

SECTION 05 []

FORMED ALUMINUM COLUMN COVERS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Formed and painted aluminum column covers \

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's technical data for each type of column cover required.
1. Fasteners.
 2. Sealant.
- B. Submittal Drawings: Submit dimensioned drawings for coordination and approval of metal plate wall panels.
1. Drawings shall include thickness, alloys, dimensions, sizes, joints, finishes, attachments, and relationship of adjoining work. Provide full size details of joints, accessories, special details, anchorages and attachment system.
 2. Provide distinction between factory-assembled and field-assembled work.
 3. Indicate verified field dimensions for fabrication of materials.
- C. Warranty: Warranties must be completed in Owner's name and transmitted through the Contractor.
1. Samples warranties for factory workmanship and material/finish to be submitted in advance of submittal drawings.
 2. Final warranty to be delivered at project closeout and shall match the approved sample.

1.03 DELIVERY, STORAGE, AND HANDLING

- A. Protect materials during fabrication, transportation, handling, site storage and installation to prevent damage to the finished work from other trades.
- B. Storage:
1. Store materials indoors if possible
 2. Cover materials with suitable weather tight and ventilated covering when outdoors and store above grade. .
 3. Provide storage of materials to ensure dryness, with positive slope for drainage of moisture.
 4. Do not store panels in contact with other materials that might cause staining, denting, or other surface damage.
 5. Remove strippable protective covering from materials immediately upon installation.
- C. Handle panels in a manner to prevent bending, warping, twisting, and surface damage.

1.04 SITE CONDITIONS

- A. Field Measurements: Contractor shall verify locations of structural members and related dimensions by coordination with trade and by field measurements.
1. Record field measurements on Submittal Drawings and submit to 1 manufacturer before panel fabrication.
 2. Contractor and Installer to coordinate with construction schedule.
 3. Contractor may instruct the factory to fabricate all materials to the dimensions shown on the approved submittal drawings if field measurement verification is not possible. This would be noted on the returned approved submittal drawings.

1.05 WARRANTY

- A. Provide manufacturer warranty, agreeing to correct defects in manufacturing of materials within a two (2) year period after date of Substantial Completion.
- B. Finish Warranty: Provide finish applicator warranty, agreeing to repair finish of column covers that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Finish Warranty Period: Ten (10) years from date of Substantial Completion.
 - 2. Warranty Coverage: In accordance with AAMA standards for 70 percent PVDF resin on requirements.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. NEXGEN Design Systems, Inc.
 - 1. Address: 22 Rutgers Road, Pittsburgh, PA 15205
 - 2. Phone: (412) 458-3832
 - 3. Website: nexgendesignsystems.com
- B. Other manufacturers meeting the requirements of these specifications and drawings must be approved by the Architect prior to the bid date.

2.02 SYSTEMS

- A. Column covers shall be NEXGEN Reveal Series Metal Column Covers
 - 1. [Reveal with sealant] or [reveal with cover]
 - 2. No exposed fasteners will be accepted.

2.03 MATERIALS

- A. Aluminum Plate: Alloy and temper as recommended by manufacturer for application and in compliance with manufacturers design requirements.
 - 1. Aluminum Material: Tension-leveled, fluoropolymer PVDF painted finish, 3003-H14 or equal.
 - 2. Nominal Thickness: 3mm /0.125 inch nominal
 - 3. Weight: Less than 2 lbs per sf.
 - 4. Finish: [Two-Coat Fluoropolymer] [Three-Coat Fluoropolymer] [Four-Coat Fluoropolymer] [Two-Coat Mica Fluoropolymer]
- B. Column Size: As indicated on Drawings and as shown on the approved submittal drawings.
- C. Panel Joints: 0.625 inches as indicated in drawings.

2.04 FABRICATION

- A. General: Fabricate column covers and accessories at factory using manufacturer's standard procedures and processes to minimize field splicing and assembly. Form metal to indicated profiles in maximum sizes to minimize joints. Form bent metal corners to the smallest radius possible without causing grain separation or otherwise damaging the work.
- B. Fabricate column covers using Industry 4.0 Compliant CNC machinery from metal substrate indicated, with vertical edges formed with return leg stiffener configured for fastening. Form vertical and horizontal joints as specified in locations indicated on drawings.
- C. Height of the column shall be up to 13 feet without horizontal joints.

