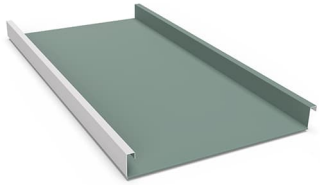
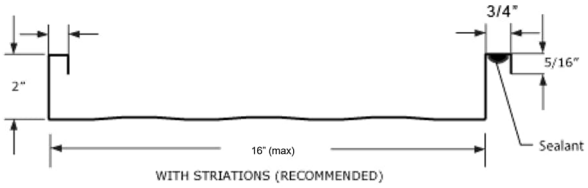
STEEL MRS 2500 – 2" MECHANICAL LOCK ON PURLINS





Manufactured by: Metal Roofing Systems
PO Box 1534, Denver NC 28037, with production facilities around the United States.
www.metalroofingsystems.com

Product Description: Mechanically seamed panel with a 16" maximum panel coverage and a nominal rib height of 2".

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

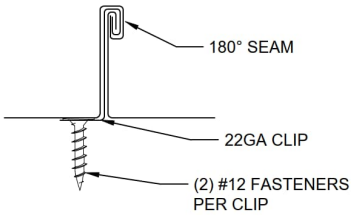
Fastener: #12 fastener, (2) per clip. 22ga sliding clip. C*ompliant with FBC 1506.6, 1506.7, and 1711 where required. Fasteners extend min ¼" through purlins.*

Substrate: 16ga (min) purlins

Maximum Allowable Loads & Installation Requirements:

Method	Fastener Pattern	Clip Spacing	Other Requirements	Allowable Pressure
A	(2) #12 fasteners per clip	60" o.c.	180° seam	-34 psf
B	(2) #12 fasteners per clip	48" o.c.	180° seam	-60.5 psf
C	(2) #12 fasteners per clip	36" o.c.	180° seam	-87 psf
D	(2) #12 fasteners per clip	24" o.c.	180° seam	-113.5 psf
E	(2) #12 fasteners per clip	12" o.c.	180° seam	-140 psf

A factor of safety of 2 has been applied.



CLIP SPACING:
METHOD A: 60" O.C.
METHOD B: 48" O.C.
METHOD C: 36" O.C.
METHOD D: 24" O.C.
METHOD E: 12" O.C.

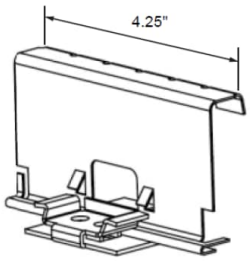
David E Eng
2026.09.13
18:18:29 -06'00'

DAVID E. ENG
LICENSE
No. 81377
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Evaluated by:
David Eng, PE
Timberlake Cove, LLC
1317 Edgewater Dr Ste 2339 Orlando FL
FL PE 81377 | FL CA 37675
www.TimberLakeCove.com

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

Clip:



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 roofing where permitted by local building code or FBC 1511, provided the existing roof meets the conditions required by the applicable code.

Technical Documentation: This product has been tested to the ASTM E-1592 standard by American Test Lab (TST-1555), ATLNC 0605.01-17R, as referenced in FL39697.13-R2.

Metal Hip & Ridge Cover: Comply with local building code or FBC 1504.3.1.1 where required.

Compliance Statement: This product as described has demonstrated compliance with Florida Building Code 2026 (9th Edition), 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:

- ASTM E-1592: Structural Performance of Sheet Metal Roof and Siding

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. Metal hip and ridge cover 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.