

SECTION 05 58 13 - Column Covers
NorthClad® CL Series Column Cover System

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Column covers.

B. Related Sections:

1. Section 01 43 13 - Manufacturer Qualifications
2. Section 01 43 19 - Fabricator Qualifications
3. Section 05 05 13 - Shop-Applied Coatings for Metal
4. Section 05 05 23 - Metal Fastenings
5. Section 05 50 00 - Metal Fabrications
6. Section 07 62 00 - Sheet Metal Flashing and Trim
7. Section 07 90 00 - Joint Protection

1.2 REFERENCES

A. Reference Standards: Current edition at date of Bid.

B. American Architectural Manufacturers Association (AAMA):

1. AAMA 605.2 - Specification for High Performance Organic Coatings on Architectural Extrusions and Panels.

C. ASTM International:

1. ASTM B209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
2. ASTM B117 - Standard Practice for Operating Salt Spray (Fog) Apparatus.
3. ASTM D294 - Method of Tumbler Test for Coke.
4. ASTM D659 - Method of Evaluating Degree of Chalking of Exterior Paints.
5. ASTM D968 - Standard Test Methods for Abrasion Resistance of Organic Coatings by Falling Abrasive.
6. ASTM D2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates.
7. ASTM D2247 - Practice for Testing Water Resistance of Coatings in 100% Relative Humidity.
8. ASTM D3352 - Standard Test Method for Strontium Ion in Brackish Water, Seawater, and Brines.
9. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.

■ Specification Guide

1.3 ADMINISTRATIVE REQUIREMENTS

- A. Coordination and Sequencing of the Work: Conform to Section 01 31 13 for coordination with work of other Sections and Section 01 32 16 to coordinate fabrication schedule with construction progress to avoid delaying the Work.
- B. Preconstruction Meetings: Conform to provisions of Section 01 31 19.
 - 1. Attendance: Contractor, Applicator, Owner, Architect, and those specifically requested to attend.
 - 2. Meeting Time: Minimum 3 weeks prior to beginning work of this Section and related work affecting work of this Section.
 - 3. Location: Project Site.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01 33 00.
- B. Conform to Section 01 81 13 for documentation of LEED Credits contributing to Certification of Project under USGBC LEED-NC 2.2 - Green Building Rating System for sustainable building requirements.
- C. Shop Drawings: Drawing details showing deviations from manufacturer's standard details and details differing from Contract Documents. Include components, metal panel profile, dimensions, joinery dimensions, configurations, and reason for deviation.
- D. Product Data: Manufacturer's technical data, installation instructions, standard detail drawings specific to this project, and accessories showing conformance with specified requirements.
 - 1. Fasteners, including clips, fastener types, and locations.
 - 2. Treatment at edges, terminations, and flashings.
 - 3. Indicate provisions for thermal expansion and contraction.
- E. Product Samples: 3 ½" x 3 ½" showing metal/acm type, gauge/thickness, profile, and specified finish for each specified column cover reflecting the color sample illustrating accepting finish and each color selection.
- F. Manufacturer's Instructions: Indicate installation requirements, rough-in dimensions, special procedures, and conditions requiring special attention.
- G. Sample Warranty: Meet or exceed provisions specified by this Section.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications:
 - 1. Minimum of 5 years' experience in fabricating and supplying metal column covers.
 - 2. Responsible for technical design support as required for system conforming to column cover manufacturer's warranty provisions.
 - 3. Provide review and approval of shop drawings differing from column cover manufacturer's standard details prior to installation and conduct interim inspections during construction.
- B. Installer Qualifications:
 - 1. Able to document a minimum 7 years' experience installing commercial metal column covers.
 - 2. Trained and authorized by metal column cover manufacturer prior to Bid Date.

■ Specification Guide

3. Employ job-site foreman, with minimum of 3 years' experience supervising installation of metal column cover work of this Section, dedicated to Work of this Contract.
4. Foreman: Continuously on site for duration of work of this Section for this Project.

1.6 WARRANTY

- A. Provide warranties under provisions of Section 01 78 36.
- B. Manufacturer Coating Performance Warranty: 20-year warranty against fading, color change, chalking, peeling, cracking, or delaminating of the coating system.
- C. Contractor:
 1. Provide 5-year labor warranty for column cover installation including: flashings, sealants, fasteners, and accessories to ensure a weatherproof system.

PART 2 PRODUCTS

2.1 SYSTEMS

- A. Interlocking Aluminum Column Covers: Install over substrate system.
- B. Select Joint Configuration.

