

DIVISION 7 - THERMAL
SECTION 07 95 00 - EXPANSION JOINT COMPONENTS
PART 1 GENERAL

1.1 SUMMARY

- A. Provide all labor, materials, equipment and services, and perform all operations required for complete installation of Expansion Control and related work as indicated on the drawings and specified herein.
- B. Work Included: The work of this section shall include, but not be limited to the following:
 - 1. Exterior expansion joint seals.
 - 2. Roof expansion joint assemblies.

1.2 QUALITY ASSURANCE

- A. Materials and work shall conform to the latest edition of reference specifications specified herein and to all applicable codes and requirements of local authorities having jurisdiction.
- B. The manufacturer shall have documented experience in expansion joint control covers and systems for parking structures.
- C. The manufacturer shall provide the owner/operator, through the Contractor/Contractor, a preventative maintenance guideline for parking structure expansion joint control systems, as related to the National Parking Association publication "Parking Facility Maintenance Manual".
- D. Fire Performance Characteristics:
 - 1. Fire Resistance - Where indicated, provide expansion joint cover assemblies whose fire resistance and cycling capability has been determined per UL 2079 by Underwriter Laboratories, Inc. Fire rating not less than the rating of adjacent construction.
- E. Loading Characteristics:
 - 1. Floor covers should withstand a point load of 2,000 lbs without damage or permanent deformation.

1.3 SUBMITTALS

- A. Product Data - Submit copies of manufacturer's latest published literature for materials specified herein for approval. Data to clearly indicate movement capability of cover assemblies and suitability of material used.
- B. 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.
- C. Shop Drawings - Submit shop drawings for work specified herein for approval. Shop Drawings showing full extent of expansion joint cover assemblies; include large-scale details indicating profiles of each type of expansion joint cover assembly, splice joints between sections, joinery with other types, special end conditions, anchorage's, fasteners, and relationship to adjoining work and finishes.
- D. Samples - Samples of materials specified herein shall be submitted for approval. Samples shall include the following:
 - 1. Samples of each type of flexible seal to be used in work.

PART 2 PRODUCTS

2.1 GENERAL

- A. Provide an Expansion Joint System capable of accommodating the design and anticipated live-load movements while providing durable watertight performance.
- B. The Expansion Joint System shall consist of a thermoplastic rubber elastomeric membrane element embedded in an ambient cured elastomeric concrete material capable of bonding to the substrate.

2.2 MATERIALS

- A. Extruded Preformed Seals - Single or multi-layered rubber extrusions as classified under ASTM D 2000, designed with or without continuous, longitudinal, internal baffles in black.

2.3 FABRICATION

- A. General - Provide expansion joint cover assemblies of design, basic profile, materials, and operation indicated. Furnish units in longest practicable lengths to minimize number of end joints. Provide hairline-mitered corners where joint changes directions or abut other materials. Include closure materials and transition pieces, tee-joints, corner, curbs, cross-connections, and other accessories as required to provide continuous joint cover assemblies.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Make a thorough examination of all surfaces receiving the work of this Section and before starting the installation, notify the Contractor, in writing, of any defect, which would affect the satisfactory completion of the work of this section.

3.2 PREPARATION

- A. Verify all measurements and dimensions at the job site and cooperate in the coordination and scheduling of the work of this Section with the work of related trades, with particular attention given to the installation of items embedded in concrete and masonry so as not to delay job progress.
- B. Provide all templates as required to related trade for location of all block-out, support or anchorage items.

3.3 INSTALLATION

- A. In addition to requirements of these specifications, comply with manufacturer's instructions and recommendations for all phases of work, including preparation of substrate, applying materials, and protection of installed units.
- B. The expansion joint cover system shall be installed by a manufacturer approved, installer subcontractor, factory trained and certified in the proper installation of the expansion joint system. The Approved installer/subcontractor shall be insured, and licensed, as required, by the appropriate authorities and legal jurisdictions.
- C. The expansion joint cover system shall be installed by the Approved installer subcontractor in strict performance with the manufacturers published guidelines.
 - 1. For straight sections provide preformed seals in continuous lengths.
 - 2. Vulcanize or heat-seal all field splice joints on preformed seal material to provide watertight joints using manufacturer's recommended procedure.
 - 3. Apply manufacturer's approved adhesive, epoxy, or lubricant-adhesive to both

appropriate surfaces prior to installing preformed seal. Seal transitions in accordance with manufacturer's instruction.

3.4 CLEANING AND PROTECTION

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

END OF SECTION