

**EVALUATION REPORT OF  
TRI COUNTY METALS  
'26 GA. TCM LOK'**

**FLORIDA BUILDING CODE 6TH EDITION (2017)  
FLORIDA PRODUCT APPROVAL  
FL 23302.1  
ROOFING  
METAL ROOFING**

**Prepared For:  
Tri County Metals  
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**This report consists of  
Evaluation Report (3 Pages including cover)  
Installation Details (1 Page)**

**Report No. C2198-1  
Date: 9.29.2017**



Manufacturer: Tri County Metals

Product Name: TCM Lok Panel

Panel Description: Max. 15.75" wide coverage with 1" high ribs

Materials: Min. 26 ga., 50 ksi steel. Galvanized coated steel (ASTM A653) or Galvalume coated steel (ASTM A792) or painted steel (ASTM A755).

Deck Description: Min. 7/16" thick OSB or min. 15/32" thick APA rated plywood or min. 3/4" thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2017.

New Underlayment: Minimum underlayment as per FBC 2017 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.

Existing Underlayment: (Optional) One layer of asphalt shingles over one layer of #30 felt. For reroofing construction only.

Slope: 1/2:12 or greater in accordance with FBC 2017 Section 1507.4.2

Design Uplift Pressure: (Factor of Safety = 2) 67.5 psf at seam fastener spacing of 4.5" o.c. along seam  
112.5 psf at seam fastener spacing of 4.5" o.c. along seam with 3/8" diameter continuous bead sealant in panel seam.

Panel Fastener: #10-12 pancake head wood screws along panel seam. Fastener shall be of sufficient length to penetrate through the deck a minimum of 1/4". Fasteners can be located in fastener slots or through solid portion of fastening flange.

Seam Sealant: Titebond® WeatherMaster Metal Roof Sealant. In lieu of WeatherMaster, adhesive/sealant with greater or equal tensile properties may be used.

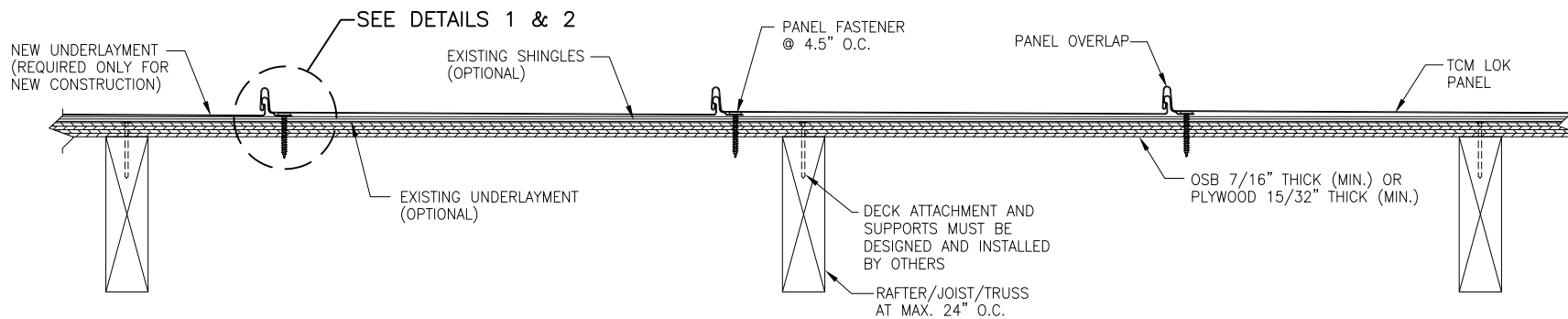
Test Standards: Roof assembly tested in accordance with UL580-06 'Uplift Resistance of Roof Assemblies' & UL1897-12 'Uplift Tests for Roof Covering Systems'.

Code Compliance: The product described herein has demonstrated compliance with FBC 2017 Section 1507.4.

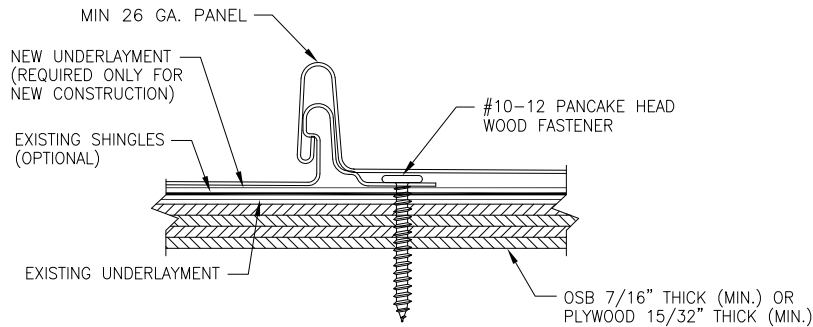
Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2017 Section 1609 or ASCE 7-10 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. The design pressure for reduced fastener spacing may be computed using rational analysis prepared by a Florida Professional

Engineer. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within scope of this Evaluation Report. Refer to FBC 2017 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product.

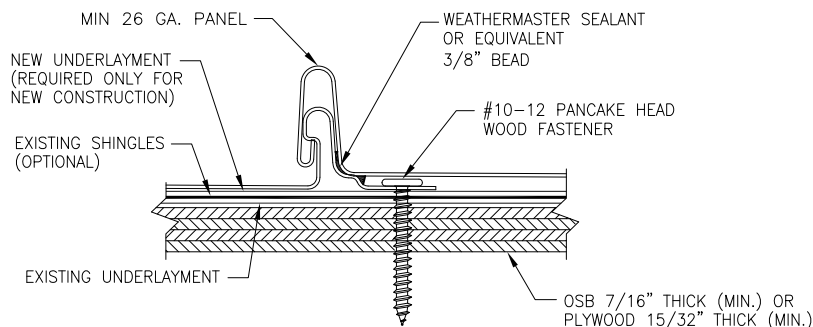
Supporting Documents: UL580 & UL1897 Test Reports  
PRI Construction Materials Technologies  
TCM-002-02-01, Reporting Date 9/25/17



### TYPICAL PANEL INSTALLATION X-SECTION



**DETAIL 1**



**DETAIL 2**

#### ALLOWABLE UPLIFT PRESSURE

FASTENER SPACING ALONG RIB (IN)	SEAM SEALANT DIAMETER (IN)	PRESSURE (PSF)
4.5	NONE	67.5
4.5	3/8	112.5

#### GENERAL NOTES:

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS ARE SHALL BE MIN. 26 GA.. EFFECTIVE COVERING WIDTH OF PANEL = 15.75".
3. ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOAD TABLE.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.

DRAWN BY: B.S.	CHECKED BY: J.K.
PLOT:	DATE: 9/29/17
DATE	
BY	
NO.	REVISION DESCRIPTION
NO.	REVISION DESCRIPTION
DRAWING TITLE	
TCM LOK PANEL	
CONSULTANTS	MANUFACTURER
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DRAWING NO. C2198-1	REV.
SHEET NO. 1	OF 1