

FILL, STANDARD COMPACTION**CIVIL
STANDARD ENGINEERING SPECIFICATION**

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SC 4 E**1. SCOPE**

This specification describes the materials and methods of placing and compacting fills with standard compaction.

2. GENERAL

Specification SC1A applies to and is a part of this specification.

3. MATERIALS

Materials shall be approved clean inorganic soils, which shall be free from objectionable substances which prevent satisfactory compaction.

4. PREPARATION

Clearing, grubbing, demolition, excavation, and removal of all topsoil shall be completed in accordance with SC1E, SC2E, and SC3E, before placing fill.

5. PLACING

5.1 The soil shall be deposited and spread in successive, uniform, nearly horizontal layers. All fills shall be placed in layers not to exceed 12 inches in loose thickness. Each layer of fill, before starting the next, shall be compacted as described in section 6. Movement of vehicles and equipment shall be distributed over the full width of the fill area to prevent tracking and aid compaction.

5.2 Rock or gravel shall be distributed throughout the fill in uniform, nearly horizontal layers. Before proceeding with the next layer, all interstices of the foregoing layer shall be thoroughly filled with fine material, to secure maximum density. No rock fill shall be placed within 12 inches of finished grade.

5.3 Suitable allowances should be made for shrinkage in fill construction.

6. COMPACTION

Fill shall be compacted, layer by layer, by routing the earthwork equipment over the entire area, or by rolling until uniformly compacted. In places inaccessible to such equipment, the fill material shall be compacted with approved hand or mechanical backfill tampers. The materials shall be damp, but not wet, during compaction.

7. DRAINAGE

Drainage, both temporary and permanent, shall be constructed and maintained during the performance of the work. The surface of unfinished fills shall be bladed smooth to a crown or grade at the conclusion of the day's work, or before shutdown for any cause, to permit the run-off of water.

8. BORROW

Borrow, when required to complete fill material requirements, shall conform to SC6E.

9. MEASUREMENT

9.1 Method of measurement for pay quantities under unit prices shall be on a cubic-yard basis. If fill is being accomplished by cut-and-fill method or from borrow pits, on which sections may be taken, unit prices paid for excavation shall cover payment for fill.

9.2 If fill is furnished from sources which have not been measured by Du Pont, quantities will be determined from compacted material in place by cross sections made by Du Pont of the original and final surfaces.

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