

SECTION 260 PROOF ROLLING

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260-1 DESCRIPTION

Furnish and operate at the direction of the Engineer, heavy pneumatic tired compaction equipment for compacting the roadbed and testing the roadbed for stability and uniformity of compaction.

260-2 EQUIPMENT

Provide equipment with the following features:

- (A) Four rubber tired wheels mounted on a rigid steel frame,
- (B) Wheels evenly spaced in one line across the width of the roller and arranged so that all wheels will carry approximately equal loads when operated over an uneven surface,
- (C) Maximum center to center spacing between adjacent wheels is 32 inches,
- (D) Load capacity from 48 to 50 tons unless otherwise permitted in writing,
- (E) Cover or construct the loaded roller to not trap water that will add weight to the ballast,
- (F) Other equipment of equal or better effectiveness may be substituted with written permission, and
- (G) Tire pressures shall be between 68 and 72 lb/sq.in. unless otherwise permitted in writing. Inflate tires with air only; use no liquid.

Provide ballasts consisting of bulk sand, bulk stone, bags of sand, stone or other materials of known unit weight such that the total weight of the ballast used can be readily determined at all times. Provide a sufficient amount of ballast to load the equipment to a maximum gross weight of 50 tons.

Use rubber tired or other types of tractive equipment for operation of this equipment on the roadbed. The entire assembly including motivating equipment shall be capable of executing a 180° turn on a 27 feet wide area.

260-3 CONSTRUCTION METHODS

After the roadbed has been completed within 0.5 feet of final grade, compact and test the roadbed with one coverage, unless otherwise directed, with a heavy pneumatic tired roller in accordance with Article 260-2. Coverage is considered that stage in the rolling procedure when the entire width of the area being proof rolled has been in contact with the pneumatic tires of the roller. Operate the roller systematically so the number of coverages over all areas to be proof rolled can be readily determined and recorded.

Operate the equipment at a speed between 225 feet per minute and 300 feet per minute. Perform proof rolling only in the presence of the Engineer. Proof roll areas again following the completion of the necessary corrections.

Protect all structural facilities on the project, such as, but not limited to, bridges, box culverts, pipe culverts and utilities, from damage by the proof rolling equipment. Protection may include unloading and reloading of the roller, detouring, protective earth pads or other suitable measure to avoid damage.

260-4 MEASUREMENT AND PAYMENT

Proof Rolling will be measured and paid as the actual number of hours, measured to the nearest 0.1 hour, during which the heavy pneumatic tired roller has been engaged in proof rolling in the presence of the Engineer, exclusive of hours of proof rolling performed following corrective action made necessary by the negligence of the Contractor or by weather.

Section 265

1 Corrective work necessary, as determined by proof rolling, and not due to negligence of the
2 Contractor or to weather, will be paid at the applicable contract unit prices or as extra work,
3 whichever may apply.

4 Proof rolling after corrective work will be at no cost to the Department if the corrections are
5 necessary due to the negligence of the Contractor or weather.

6 Payment includes furnishing all labor, equipment, fuel and ballast for loading, loading and
7 unloading ballast as directed and increasing and decreasing tire pressure as directed.

8 Payment will be made under:

Pay Item	Pay Unit
Proof Rolling	Hour

9 **SECTION 265**
10 **SELECT GRANULAR MATERIAL**

11 **265-1 DESCRIPTION**

12 Furnish and place select granular material in accordance with the contract and as directed.

13 **265-2 MATERIALS**

14 Refer to Division 10.

Item	Section
Select Material, Class II	1016
Select Material, Class III	1016

15 Use Class II or III select material for select granular material except when contract includes
16 pay item for *Select Granular Material, Class III*. When this occurs, use only Class III select
17 material for select granular material.

18 **265-3 CONSTRUCTION METHODS**

19 Use only Class III select material for embankments in water.

20 Place select granular material up to 3 feet above geotextile for soil stabilization and the water
21 level.

22 **265-4 MEASUREMENT AND PAYMENT**

23 Select granular material will be paid as *Select Granular Material* or *Select Granular Material,*
24 *Class III* unless the material is obtained from the same source as the borrow material and the
25 contract includes a pay item for *Borrow Excavation*. When this occurs, select granular
26 material will be paid at the lower bid price per cubic yard for either *Borrow Excavation* or
27 *Select Granular Material / Select Granular Material, Class III*.

28 *Select Granular Material and Select Granular Material, Class III* will be measured and paid
29 in cubic yards. When undercut excavation is in accordance with Section 226 and the
30 Engineer requires undercut to be backfilled with select granular material, the second sentence
31 of the sixth paragraph of Article 226-3 will not apply, as payment for the backfill will be
32 made as described in this article.

33 Select granular material will be measured by in place measurement in accordance with
34 Article 230-5 or by weighing material in trucks in accordance with Article 106-7 as
35 determined by the Engineer. When select granular material is weighed in trucks, a unit
36 weight of 135 pcf will be used to convert the weight of select granular material to cubic yards.
37 At the Engineer’s discretion, truck measurement in accordance with Article 230-5 may be
38 used instead of weighing material in trucks.