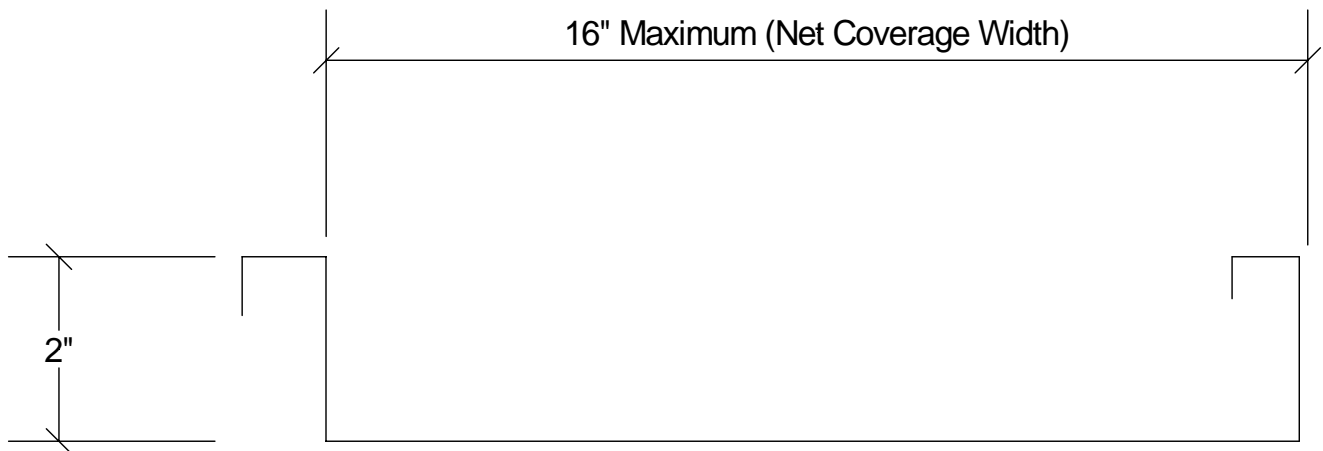
- Quality Assurance:** The manufacturer has demonstrated compliance of roof panel products in accordance with the Florida Building Code and Rule 9B-72.070 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity through **Underwriter's Laboratories, Inc.** (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 computations shall consider web crippling and fastener pullout/pullover per AISI Cold-Formed Steel specification and prepared by a qualified design professional as required by FBC 2007, Sections 104, 105, 106. The maximum fastener/clip and support spacing listed herein shall not be exceeded. Diaphragm and axial load capacity is outside the scope of this evaluation. 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)

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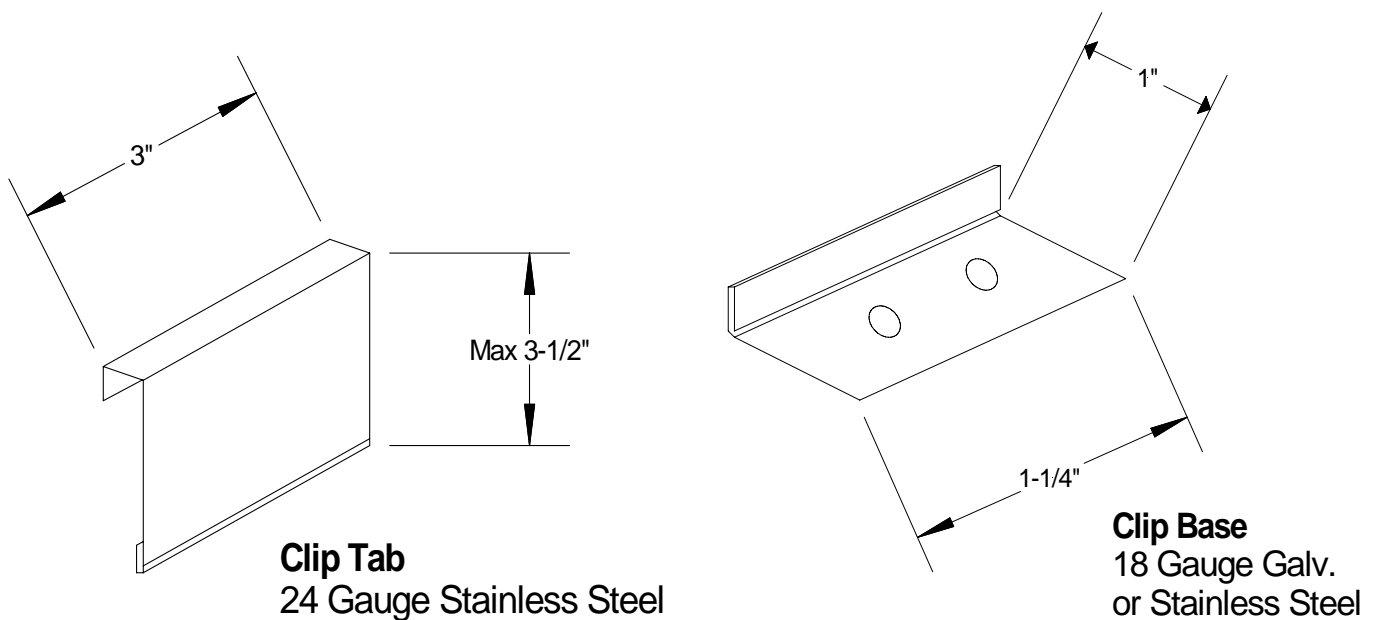
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Installation Method Streamline Roofing & Construction, Inc. "200 MS" (24 Ga. Steel) Roof Panel Attached to Steel Purlins



