MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Total Roofing Systems, Inc.
2100A SW Conant Avenue
Port St. Lucie, FL. 34953

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The BCCO (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Englert Series 2500 Aluminum Roof Panel over steel deck.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 6.
The submitted documentation was reviewed by Alex Tigera.

PRODUCT CONTROL ACCEPTED

NOA No.: 06-1101.01
Expiration Date: 11/17/11
Approval Date: 11/17/06

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Non-Structural Metal Roofing
Materials:	Aluminum
Maximum Design Pressure	**–121.75 psf**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Series 2500	l = various w = 16" Thickness 0.040	TAS 110 & TAS 125	Aluminum, preformed, standing seam, coated panels.
Series 2500 Clip	Base: Min. 18ga steel, L = 3.62" W = 1.18" Tab: Min. 24ga Stainless Steel L = 6" W = 2.174" With one 0.715" wide x 6" long return flap	TAS 114 Appendix E	Two-piece, expansion type, corrosion resistant, formed, steel clips for metal panel installation.
Trim Pieces	l = varies w = varies Thickness 0.040	TAS 110	Standard flashing and trim pieces. Manufactured for each panel width.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Hurricane Test Laboratory, LLC.	0155-702-05 0155-0916-04	TAS-125	02/13/06
PRI Asphalt Technologies, Inc.	HTL-009-02-01	TAS 100	03/14/06
BASF		ASTM G23	01/18/06
BASF		ASTM B117	01/18/06

APPROVED ASSEMBLIES:

SYSTEM A-1:	Series 2500 Aluminum Roof Panel **(FIELD CONDITION)**
Deck Type:	Steel, Insulated or Non-Insulated
Deck Description:	Metal roof deck 22 MSG Steel grade B. coated steel. Panel continuous over two or more spans without endlaps.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	**-63.5psf (See System Limitation #1)**

Deck Attachment: Minimum 22 gage steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with **one (1)** #14 x 1-½" Hex Washer Head screws fastened at the bottom of each flute (6" o.c.). Deck sidelaps shall be fastened 6" o.c. with ¼" x ¾" Hex Head stitch screws.

Insulation (Optional): (Requires a bearing plate for clip attachment) Maximum 4" thick of an approved rigid board insulation with current NOA having a minimum 25psi compressive strength fastened with approved fasteners and plates. Fastening density shall be in compliance with applicable Building Code and Roofing Application Standard RAS 117.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with approved corrosion resistant fasteners and plates. Spaced 12" o.c. on the laps and two rows spaced 24" o.c. in the field of roll. Or any approved underlayment having a current NOA.

Valleys: Valley construction shall be in compliance with Roofing Application Standard PA 133 and with the current published installation instructions and details in Englert Metal Roofing Installation Manual.

Fire Barrier Board: For class A or B fire rating, install minimum ¼" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or $^5/_8$" water resistant type X gypsum sheathing with treated core and facer.

Metal Panels and Accessories: Install the "Series 2500 Panel" and accessories in compliance with the current published installation instructions and details in Englert Metal Roofing Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance with Roofing Application Standard RAS 133.

1. Each roof panel is attached to the substrate along its male rib using the approved clips located 3" from each panel end and at a spacing of **24" o.c.** Each clip is attached to the substrate using two (2) corrosion resistant #10-16 self drilling hex-head screws of sufficient length to penetrate through the bottom of the flute of the structural deck a minimum of ½".

2. Attach adjacent panel by placing the female rib over the male rib and clip. Standing seams shall be mechanically seamed to a full 180 degree seam. (double lock).

SYSTEM A-1:	Series 2500 Aluminum Roof Panel **(PERIMETER AND CORNER CONDITION)**
Deck Type:	Steel, Insulated or Non-Insulated
Deck Description:	Metal roof deck 22 MSG Steel grade B. coated steel. Panel continuous over two or more spans without endlaps.
Slope Range:	2":12" or greater
Maximum Uplift Pressure:	**-121.75psf (See System Limitation #1)**

Deck Attachment: Minimum 22 gage steel deck shall be secured 6" o.c. to structural supports spaced a maximum of 5 ft o.c. with **two (2)** #14 x 1-½" Hex Washer Head screws fastened at the bottom of each flute (6" o.c.). Deck sidelaps shall be fastened 6" o.c. with ¼" x ¾" Hex Head stitch screws.

Insulation (Optional): (Requires a bearing plate for clip attachment) Maximum 4" thick of an approved rigid board insulation with current NOA having a minimum 25psi compressive strength fastened with approved fasteners and plates. Fastening density shall be in compliance with applicable Building Code and Roofing Application Standard RAS 117.

Underlayment: Minimum underlayment shall be an ASTM D 226 Type II installed with a minimum 4" side-lap and 6" end-laps. Underlayment shall be fastened with approved corrosion resistant fasteners and plates. Spaced 12" o.c. on the laps and two rows spaced 24" o.c. in the field of roll. Or any approved underlayment having a current NOA.

