

**| Expansion Control, Interior Wall and Ceiling
Suggested Specifications | Section 07 95 00**

Part 1 - General

1.01 Summary

- A. This Section includes the following:
1. Architectural joint systems for building interiors. *(delete if not required)*
 2. Architectural joint systems for building exteriors. *(delete if not required)*
 3. Architectural joint systems for open-air structures. *(delete if not required)*
- B. Related Sections include the following:
1. Division 03 Section "Cast-in-Place Concrete" for cast-in architectural-joint-system frames furnished, but not installed, in this Section.
 2. Division 04 Section "Unit Masonry" for masonry wall joint systems.
 3. Division 07 Section "Sheet Metal Roofing" for sheet metal roof joint systems.
 4. Division 07 Section "Sheet Metal Flashing and Trim" for sheet metal wall joint systems.
 5. Division 07 Section "Fire-Resistive Joint Systems" for liquid-applied joint sealants in fire-resistive building joints.
 6. Division 07 Section "Joint Sealants" for liquid-applied joint sealants

1.02 References

- A. American Society for Testing and Materials
1. ASTM E1399

1.03 Definitions

- A. Maximum Joint Width: Widest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- B. Minimum Joint Width: Narrowest linear gap a joint system tolerates and in which it performs its designed function without damaging its functional capabilities.
- C. Lateral Shear Movement Capability
- D. Movement Capability: Value obtained from the difference between widest and narrowest widths of a joint.
- E. Nominal Joint Width: The width of the linear opening specified in practice and in which the joint system is installed.

1.04 Submittals

- A. Shop Drawings: Provide the following for each joint system specified and obtain approval prior to fabrication and shipment of materials to the job site:
1. Placement Drawings: Include line diagrams showing plans, elevations, sections, details, splices, blockout requirement, entire route of each joint system, and attachments to other work. Where joint systems change planes, provide isometric or clearly detailed drawing depicting how components interconnect.

- B. Product Data: Submit copies of manufacturer's latest published literature for materials specified herein for approval and obtain approval before materials are fabricated and delivered to the site. Data to clearly indicate movement capability of cover assemblies and suitability of material used in exterior seal for UV exposure.
- C. Samples for Initial Selection: For each type of joint system indicated.
- D. Certificates - Material test reports from qualified independent testing laboratory indicating and interpreting test results relative to compliance of fire-rated expansion joint assemblies with requirements indicated.

1.05 Quality Assurance

- A. Source Limitations: Obtain all architectural joint systems through one source from a single manufacturer.
- B. Product Options: Drawings indicate size, profiles, and dimensional requirements of architectural joint systems and are based on the specific systems indicated. Refer to Division 01 Section "Product Requirements."
- C. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.
- D. Fire-Test-Response Characteristics: Where indicated, provide architectural joint system and fire-barrier assemblies identical to those of assemblies tested for fire resistance per UL 2079 and/or ASTM E 1966 by a testing and inspecting agency acceptable to authorities having jurisdiction. Fire rating not less than the rating of adjacent construction.
- E. Manufacturer to provide 5-year warranty for all joint covers

1.06 Delivery, Storage and Handling

- A. Delivery: At the time of delivery all materials shall be visually inspected for damage. Any damaged boxes, crates, Expansion Control sections, etc. shall be noted on the receiving ticket and immediately reported to the shipping company and the material manufacturer.
- B. Storage:
 - 1. Material may be stored flat end or on its side.
- C. Handling:
 - A. Material shall be handled in accordance with sound material handling practices and in such a way as to minimize damage.

1.07 Coordination

- A. Coordinate installation of interior wall joint systems with floor and ceiling expansion assemblies to ensure proper transition.

PART 2 PRODUCTS

2.01 Manufacturers

A. Basis of Design – manufactured by Construction Specialties subject to compliance with requirements listed. Expansion Control and related materials herein specified and indicated on the drawings shall be manufactured by: Construction Specialties, 3 Werner Way, Lebanon, NJ 08833. Tel: 800.233.8493. Email: cet@c-sgroup.com. No substitutions.

B. Drawings and specifications are based on manufacturer's literature from Construction Specialties, Inc. drawings and specifications unless otherwise indicated. Other manufacturers must be approved equal by Architect/Owner.

Other manufacturers may be accepted as substitutions only if the manufacturer can demonstrate product compliance with the requirements of the contract documents. Substitution requests must be reviewed prior to bid and must include the following information:

1. Details
2. ASTM- E1399 test reports
3. Mock-ups
4. Reference list of projects with similar products as those specified herein.
5. Sample of written 5-year warranty

2.02 Materials

- A. Aluminum: ASTM B 221, Alloy 6063-T5, 6063-T6, 6063-T52, 6061-T5, 6061-T6, 6061-T51, 6105-T5, 6105-T6, 6005-T5, 6005A-T5, 6005A-T61 for extrusions; ASTM B 209, Alloy 6061-T6, 3003-H14, 5005-H34 for sheet and plate.
1. Apply manufacturer's standard protective coating on aluminum surfaces to be placed in contact with cementitious materials.
 2. Mill Finish: AA-M10 (Mechanical Finish: as fabricated, unspecified).
 3. Class II, Clear Anodic Finish: AA-M12C22A31 (Mechanical Finish: nonspecular as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.010 mm or thicker) complying with AAMA 611.
- B. Stainless Steel: ASTM A167, A240A, A240M - Type 304 for plates, sheet, and strips.
1. Finish: No.4, directional satin.
 - a. Grind and polish surfaces to produce uniform, directionally textured, polished finish indicated, free of cross scratches. Run grain with long dimension of each piece.
 - b. System and designed to function under compression.
 - c. Fire Barriers: Any material or material combination, when fire tested after cycling, designated to resist the passage of flame and hot gases through a movement joint and to meet performance criteria for required rating period.
 - d. Accessories: Manufacturer's standard anchors, clips, fasteners, set screws, spacers, and other accessories compatible with material in contact, as indicated or required for complete installations.

