Transport Roads & Maritime Services

NSW GOVERNMENT

Test method T662

Compaction of asphalt test specimens (Using a gyratory compactor)

NOVEMBER 2012

Revision Summary

Ed/Rev Number	Clause Number	Description of Revision	Authorisation	Date
Ed 1/ Rev 0	All	New test method to allow for warm mix asphalt	J Friedrich	July 2011
Ed 2/ Rev 0	All	Reformatted RMS template	J. Friedrich	November 2012

Note that Roads and Maritime Services is hereafter referred to as 'RMS'.

The most recent revision to Test method T662 (other than minor editorial changes) are indicated by a vertical line in the margin as shown here.

Test method T662

Compaction of asphalt test specimens (Using a gyratory compactor)

1. Scope

This method sets out the procedure to compact asphalt test specimens using a gyratory compactor.

2. General

(a) The method is for hot asphalt mixes (HMA) and warm mix asphalt (WMA).

(b) The following document is referred to in this Test Method:

(i) AS 2891.2.2 Methods of sampling and testing asphalt - Sample preparation - Compaction of asphalt test specimens using a gyratory compactor.

(ii) T661 Mixing, quartering and conditioning of asphalt prepared in the laboratory.

3. Apparatus, Preparation, Procedure, Calculations and Reporting

This test method is identical to AS 2891.2.2 except for the following amendments:

(i) Replace Clause 4 Conditioning and Compaction Temperatures for Asphalt Mixes and all reference to Clause 4 with Table 1 below.

(ii) Replace Clause 5.1 with:

5.1 Sampling in the laboratory: Condition the laboratory mixed asphalt in accordance with T661.
While conditioning the asphalt carry out Clause 6(a), (b) and (c).
Immediately after the conditioning period continue from Clause 6(d).

(iii) In Clause 6(f) option (i) is used unless otherwise specified.

(iv) Include reference to this test method in the report.

Table 1 – Conditioning and Compaction Temperatures for Asphalt Mixes

Mix & binder type	Asphalt Conditioning Temperature (°C)	Asphalt Compaction Temperature (°C)
Dense graded HMA		
C320	150 ± 5	150 ± 5
AR450	150 ± 5	150 ± 5
C600	155 ± 5	155 ± 5
Multigrade 1000/320	155 ± 5	155 ± 5
Modified Binders	160 ± 5	160 ± 5
Open graded HMA		
Modified Binders	135 ± 5	135 ± 5
WMA		
All	See Note (3)	See Note (3)

NOTES: (3) The temperature specified by the manufacturer of the additive or process used by the manufacturer with a tolerance of ± 5°C.

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