



SpandrelTech Ltd.
FORMASpan™

July, 2007
Metal Column Covers 05 58 13
[Project]

METAL COLUMN COVERS

SPECIFICATION

This specification has been numbered, organized and formatted in accordance with the MasterFormat, Section Format and Page Format documents published jointly by Construction Specifications Canada (CSC) and Construction Specifications Institute (CSI).

The content of this specification is of general order and must be adapted to the specific requirements of a project. It is offered as a guide to experienced and knowledgeable construction professionals who must assume full responsibility for its interpretation and use. SpandrelTech Ltd. is a panel material supplier only and does not provide installation services.

The square brackets [] containing texts indicate an option to be inserted by the specifier. Remove brackets and unused options before printing.

Part 1. General

1.01 SECTION INCLUDES

- A. Custom fabricated, post finished [aluminum] [stainless steel] column covers.

1.02 RELATED REQUIREMENTS

- A. Structural steel supports to which cladding framing is attached [Section 05 10 00]
- B. Cold formed metal framing [Section 05 40 00]
- C. Board insulation behind cladding [Section 07 21 13]
- D. Joint sealing [Section 07 92 13]

1.03 REFERENCE STANDARDS

- A. ASTM A240/A240M-02, Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
- B. CAN3-S157-[M83 (R2002)], Strength Design in Aluminum.
- C. AA DAF 45-97, Designation System for Aluminum finishes.

1.04 DESIGN REQUIREMENTS

- A. Design column covers to provide for thermal movement of component materials caused by ambient temperature range of 80°C (176°F) without causing buckling, failure of joint seals, undue stress on fasteners or other detrimental effects.

1.05 SUBMITTALS

- A. Submit the following in accordance with Section [01 33 00 - Submittal Procedures]
 - 1. Product Data: Column cover manufacturer's printed product literature and specifications.

2. Samples: Duplicate 300 mm x 300 mm (12" x 12") samples of column cover material, of colour and profile specified.
3. Shop Drawings: Indicate dimensions, profiles, attachment methods, schedule of wall elevations, trim and closure pieces, [fascia], [metal furring] [____], and related work.

B. Warranty: Provide column cover manufacturer's sample warranty certificate.

C. Maintenance Instructions: Provide column cover maintenance and cleaning instructions for [anodized] [painted] finishes.

1.06 QUALITY ASSURANCE

A. Column cover manufacturer: to have minimum of ten projects of similar type in the past 5 years.

B. Installer: to have minimum 5 years' experience installing similar products.

1.07 DELIVERY, STORAGE AND HANDLING

A. Store and protect material in accordance with column cover manufacturer's recommendations

B. Do not expose covers with strippable film to direct sunlight or extreme heat.

C. Discard any damaged products.

1.08 WASTE MANAGEMENT AND DISPOSAL

A. Separate waste materials for [reuse] [and] [recycling] [____] in accordance with Section [01 74 19 - Construction/Demolition Waste Management and Disposal] [____].

B. Divert used metal cut-offs from landfill by disposal [into the on-site metals recycling bin] [removed for disposal at the nearest metal recycling facility] [____].

C. Divert reusable materials for reuse at nearest used building materials facility.

D. Divert unused caulking, sealants, and adhesive materials from landfill through disposal at hazardous material depot.

Part 2. Products

2.01 MANUFACTURERS

A. Acceptable Column Cover Manufacturer: SpandrelTech Ltd., 16 Erin Park Drive, Erin, Ontario N0B 1T0; Tel: (519) 833-9684 or 1-888-833-9684; Fax: (519) 833-0845; Email: sales@spandreltech.com; Web: www.spandreltech.com

B. Substitutions: Not permitted, however requests for substitutions will be considered providing substitute products and methods of execution are submitted at least 10 days prior to bid closing date. Accompany requests with evidence substantiating similarity in quality, including technical data sheet and specifications.

2.02 COLUMN COVER MATERIALS

A. Stainless Steel:

1. SpandrelTech Ltd. "Formaspan" custom fabricated [18] [22] gauge Type 304 stainless steel with [#8 mirror-polished finish] [#4 brushed-satin finish], of shape and dimensions as indicated on the drawings, and completely fabricated prior to finish application.