2.03. Architectural Joint Systems for Building Interiors

- A. Architectural Joint System for Interior Wall and Ceiling
- B. Wall-to-Wall Joint Systems: (delete if not required)
 - 1. Basis-of-Design Product: Construction Specialties, Inc. model LAF-2G, LAS-2G
 - 2. Type: Vertical cover panel
 - a. Exposed Metal: Aluminum.
 - i. Panel Finish: Factory applied clear epoxy primer and field applied paint or wall covering.
 - ii. Frame Finish: Class II, clear anodic.
 - 3. Panels held in place with magnet attachment system and incorporate a secondary system comprised of a pre-tensioned shock cord.
 - 4. Covers that utilize turnbars or other similar centering devices limit lateral shear movement and are not acceptable.
 - 5. Fire-Resistance Rating: Provide joint system and fire-barrier assembly with a rating not less than that of adjacent construction. (*delete if not required*).
- C. Wall Corner Joint Systems: (*delete if not required*)
 - 1. Basis-of-Design Product: Construction Specialties, Inc. model LAFC-2G, LASC-2G
 - 2. Type: Vertical cover panel
 - a. Exposed Metal: Aluminum.
 - i. Panel Finish: Factory applied clear epoxy primer and field applied paint or wall covering.
 - ii. Frame Finish: Class II, clear anodic.
 - 3. Panels held in place with magnet attachment system and incorporate a secondary system comprised of a pre-tensioned shock cord.
 - 4. Covers that utilize turnbars or other similar centering devices limit lateral shear movement and are not acceptable.
 - 5. Fire-Resistance Rating: Provide joint system and fire-barrier assembly with a rating not less than that of adjacent construction. (*delete if not required*)
- C. Wall-to-Ceiling Joint Systems: (delete if not required)
 - 1. Basis-of-Design Product: Construction Specialties, Inc. model LAFC-2G, LASC-2G
 - 2. Type: Cover panel
 - a. Exposed Metal: Aluminum.
 - i. Panel Finish: Factory applied clear epoxy primer and field applied paint or wall covering.
 - ii. Frame Finish: Class II, clear anodic.
 - 3. Panels held in place with magnet attachment system and incorporate a secondary system comprised of a pre-tensioned shock cord.
 - 4. Covers that utilize turnbars or other similar centering devices limit lateral shear movement and are not acceptable.
- D. Ceiling-to-Ceiling Joint Systems: (delete if not required)
 - 1. Basis-of-Design Product: Construction Specialties, Inc. model LAF-2G, LAS-2G
 - 2. Type: Cover panel
 - a. Exposed Metal: Aluminum.

- I. Panel Finish: Factory applied clear epoxy primer and field applied paint or wall covering.
 - II. Frame Finish: Class II, clear anodic.
3. Panels held in place with magnet attachment system and incorporate a secondary system comprised of a pre-tensioned shock cord.
 4. Covers that utilize turnbars or other similar centering devices limit lateral shear movement and are not acceptable.

2.04 FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine surfaces and blockouts where architectural joint systems will be installed for installation tolerances and other conditions affecting performance of work.
 1. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Prepare substrates according to architectural joint system manufacturer's written instructions.
- B. Coordinate and furnish anchorages, setting drawings, and instructions for installing joint systems. Provide fasteners of metal, type, and size to suit type of construction indicated and to provide for secure attachment of joint systems.

3.03 INSTALLATION

- A. Comply with manufacturer's written instructions for storing, handling, and installing architectural joint assemblies and materials unless more stringent requirements are indicated.
- B. Metal Frames: Perform cutting, drilling, and fitting required to install joint systems.
 1. Install in true alignment and proper relationship to joints and adjoining finished surfaces measured from established lines and levels.
 2. Adjust for differences between actual structural gap and nominal design gap due to ambient temperature at time of installation. Notify Architect where discrepancies occur that will affect proper joint installation and performance.
 3. Cut and fit ends to accommodate thermal expansion and contraction of metal without buckling of frames.

4. Locate in continuous contact with adjacent surfaces.
 5. Locate anchors at interval recommended by manufacturer, but not less than 3 inches from each end and not more than 24 inches o.c.
- C. Fire-Resistance-Rated Assemblies: Coordinate installation of architectural joint assembly materials and associated work so complete assemblies comply with assembly performance requirements.
1. Fire Barriers: Install fire barriers to provide continuous, uninterrupted fire resistance throughout length of joint, including transitions and field splices.

3.04 PROTECTION

- A. Do not remove protective covering until finish work in adjacent areas is complete. When protective covering is removed, clean exposed metal surfaces to comply with manufacturer's written instructions.
- B. Protect the installation from damage by work of other Sections. Where necessary due to heavy construction traffic, remove and properly store cover plates or seals and install temporary protection over joints. Reinstall cover plates or seals prior to Substantial Completion of the Work.

END OF SECTION