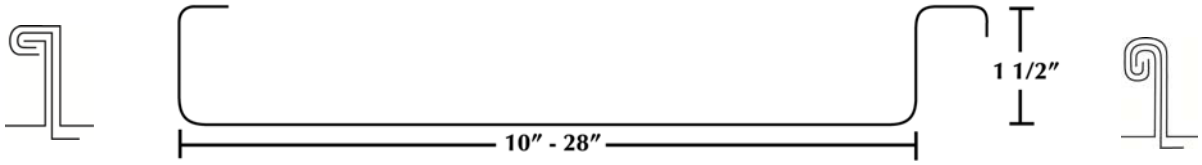
D.C.S.M.
Specializing in metal roofing products

Specification Sheet

MP-15 Mechanical Lock Standing Seam



General Panel Information

Application:	Architectural, Residential, Commercial and Institutional panels.
Radius Application:	Panels can be formed for installation on curved substrates.
Coverage:	10” - 28” panel coverage, with a 1 1/2” seam height.
Minimum Slope:	Recommended slope 2/12 or greater.
Substrate:	Recommended substrate 1/2”-5/8” plywood with a 30 lb. felt moisture barrier.
Length:	Panels are continuous lengths from eave to ridge.
Fastening System:	Concealed clip and fastener system. Recommended 2 screws per clip with a maximum clip spacing of 16” o/c.
Fasteners:	#10 x 1” flat head screws.
Materials:	24 gauge Galvalume*, .032 Aluminum, 16 oz. Copper.
Coatings & Finishes:	24 ga. Galvalume* and .032 Aluminum pre-painted panels are available in over 30 standard colors and coated with a full-strength Kynar 500† finish.
Warranty:	20, 25, and 35 year manufacturer warranties available.
Approvals & Testing:	Florida Building Code product approval. UL-580 Uplift Resistance Test. Class A Fire Rating (UL-790).

Additional Information

- All flashings and accessories are fabricated from the same coil stock as the panels.
- Standing seam orders are all inclusive: panels, clips, screws, and all flashings are incorporated into one per square price.

* **Galvalume** sheet uses an aluminum (55%) - zinc (45%) alloy coating that offers greater corrosive resistance, higher temperature oxidation resistance, and higher heat reflectivity than standard galvanized steel.

† **Kynar 500** is a premium fluorocarbon coating with full strength Kynar 500 resin. This affords maximum exterior durability due to its outstanding resistance to ultraviolet radiation. These are the highest quality finishes available.

DAN’S CUSTOM SHEET METAL, INC.
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D.C.S.M. VS-150 Series Standing Seam Specifications

Part I—General

1.01 Work Included

Furnish all material, labor and equipment to complete installation of D.C.S.M. VS-150 metal roof system as specified herein.

1.02 System Description

The metal roofing system shall meet the specified requirements for wind loading, air infiltration, and water penetration.

The anchorage system shall be concealed and designed so that the panels are free to move for expansion and contraction.

Recommended that panels be installed over a solid substrate with a maximum clip spacing of 16" o/c.

1.03 Quality Assurance

Manufacturer Qualifications: Minimum of 5 years experience in manufacturing architectural metal roof systems.

Installer Qualifications: Minimum of 2 years experience in the installation of standing seam metal roofing.

Inspections:

- The substrate shall be inspected prior to the panel installation to verify that it complies with shop drawings and specified tolerances.
- The final inspection will be conducted to verify that the installation complies with the D.C.S.M. specifications and shop drawings.

1.04 Approvals & Testing

A. Florida Building Code and Miami-Dade HVHZ product approvals.
B. TAS 125 (UL-580 uplift resistance test).
C. TAS 100-95 (wind driven rain test).
D. Class A Fire Rating (UL-790).

1.05 References

SMACNA (Sheet Metal and Air Conditional Contractors Association) architectural sheet metal manual.

NRCA (The National Roofing Contractors Association) roofing and waterproofing manual and handbook of accepted roofing knowledge.

