

Special Specification 7246

Sand Filtration System



1. DESCRIPTION

Furnish materials for the construction of sand filtration system as shown on the plans.

2. MATERIALS

Use sand, which is clean, washed, and free of organic matter with a diameter from 0.02 to 0.04 in.

Use gravel filter under drain which is clean, washed, and free of organic matter with a diameter from 1/2 in. to 2 in.

Use Geotextile fabric that meets the following specifications:

Table 1
Geotextile Fabric Specifications

Property	Test Method	Unit	Specification
Material	Non-Woven Geotextile		
Unit Weight		oz. / sq. yd.	8. (Min)
Filtration Rate		in. / sec.	0.08 (Min)
Puncture Strength	ASTM D-751	lb.	125. (Min)
Mullen Burst Strength	ASTM D-751	psi	400. (Min)
Tensile Strength	ASTM D-1682	lb.	200. (Min)
Equiv. opening			
Equiv. Opening Size	US Standard	No.	80. (Min)

For Schedule 40, perforated and non-perforated PVC piping provide fittings, tapping sleeves, couplings, and cleanouts necessary for the piping system located in the filtration bed. Include perforations according to details and dimensions shown on the plans or as directed. Provide SDR-35 drain lines outside of the filtration bed, located in the trenches. Furnish pipe in accordance with the Item 481, "PVC Pipe for Drains."

3. CONSTRUCTION

Perform work in accordance with Item 110, "Excavation." Place sand filtration system according to details and dimensions shown on the plans or as directed.

4. MEASUREMENT

This item will be measured by each filtration system.

5. PAYMENT

The work performed and materials furnished, in accordance with this Item and measured as provided under "Measurement," will be paid for at the unit price bid for "Sand Filtration System."

This price is full compensation for all excavation; for furnishing and placing all PVC pipes and fittings, cleanouts, gravel, geotextile fabric, pipe bedding, outfall piping and aggregate, and sediment depth marker; and for all labor, hauling, tools, equipment, and incidentals.