

SPECIFICATION

Division 078400

EXPANSION JOINT FIRE PROTECTION SYSTEM

EMS, Inc. has developed a two-hour, expansion joint fire barrier designed for use with expansion joint assembly systems. The advantage of the patent pending system over other proprietary systems is its ability to protect with at least 50% parallel lateral shear capacity. The design allows for cost-effective fire protection of expansion and/or seismic joints.

PART 1 -GENERAL

1.01 Summary

A. Work Includes:

- a. Provide Expansion and/or Seismic Joint Fire Protection System as required for complete installation.

B. Related Sections:

- a. Section 079513 - Expansion Joint Assemblies, for expansion joints to be protected by the work of this Section.
- b. Section 072100 – Thermal insulation.
 - i. 3. Section 079200 - For joint sealers.

1.02 System Description

- A. This system has been tested at Underwriters Laboratories® for a two-hour rating. The system was fully pre-cycled for 50% parallel lateral shear, expansion and contraction capacity. It protects against the spread of fire through and expansion and/or seismic joint before and after movement.

1.03 Submittals

- A. Comply with provisions of Section for Submittal Procedures.
- B. Product Data: Submit manufacturer’s complete product data and installation instructions.
- C. Certificates: Provide material test reports from qualified independent testing laboratory indicating and interpreting test results relative to compliance of expansion/seismic joint fire barrier with requirements indicated.
- D. Shop Drawings: Submit shop drawings for approval and obtain approval prior to fabrication and shipment of materials to the job site.

- E. Include large-scale details indicating profile of fire barrier in relation to expansion joint and its attachment to substrate.

1.04 Quality Assurance

- A. Standards: Comply with applicable requirements of the following standards:
 - 1. UL® 2079
 - 2. ASTM E1399

PART 2 -PRODUCTS

2.01 Acceptable Manufacturer

- A. EMS, Inc, 13311 Main Road, Akron, NY 14001

2.02 Materials

- A. Expansion/Seismic Joint: Refer to Section 05810 Expansion Joint Assemblies.
- B. Fire Barrier: Expansion Joint Fire Barrier FB-Series fire barrier designed for required structural movement and two-hour fire protection without material fatigue or degradation.
 - a. Sizes available: Floor 1", 2", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20" (Call Manufacturer for additional sizes)
 - b. Wall: 1", 2", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20" (Call Manufacturer for additional sizes)
 - c. Floor to Wall: 1", 2", 3", 4", 5", 6", 8", 10", 12", 14", 16", 18", 20" (Call Manufacturer for additional sizes)
 - d. Accessories: Galvanized flanges are required for complete installation. No Fire Caulk needed for installation.

PART 3 -EXECUTION

3.01 Examination

- A. Examine all surfaces to receive work from this Section before starting installation. Notify architect in writing of any defect that would affect the satisfactory completion of the work from this Section.

3.02 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 related trades.

3.03 Installation

- A. In addition to the requirements of these specifications, comply with manufacturer's instructions and recommendations for all phases of work including preparation of substrate, installation of materials and protection of installed units.
- B. Install fire barrier in conjunction with expansion joint in accordance with federal, state and local building coded using manufacturer's instructions

END OF SECTION