Valleys: Valley construction shall be in compliance with Roofing Application Standard PA 133 and with the current published installation instructions and details in Englert Metal Roofing Installation Manual.

Fire Barrier Board: For class A or B fire rating, install minimum ¼" thick Georgia Pacific "Dens Deck" (with current NOA) or minimum 4mm thick of Tritex, RockRoof (with current NOA) or $^5/_8$" water resistant type X gypsum sheathing with treated core and facer.

Metal Panels and Accessories: Install the "Series 2500 Panel" and accessories in compliance with the current published installation instructions and details in Englert Metal Roofing Installation Manual. Flashings, penetrations, valley construction and other details shall be constructed in compliance with Roofing Application Standard RAS 133.

1. Each roof panel is attached to the substrate along its male rib using the approved clips located 3" from each panel end and at a spacing of **12" o.c.** Each clip is attached to the substrate using two (2) corrosion resistant #10-16 self drilling hex-head screws of sufficient length to penetrate through the bottom of the flute of the structural deck a minimum of ½".

2. Attach adjacent panel by placing the female rib over the male rib and clip. Standing seams shall be mechanically seamed to a full 180 degree seam. (double lock).

SYSTEM LIMITATIONS:

1. The maximum designed pressure listed herein shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners).

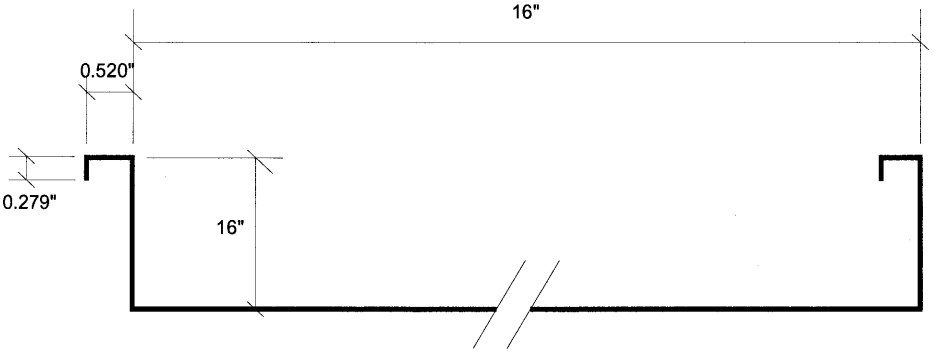
2. Panels shall be roll formed in continuous lengths from eave to ridge. Maximum lengths shall be as described in Miami-Dade County Roofing Application Protocol RAS 133.

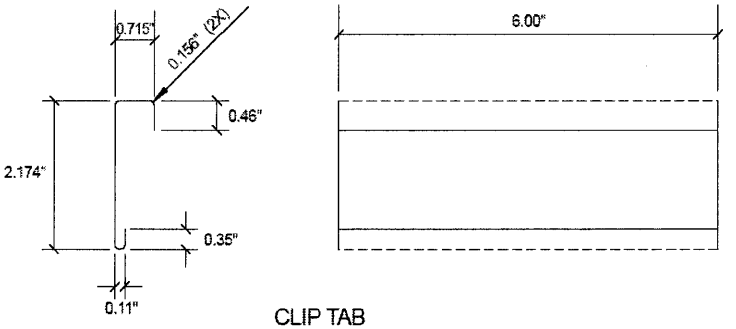
3. All panels shall be permanently labeled with the manufacturer's name and/or logo, and the following statement: "Miami-Dade County Product Control Approved. All clips shall be permanently labeled Englert, and/or logo, and/or model.

4. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9B-72 of the Florida Administrative Code.

5. Panels may be jobsite roll formed with machine model #**6421298** from Englert Inc.

PROFILE DRAWING
SERIES 2500





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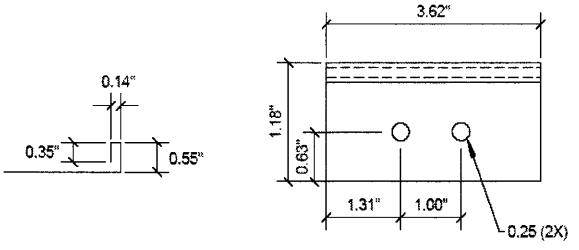

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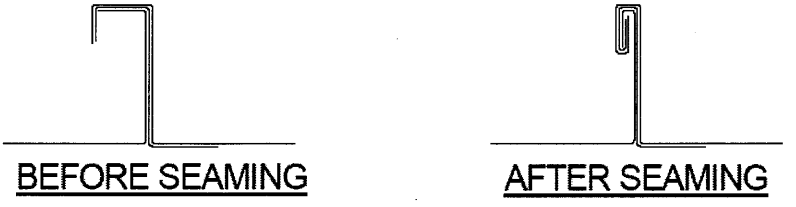

END OF THIS ACCEPTANCE