

## SECTION 05 58 13 - COLUMN COVERS

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Provide the work of this Section in accordance with requirements of the Contract Documents.
- B. Section includes:
  - 1. Exterior: Snap-together circular metal column covers **CCV-01**.
  - 2. Interior: Snap-together circular metal column covers **CCV-11**.

#### 1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product, including finishing materials.
- B. Sustainable Design Submittals:
  - 1. Building Product Disclosure and Optimization - Sourcing of Raw Materials:
    - a. Extended Producer Responsibility (EPR): Submit documentation indicating that manufacturers have a take back or recycling program for the product purchased.
    - b. Recycled Content: For products having recycled content, indicate percentages by weight of post-consumer and pre-consumer recycled content.
      - 1) Include statement indicating costs for each product having recycled content.
    - c. Regional Materials: For products that are required to comply with requirements for regional materials, indicating location of material manufacturer and point of extraction, harvest, or recovery for each raw material.
      - 1) Include statement indicating distance to Project, cost for each regional material and the fraction by weight that is considered regional.
- C. Shop Drawings: Show fabrication and installation details for column covers.
- D. Samples for Verification: For each type of exposed finish required, prepared on 6-inch (150mm) square Samples of metal of same thickness and material indicated for the Work.
- E. Fabrication Engineering and Design Data Submittal: Submit for metal column covers to verify compliance with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.3 INFORMATIONAL SUBMITTALS

- A. Sustainable Design Submittals:
  - 1. Building Product Disclosure and Optimization - Environmental Product Declarations
    - a. Submit product specific type III EPDs or Industry wide (generic) EPDs, USGBC approved program declaration or products with a publicly available, critically

reviewed life-cycle assessment conforming to ISO 14044 that have at least a cradle to gate scope.

2. Building Product Disclosure and Optimization - Material Ingredients

- a. Material Ingredient Reporting: Submit documentation confirming chemical inventory of products to at least 0.1 % (1000ppm) with at least one of the following:
  - 1) Submit published manufacturer inventory of ingredients identified by name and Chemical Abstract Service Registration Number (CASRN)
  - 2) Submit documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
  - 3) Submit Declare product label indicating that all ingredients have been disclosed down to 1000 ppm or designated as Red List Free or Declared
  - 4) Living Product Challenge
  - 5) Product Lens Certification
  - 6) USGBC approved program.
- b. Material Ingredient Optimization: Submit documentation confirming chemical inventory of products to at least 0.01 % (100ppm) and/or that has a compliant material ingredient optimization report with at least one of the following:
  - 1) Submit GreenScreen V1.2 Benchmark: Third party report prepared by a licensed GreenScreen List Translator, or a full GreenScreen Assessment.
  - 2) Submit third-party verified documentation that product has been certified as Cradle-to-Cradle v3 at the Bronze Level or better
  - 3) Submit third-party verified Cradle to Cradle v3 Material Health certificate at the Bronze Level or better
  - 4) Submit third-party verified Declare product label indicating that all ingredients have been disclosed down to 100 ppm
  - 5) Submit third-party verified documentation that product is Living Product Challenge certified with a Red List Free or LBC Red List Free Declare label.
  - 6) Submit documentation that product has a manufacturer prepared action plan with material inventory to at least 1000 ppm.

**1.4 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: Submit for each type of column cover to include in maintenance manuals.

**1.5 QUALITY ASSURANCE**

- A. Fabricator Qualifications: A firm experienced in producing column covers similar to that indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.
- B. Source Limitations: Obtain each type of column cover of same type and color or finish from one source or producer.
- C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
  - 1. Build mockups of typical interior column covers with bases / bumpers in fabricator's shop.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

## **1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver column covers wrapped in protective coverings and strapped together in suitable packs or in heavy-duty cartons. Remove protective coverings before they stain or bond to finished surfaces.

## **PART 2 - PRODUCTS**

### **2.1 PERFORMANCE REQUIREMENTS**

- A. Fabrication Engineering and Design Data: Engage a qualified professional engineer, as defined in Section 01 33 16, "Fabrication Engineering Design Data," to design metal column covers complying with requirements.

