



FL #46558.01 R1
HVHZ

26GA HESTIA METAL SHINGLE ON 15/32" (MIN) PLYWOOD

Manufactured by: MetaLite Roofing

3325 SW 8th Ct, Cape Coral FL

<https://metaliteroofing.com/>

Product Description: Shingle/Tile styled exposed fastener panel. Nominally 4-ft wide x 7-ft 3-in long panel with corrugations nominally 13.75" x 7.5"



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

Fastener: #10 fastener (nominally 0.19" diameter) with sealing washer. *Compliant with FBC 1506.6 where required. Fasteners extend min ¼" through plywood.*

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

Maximum Allowable Loads & Installation Requirements:

Method	Fastener Spacing	Other Requirements	Allowable Pressure
A	(1) #10 fastener in every other low point across panel width (±15" o.c.)	(1) #10 sidelap fastener at 13.75" o.c.	-86 psf
B	(1) #10 fastener in every low point across panel width (±7.5" o.c.)	(1) #10 sidelap fastener at 13.75" o.c.	-123.5 psf
C	(2) #10 fasteners in every low point across panel width (±7.5" o.c.)	(2) #10 sidelap fasteners at 13.75" o.c.	-164 psf

A factor of safety of 2 has been applied.

Evaluated by:

David Eng, PE

Timberlake Cove, LLC

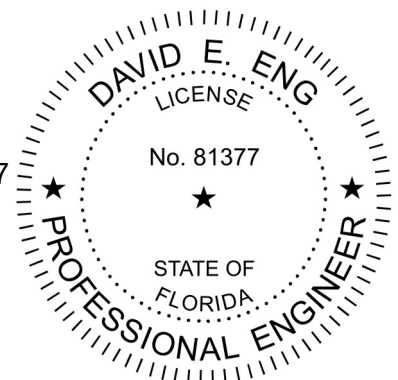
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Digitally signed
by David E Eng
Date: 2025.03.27
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This item has been digitally signed and sealed by D.E. Eng, PE, on the date indicated. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies



Underlayment: Comply with local building code or FBC 1507.1.1/1518.2 where required.

Slope: Comply with local building code or FBC 1507.4.2/FBC 1515.2 where required.

Re-Roofing: This panel may be installed over a single layer of existing shingles as permitted by local building code or FBC 1511/1521, provided the existing roof meets the conditions required by the applicable code.

Fire Barrier: Comply with FBC 1516.1 and 1516.2 where required.

Technical Documentation: This product has been tested to the TAS 125 / UL 580-06 standard by Farabaugh Engineering and Testing (TST-1654), reports T304-23 and T167-25 and to TAS 100, report T305-23

Compliance Statement: This product as described has demonstrated compliance with Florida Building Code 2023, 1504.3.2 (non-HVHZ) and 1518.9.1/1523.6.5.2.4 (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
- TAS 125 – Standard Requirements for Metal Roofing Systems
- TAS 100 - Wind and Wind-Driven Rain

Design Process: Compare the maximum allowable loads on page 1 to the ASD uplift pressures for the project to determine sufficiency and installation requirements. Determine project uplift pressures using ASCE 7-22, FBC R301, project design documents, guidance from local building department, or other design professionals. Engineering analysis may be completed by other licensed engineers for project specific approval by local authorities having jurisdiction.

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

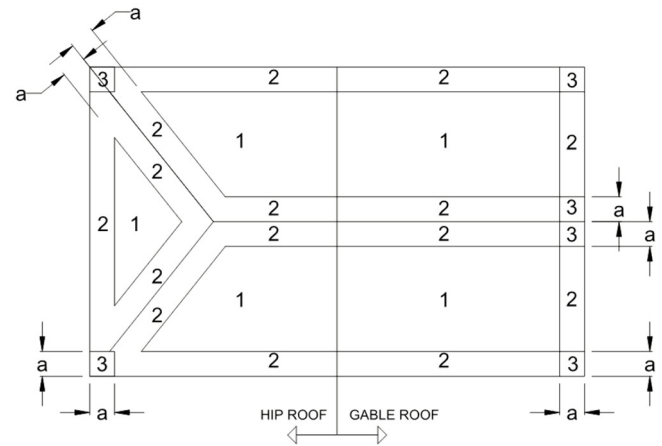
CERTIFICATION OF INDEPENDENCE: David Eng, PE and Timberlake Cove, LLC do not have, nor will they acquire a financial interest in any company manufacturing or distributing products under this evaluation. The same entities do not have, nor will they acquire, a financial interest in any other entity involved in the approval 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. Accelerated weathering/salt spray is outside the scope of this evaluation.

