



## **SECTION 05 75 30.13 – COLUMN COVERS**

### **PART 1 - GENERAL**

#### **1.1 SUMMARY**

A. Section Includes:

1. Column covers with metal and glass finish with LED Light Panel System.

**NOTE:** LAWA has developed this specification standard for column covers in order to provide a unifying design for the public areas of the terminals while providing long term durability and ease of maintenance.

#### **1.2 PERFORMANCE REQUIREMENTS**

- A. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

#### **1.3 ACTION SUBMITTALS**

- A. Product Data: For each type of product indicated. Include finishing materials.
- B. Shop Drawings: Show fabrication and installation details for column covers.
1. Include plans, elevations, component details, and attachments to other work.
  2. Indicate materials and profiles of each column cover, fittings, joinery, finishes, fasteners, anchorages, and accessory items.
  3. Indicate LED light panel.
- C. Samples for Verification:
1. Stainless Steel: For each type of exposed finish required, prepared on 12-inch square Samples of metal of same thickness and material indicated for the Work.
  2. Laminated Glass with Colored Interlayer: 18 inches square.

#### **1.4 INFORMATIONAL SUBMITTALS**

- A. Coordination Drawings: Show dimensions of structural columns, fireproofing (if any), attachments, and necessary clearances.
- B. Product Certificates: For glass and glazing products, from manufacturer.



## **1.5 CLOSEOUT SUBMITTALS**

- A. Maintenance Data: For stainless-steel finish to include in maintenance manuals.

## **1.6 QUALITY ASSURANCE**

- A. Installer Qualifications: Fabricator of products.
- B. Source Limitations for Glass: Obtain laminated glass from single source from single manufacturer.
- C. Mockups: Build mockups to demonstrate aesthetic effects and set quality standards for fabrication and installation.
  - 1. Construct one mockup of each type of column cover.
  - 2. Approved mockups may not become part of the completed Work.
  - 3. All mockups shall be constructed at the jobsite.
- D. Pre-installation Conference: Conduct conference at Project site.
- E. Column Cover installation shall commence only upon receiving written LAWA approval of the Mock Up.

## **1.7 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.
- B. Store products on elevated platforms in a dry location.

## **1.8 PROJECT CONDITIONS**

- A. Field Measurements: Verify actual locations of walls, columns, beams, and other construction contiguous with column covers by field measurements before fabrication and indicate measurements on Shop Drawings.

## **1.9 COORDINATION**

- A. Coordinate installation of anchorages for column covers. Installation of anchors shall not damage the column reinforcement. Furnish setting drawings, templates, and directions for installing anchorages, including concrete inserts, anchor bolts, and items with integral anchors that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.



- B. Coordinate installation of column covers with adjacent construction to ensure that wall assemblies, flashings, trim, and joint sealants, are protected against damage from the effects of weather, age, corrosion, and other causes.

### **1.10 WARRANTY**

- A. **Manufacturer's Special Warranty on Laminated Glass:** Manufacturer's standard form in which laminated-glass manufacturer agrees to replace laminated-glass units that deteriorate within specified warranty period. Deterioration of laminated glass is defined as defects developed from normal use that are not attributed to glass breakage or to maintaining and cleaning laminated glass contrary to manufacturer's written instructions. Defects include edge separation, delamination materially obstructing vision through glass, and blemishes exceeding those allowed by referenced laminated-glass standard.

1. **Warranty Period:** Five years from date of Substantial Completion.

## **PART 2 - PRODUCTS**

### **2.1 SHEET METAL**

- A. **General:** Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections where exposed to view on finished units.
- B. **Stainless-Steel Sheet:** ASTM A 240/A 240M or ASTM A 666, Type 304, stretcher-leveled standard of flatness.

### **2.2 GLASS AND GLAZING MATERIALS**

- A. **Bent Laminated Glass:** ASTM C 1464, Kind BL, and ASTM C 1172, Kind LA (laminated annealed), Condition A (uncoated), Type I (transparent), Quality-Q3 with two plies of glass and polyvinyl butyral interlayer not less than 0.060 inch thick.
  1. **Glass Color:** Clear.
  2. **Interlayer Color:** White.
  3. **Glass Plies:** 6.0 mm thick, each.

**NOTE:** The bent glass is comprised of 3/16 inch Starphire / .060 #4640/ 3/16 Starphire, flat polish all edges. Glass shall comply with CPSC CFR 1201 Cat II.

- B. **Glazing Cement and Accessories for Structural Glazing:** Glazing cement, setting blocks, shims, and related accessories as recommended or supplied by column cover manufacturer for installing structural glazing.



## **2.3 ILLUMINATION**

- A. LED Light Panel System: Molded clear acrylic (PMMA) 0.3125" thick lens, 0.125" channel around edge, edges, or perimeter, 0.0625" x 0.0625" wire, mesh grid overlay, strings of LEDs in channel around edge, edges, or perimeter with flat metal led covers, flat white plastic sheet on top sides covered with white plastic tape, and low-voltage wire extruding from corner, side, or rear of panel with barrel connector.
- B. Manufacturer:
  - 1. E Connect: 740 Flower Avenue, Venice, CA 90291, Telephone: 310-616-5055
- C. UL Approved.

## **2.4 MISCELLANEOUS MATERIALS**

- A. Sealants, Interior: Non-sag, paintable, non-staining, latex sealant complying with ASTM C 834; of type and grade required to seal joints in column covers; and as recommended in writing by column covers manufacturer.
  - 1. Sealants shall have a VOC content of not more than 250 g/L when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
- B. 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 items and for attaching them to other work unless otherwise indicated.
- C. Nonstructural Anchors: Provide metal expansion sleeve anchors of type, size, and material necessary for type of load and installation indicated, as recommended by manufacturer, unless otherwise indicated.
- D. Anchor Materials for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B 633 or ASTM F 1941 (ASTM F 1941M), Class Fe/Zn 5, unless otherwise indicated.
- E. Isolation Coating: Manufacturer's standard bituminous paint.

## **2.5 FABRICATION, GENERAL**

- A. Shop Assembly: Preassemble column covers items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.
- B. Coordinate dimensions and attachment methods of column covers items with those of adjoining construction to produce integrated assemblies with closely fitting joints and with edges and surfaces aligned unless otherwise indicated.
- C. Form metal to profiles indicated, in maximum lengths to minimize joints. Produce flat, flush surfaces without cracking or grain separation at bends. Fold back exposed edges of



unsupported sheet metal to form a 1/2-inch wide hem on the concealed side, or ease edges to a radius of approximately 1/32 inch and support with concealed stiffeners.

- D. Increase metal thickness or reinforce with concealed stiffeners, backing materials, or both, as needed to provide surface flatness equivalent to stretcher-leveled standard of flatness and sufficient strength for indicated use.
  - 1. Support joints with concealed stiffeners as needed to hold exposed faces of adjoining sheets in flush alignment.
- E. Build in straps, plates, and brackets as needed to support and anchor fabricated items to adjoining construction. Reinforce column covers items as needed to attach and support other construction.
- F. Provide support framing, mounting and attachment clips, splice sleeves, fasteners, and accessories needed to install column cover items.

## **2.6 GLAZING PANEL FABRICATION**

- A. General: Fabricate to sizes and shapes required; provide for proper edge clearance and bite on glazing panels.
  - 1. Clean-cut or flat-grind edges at butt-glazed sealant joints to produce square edges with slight chamfers at junctions of edges and faces
  - 2. Grind smooth exposed edges, including those at open joints, to produce square edges with slight chamfers at junctions of edges and faces.
- B. Glass Column Covers: Factory-bond glass to base and top-rail channels in manufacturer's plant using glazing cement to comply with manufacturer's written specifications.

## **2.7 COLUMN COVERS**

- A. Snap-Together Type: Form column covers to shapes indicated from metal of type and minimum thickness indicated below. Return vertical edges and bend to form hook that will engage continuous mounting clips.
  - 1. 304 Stainless-Steel Sheet: 11 gauge**
    - a. Finish: custom decorative/textured.
    - 2. Form returns at vertical joints to provide hairline V-joints.
    - 3. Fabricate column covers with reveals at horizontal joints produced by forming returns on mating ends of metal column cover sections. Provide snap-in metal filler strips at reveals. Locate horizontal joints as indicated.
    - 4. Fabricate base rings, intermediate reveals, and ceiling rings to match column cover metal finish.
- B. Glass Column Covers: Factory-bond glass to base and top-rail channels in manufacturer's plant using glazing cement to comply with manufacturer's written specifications.



## **2.8 GENERAL FINISH REQUIREMENTS**

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Complete mechanical finishes of flat sheet metal surfaces before fabrication where possible. After fabrication, finish all joints, bends, abrasions, and other surface blemishes to match sheet finish.
- C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- D. 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.

## **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 only after unsatisfactory conditions have been corrected.

### **3.2 INSTALLATION**

- A. Locate and place column covers level and 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. Provide brass or lead washers fitted to screws where needed to protect metal surfaces.
- C. Form tight joints with exposed connections accurately fitted together.
- D. Install concealed gaskets, joint fillers, sealants, and insulation, as the Work progresses, to make interior column covers soundproof and lightproof as applicable to type of fabrication indicated.
- E. 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. Unless otherwise indicated, clean metals by washing thoroughly with clean water and soap, rinsing with clean water, and drying with soft cloths.
- B. 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.
- C. Clean and polish glass as recommended in writing by manufacturer. Wash exposed surfaces in each area of Project not more than four days before date scheduled for inspections that establish date of Substantial Completion.

**3.4 PROTECTION**

- A. Protect finishes of column covers from damage during construction period with temporary protective coverings approved by column cover manufacturer. Remove protective coverings at time of Substantial Completion.

END OF SECTION 05 75 30.13