- D. Provide post-finishing of column covers, paint aluminum only after completion of panel fabrication unless working from pre-coated coils.

2.05 FINISHES

- A. Comply with NAAMM's - Metal Finishes Manual for Architectural and Metal Products, for recommendations of designating finishes.
- B. Superior Performance Organic Coating System: AAMA 2605 multiple coat, thermally cured polyvinylidene fluoride (PVDF) resin system.
 - 1. Two-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.
 - 2. Three-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in both color coat and clear topcoat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.
 - 3. Two-Coat Mica Fluoropolymer: AAMA 2605, fluoropolymer finish with suspended mica flakes containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.
 - 4. Four-Coat Fluoropolymer: AAMA 2605, fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat and clear coats. Prepare, pre-treat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' installation instructions.
- C. Field Touch-Up Materials: As recommended by coating applicator for field application.

2.06 ACCESSORIES

- A. Column Cover Accessories: Provide components required for a complete assembly.
- B. Trim Metals: Match material, finish, and color of adjacent wall panels or as indicated in the Drawings.
 - 1. Thickness: 0.040 inch minimum.
- C. Fasteners: Provide self-tapping screws, bolts, nuts, self-locking rivets and bolts, and other suitable fasteners as required for installation. Include washer & shims where needed.
 - 1. Concealed Fasteners: Corrosion-resistant, as recommended by column cover manufacturer for application.
- D. Sub-framing: Galvanized (G90) or aluminum. Provide size and gage as required.
 - 1. Refer to Section [_____].
- E. Sealants: Type recommended by column cover manufacturer for application, meeting requirements of Division 07 Section "Joint Sealants."

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, and Work areas and conditions with Installer present for compliance with requirements for installation tolerances, wall panel supports, and other conditions affecting performance of this Work.
- B. Examine substrate to verify that girts, angles, channels, studs, and other structural members and anchorage have been installed in accordance to approved documents.

~~C.~~

cover manufacturer prior to installation. Report must detail all unsatisfactory conditions that require correction.

- ~~D.C.~~ Installer is to submit a written inspection report of substrate conditions to Architect, Contractor, and column cover manufacturer prior to installation. Report must detail all unsatisfactory conditions that require correction.

PROJECT NO.:
DATE:

PROJECT NAME
PROJECT LOCATION

1. Identify dimensions in conflict with the approved submittal drawings.

3.02 INSTALLATION

- A. Install column covers in accordance with manufacturer's final approved submittal drawings and installation instructions as provided.
- B. Install column covers with proper anchorage and other components for this Work securely in place.
- C. Install shims to plumb substrates as necessary for installation of column covers.
 - 1. Maximum shimming is set at 0.025 inches. Corrections to the substrate shall be at the cost to the Contractor and/or Installer if required.
 - 2. Use only high impact plastic shims.
- D. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by wall panel manufacturer.

3.03 TOLERANCES

- A. Set column covers plumb, level, and true to line. Provide proper support and anchor securely in place. Adjust work to conform to the tolerances indicated below. Tolerances indicated below are maximum, not cumulative.
 - 1. Plumb: 1/4 inch in 20 feet
 - 2. Alignment: Limit offset member alignment to not more than 1/16 inch difference across surfaces.

3.04 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to assist with the initial wall panel installation to include accessories and inspect completed metal wall panel installation.
 - 1. Provide service on the mockup and on the initial 300 SF of actual work.
 - 2. Provide written field report within ten (5) working days of the last day of site work.
- B. Remove, clean, and reinstall metal wall panel and sealant where tests and inspections indicate that they do not comply with specified requirements. Replace metal wall panels that are damaged.
- C. Perform additional tests and inspections, at Contractor's expense, to verify compliance of replaced wall panels or necessary additional work with specified requirements.
- D. Prepare test and inspection reports.

3.05 CLEANING

- A. Upon completion of installation, Installer is to clean finished surfaces as recommended by manufacturer.
- B. Upon completion of installation, Installer is to clear any weep holes and drainage channels of obstructions and dirt.

3.06 PROTECTION

- A. Protect installed products from damage during subsequent construction work by other trades.
- B. Replace products damaged or deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION