

FLORIDA PRODUCT APPROVAL

032 Aluminum PermaShield over 15/32 Plywood

Premier Metal Roof Manufacturing

17613 S. Hwy 475 | Summerfield FL 34491

www.PMRoof.com | 352-356-1609

Product Description

Screw strip, snap lock metal roof panel. Panel coverage is 16" (max) with nominal rib height of 1"

Product Material: nominally 0.032" aluminum or thicker

Fastener: #10 x 1 inch pancake fastener

Compliant with FBC 1506.6 where required.

Substrate/Deck: 15/32" (min) plywood

Maximum Allowable Loads & Installation Requirements:

Method A: #10 x 1.0" fastener every hole ($\pm 5"$ oc): **86 PSF**

Method B: #10 x 1.0" fastener every hole ($\pm 5"$ oc) WITH sealant and self-adhering underlayment: **153.5 PSF**

A factor of safety of 2 has been applied.

Evaluated by:

David Eng, PE | Timberlake Cove, LLC

1317 Edgewater Dr, Ste 2339 | Orlando FL 32804

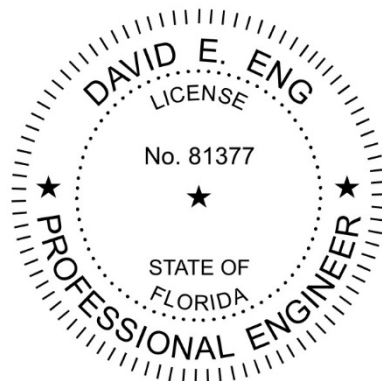
FL PE 81377 | FL CA 33344

www.TimberLakeCove.com



PERMASHIELD

Screw Strip Standing Seam



This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Underlayment: Comply with local building code or FBC 1507.1.1.

Slope: Comply with local building code or FBC 1507.4.2.

Technical Documentation:

This product has been tested to UL 580 by Intertek Testing (TST-1527), report J4161.03-450-44 and I4625.04-450-44. Both tests used with permission.

Compliance Statement:

This product as described has demonstrated compliance with Florida Building Code 2023, 1504.3.2 (**non-HVHZ**) as required by FL Rule 61G20-3, method 1D.

This product as described has been tested and demonstrated compliance with:

- UL580 – Test for Uplift Resistance of Roof Assemblies
- UL 1897 – Uplift test for roof covering systems

Certification of Independence:

David Eng, PE and Timberlake Cove, LLC do not have, nor will acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Exclusions and Limitations:

Design of deck and roof structure (to include attachment of plywood or wood plank) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation. This report is limited to compliance with structural wind load requirements of FBC 1504.3.2, as required by Rule 61G20-3. Neither Timberlake Cove nor the manufacturer shall be responsible for any conclusions, interpretations, or designs made by others based on this evaluation report. This report is limited solely to documenting compliance with Rule 61G20-3, and makes no express or implied warranty regarding performance of this product.

Design Process:

The load tables in this report provides *one* prescriptive option for the fastening requirement for the applicable wind loads for roofs within the parameters described. For roofs outside of the listed parameters, design wind loads shall be determined as required by FBC 1609, ASCE 7, or other design code in force, using allowable stress. These load tables are based on ASCE 7-22. Use of these tables assumes that the structure is:

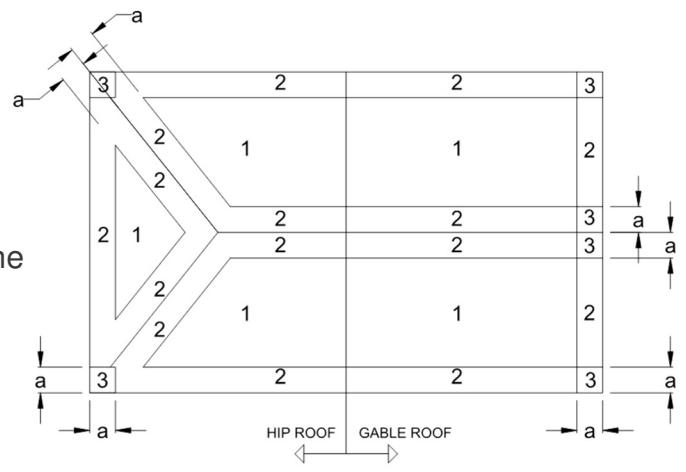
- Enclosed and conforms to wind-borne debris provisions and is a regular shaped building
- Is not subject to across-wind loading, vortex shedding, or instability; nor does it have a site location for which channeling or buffeting warrant consideration

Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction.