2.2 MANUFACTURERS

- A. Subject to compliance with requirements, provide products manufactured by NorthClad® Rainscreen Solutions: 11831 Beverly Park Road Building C, Everett, Washington 98204, telephone 425-740-3702, E-mail: dkillian@northclad.com. Website: www.northclad.com.
 1. NorthClad® CL: Prefinished NorthClad® CL Series column cover system.
 2. Submit alternate tested systems by other manufacturers/fabricators to architect not less than 30 days prior to bid.

2.3 MATERIALS

- A. Select one of:
 1. Aluminum 3003-H14 mill-finished sheet, post painted.
 - a. Thickness: 0.080, .090, .100 or 0.125 inches. <Select One>
 2. Aluminum Composite material, prefinished: 4 mm. Custom thicknesses may be available from the manufacturer.

2.4 FABRICATION

- A. Standard Fabrications: Aluminum prefinished NorthClad® CL sheets required to maintain tolerances.
- B. Eliminate all scratches and marks caused by fabrication from column cover surfaces.
- C. Expansion/Contraction: Engineer column covers to permit required expansion and contraction using concealed or exposed anchors.

■ Specification Guide

- D. Column Cover Height: maximum 16' without horizontal seams.
- E. Strippable Protective Film (ACM Only): Factory applied for protection of weather face finish and removed upon completion of the panel installation. Failure to remove the film may lead to over-exposure and damage to the column cover panel.
- F. Column cover lines to be sharp, smooth, and free from warps or buckles.

2.5 FASTENERS

- A. Supply fasteners and clips tested to meet provisions of this section.
- B. Concealed Sheet Metal Fasteners: Panhead, self-drilling, self-tapping, non-corrosive fasteners, and as instructed by manufacturer and engineer of record.
- C. Fastener Lengths: Penetrate cold-formed metal framing, subgirts, and other metal framing systems in accordance with the fastener manufacturers' recommendations.

2.6 SYSTEM COMPONENTS

- A. Subgirts: Provide G90 galvanized steel of gauge and spacing for metal column cover system's structural requirements as recommended by the panel manufacturer and in accordance with approved shop drawings. To avoid galvanic reaction, separate dissimilar materials.

2.7 SEALANTS

- A. Conform to Section 07 92 00 and manufacturer's written instructions.

2.8 FINISH

- A. Sheet and Coil Factory Finish for Column Cover:
 - 1. Weather Face: Polyvinylidene Fluoride (PVDF) coil coating with 70 percent Kynar 500 or Hylar 5000 resin content.
 - a. Primer: UV-resistant, 0.210 mil thick epoxy modified acrylic.
 - b. Color Coat: 0.80 mil PVDF.
 - c. Performance:
 - i. Change of Color: Maximum 5 DE (Hunter Units), tested to ASTM D2244.
 - ii. Chalking: No. 8 rating, tested to ASTM D4214, Photographic Reference Standard No. 1 Test Method D659.
 - 2. 4mm ACM Finish for Column Cover:
 - a. Factory Finish: Lumiflon-based fluoropolymer resin coating that meets or exceeds values expressed in AAMA 2605 where relevant to coil coatings.
 - i. Color: [Specify color].
 - ii. Finish Coats: 2 Coat or 3 Coat.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify installation conditions are satisfactory to receive work of this Section before beginning.
- B. Verify substrate installation is complete, flat, and true to plane.

3.2 PREPARATION

- A. Field Measurements: Verify prior to fabrication of metal column covers and flashings.
- B. Electrolytic Protection: Treat contacting surfaces of dissimilar metal of different galvanic range with non-absorptive tape, gaskets, or as instructed by manufacturer.
- C. Protect surrounding areas and surfaces to preclude damage during work of this Section.
- D. Lay out work before beginning installation as necessary for true, plumb, and aligned panel installations.
- E. Verify locations of joints and panel lengths.

3.3 INSTALLATION

- A. Conform to manufacturer's instructions and provisions of Contract Documents.
- B. Install to allow thermal expansion of panels.
- C. Use appropriate techniques for the material selected. Inquire with NorthClad®.
- D. Do not stretch or compress Column Covers.
- E. Secure panels in place with panels aligned and without warp or deflection.
- F. Make cutting and fitting neat, square, and true. Where required, cut, de-burr edges, and clean filings from adjacent surfaces.

3.4 ADJUSTING

- A. Correct identified defects and irregularities.
- B. Replace damaged, soiled, and discolored work.

3.5 CLEANING

- A. Leave installation clean and free from residue and debris from work of this Section.

3.6 PROTECTION

- A. Take measures to protect metal panel installations from construction activities for duration of Project. Do not permit activities that may result in gouging, scratching, or denting of column covers and flashings.

END OF SECTION