

Australian/New Zealand Standard™

AS/NZS 2891.14.4:2013

Methods of sampling and testing asphalt

Method 14.4: Field density tests—Calibration of nuclear surface moisture-density gauge—Backscatter mode

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CE-006, Asphalt and Sprayed Surfacing, to supersede AS/NZS 2891.14.4:1999.

METHOD

1 SCOPE

This Standard sets out the method for the calibration of the density system of a nuclear surface moisture-density gauge, using standard blocks, when operated in the backscatter mode. The calibration equation, so derived, defines the relationship between the density count ratio and field density. An adjustment to the calibration equation is determined for each material tested from measurements of field density tested in accordance with AS/NZS 2891.14.1.2.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

- 1289 Methods of testing soils for engineering purposes
 1289.5.8.4 Method 5.8.4: Soil compaction and density tests—Nuclear surface moisture-density gauges—Calibration using standard blocks

AS/NZS

- 2891 Methods of sampling and testing asphalt
 2891.14.1.2 Method 14.1.2: Field density tests—Determination of field density of compacted asphalt using a nuclear surface moisture-density gauge—Backscatter mode