B. Aluminum:

1. SpandrelTech Ltd. "Formaspan" [3003] [5005] [5052] custom fabricated [2.6 mm (.080")] [2.4 mm (.090")] [3 mm (.125")] thickness aluminum, [square] [rectangular] [round] column covers, of shape and dimensions as indicated on the drawings, and completely fabricated prior to finish application using [anodized finish] [PPG finish] [Valspar finish].

2.03 FABRICATION

A. Factory fabricated with return attachment legs to accommodate installation, to meet design criteria.

B. Tolerances

1. Column cover dimensions: where final dimensions cannot be established by field measurement before completion of column cover manufacturing, make allowance for field adjustments as recommended by manufacturer.
2. Column cover lines, brakes and angles: sharp, true and surfaces free from warp or buckle.

C. Painted Finishes (exposed surfaces)

1. Preformed sheet with factory applied paint finish by approved applicator.
2. [] colour [selected by [Consultant] [Architect] [Engineer] from manufacturer's standard range].
3. Specular gloss [30] units +/- to ASTM D523.
4. Coating thickness: not less than [22] micrometers.
5. Resistance to accelerated weathering for chalk rating of [8], colour fade [5] units or less and erosion rate less than [20%] to ASTM D822 as follows:
 - outdoor exposure period [2500] hours.
 - Humidity resistance exposure period [5000] hours.

D. Anodized finishes

1. [Class 1 (.0007")] [Class 2 (.0004")] clear anodic thickness.
2. Integral colour anodic finish: designation AA-[], [] colour [to match [Consultant's] [Architect's] [Engineer's] sample].
3. Impregnated colour anodic finish: designation AA-[], [] colour [to match [Consultant's] [Architect's] [Engineer's] sample].
4. Electrolytically deposited colour anodic finish: designation AA-[], [] colour [to match [Consultant's] [Architect's] [Engineer's] sample].

E. Touch-up paint: As recommended by column cover manufacturer.

F. Isolation coating: [pvc shims] [bituminous paint] [].

G. Exposed sealants: one-component, silicone base solvent curing, colour to match column covers.

H. Locking: Where access is restricted to authorized personnel, provide locking method at top of column.

PART 3. Execution

3.01 EXAMINATION

A. Before installation examine alignment of structural column and notify [Consultant] [Architect] [Engineer] in writing if column does not comply with requirements of column cover installer.

3.02 INSTALLATION

A. Install covers in accordance with shop drawings. Allow for thermal movement.

B. Maintain following installation tolerances:

1. Maximum offset from true alignment between two adjacent members abutting end to end, in line: 0.75 mm (1/32").

C. As applicable, remove strippable coating from covers as they are erected.

D. Attach covers using concealed fastening methods.

E. Separate dissimilar metals using isolation material.

F. No field cutting or alterations of primary components will be allowed.

G. Erect all parts of the assemblies plumb and true in proper alignment to established lines and grades.

H. Ensure complete nesting of covers on metal framing.

I. Shims shall not be stacked to cause excessive bending or pull-out forces on anchorage assemblies.

J. Install continuous closures at exposed column cover terminations to prevent entry of insects.

3.03 CAULKING

A. Prime all metal surfaces and other surfaces to receive sealant as directed by the sealant manufacturer.

B. Caulk all work of this Section with sealant in strict accordance with Section [07 92 13] and to provide a weather-tight installation.

3.04 CLEANING

A. Anodized finish: Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.

B. Paint finish: Clean panels in accordance with AAMA 2605 Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.

C. Remove excess sealant by moderate use of mineral spirits or other solvent acceptable to sealant manufacturer.

3.05 TOUCH-UP

A. Touch-up with matching paint any minor abrasions at screw heads, lap joints and elsewhere, where exposed in the finished work, to the satisfaction of the [Consultant] [Architect] [Engineer].

3.06 PROTECTION

A. Protect finished Work from damage.

END OF SECTION



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