

SURFACE REQUIREMENTS.

(REV 9-23-02) (FA 10-21-02) (7-03)

ARTICLE 330-12 (Pages 239-242) is expanded by the following new Subarticle:

330-12.6 Acceptance Testing for Pavement Smoothness by Laser Profiler: The Department will perform acceptance testing on the completed pavement surface with regard to smoothness. The pavement smoothness will be determined by a Laser Profiler on Limited Access or other high-speed roadways where the design speed is equal to or greater than 50 miles per hour [80 km per hour]. Testing will be performed on mainline traffic lanes only.

Ramps, acceleration and deceleration lanes, bridge approaches, and other areas not suitable for testing with the Laser Profiler will be tested for acceptance in accordance with 330-12.3.

The pavement smoothness as determined by the Laser Profiler will be expressed as a Ride Number (RN), in accordance with ASTM E 1489.

330-12.6.2 Requirements for Last Layer Prior to Friction Course:

Straightedge the pavement behind the compaction operation. Correct all deficiencies in excess of 3/16 inch [5 mm] in accordance with 330-12.4.

330-12.6.3 Acceptance Criteria for Friction Course: Upon completion of the friction course, the pavement smoothness of each lane will be determined by a single pass of the Laser Profiler furnished and operated by the Department in accordance with FM 5-549. In no case will the pavement be retested once the smoothness is determined. For evaluation purposes, the pavement will be divided into 0.1 mile [0.1 km] LOTs. Upon completion of the testing, the Engineer will furnish a test report documenting the RN of each individual LOT. The RN will be calculated to two decimal places. The acceptance criteria for pavement smoothness is shown in Table 330-3.

Table 330-3	
Ride Number (RN)	Method of Acceptance
Greater than or equal to 4.00	Acceptance with full payment
3.99 to 3.70	See Note 1
Less than 3.70	See Note 2
Note 1: For all LOTs with a RN ranging from 3.70 to 3.99, correct all deficiencies in excess of 3/16 inch [5 mm] within the LOT as identified by the 15 foot [4.572 m] rolling straightedge. Notify the Engineer of the location and time of correction a minimum of 48 hours before beginning the correction operation. Perform all corrections in accordance with 330-12.4 (a). Upon completion of the corrections, straightedge the pavement with a 15 foot [4.572 m] rolling straightedge as observed by the Engineer. Assure that there are no deficiencies greater than 3/16 inch [5 mm] in the LOT.	
Note 2: For all LOTs with a RN less than 3.70, remove and replace the entire LOT in accordance with 330-12.4.	

The Engineer may waive the corrections and penalties of the LOT(s) if the deficiencies are caused by manholes, valve boxes, intersections, etc. that are beyond the control of Contractor.