

**MATERIALS TEST METHODS****VOLUME 1****REVISION REGISTER**

<b>Method Number</b>	<b>Revision Date</b>	<b>Pages/Clauses Affected</b>	<b>Comment</b>	<b>Authorised</b>
<b>T 203</b>	<b>Jul 2002</b>	<b>Clause 6</b>	<b>Report to nearest 0.2% instead of 0.5%</b>	<b>General Manager, Pavements Branch</b>
<b>T 375</b>	<b>Nov 2002</b>	<b>First Issue</b>	<b>Greg Forster</b>	<b>General Manager, Pavements Branch</b>
<b>T 200</b>	<b>Dec 2002</b>	<b>First Issue</b>	<b>Ray Gaughan</b>	<b>General Manager, Pavements Branch</b>
<b>T 231</b>	<b>Jan 2003</b>	<b>Generally Revised</b>	<b>Richard Horner</b>	<b>General Manager, Pavements Branch</b>
<b>T 107</b>	<b>Mar 2003</b>	<b>Typos Corrected</b>	<b>John Bracken</b>	<b>General Manager, Pavements Branch</b>
<b>T 179</b>	<b>Oct 2003</b>	<b>Withdrawn</b>	<b>George.Vorobieff</b>	<b>General Manager, Pavements Branch</b>
<b>T 185</b>	<b>Jul 2004</b>	<b>Volume 1 Index</b>	<b>Rev. Date Corrected to May 1999</b>	<b>G.Hall</b>
<b>T 215</b>	<b>Jul 2004</b>	<b>Volume 1 Index</b>	<b>Rev. Date Corrected to Oct 2001</b>	<b>G.Hall</b>
<b>T 223</b>	<b>Jul 2004</b>	<b>Volume 1 Index</b>	<b>Rev. Date Corrected to May 1999</b>	<b>G.Hall</b>
<b>T 373</b>	<b>Jul 2004</b>	<b>Volume 1 Index</b>	<b>Rev. Date Corrected to February 2001</b>	<b>G.Hall</b>
<b>T 198</b>	<b>Feb 2005</b>	<b>Volume 1 Index</b>	<b>New Issue - P.Walter</b>	<b>G. Donald</b>

<b>T 199</b>	<b>Feb 2005</b>	<b>Volume 1 Index</b>	<b>New Issue - P.Walter</b>	<b>G. Donald</b>
<b>T 2160</b>	<b>Jun 2005</b>	<b>Volume 1 Index</b>	<b>New Issue – J.Carrasco</b>	<b>G. Hall</b>
<b>T 278</b>	<b>Dec 2005</b>	<b>Volume 1 Index</b>	<b>New Issue – G.Hall</b>	<b>G. Donald</b>
<b>T 240</b>	<b>Oct 2006</b>	Revised title, scope, medium grading and straight edge limits, included surface descriptions, revised reporting	<b>David Bligh</b>	<b>G. Donald</b>
<b>T 108</b>	<b>Apr 2007</b>	<b>Generally Revised Amendments to Clauses 3, 5 and 7 to clarify requirements for equipment and techniques-</b>	<b>Ian Stewart</b>	<b>G. Donald</b>
T 102	Nov 2007	Generally Revised- Title Changed		G. Donald
T 103	Nov 2007	Generally Revised- Title Changed		G. Donald
T 105	Nov 2007	Generally Revised- Title Changed Collated preparation sections from separate Test Methods. Tabulated requirements for each test. Preparation processes defined in Appendix. Preparation of binder for laboratory samples included. Made consistent with Revised Test Methods.		G. Donald
T 106	Nov 2007	Generally Revised- Title Changed		G. Donald
T 107	Nov 2007	Generally Revised- Title Changed Revised to reference to AS 1141.19.		G. Donald
T 109	Nov 2007	Generally Revised- Title Changed Altered AS references to Cone liquid limit		G. Donald
T 111	Nov 2007	Generally Revised- Title Changed Rammer tolerance as per AS 1289.5.2.1. Method A deleted and Method B becomes the standard. Changed 'M' subscripts. Notes added and renumbered. Appendix revised.		G. Donald
T 112	Nov 2007	Generally Revised- Title Changed Test method made consistent with T111.		G. Donald
T 114	Nov 2007	Generally Revised- Title Changed Rammer tolerance as per AS 1289.5.2.1.		G. Donald
T 116	Nov 2007	Generally Revised- Title Changed Corrected ambiguity between T116 and T131. Mass of specimen consistent with T111. Added procedure to cap specimens..		G. Donald
T 117	Nov 2007	Generally Revised- Title Changed Amalgamation of T117 and T117a T117a withdrawn		G. Donald

T 117A	Nov 2007	WITHDRAWN Amalgamation of T117 and T117a		G. Donald
T 119	Nov 2007	Generally Revised- Title Changed. Pronumerals in formulas standardised. Notes revised.		G. Donald
T 120	Nov 2007	Generally Revised- Title Changed.		G. Donald
T 121	Nov 2007	Generally Revised- Title Changed		G. Donald
T 123	Nov 2007	Generally Revised- Title Changed Revised and reformatted to adopt AS cross reference. Note that the soil/water ratio is specified.		G. Donald
T 125	Nov 2007	Generally Revised- Title Changed Consistent with T111 and notes revised.		G. Donald
T 130	Nov 2007	New issue. Preparation of bound sub-sample moved to T105. Testing made consistent with T111.		G. Donald
T 131	Nov 2007	Generally Revised- Title Changed Corrected ambiguity between T116 and T131. Preparation of binder moved to T105. Consistent with T116		G. Donald
T 136	Nov 2007	Generally Revised- Title Changed		G. Donald
T 147	Nov 2007	New Method		G. Donald
T 162	Nov 2007	Revised and reformatted. Only one method used (Compaction of independent portions). Standard or Modified compaction. Changed 'M' subscripts. Notes added and renumbered. Appendix revised		G. Donald
T 164	Nov 2007	Generally Revised- Title Changed.		G. Donald
T 165	Nov 2007	Generally Revised- Title Changed. Formula for sub-sample corrected. Notes revised		G. Donald
T 166	Nov 2007	Generally Revised- Title Changed. Expanded procedure and corrected formulas for Relative Compaction		G. Donald
T 171	Nov 2007	Generally Revised- Title Changed. Include Addendum T171a. Reformatted. Inclusion of standing period for RAP material. Pronumerals revised. Notes revised. Software investigated. Curves in Appendix		G. Donald

