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SECTION 07 95 00

EXPANSION JOINT COVER ASSEMBLIES

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**PART 1 - GENERAL**

1.1 SUMMARY

- A. Section Includes: Provide shop fabricated elastomeric expansion joint cover assemblies, metal and elastomeric types as indicated, including anchors and accessories as required for complete installation.
  - 1. Provide weather-tight exterior joint cover assemblies, with metal retainers, including anchors and accessories as required for complete installation.
- B. Related Work:
  - 1. Section 07 60 00: Flashing and sheet metal.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Pre-Installation Meeting: Convene not less than one week prior to commencing work of this Section. Require attendance of those directly affecting work of this Section.
  - 1. Review installation procedures and coordination required with related work.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's literature for each joint cover assembly.
- B. Shop Drawings: Indicate method of connection to structure.
- C. Samples: Submit samples of each type of exposed finish material.
- D. Certificates: Submit manufacturer representative's certification indicating exterior joint cover assemblies have been installed in accordance with manufacturer recommendations and instructions.

1.4 WARRANTY

- A. Extended Correction Period: Provide for correcting failure of exterior expansion and compression joint cover assemblies to resist wind and to maintain weather-tight closure under anticipated movement and conditions.
  - 1. Period: Two years.

**PART 2 - PRODUCTS**

**2.1 SYSTEMS MANUFACTURERS**

- A. Balco Inc.
- B. Construction Specialties, Inc. C-S Group.
- C. MM Systems, Inc.
- D. Substitutions: Refer to Section 01 25 00.

**2.2 MATERIALS**

- A. System Description: Provide shop fabricated elastomeric expansion joint cover assemblies, metal and elastomeric types as indicated, including anchors and accessories.
  - 1. Provide each type of joint cover assembly as a system from a single manufacturer; provide exterior wall and roof joint cover assemblies from a single manufacturer.
  - 2. Provide factory fabricated connection between exterior wall and roof joint covers.
- B. Regulatory Requirements: Provide systems listed or certified by Underwriters Laboratories (UL), or similar independent testing laboratory accepted by applicable authorities.
  - 1. Fire Rated Assemblies: Provide complete assemblies complying with applicable code requirements for fire ratings matching adjacent construction, and matching construction of listed or approved rated assemblies.
  - 2. Smoke Barriers: Provide fire rated assemblies capable of providing smoke barrier in accordance with applicable code requirements.
- C. Aluminum: ASTM B221 alloy 6063-T5 for extrusions; ASTM B209, alloy 6061-T6, sheet and plate
  - 1. Metal Finishes:
    - a. Aluminum Contact Surfaces on Concrete: Zinc chromate primer.
    - b. Aluminum Covers, Other Than Floors: Clear anodic coating.
  - 2. Wearing Surfaces: Manufacturer's standard, of type shown on Drawings.
  - 3. Protection: Cover exposed metal surfaces with factory-applied adhesive paper or polyvinyl chloride (PVC) protective strippable coating.
- D. Elastomeric Seals: Manufacturer's standard durometer consistent with joint size and application.
  - 1. Functional Seal: ASTM C509 closed cell neoprene as recommended by manufacturer for application indicated and as needed to assure weathertight exterior applications.

2. Visual Seals: ASTM C864 dense silicone; color as selected by Architect from manufacturer's full range of available colors.
  3. Lubricants/Adhesives: Type as recommended by system manufacturer for specific material and application.
  4. Sealants at Elastomeric Seals: Type as recommended by seal manufacturer to maintain integrity of weather barrier.
- E. Accessories: Manufacturer's standard anchors, fasteners, set screws, spacers, flexible seal and filler materials, adhesive and accessories compatible with material in contact.
1. Exterior Anchors: Minimum Series 300 stainless steel.
  2. Elastomeric Seal Corner Angle Reinforcing: Minimum Series 304 stainless steel.

## **2.3 FABRICATION**

- A. General: Furnish basic profile and operating units for expansion joint covers as indicated on Drawings.
1. Expansion and Compression Joint Cover Types: As indicated and as approved by Architect.
- B. Shop Assembly: Assemble items in shop to minimize field splicing and assembly of units at Project site.
- C. Furnish longest practicable lengths to minimize number of end joints.
1. Seals: Continuous between intersections with joints mitered, reinforced with stainless steel angles, and sealed with joint sealer.
  2. Functional Seals: Continuous where possible.
  3. Intermediate Drains: Provide at exterior joint cover assemblies as required to allow water to drain to exterior.
  4. Interior Seals: Continuous between intersections with joints mitered. Reinforce joints with stainless steel angles.
- D. Provide hairline mitered corners where joint changes direction or abuts other material systems.
- E. Provide factory fabricated custom fit end closers at exposed ends of joint cover assemblies.
- F. Provide separator coat between aluminum and dissimilar materials to prevent electrolysis and to protect aluminum.

**PART 3 - EXECUTION****3.1 EXAMINATION**

- A. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication, where possible.
  - 1. Allow for trimming and fitting wherever taking of field measurements before fabrication might delay work.
  - 2. Furnish setting drawings for installation of anchorages to be embedded in adjacent construction; coordinate delivery of such items to Project site so as to prevent delay of construction.
- B. Examine areas and conditions under which expansion joint covers are to be installed.
- C. Coordinate with adjacent systems to ensure acceptable conditions for installation of expansion joint cover assemblies.
- D. Do not proceed with work until unsatisfactory conditions have been corrected, start of installation indicated acceptance of conditions.

**3.2 INSTALLATION**

- A. Manufacturer's Instructions: Comply with manufacturer's instructions and recommendations, including preparation of substrate, applying materials and protection of installed units.
  - 1. Fire Rated Assemblies: Install assemblies using materials and methods as required to provide fire resistant rating matching adjacent material and assembly ratings.
- B. Cutting, Fitting and Placement:
  - 1. Perform cutting, drilling and fitting required for installation.
  - 2. Set work accurately in location, alignment and elevation, plumb, level, true, measured from established lines and levels.
  - 3. Provide temporary bracing or anchors in formwork for items which are to be built into concrete, masonry or similar construction.
  - 4. Install joint cover assemblies in true alignment.
  - 5. Set floor covers to be flush with adjacent finished floor materials.
  - 6. Locate wall, ceiling, and soffit covers in continuous contact with adjacent surfaces; securely attach in place.
  - 7. Hold end joints to minimum; make end joints with strong, rigid, mechanical splice plate in true alignment, with hairline joints.

**3.3 FIELD QUALITY CONTROL**

- A. Manufacturer's Field Services: Manufacturer's representative to visit site and provide written certification indicating exterior expansion joint covers have been installed in accordance with manufacturer recommendations and instructions.
- B. Exterior Joint Covers Water Test: Clean intermediate drains and test to ensure water does flow through expansion joint cover drainage system and is properly directed to building drainage or to building exterior.

**3.4 CLEANING AND PROTECTION**

- A. Do not remove strippable protective material until finish work in adjacent areas is complete.
- B. When protective material is removed, clean exposed metal surfaces in accordance with manufacturer's instructions.

**END OF SECTION**