Panel Profile View



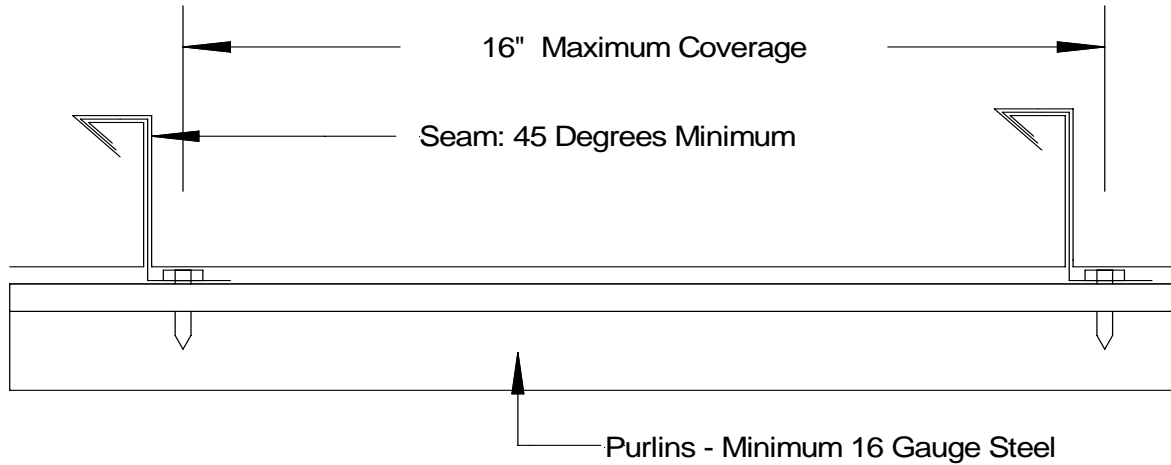
Panel Clip

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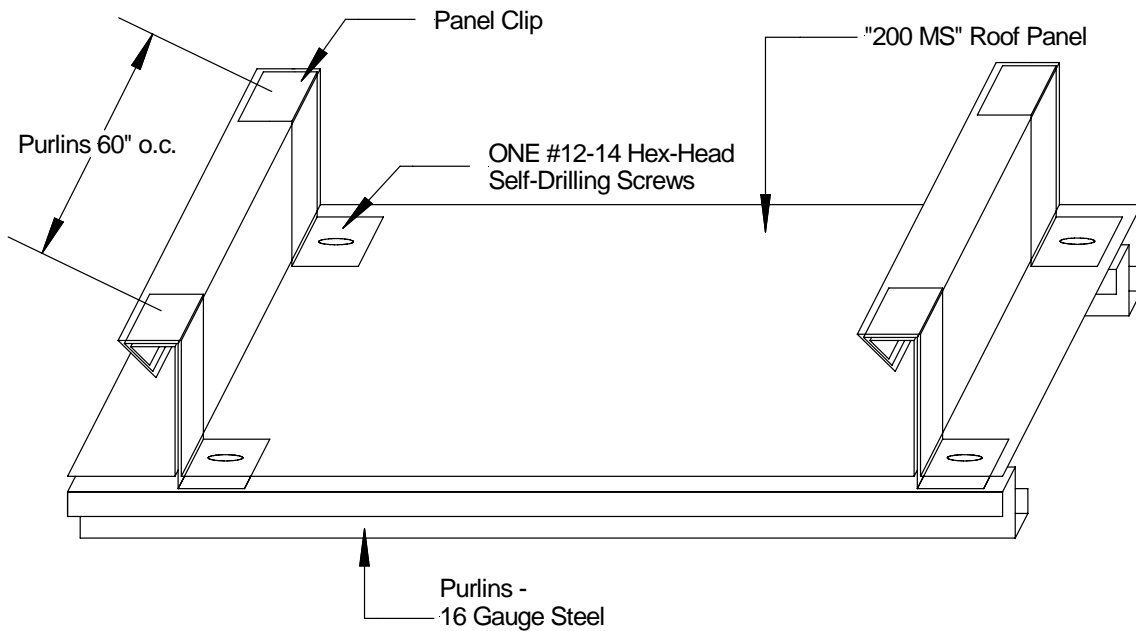
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Typical Assembly Profile View



Typical Assembly Isometric View

Optional Insulation:

Any compressible blanket insulation maximum 6" thick before compression..