

**SECTION 07 95 13**  
**EXPANSION JOINT COVER ASSEMBLIES**

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.02 SUMMARY

- A. This Section includes the following:
  - 1. Architectural joint systems for building interiors.
- B. Related Sections include the following:
  - 1. Division 07 84 00 Section "Firestopping".
  - 2. Division 07 92 00 Section "Joint Sealants".

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. Movement Capability: Value obtained from the difference between widest and narrowest widths of a joint.
- D. 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.
  - 1. Include manufacturer's color charts showing the standard range of colors and finishes available for each exposed metal and elastomeric seal material.
- 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. Installer Qualifications: Approved by manufacturer.
- B. Source Limitations: Obtain all architectural joint systems through one source from a single manufacturer.
- C. 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 01 33 23.

1. 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. Loading Characteristics: Heavy duty refers to covers that are capable of withstanding up to 2000 lb. point loads.
  - E. 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.
  - F. Manufacturer to provide 5 year warranty for all joint covers.
- PART 2 - PRODUCTS
- 2.01 MATERIALS
- A. Aluminum: ASTM B 221, 6063-T6.
    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).
  - B. Elastomeric Seals: Preformed elastomeric membranes or extrusions to be installed in metal frames.
  - C. Compression Seals: ASTM D2000; preformed rectangular elastomeric extrusions having internal baffle system and designed to function under compression.
  - D. 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.
  - E. Moisture Barrier: 7-ply laminate reinforced Polyethylene.
  - F. 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.
- 2.02 ARCHITECTURAL JOINT SYSTEMS, GENERAL
- A. General: Provide architectural joint systems of design, basic profile, materials, and operation indicated. Provide units with capability to accommodate variations in adjacent surfaces.
  - B. Design architectural joint systems for the following size and movement characteristics:
    1. Nominal Joint Width: 9"
    2. Maximum Joint Width: 4"
    3. Minimum Joint Width: 0".
    4. Lateral Shear Movement Capability: 4"
- 2.03 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING INTERIORS
- A. Construction Specialties, Inc., 6696 Route 405 Highway, Muncy, PA, shall manufacture expansion joint cover assemblies specified herein and indicated on the drawings. 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
  - B. Floor-to-Floor Joint Systems:
    1. Basis-of-Design Product: Construction Specialties, Inc. model *AL-200HD*
    2. Type: Cover plate.
      - a. Exposed Metal: Aluminum.
        - 1) Finish: Mill.
    3. Cover Side Frame Design: Serrated.
    4. Cover Plate Design: Plain
    5. Attachment Method: Mechanical anchors.
    6. Load Capacity: Heavy duty.
    7. Moisture Barrier: Manufacturer's standard.
- 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. Repair concrete slabs and blockouts using manufacturer's recommended repair grout of compressive strength adequate for anticipated structural loadings.
  - C. 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.
  - D. Cast-In Frames: Coordinate and furnish frames to be cast into concrete.
- 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. Standard-Duty Systems: Shim to level where required. Support underside of frames continuously to prevent vertical deflection when in service.
  6. Heavy-Duty Systems: Repair or grout blockout as required for continuous frame support and to bring frame to proper level. Shimming is not allowed.
  7. 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. Seals in Metal Frames: Install elastomeric seals and membranes in frames to comply with manufacturer's written instructions. Install with minimum number of end joints.
    1. Provide in continuous lengths for straight sections.
    2. Seal transitions according to manufacturer's written instructions. Vulcanize or heat-weld field-spliced joints as recommended by manufacturer.
    3. Installation: Mechanically lock seals into frames or adhere to frames with adhesive or pressure-sensitive tape as recommended by manufacturer.
  - D. Compression Seals: Apply adhesive or lubricant adhesive as recommended by manufacturer before installing compression seals.
  - E. Terminate exposed ends of joint assemblies with field- or factory-fabricated termination devices.
  - F. 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.
  - G. Water Barrier: Provide water barrier at exterior joints and where called for on Drawings. Provide drainage fittings where indicated.
- 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.

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