

# SPECIFICATION

Division 07900

## ALCPS-Series System [Aluminum Cover Plate]

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### **PART 1 - GENERAL**

#### **1.01 Work Included**

- A. The work shall consist of furnishing and installing expansion joints in accordance with the details shown on the plans and the requirements of the specifications. The covers are proprietary designs utilizing preformed metal components and anchors.
- B. Related Work
  - Cast-in-place concrete
  - Miscellaneous and ornamental metals
  - Flashing and sheet metal

#### **1.02 Submittals**

- A. Template Drawings - Submit typical expansion joint cross-section(s) indicating pertinent dimensioning, general construction, component connections, and anchorage methods.

#### **1.03 Product Delivery, Storage and Handling**

- A. Deliver products in each manufacturer's original, intact, labeled containers and store under cover in a dry location until installed. Store off the ground, protect from weather and construction activities.

#### **1.04 Acceptable Manufacturer**

- A. All joint covers shall be as designed and manufactured by EMS, Inc., 13311 Main Road, Akron, New York 14001.
- B. Alternate manufacturers and their products will be considered, provided they meet the design concept and are produced of materials that are equal to or superior to those called for in the base product specification.
- C. Any proposed alternate systems must be submitted and receive approval 7 days prior to the bid. All post bid submittals will not be considered. This submission shall be in accordance with MATERIALS AND SUBSTITUTIONS.

Any manufacturer wishing to submit for prior approval must provide the following:

1. A working 6" sample of the proposed system with a letter describing how system is considered superior to the specified system.
2. A project proposal drawing that illustrates the recommended alternate system installed in the vertical construction that is specific to the project. Typical catalog cut sections will not be considered.
3. Any substitution products not adhering to all specification requirements within will not be considered.

### **1.05 Quality Assurance**

- A. Manufacturer: Shall have a minimum ten (5) years' experience specializing in the design and manufacture of Architectural Expansion Control Systems.

## **PART 2 - PRODUCT**

### **2.01 General**

- A. Provide floor joint cover consisting of metal profiles that utilize various metal finishes designed of width and thickness required to satisfy projects movement and loading requirements. Secure cover plate to concrete floor slab by utilizing manufacturer's recommended anchoring system.

Provide joint cover meeting ADA guidelines, Model ALCPS-series as manufactured by EMS, Inc. and as indicated on drawings.

### **2.02 Components and Materials**

- A. Aluminum Shapes - Material to conform to ASTM B221, alloy 6063-T6 (flush floor).
- B. Moisture Barrier (optional) - Shall be a fabric reinforced tear resistant EPDM sheet material. Minimum thickness shall be .026".
- C. Anchorage - Provide minimum 1/4" diameter concrete expansion anchor at maximum 18" o.c. spacing to secure aluminum cover to floor slab.
- D. Accessories - Provide necessary and related parts, and fasteners required for complete installation.
- E. Fire Barrier Assembly - Designed for indicated or required dynamic structural movement without material degradation or fatigue. Tested in maximum joint width conditions with a field splice as a component of the expansion joint cover in accordance with ASTM E-119 at full rated period by a nationally recognized testing and inspecting organization.

### **2.03 Fabrication**

- A. Extrusions to be shipped in standard 10 ft. lengths and shall be cut to length on jobsite where required. Profiles shall be miter cut in the field to conform to directional changes unless otherwise contracted with expansion joint manufacturer.
- B. Anchor holes for corner condition wall mount profile shall be countersunk and field drilled by installing contractor at 12" o.c.
- C. Fire Barriers - Ship manufacturer's standard assembly for the required hourly rating. Fire barrier shall be miter cut in the field to accommodate changes in direction.

### **2.04 Finishes**

- A. All Profiles
  - 1. Standard - Aluminum extrusions shall be supplied in mill finish.

## **PART 3 - EXECUTION**

### **3.01 Installation**

- A. Verify that project conditions are suitable for proper installation of system.
- B. Protect all expansion joint component parts from damage during installation and placement of finish floor materials and thereafter until completion of structure.
- C. Expansion joint systems shall be installed in strict accordance with the manufacturer's typical details and instructions along with the advice of their qualified representative.
- D. Anchor holes for corner condition wall mount profile shall be countersunk and field drilled by installing contractor at 12" o.c.

### **3.02 Clean and Inspect**

- A. Upon completing installation the contractor shall clean all exposed metal surfaces with a suitable cleaner that will not harm or attack the finish. Contact manufacturer should questions arise regarding suitability of any cleaner type prior to its use.

**END OF SECTION**