

NOTES TO THE SPECIFICATION FOR LONG-LIFE PAVEMENT MARKING MATERIAL APPLICATOR TESTING

1. Introduction

The basis of the NZTA T12 Specification is as follows:

1. The format of T12 is similar to NZTA/NZRF T8
2. Technical requirements of the applicators are the responsibility of the Contractor/Owner
3. Compliance to all relevant Legislation such as the HSE Act, Fire Control, etc is the responsibility of the Contractor/Owner
4. Marking requirements are not to be specified in T12
5. Pavement marking requirements to be as are specified by NZTA Specifications, MOTSAM, or the Traffic Control Devices (TCD) Manual these are used to provide appropriate acceptance criteria. Where NZTA Specifications are unavailable, the Contractor/Owner is required to specify the requirements prior to testing. Product or process Licence Agreements may be the source of such requirements.
6. Where no tolerances are specified in New Zealand documents, the general marking tolerances as specified by MOT UK will be applied.
7. The Certificate of Compliance or Test Report is aimed at providing a clear description of the tests carried out on the applicator without prejudice to material type.
8. Initial certification is to be carried out by Independent Issuing Officer to an agreed Schedule
9. Appropriately registered Testing Officers conduct continuing certification to the Schedule
10. Any extension to Schedule would require re-certification by Issuing Officer.
11. The purpose of the T12 tests is to demonstrate the applicator's ability to apply markings to specified requirements.
12. The tests are described in a series of Schedules that relate to the marking and or process type.
13. Marking material composition does not restrict the schedules.

14. Three test schedules are used to cover the line characteristics applicable for NZTA T12 testing, these are as follows:
- (i) Schedule One - Plain Flat Markings:
Tolerances as specified in NZTA Specifications
Test 1 for plain markings and Test 2 for segmented lines.
Tests to cover the range in line widths.
Note: A variety of materials may be used
 - (ii) Schedule Two - Audio-tactile:
Tolerances to be specified in MOTSAM, the TCD Manual or approved by the NZTA
Tests to cover the range in line widths.
Note: A variety of materials may be used
 - (iii) Schedule Three - Profiled/Embossed:
Tolerances to be specified prior to commencement of tests
Tests 1, 2 as above.
Tests to cover the range in line widths.
Note: A variety of materials may be used
15. Schedule Three is used to cover the testing of all Licensed or un-Licensed modifications to plain thermoplastic and other structures/products applied using mechanical applicators.
16. The Certificates of Compliance are of a report styled format aimed at providing all relevant information and making reference to such information as Licensed product descriptions etc.
17. It is envisaged that this report would be reissued by the Testing Officers with the only alterations being with regard to changes in application information and equipment replacement/repairs.

2. Significant changes to NZTA T12 Specification 2013 version

- 1. Inclusion of NZTA M24 and NZTA P30
- 2. Inclusion of NZTA T18 for thermoplastic pre-melters and heating systems
- 3. Modification to include small pedestrian controlled applicators which do not have automatic line spacing capabilities
- 4. Development of applicator classification system, as follows:
 - 4.1 Type LA – an applicator which is principally designed for applying longer run longitudinal markings applied to State Highways such as edge-lines, centre-lines, etc, and cannot apply minor markings without the aid of templates, etc.
 - 4.2 Type LB – an applicator which although can apply longitudinal markings is capable of applying minor markings such as arrows, limit lines, alphabetic & numeric characters, diagonal hatching, centre line before limit lines, etc.

- 4.3 Type LC – an applicator which although can apply minor markings such as arrows, limit lines, alphabetic & numeric characters, diagonal hatching, centre line before limit lines, etc, cannot automatically apply intermittent lines.
- 5. Improved description of tests required