

## DM Class 1150

### 1" Mechanical (17" Wide)

Standard Size



#### Panel Material (as tested):

Nominally 0.032" aluminum (or thicker).

#### Panel Description:

Mechanically seamed panel with nominally 1" tall rib and 21" (max) coverage.

#### Deck/Substrate:

15/32" (min) plywood or 3/4" (min) thick wood plank (*min S.G. of 0.42*).

#### Available Options:

0.040" aluminum also available and acceptable (*0.040 is thicker than 0.032 min*).

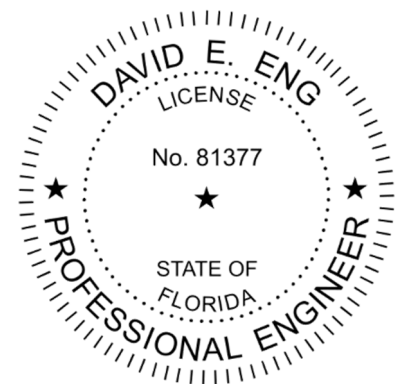
13", 17", and 21" widths available and acceptable.

#### EVALUATED BY:



##### David Eng, PE

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This item has been digitally signed and sealed by David 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.



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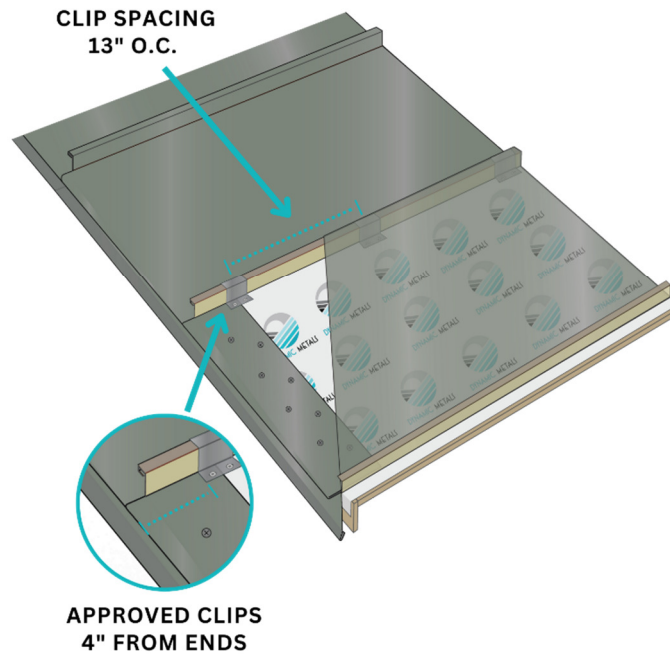
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### OPTION 1



	Option #1
<b>Max. Design Pressure</b> ( <i>allowable</i> )	<b>-131 psf</b>
<b>Min. Fastener</b> ( <i>larger diameter and longer fasteners are acceptable</i> )	(2) #10 x 1" fastener per clip
<b>Clips</b>	Nominally 1-1/8" high x 2" long 26ga clip
<b>Panel Seam</b>	90°
<b>Clip Spacing</b>	4" from ends, 13" max o.c.
<b>Panel Sealant</b> ( <i>all installations</i> )	Not required



Notes:

Compare *allowable* pressures required for the project to the maximum allowable design pressure above and select any option which meets or exceeds the pressures required for the project.



Installation graphics on this page are provided as a generic visual representation; specific written text in this product approval & applicable building code shall take precedence.

A factor of safety of 2.0 has been applied

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**Non-High Velocity Hurricane Zone (Non-HVHZ):**

This product *is approved for installation* **outside** the HVHZ (Miami-Dade & Broward counties). References to HVHZ sections of the FBC (e.g. Fire Barrier) generally do not apply when the product is installed outside of the HVHZ.

**High Velocity Hurricane Zone (HVHZ):**

This product *is NOT approved for installation* **inside** the HVHZ (Miami-Dade & Broward counties), and other jurisdictions which require HVHZ or NOA approvals. Comply with HVHZ elements of the FBC where required.

**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.

OUTSIDE the HVHZ, FBC 1507.4.2 minimum slope is 1/4:12.

INSIDE the HVHZ, FBC 1515.2 minimum slope is 1:12 (this product has passed the requirements of ASTM E2140).

**Trim and Flashing Details:**

Outside the scope of this approval; refer to manufacturer's recommendations. Comply with RAS 133 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. Size fasteners to fully penetrate ¼" (min) through substrate.

**Fire Barrier:**

Comply with FBC 1516.1 and 1516.2 where required. Optional where not required by code.

**Technical Documentation:**


This product has been tested to the TAS 125 / UL 580 standard by Intertek Testing (TST-1527), report K9009.03-450-44. Tests are owned by Lara IP, and 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

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**Panel Labeling:**

Products sold in the HVHZ that require labeling shall bear the following or similar label. Other labeling in accordance with FBC 1523.5 shall also be permitted.



