

SECTION 04 0516
GROUTING

PART 1 GENERAL

1.01 RELATED DOCUMENTS

- A. Drawing and general provisions of Contract, including General and Supplementary conditions and Division 1 Specification Sections, apply to this Section.

1.02 COSTS INCLUDED

- A. This Section includes the following:
 - 1. Grouting between the new metal deck and the existing concrete slab and beams.

1.03 SYSTEM PERFORMANCE REQUIREMENTS

- A. Provide non-pervious cellular grout with a maximum density of 50 pounds per cubic foot.

1.04 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for the grout.
- C. Manufacturer's data on proposed pumping equipment
- D. List of experience. See Section 1.6 below.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project in undamaged condition.
- B. Store materials off the ground, under cover, and in dry location.

1.06 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who has completed similar work with a record of successful performance.
 - 1. Installer must have a minimum of five (5) years' experience with this type of grouting work.
 - 2. Installer must be capable of developing a mix design, batching, mixing, handling, and placing this type of grout.
 - 3. Installer shall have successfully completed at least five (5) similar projects during the last three (3) years.
 - 4. Installer must provide a list of at least five (5) similar projects. The list must include the project name, date completed, owners name and owners contact information.

PART 2 – PRODUCTS

2.01 MATERIALS, GENERAL

- A. Comply with referenced grout standard and other requirements specified in this Section applicable to each material indicated.

2.02 GROUT MATERIALS

- A. Portland Cement: ASTM C 150, Type I, II or III.
- B. Fly Ash: Class C or Class F and compatible with foaming agent.
- C. Water: Clean and potable.
- D. Foaming Agent: Conforming to ASTM C796.
- E. Admixtures for water reducing, retarding, accelerating and other specific properties may be used when recommended by the manufacturer of the foaming agent.

2.03 GROUT MIXES.

- A. Range of Cast Density: 35 to 50 pounds per cubic foot.

- B. Minimum 28 day compressive strength – 200 PSI
- C. Flow Consistency per ASTM D6103 Greater than 7”.

PART 3 – EXECUTION

3.01 INSTALLATION, GENERAL

- A. Comply with referenced standard and other requirements indicated applicable to each type of installation included in Project.
- B. Provide vent holes to allow for trapped air to be removed and to monitor that grout has completely filled the cavity as per manufacturer’s recommendations.

END OF SECTION