

STANDARDS ASSOCIATION OF AUSTRALIA

Australian Standard

METHODS OF SAMPLING AND TESTING RETROREFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES**PART 3—RAISED PAVEMENT MARKERS (RETROREFLECTIVE AND NON-RETROREFLECTIVE)**

AS 2445.3.1

SAMPLING AND CONDITIONING OF SAMPLES

1 SCOPE. This standard sets out the methods of sampling and conditioning retroreflective and non-retroreflective raised pavement markers prior to testing for compliance with the requirements of AS 1906, Part 3.

2 REFERENCED DOCUMENT. The following standard is referred to in this standard:
 AS 1906 Retroreflective Materials and Devices for Road Traffic Control Purposes
 Part 3—Raised Pavement Markers (Retroreflective and Non-retroreflective)

3 GENERAL. Samples are conditioned for testing as follows:

- (a) *For testing the reflective properties.* Prior to the determination of CIL values, Type A and Type A/B markers are conditioned by exposure to traffic in accordance with Clause 4.1.2. Type B and Type A/B are tested in the new condition for determination of luminance factor.
- (b) *For testing the general physical properties.* All markers are tested in the new condition.

4 SAMPLES FOR REFLECTIVE PROPERTIES.

4.1 Type A and Type A/B Markers—CIL Values.

4.1.1 Initial sampling of markers. For the purpose of testing Type A and Type A/B markers for compliance with the minimum CIL value requirements specified in AS 1906, Part 3, an initial sample of a minimum of 40 new clean markers of any one batch of any type/size/colour combination shall be selected at random and conditioned in accordance with Clause 4.1.2.

NOTE: The initial sample should be large enough to allow for losses of markers during the conditioning by traffic.

4.1.2 Conditioning of sample. Markers shall be exposed for 8 weeks to the following traffic conditions:

- (a) The markers shall be installed on a straight section of road, having two lanes flowing in the same direction with the absence of significant weaving manoeuvres.
- (b) The markers shall be installed in a pattern which simulates normal lane marking.
- (c) The traffic volume shall be of approximately 6000 vehicles/day/lane AADT with 7 percent to 12 percent commercial vehicles.
- (d) The lane width shall be not less than 3.2 m and not more than 3.7 m.
- (e) The carriageway shall be kerbed or have sealed shoulders.

4.1.3 Test sample. The sample for testing shall consist of 30 markers which have been exposed to the traffic conditions as described in Clause 4.1.2. They shall be chosen at random, and either tested in place or removed to the laboratory for testing. Care shall be taken such that accumulated dirt on the faces of the markers is not disturbed.

4.2 Type B and Type A/B Markers—Luminance Factor. For the purpose of testing Type B and Type A/B markers for compliance with the minimum luminance factor requirements specified in AS 1906, Part 3, a sample of 30 new clean markers of any one batch of any type/size/colour combination shall be selected at random.