*City, State*  
*DM Class 1150 FL #41724.02*

**Design Process:**

Compare the maximum allowable loads 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.

**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. Accelerated weathering/salt spray 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. 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.

**Panel Forming:**



Panels may be formed on the jobsite with the following Dynamic Metals machines, under a quality assurance program audited by an approved 3<sup>rd</sup> party QA auditor:

SSP-10751007, 5VC-0700123, SSQ2U-6470323, SSQ2U-6480323, SSQ-6800617, SSQ-6690517, 5VC-0490718, SSQ-5150216, SSQ-4560615, 5VC-0360516, SSQ-6810617, SSQ2U-4031121, SSQ2U-4041121, SSQU-4051121

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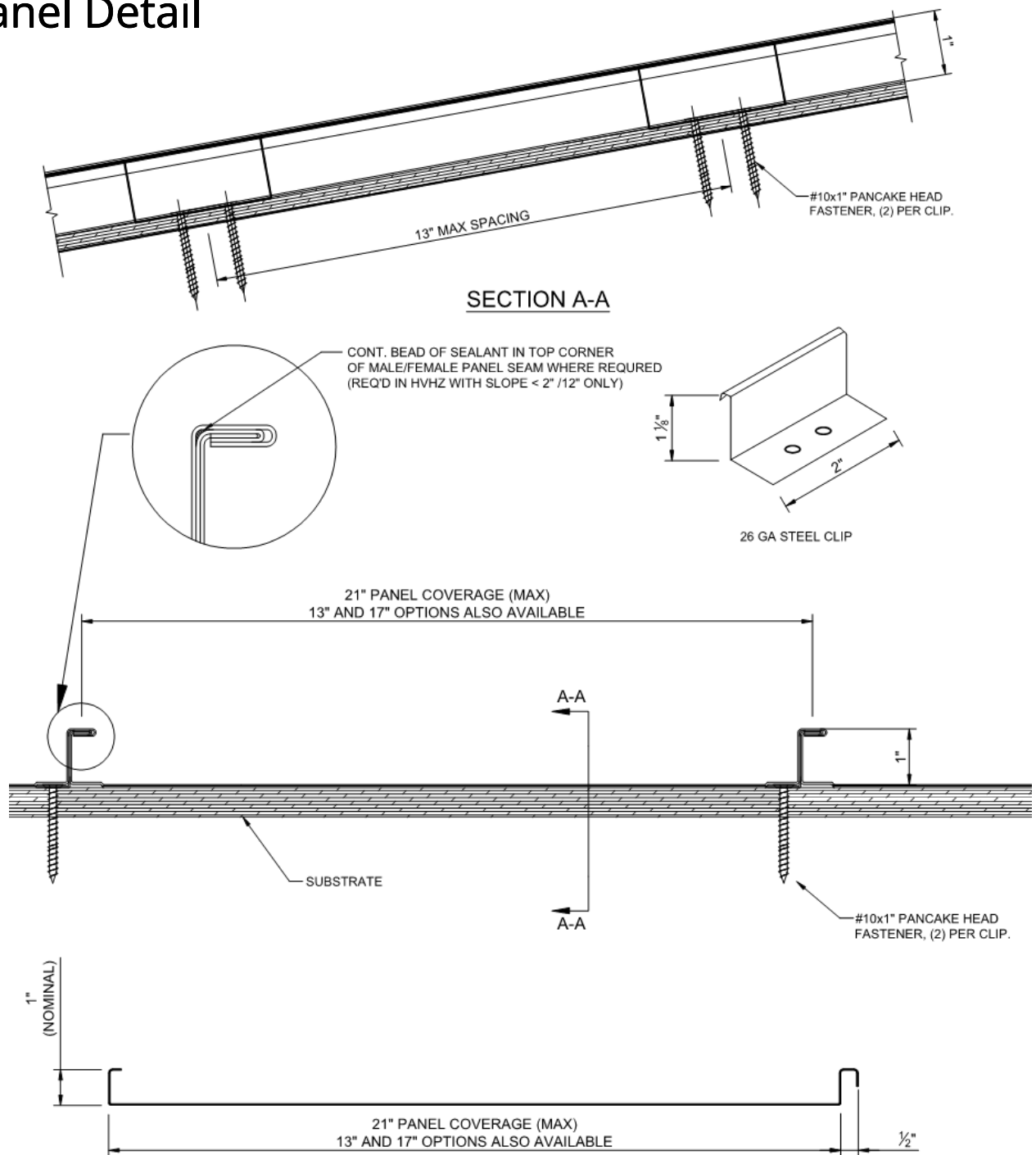
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# Panel Detail



## PANEL PROFILE

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