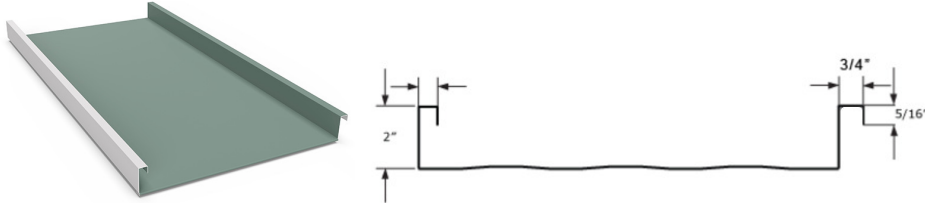




24GA (MIN) MRS 2500 – 2" MECHANICAL LOCK ON STEEL DECK



Manufactured by: Metal Roofing Systems

PO Box 1534, Denver NC 28037, with production facilities around the US

www.metalroofingsystems.com

Product Description: Mechanically seamed panel with a 18-7/8" maximum panel coverage and a nominal rib height of 2"

Product Material: 24ga (min) steel. *Corrosion resistant per FBC 1507.4.3 where required.*

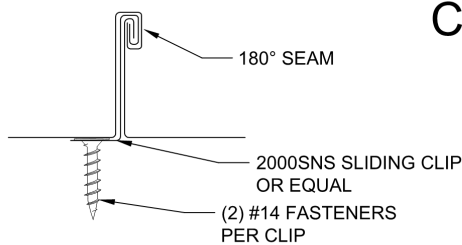
Fastener: #14 fastener, (2) per clip. 2000SNS sliding clip with 22ga top and 16ga base or equivalent. *Compliant with FBC 1506.6 where required. Fasteners extend min 3/4" through steel deck.*

Substrate/Deck: 22ga (min) steel deck

Maximum Allowable Loads & Installation Requirements:

Method	Fastener Pattern	Clip Spacing	Other Requirements	Allowable Pressure
A	(2) #14 fasteners per clip	36" o.c.	180° seam	-54.3 psf
B	(2) #14 fasteners per clip	6" o.c.	180° seam	-153.5 psf

A factor of safety of 2 has been applied. Interpolation between clip spacings is permitted.



CLIP SPACING:

METHOD A:
36" O.C.

METHOD B:
6" O.C.

Evaluated by:

David Eng, PE

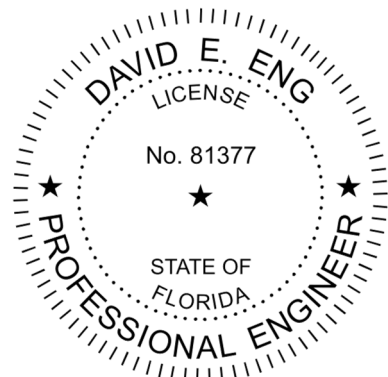
Timberlake Cove, LLC

1317 Edgewater Dr Ste 2339 Orlando FL

FL PE 81377 | FL CA 37675

www.TimberLakeCove.com

Digitally signed by
David E Eng
Date: 2024.02.13
19:09:10-05'00'
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





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 roofing where 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.

Insulation: Optionally, ISO board or other insulation up to 4" thick is permitted between steel deck and panels. Increase fastener length to ensure full penetration into steel deck. Comply with FBC 1508/1520 where required.

Technical Documentation: This product has been tested to the TAS 125 / UL 580 standard by Force Engineering (TST-5328), report 72-0272T-07 and by Farabaugh Engineering and Testing (TST-1654) to TAS 100 under report T106-08, as referenced in FL41654.02-R0 and used with permission.

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.

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.