American Society for Testing and Materials (ASTM).

Underwriters Laboratories – Building Materials Directory.

FBC (Florida Building Code).

1.06 Submittals

Complete shop drawings, including roof plan and/or elevations and sections of each condition, shall be submitted for approval prior to fabrication. Such drawings shall also include material type, metal thickness, finish, and installation procedures.

Submit a sample of selected color and finish for architect / owner approval.

Panel sample with clip and screw for review.

1.07 Storage and Handling

Store panels properly and adequately to protect from damage on jobsite.
Protect panels from adverse job conditions (i.e. moisture) prior to installation.
Protect panels from other trades after installation.

1.08 Warranty

20, 25, and 35 year manufacturer warranties available. Contact manufacturer for warranty details on painted products.
The installation contractor shall issue a separate 2 year guarantee against defects in the installed materials and workmanship including a 2 year weather tightness warranty.
Warranty shall begin from date of completion and acceptance of the project.

Part II—Products

2.01 Acceptable Manufacturer

A. D.C.S.M., Inc. VS-150 Snap-Lock Standing Seam, Naples, FL (239) 594-0530.
B. Substitutions shall fully comply with specified requirements.

2.02 Materials

Panels

1. Panels shall be custom fabricated from:
   - 26 gauge mill finish or pre-painted Galvalume with a baked on Akzo Nobel Ceram-A-Star 950 paint finish.
   - 24 gauge mill finish or pre-painted Galvalume with a full strength Kynar 500 fluorocarbon baked on finish.
   - .032 mill finish or pre-painted aluminum.
   - 16 oz copper.

   The seams of the roofing system shall be 16” o/c.
   Snap-lock standing seam, utilizing male and female rib configurations.

All fasteners shall be concealed except as shown on the drawings.
Clips shall be made from 24 gauge Galvalume or stainless steel. Clips shall be one piece and permit panel thermal movement.
Flashings shall be shop fabricated from material that is the same thickness and finish as the D.C.S.M. panels to which they are attached.
Caulking shall be polyurethane, and shall be done in a neat manner with excess caulking removed from exposed surfaces.

2.03 Fabrication

Fabrication shall be as follows:
Panel Width: 16” panel coverage
Overall Seam Height: 1 1/2”
Panels are formed in continuous lengths, full length of detailed runs.
Accessories shall be shop fabricated in finish and metal thickness, same as the panels.
Oil canning is not a cause for panel rejection and does not affect the integrity or longevity of the metal roof system.

2.04 Finish

Refer to manufacturer's standard color chart to determine appropriate color.

Coatings shall be factory applied prior to panel fabrication. The treatment shall be a two coat system: a single coat of corrosion resistant primer followed by a finish coat. The reverse side of the panels shall be treated with a primer coat followed by a wash coat.

Part III—Execution

3.01 Preparation

The Installer shall:

Verify that substrate layout complies with shop drawing layout.

Verify that decking has been inspected and properly fastened according to standard building codes.

Report any variations and potential problems to the general contractor.

Not start work until unsatisfactory conditions have been corrected.

3.02 Installation

The roofing shall be installed plumb, straight and true to adjacent work.

Panels and accessories shall be installed in compliance with D.C.S.M. installation instructions and details.

Hold down clips shall allow for thermal movement and shall be installed at each panel joint. Spacing of clips shall be a maximum of 16" o/c and shall have two fasteners per clip.

No perforations shall be made in roofing by fasteners, except as shown on D.C.S.M. shop drawings and specifications.

All flashings at vertical surfaces shall be a two (2) piece flashing utilizing a separate counter flashing to allow for proper expansion and contraction at vertical surfaces.

3.03 Cleaning and Inspection

Clean work in accordance with manufacturer's recommendations.

Complete all items on punch list.

Touch up minor scratches and abrasions.

Remove all excess metal shavings from drilling, pop rivets, etc.

Remove all debris resulting from work under this section.