This report is strictly limited to documenting 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. Installation shall be subject to the local building code and authority having jurisdiction; this report shall not be construed to supersede local codes in force.

Use of OPTIONAL 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.

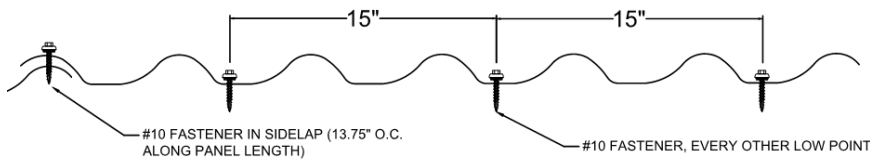
Instructions: Select the appropriate load table that applies to the structure in question.
Determine the design wind speed for the project location.
Use the attachment method indicated for that windspeed within each roof zone.



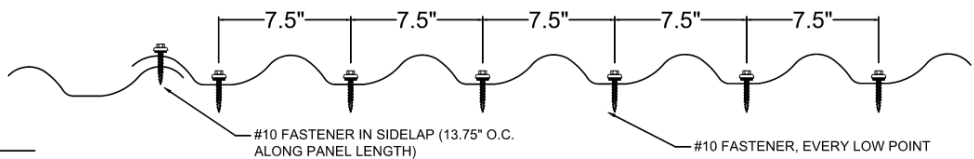
a: 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF LEAST HORIZONTAL DIMENSION OR 3FT (0.9M) OR AS DETERMINED BY DESIGN OR OTHER APPLICABLE CODE.

ROOF ZONES FOR GENERIC BUILDING

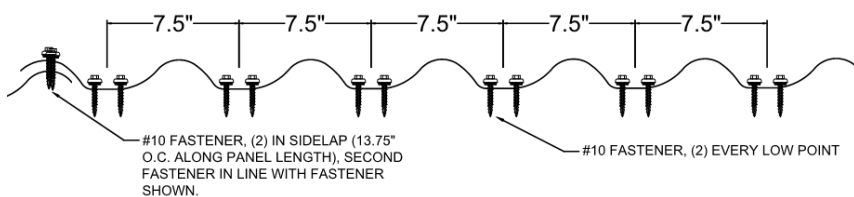
METHOD A



METHOD B



METHOD C



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 12:12**
Have a mean Roof Height of **30 feet or less**

FL46558.01: 26ga HESTIA on 15/32" Plywood

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A	B	B
Zone 3:	A	A	A	A	A	A	B	B	B	C	C

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 12:12, or gable roof with slope between 4.4:12 & 12:12**
Have a mean Roof Height of **30 feet or less**

FL46558.01: 26ga HESTIA on 15/32" Plywood

Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	A	A	A	A
Zone 2:	A	A	A	A	A	A	A	A	A	B	B
Zone 3:	A	A	A	A	A	A	A	B	B	B	C

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 12:12**
Have a mean Roof Height of **30 feet or less**

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Wind	105	110	120	130	140	150	160	170	180	190	200
Zone 1:	A	A	A	A	A	A	A	B	B	B	C
Zone 2:	A	A	A	A	A	B	B	C	C	C	NR
Zone 3:	A	A	A	B	B	C	C	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 12:12, or gable roof with slope between 4.4:12 & 12:12**
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Zone 1:	A	A	A	A	A	A	A	B	B	B	B
Zone 2:	A	A	A	A	A	B	B	B	C	C	C
Zone 3:	A	A	A	B	B	B	C	C			