

Series "T"

05800-1  
SECTION 05800  
EXPANSION CONTROL

EXPANSION CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. "T" Series Expansion Joint Covers.
- B. Work included, Drawings and installation processes of the Contract, including General Conditions, Supplementary Conditions and Division-1 General Requirements apply to the work of this section.

1.02 RELATED SECTIONS

- A. Division 3 - Concrete Section.
- B. Division 4 - Masonry Section.
- C. Division 7 - Thermal & Moisture Protection Section.
- D. Division 9 - Finishes Section.

1.03 REFERENCES

- A. ASTM B209 - Standard specification for aluminum and aluminum-alloy sheet and plate.
- B. ASTM D1418-77-CR - Standard specification for rubber and rubber lattices, neoprene (Poly-Chloroprene)
- C. ASTM D1418-77-EPDM - Standard specification for rubber and rubber lattices, EPDM (Ethylene-Propylene-Diene-Polymer)
- D. ASTM A240 - Standard specification for heat-resisting chromium and chromium-nickel stainless steel plate, sheet, and strip for pressure vessels.
- E. ASTM B456 - Standard specification for copper alloy sheet and strip.
- F. ASTM A525-G90 - Standard specification for galvanized sheet steel.

1.04 SYSTEM DESCRIPTION

- A. "T" Series Expansion Joint Covers.
  - 1. "T" Series shall be constructed of aluminum, stainless steel, galvanized steel or copper flanges with EPDM or Neoprene bellows for roof and exterior wall and systems.
  - 2. For 1" to 6" expansion joints.

3. Accommodates up to +/- (100)% of the joint-width movement.
4. Other Features:
  - a. Custom-factory-fabricated transitions and ends.
  - b. Continuous, weather-tight barrier.
  - c. Allow for seismic movement.

#### 1.05 SUBMITTALS

- A. Product Data: Submit, for each type of expansion joint cover assembly specified, the manufacturer's product specifications, installation instructions, details of construction relative to materials, dimensions of individual components, profiles and finishes.
  1. Please note that submissions or substitutions must be made within 10 working days of the general contract award to avoid project delay. If not followed, the Architect will designate the exact product to be used and the contractor will have no recourse.
- B. Certificates: Submit certificates, independent test reports or other documents showing compliance with fire-rating / resistance or other specified requirements.
- C. Shop Drawing: Submit detailed drawings showing layout of expansion joint cover assemblies and all special connections, jointing and accessories which are not completely shown in the manufacturer's data.
- D. Samples: Submit 6" long samples of each expansion joint cover assembly for approval.

#### 1.06 QUALITY ASSURANCE

- A. Single Source Responsibility: Obtain expansion joint cover assemblies from one source from a single manufacturer.

#### 1.07 DELIVERY, STORAGE, AND HANDLING

- A. Storage and Protection: Protect expansion joint cover assemblies from damage, after delivery to site and, before installation.

### PART 2 PRODUCTS

#### 2.01 MANUFACTURERS

- A. Specifications and drawings are based on Architectural Art Mfg., Inc. Products; 6409 Rhode Island Ave; Riverdale MD; Phone: (888) 213-0952, Fax: (800) 897-3129.
- B. Substitutions: Submit proposed substitution in writing to the Architect within 10 days of the bid due date. Submit samples and product data for Architects review and addendum

approval.

## 2.02 MATERIAL

- A. Sheet Aluminum: Alloy 6061-T6, .032".
- B. Stainless Steel: Alloy 304, .018".
- C. Galvanized Steel: 26 GA. G90.
- D. Copper: 16 OZ. sheet.
- E. Neoprene: Type N-60 mill sheet, Standard color: Black.
- F. EPDM: Type E-60 mill sheet, Standard color: Black.

## 2.03 FINISHES

- A. Mill finish: Standard exposed finish.

## 2.04 FABRICATION

- A. Shop assemble components and provide with all required components, anchors and fittings.
- B. Fabricate special transitions, connections, corner fittings, etc. as required.
- C. Fabricate and include fire barrier and components as required for fire rated / resistant installations.
- D. Provide assembled components in single lengths wherever practical.
- E. Provide assembly components of design, basic profile, materials and operation indicated.

## PART 3 EXECUTION

### 3.01 PREPARATION

- A. Verify field measurements on Shop Drawings.

### 3.02 INSTALLATION

- A. Install expansion joint cover assemblies in accordance with manufacturer's instructions for each type of condition encountered.

### 3.03 PROTECTION

- A. Protect expansion joint cover assemblies from damage until adjacent construction is complete.

### 3.04 CLEANING

- A. Do not remove protective material until finish work in

adjacent areas is complete. When protective material is removed, clean exposed metal surface to comply with manufacturer's instructions.