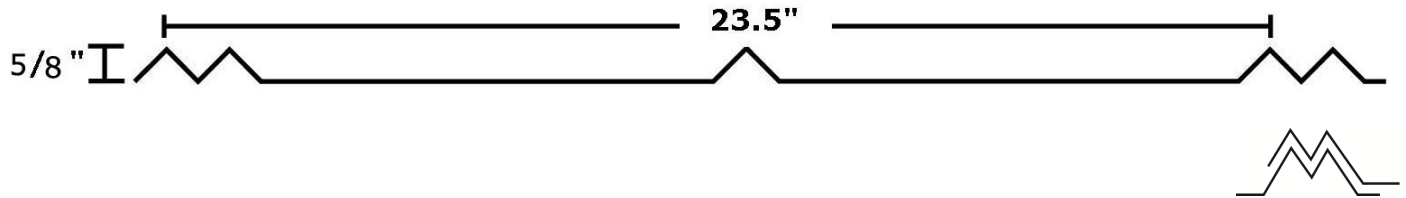


D.C.S.M. 5-V Crimp



General Panel Information

- Application:** Residential, Commercial, Industrial, and Agricultural panels.
- Coverage:** 23.5" panel coverage, with a 5/8" 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:** Exposed fastening system. Recommended that panels are fastened to substrate at center rib and inside rib of side lap, with a maximum spacing of 16" o/c.
- Fasteners:** 1 1/2" self-sealing neoprene washer screws.
- Materials:** Panels are fabricated from 26 gauge or 24 gauge Galvalume*.
- Coatings & Finishes:** 26 gauge pre-painted Galvalume* panels are available in over 10 standard colors.
24 gauge pre-painted Galvalume* 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 and Miami-Dade HVHZ product approvals.
TAS 125 (UL-580 uplift resistance test).
TAS 100-95 (wind driven rain test).
Class A Fire Rating (UL-790).

Additional Information

- Panels are also available in Aluminum and Copper.
- All flashings and accessories are fabricated from the same coil stock as the panels.
- 5-V 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.

D.C.S.M. 5-V Crimp Series Specifications

Part I - General

1.01 Work Included

Furnish all material, labor and equipment to complete installation of D.C.S.M. 5-V Crimp metal roof system as specified herein.

1.02 System Description

- A. The metal roofing system shall meet the specified requirements for wind loading, air infiltration, and water penetration.
- B. Exposed anchorage system.
- C. Recommended that panels be installed over a solid substrate with a maximum fastener spacing of 16" o/c.

1.03 Quality Assurance

- A. Manufacturer Qualifications: Minimum of 5 years experience in manufacturing architectural metal roof systems.
- B. Installer Qualifications: Minimum of 2 years experience in the installation of metal roofing.
- C. Inspections:
 - 1. The substrate shall be inspected prior to the panel installation to verify that it complies with specified tolerances.
 - 2. The final inspection will be conducted to verify that the installation complies with D.C.S.M. specifications and installation guidelines.

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

- A. SMACNA (Sheet Metal and Air Conditional Contractors Association) architectural sheet metal manual.
- B. NRCA (The National Roofing Contractors Association) roofing and waterproofing manual and handbook of accepted roofing knowledge.
- C. American Society for Testing and Materials (ASTM).
- D. Underwriters Laboratories - Building Materials Directory.
- E. FBC (Florida Building Code).

1.06 Submittals

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

(DCSM 5-V Crimp-1)

1.07 Storage and Handling

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

1.08 Warranty

- A. 20, 25, and 35 year manufacturer warranties available. Contact manufacturer for warranty details on painted products.
- B. 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.
- C. 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. 5-V Crimp Series, Naples, FL (239) 594-0530.
- B. Substitutions shall fully comply with specified requirements.

2.02 Materials

A. Panels

Panels shall be custom fabricated from:

- 1. 26 gauge mill finish or pre-painted Galvalume with a baked on Akzo Nobel Ceram-A-Star 950 paint finish.
 - 2. 24 gauge mill finish or pre-painted Galvalume with a full strength Kynar 500 fluorocarbon baked on finish.
 - 3. .032 mill finish or pre-painted aluminum.
 - 4. 16 oz copper.
- B. Exposed fastening system. Recommended fasteners shall be 1 1/2" self-sealing neoprene washer screws.
 - C. 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.
 - D. Caulking shall be polyurethane, and shall be done in a neat manner with excess caulking removed from exposed surfaces.
 - E. On vertical surfaces, a two piece flashing and counter flashing is to be used to allow for proper expansion at vertical surface.

2.03 Fabrication

- A. Fabrication shall be as follows:
 - 1. Panel Width: 23.5" panel coverage
 - 2. Panels have a side lap seam, with a 1/2" seam height
- B. Panels are formed in continuous lengths, full length of detailed runs.
- C. Accessories shall be factory formed in finish and metal thickness, same as the panels.
- D. Oil canning is not a cause for panel rejection and does not affect the integrity or longevity of the metal roof system.

(DCSM 5-V Crimp-2)

2.04 Finish

- A. Refer to manufacturer's standard color chart to determine appropriate color.
- B. 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:

- A. Verify that substrate layout complies with shop drawing layout.
- B. Verify that decking has been inspected and is properly fastened according to standard building codes.
- C. Report any variations and potential problems to the general contractor.
- D. Not start work until unsatisfactory conditions have been corrected.

3.02 Installation

- A. The roofing shall be installed plumb, straight and true to adjacent work.
- B. Panels and accessories shall be installed in compliance with D.C.S.M. installation instructions and details.
- C. Panels shall be fastened to substrate at center rib and at each side rib. Recommended spacing of fasteners are 16" o/c in field, 6" o/c along eaves, and 8" o/c on gable ends.

3.03 Cleaning and Inspection

- A. Clean work in accordance with manufacturer's recommendations.
- B. Complete all items on punch list.
- C. Touch up minor scratches and abrasions.
- D. Remove all excess metal shavings from drilling, pop rivets, etc.
- E. Remove all debris resulting from work under this section.