

Pavement Smoothness Requirements for Industrial Facilities

This document provides guideline specifications useful for developing project specifications for pavement smoothness for industrial facilities. It is not applicable to conventional roadways such as highways or city streets or floors or interiors of facilities. This guideline should not be used as a specification referenced in contract documents.

This document does not address requirements such as the American Disability Act and assumes the specifier is aware of all regulatory issues regarding the construction of the industrial facility. These facilities are designed primarily for functional purposes and do not require a high degree of pavement smoothness to achieve ride comfort for high speed vehicles. Instead, the facilities must accommodate drainage features and appertances such as lighting stands, manholes, landscaping, water valves, curbs, etc that must all be integrated into the final pavement surface.

APPLICABILITY

This guide specification is directly applicable to the parking and trafficked roadways of an industrial facility. The specification is intended only to provide reasonable conformance to the line and grade requirements.

1.0 General

PS-1.01 Description of Work: The work consists of providing equipment and personnel necessary to conduct surface tolerance testing of the finished pavement surface. Surface testing is intended to rely on spot checks to ensure conformance to these requirements. It is not intended to require full surface testing unless it is necessary to identify significant areas of deficient pavement.

2.0 Equipment

PS-2.01 Equipment: Equipment shall consist of a 12 ft straightedge measurement device. The straightedge will be straight with no bends or damaged surfaces. The straightedge shall completely conform along its test edge when laid on a perfectly flat surface.

3.0 Straight Edge Testing

PS-3.01 Acceptance Requirements: Surface tolerance testing will be conducted at all locations except those indicated below. The pavement surface will not deviate from the bottom of the straight edge by more than ½ inch anywhere along its length. The following locations are exemptions to the surface requirements: Manholes, water valves, drainage inlets, light fixture stands, valley gutters or drainage features, designated grade breaks or conflicting grades such as crowns, isolation joints, edge slump, and hand tooling for specific features.

6.0 Correction of Deficient Areas

PS-6.01 General: Areas which do not meet the required surface tolerances will be diamond ground to bring them to within tolerance.

7.0 Payment

PS-7.01 General: The work necessary to achieve the specified surface tolerance is considered incidental to the concrete paving and no additional payment will occur for meeting the surface tolerance requirements or any necessary corrective action.