INTEGRITY METALS
Architectural Fabrication

IM100FF

26ga (min) 16" wide (max) nailstrip panel over 15/32" plywood

Product Description: Nailstrip panel with 16" maximum panel width, and nominal rib height of 1".

Product Material: 26ga (min) steel. Corrosion resistance per FBC 1507.4.3 where required.

Fastener: #10 x 1" low profile fastener. Larger diameter and longer length fasteners are acceptable. Stainless fasteners are acceptable. Compliant with FBC 1506.6 where required.

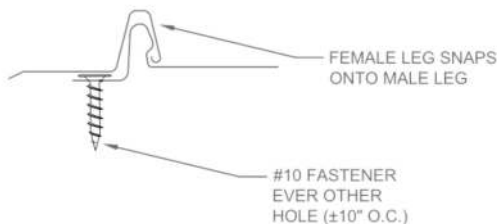**Substrate/Deck: 15/32" (min) plywood** or **¾" (min) thick wood plank** (min S.G. of 0.42).

Max. Allowable Loads & Installation Requirements:
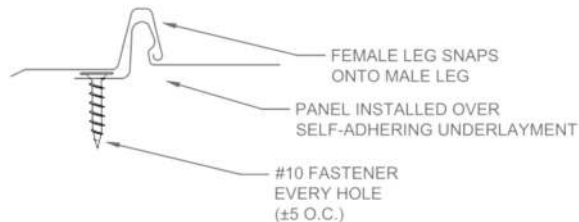Method A: **78.5 psf** | Install fasteners every other hole (±10" o.c.)
Method B: **108.5 psf** | Use self-adhering underlayment and install fasteners every hole (±5")
Factor of Safety of 2.0 applied to calculate allowable loads.

METHOD A

FEMALE LEG SNAPS ONTO MALE LEG

#10 FASTENER EVER OTHER HOLE (±10" O.C.)

METHOD B

FEMALE LEG SNAPS ONTO MALE LEG

PANEL INSTALLED OVER SELF-ADHERING UNDERLAYMENT

#10 FASTENER EVERY HOLE (±5 O.C.)

Evaluated By: David Eng, PE | Timberlake Cove, LLC
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Date: 2021.06.08 16:40:10-04'00'

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

DAVID E. ENG
LICENSE No. 81377
STATE OF FLORIDA
PROFESSIONAL ENGINEER
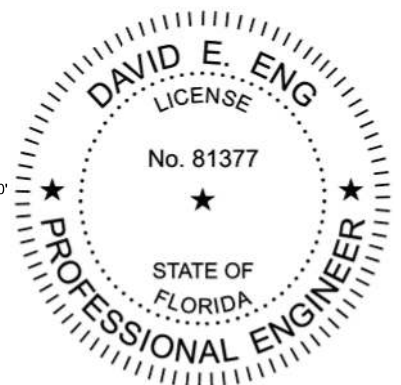
Compliance Statement:
This product as described has demonstrated compliance with Florida Building Code 2020, 1504.3.2 (non-HVHZ) as required by FL Rule 61G20-3, method 1D; subject to the exclusions/limitations noted below.

Underlayment: Comply with local building code or FBC 1507.1.1 where required.

Slope: Comply with local building code or FBC 1507.4.2 where required.

Re-Roofing: This panel may be installed over a single layer of existing shingles as permitted by local building code or FBC 1511, provided the existing roof meets the conditions required by the applicable code.

Panel Accessories: The manufacturer does not require the use of closures, sealants, butyl, or other similar accessories between bottom edge of panel and drip edge, or in other locations. The use of closures and sealants may be advisable in some cases, however that decision is the discretion of the project owner and the installer.

Technical Documentation:
This product has been tested to the following standards by now Intertek Testing (TST 1527).
- UL580/UL1897: report I7726.05-450-44 (used with permission) and K4846.01-450-44.