### **2.2 SNAP-TOGETHER COLUMN COVERS**

- A. Manufacturers:
  1. Subject to compliance with requirements, provide products by one of the following but not limited to:
    - a. Fry Reglet Corporation.
    - b. Kanalco Ltd.
    - c. SAF (Southern Aluminum Finishing Company, Inc.).
- B. Form column covers to shapes indicated from metal of type and minimum thickness indicated below. Return vertical edges and bend to form hook that engages continuous mounting clips.
- C. Galvanized Steel Sheet: Commercial grade electro-galvanized steel meeting ASTM A525, Coating Designation A-40 or A-60 with surfaces chemically treated for paint adhesion in accord with ATM D2092, Method A, minimum 16 gauge thickness.
  - a. Finish: Factory baked enamel, powder coat, or fluoropolymer finish.
    - 1) **CCV-01**: Finish to match glazed curtain wall specified in Section 08 44 13 "Glazed Aluminum Curtain Walls".
    - 2) **CCV-11**: Custom color to match existing column covers, Sherwin Williams SW6183 Conservative Gray.
- D. Column covers may be fabricated from prefinished metal sheet in lieu of finishing after fabrication provided unfinished edges are concealed from view.
- E. Increase metal thickness or reinforce with concealed stiffeners, backing materials, or both, as needed to provide flat surfaces where indicated.
- F. Support joints with concealed stiffeners as needed to hold exposed faces of adjoining sheets in flush alignment.

- G. Apply manufacturer's recommended sound-deadening [insulation] [mastic] to backs of column covers.

## **2.3 INSTALLATION ACCESSORIES**

- A. Fasteners: Fabricated from same basic metal and alloy as fastened metal unless otherwise indicated. Do not use metals that are incompatible with materials joined.
  - 1. Provide concealed fasteners for interconnecting column covers and for attaching them to other work unless exposed fasteners are unavoidable or are the standard fastening method.
  - 2. Provide Phillips flat-head machine screws for exposed fasteners unless otherwise indicated.
- B. Sound-Deadening Materials:
  - 1. Insulation: Unfaced, mineral-fiber blanket insulation complying with ASTM C665, Type I, and passing ASTM E136 test.
  - 2. Mastic: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.
- C. Backing Materials: Provided or recommended by column cover manufacturer.
- D. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

## **2.4 FABRICATION, GENERAL**

- A. Coordinate dimensions and attachment methods of column covers with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- B. Form metal to profiles indicated, in maximum lengths to minimize joints. Produce flat, flush surfaces without cracking or grain separation at bends.

## **2.5 GENERAL FINISH REQUIREMENTS**

- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations relative to applying and designating finishes.
- B. Finish designations prefixed by AA conform to the system established by the Aluminum Association for designating aluminum finishes.
- C. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- D. Baked-Enamel Finish: After cleaning and pretreating, apply manufacturer's standard two-coat, baked-on finish consisting of prime coat and thermosetting topcoat to a minimum dry film thickness of 2 mils (0.05 mm).
  - 1. Color and Gloss: To match existing columns.

- E. Powder-Coat Finish: After cleaning and pretreating, apply manufacturer's standard thermosetting polyester or acrylic urethane powder coating with cured-film thickness not less than 1.5 mils (0.04 mm). Prepare, treat, and coat metal to comply with resin manufacturer's written instructions.
  - 1. Color and Gloss: To match existing columns.
- F. Fluoropolymer Finish:
  - 1. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions. Two-coat fluoropolymer finish system consisting of corrosion inhibitive primer and fluoropolymer color coat complying with AAMA 621, containing not less than 50 percent PVDF resin by weight in color coat in not less than 1.2 mils dry thickness.
  - 2. Color and Gloss: To match existing columns.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of column covers.
- B. Proceed with installation after correcting unsatisfactory conditions have been corrected.

#### **3.2 INSTALLATION**

- A. Locate and place column covers plumb and in alignment with adjacent construction. Perform cutting, drilling, and fitting required to install column covers.
  - 1. Do not cut or abrade finishes that cannot be completely restored in the field. Return items with such finishes to the shop for required alterations, followed by complete refinishing, or provide new units as required.
- B. Use concealed anchorages where possible.
- C. Form tight joints with exposed connections accurately fitted together. Provide reveals and openings for sealants and joint fillers as indicated.
- D. Corrosion Protection: Apply bituminous paint or other permanent separation materials on concealed surfaces where metals would otherwise be in direct contact with substrate materials that are incompatible or could result in corrosion or deterioration of either material or finish.

#### **3.3 ADJUSTING AND CLEANING**

- A. Restore finishes damaged during installation and construction period so no evidence remains of correction work. Return items that cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units.

#### **3.4 PROTECTION**

- A. Protect finishes from damage during construction period. Remove temporary protective coverings at time of Substantial Completion.

**END OF SECTION**