Use of Load Tables:

These load tables are provided as a courtesy to provide one possible prescriptive option for a generic, typical structure without calculating the design pressures.

For structures outside the parameters of these load tables (e.g. height above 30 feet), calculate the required allowable design pressure and compare to the maximum allowable loads shown on page 2. These load tables shall not be construed to in any way limit the installation of this product to the cases shown. When applicable, the tables in FRC R301.2(2) and R301.2(3) may be used to determine the design uplift pressure. The FRC tables are copied below as a courtesy.



a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M), OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING

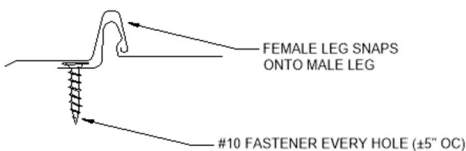
Instructions:

Select the appropriate load table that applies to the structure in question.

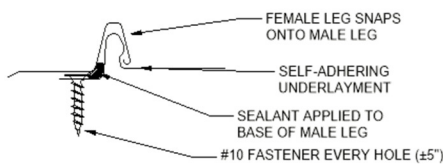
Determine the design wind speed for the project location.

Use the attachment method indicated for that windspeed within each roof zone.

METHOD A



METHOD B



NR: CONSULT DESIGN PROFESSIONAL

Load Tables

Use this load table for structures which meet the following criteria:
 Are located in **Exposure B** area
 Has a **gable roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **15 feet or less**

FL30343.03 032 Aluminum PermaShield on 15/32"

plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A
Zone 3:	A	A	A	A	A	A	B	B	B

Use this load table for structures which meet the following criteria:
 Are located in **Exposure B** area
 Has a **hip roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **15 feet or less**

FL30343.03 032 Aluminum PermaShield on 15/32"

plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A
Zone 3:	A	A	A	A	A	A	A	A	A

Use this load table for structures which meet the following criteria:
 Are located in **Exposure B** area
 Has a **gable roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **30 feet or less**

FL30343.03 032 Aluminum PermaShield on 15/32"

plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	B	B
Zone 3:	A	A	A	A	B	B	B	B	B

Use this load table for structures which meet the following criteria:
 Are located in **Exposure B** area
 Has a **hip roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **30 feet or less**

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plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	B
Zone 3:	A	A	A	A	A	A	A	B	B

Use this load table for structures which meet the following criteria:
 Are located in **Exposure C** area
 Have either a **flat roof, or gable/hip roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **15 feet or less**

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plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	B	B
Zone 2:	A	A	A	A	A	B	B	B	B
Zone 3:	A	A	A	B	B	B	B	B	NR

Use this load table for structures which meet the following criteria:
 Are located in **D exposure** area
 Have either a **flat roof, or gable/hip roof** with **max slope of 45° (±12:12)**
 Have a mean roof height of **30 feet or less**

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plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	B	B	B	B
Zone 2:	A	A	A	B	B	B	B	NR	NR
Zone 3:	A	B	B	B	B	NR	NR	NR	NR

Use this load table for structures which meet the following criteria:
 Are located in **Exposure B** area
 Have either a **hip roof** with **max slope of 45° (±12:12)**
or gable roof with slope between 27° and 45° (±6.1:12 - 12:12)
 Have a mean roof height of **15 feet or less**

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plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	B
Zone 2:	A	A	A	A	A	A	B	B	B
Zone 3:	A	A	A	A	B	B	B	B	B

Use this load table for structures which meet the following criteria:
 Are located in **D exposure** area
 Have either a **hip roof** with **max slope of 45° (±12:12)**
or gable roof with slope between 27° and 45° (±6.1:12 - 12:12)
 Have a mean roof height of **30 feet or less**

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plywood

Wind	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	B	B	B	B
Zone 2:	A	A	A	B	B	B	B	B	NR
Zone 3:	A	B	B	B	B	B	NR	NR	NR