Design Process:
Compare the maximum allowable loads on page 1 to the ASD uplift pressures for the project to determine sufficiency and installation requirements.

Alternatively, as an option, 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 7-16. Use of these tables assumes that the structure is: Enclosed and conforms to wind-borne debris provisions and is a regular shaped building and 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.

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

Exclusions and Limitations:
Design of deck and roof structure (to include deck attachment) shall be completed by others. Fire classification and shear diaphragm design are outside the scope of this evaluation. Accelerated weathering/salt spray is outside the scope of this evaluation. Static water leakage is 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.

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

FL28113.1: 26ga IM100FF on 15/32" 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	B	B	B	NR
Zone 3:	A	A	A	A	B	B	NR	NR	NR

Use this load table for structures which meet the following criteria:
Are located in **Exposure B** area
Have either a **flat roof less than 7°, hip roof** with
max slope of 45°, or gable roof with slope between 20° and 45°
Have a mean roof height of **30 feet or less**

FL28113.1: 26ga IM100FF 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	B	B	B
Zone 3:	A	A	A	A	B	B	B	NR	NR

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

FL28113.1: 26ga IM100FF on 15/32" plywood

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

Use this load table for structures which meet the following criteria:
Are located in **B, C, or D exposure** area
Have either a **flat roof less than 7°, hip roof** with
max slope of 45°, or gable roof with slope between 20° and 45°
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Zone 2:	A	A	B	B	B	NR	NR	NR	NR
Zone 3:	A	B	B	NR	NR	NR	NR	NR	NR

OPTIONAL ENGINEERING LOAD TABLES

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.
NOTE: ASCE 7-16 and FBC 2020 adopt a 7-zone concept. For the load tables below, the worst case was taken for each zone and reported using the standard zones 1-2-3:
Zone 1 includes zones 1 and 1'
Zone 2 includes zones 2e, 2r, and 2n
Zone 3 includes zones 3e and 3r
Combining these zones creates a clear, simple scheme, at the expense of some design efficiency. Contact the manufacturer for further information, or consult a licensed design professional.

Application:
There are conservative assumptions used in combining scenarios for these load tables for cases when the required design load is unknown. The maximum allowable loads for this product are shown on page 1 of this approval. If the required allowable design loads are known, and the required design loads are less than the allowable load of the product, then the product is sufficient for use, and these optional load tables can be ignored.
If the required design loads are NOT known, then the appropriate load table here may be used. These optional load tables are subordinate to the max allowable loads shown on page 1 (they are merely one conservative application of those loads). In no case shall these load tables be interpreted to restrict the application of this product more than the max allowable loads shown on page 1. The max allowable loads shown on page 1 are the controlling design data for this product; NOT these optional load tables.
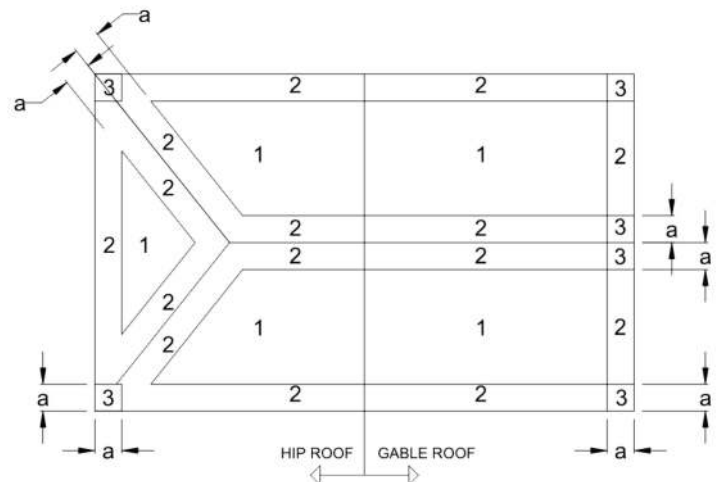
a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M). OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING