

## **SECTION 21 05 17 – SLEEVES AND SLEEVE SEALS FOR FIRE SUPPRESSION PIPING**

### **PART 1 - GENERAL**

#### **1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### **1.2 SUMMARY**

- A. Section Includes:
  - 1. Sleeves.
  - 2. Grout.

#### **1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated.

#### **1.4 QUALITY ASSURANCE**

- A. Installer Qualifications:
  - 1. Installer's responsibilities include preparing shop drawing submittals, fabricating, and installation and providing professional engineering services needed to assume engineering responsibility.
    - a. Installer shall be State and Locally Licensed.
- B. References: Sleeves and sleeve seals, installation, and testing shall comply with all applicable codes and referenced design standards:
  - 1. International Building Code - 2015 Edition with DFW amendments
  - 2. International Fire Code - 2015 Edition with DFW amendments
  - 3. NFPA 13, Standard for the Installation of Sprinkler Systems - 2013 Edition.
  - 4. DFW International Airport Design Criteria Manual – Nov 2015 (Rev 2 Oct 2020)
- C. Equipment and components not specifically specified shall be UL Listed for fire protection systems installation.
- D. All components shall be installed free of rust, corrosion, or visible damage. All items not complying with this requirement shall be replaced without cost to the Owner.

## **PART 2 - PRODUCTS**

### **2.1 SLEEVES**

- A. Galvanized Steel-Pipe Sleeves: ASTM A 53/A 53M, Type E, Grade B, Schedule 40, zinc coated, with plain ends.

### **2.2 GROUT**

- A. Standard: ASTM C 1107/C 1107M, Grade B, post-hardening and volume adjusting, dry, hydraulic cement grout.
- B. Characteristics: Non-shrink; recommended for interior and exterior applications.
- C. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.
- D. Packaging: Premixed and factory packaged.

## **PART 3 - EXECUTION**

### **3.1 SLEEVE INSTALLATION**

- A. Install sleeves for piping passing through penetrations in floors, partitions, roofs, and walls where required to maintain any fire ratings.
- B. Install sleeves for piping passing through all masonry or concrete walls or floors.
- C. Fire Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Comply with requirements for firestopping specified in Division 07 Section "Penetration Firestopping."

## **END OF SECTION**