

D.C.S.M. 1" Mini-Batten Standing Seam Specifications

Part I—General

1.01 Work Included

Furnish all material, labor and equipment to complete installation of the D.C.S.M. 1" Mini-Batten 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. The anchorage system shall be concealed and designed so that the panels are free to move for expansion and contraction.
- C. When required, metal roofing panels and batten caps shall be field formed on the jobsite in continuous lengths. Forming must be done by D.C.S.M. operators. The panels and battens will be available in full-length only.
- D. Recommended that panels be installed over a solid substrate with a maximum clip spacing of 16" o/c. Panels can be installed over open framing.

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 shop drawings and specified tolerances.
 - 2. The final inspection will be conducted to verify that the installation complies with the D.C.S.M. specifications and shop drawings.

1.04 Product Approval

- A. Florida Building Code product approval.
- B. UL-580 Uplift Resistance 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.

1.07 **Storage and Handling**

- A. Store pans and batten caps or coil material to protect from damage on jobsite.
- B. Protect pans and batten caps from adverse job conditions (i.e. moisture) prior to installation.
- C. Protect pans and batten caps 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. 1" Mini-Batten Series Naples, FL (239) 594-0530.
- B. Substitutions shall fully comply with specified requirements.

2.02 **Materials**

- A. Pans and Batten Caps
 - 1. Pans and batten caps shall be custom fabricated from:
 - a. 24 gauge mill finish or pre-painted Galvalume with a full strength Kynar 500 fluorocarbon baked on finish.
 - b. .032 mill finish or pre-painted aluminum.
 - c. 16 oz copper.
 - 2. The seams of the roofing system shall be 14" - 24" o/c, and shall be securely enclosed by 1" high batten caps. Each upturned leg of the pan shall be approximately 7/8" high. The batten caps shall be of the same material, thickness and coatings as the pans..
- B. All fasteners shall be concealed except as shown on the drawings.
- C. Clips shall be made from 24 gauge Galvalume or stainless steel. Clips shall have two hems that hold adjacent panels. Clips shall be one piece and permit panel thermal movement.
- D. 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.
- E. Caulking shall be polyurethane, and shall be done in a neat manner with excess caulking removed from exposed surfaces.

2.03 **Fabrication**

- A. Fabrication shall be as follows:
 - 1. Panel Width: 14" - 24" panel coverage
 - 2. Pan Flange Height: 7/8"
 - 3. Overall Seam Height: 1"
- B. Panels are formed in continuous lengths, full length of detailed runs.
- C. Accessories shall be shop fabricated 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.

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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 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. 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.
- D. No perforations shall be made in roofing by fasteners, except as shown on drawings.
- E. 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

- 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.