T 173	Nov 2007	Generally Revised- Title Changed. New clauses 4.1, 4.2, 4.3, 4.4, 5.2 and revision to clause 6. Dry Density conversion added	G. Donald
T 180	Nov 2007	Generally Revised- Title Changed	G. Donald
T 213	Nov 2007	Generally Revised- Title Changed Adopted AS 1141.14 - refer to T213	G. Donald
T 215	Nov 2007	Revised. Adopt AS 1141.22 with amendments. Duplicate testing retained	G. Donald
T 219	Nov 2007	Generally Revised- Title Changed . Adopted method within AS 1141.36. Consistent spelling of sulphur	G. Donald
T 2105	Nov 2007	New method. Formerly described in the relevant Specification.	G Donald
T109	Nov 2007	New edition. Minor changes.	G Donald
T117	Feb 2008	New Revision Summary. Clause 2(e) specifies the parameters and adds LMR and LDR. Changed LMR tolerance in Clause 5.1(c) & edited 7(e).	David Hazell
<b>T102</b>	<b>Jun 2008</b>	<b>Clarify moisture content. Apparatus revised by deletion of oven requirements. Preparation note about curing. Clause on labelling.</b>	<b>D. Hazell</b>
T161	<b>Jun 2008</b>	<b>Generally Revised-Title changed. Altered AS references. Incorporate interpretation in an Appendix.</b>	<b>D. Hazell</b>
<b>T105</b>	<b>Sept 2008</b>	Clarification about curing, moisture content and altered sieve size T103..	<b>D. Hazell</b>
<b>T131</b>	<b>Sept 2008</b>	Tolerance for OMC changed to $\pm 0.5\%$ .-.	<b>D. Hazell</b>
<b>T160</b>	<b>Sept 2008</b>	Generally Revised. Title Changed. Tyre specification and pressures updated. Diagram included. Revised method. Notes located under each clause. Appendix for asphalt temperature measurement.	<b>D. Hazell</b>
<b>T162</b>	<b>Sept 2008</b>	Mould tolerances consistent with RTA T111 .	<b>D. Hazell</b>
<b>T185</b>	<b>Sept 2008</b>	Revised format. Amended reference to RTA Test Methods instead of AS. Title Altered	<b>D. Hazell</b>
<b>T186</b>	<b>Sept 2008</b>	New Method. Consistent with T130 & T131. Incorporate comments by A Bretreger. Surcharge 6.75kg.-.	<b>D. Hazell</b>

<b>T199</b>	<b>Sept 2008</b>	New edition Title Altered. Revised and reformatted to be consistent with T160. Sample Pattern defined. Corrected CV formula. Added Characteristic Deflection..		<b>D. Hazell</b>
<b>T177</b>	<b>Sept 2008</b>	New Method Based on “Austroads” TM and the MRWA Test Method WA 326.2.		<b>D. Hazell</b>
<b>T119</b>	<b>Sept 2008</b>	Additional description of processes		<b>D. Hazell</b>
<b>T106</b>	<b>Sept 2008</b>	Generally Revised-Revisions as Indicated		<b>D. Hazell</b>
<b>T131</b>	<b>Feb 2009</b>	Update reference to Steps in T116.		<b>D. Hazell</b>
<b>T144</b>	<b>Feb 2009</b>	Revised Test – Title changed. -2.36 mm used. Uses smaller sub-samples, water not boiled, less stirring, report lime demand and lime saturation.		<b>D. Hazell</b>
<b>T161</b>	<b>Mar 2009</b>	5, Appendix: added Interpretation of Results added. Omitted in previous revision.		<b>D. Hazell</b>
<b>T105</b>	<b>Mar 2009</b>	<b>Consistent sample. Clarify mould requirements &amp; T120 sample sizes. Updated T141 &amp; T172 requ’ts. New T2162 &amp; T2163 requ’ts. Table Error! Reference source not found. sieves added. New A.11, A.12. &amp; A.13. New App C. App D Two definitions added and App renumbered.</b>		<b>D. Hazell</b>
<b>T119</b>	<b>Mar 2009</b>	<b>Corrected accuracy</b>		<b>D. Hazell</b>
<b>T172</b>	<b>Mar 2009</b>	<b>Generally Revised – Title changed. Incorporate and replace part of T151. Removed measurement of swell. Specimen preparation cross-referenced. Apparatus tolerances made consistent with other tests. Simplify formulas.</b>		<b>D. Hazell</b>
<b>T119</b>	<b>Sept 2009</b>	<b>Tolerance of mould. Symbol for density.</b>		<b>D. Hazell</b>
<b>T183</b>	<b>Sept 2009</b>	New Issue		<b>G.Hall</b>
<b>T188</b>	<b>Sept 2009</b>	New Issue		<b>G.Hall</b>
<b>T199</b>	<b>Sept 2009</b>	Clarify accuracy of calculations		<b>D. Hazell</b>

<b>T147</b>	<b>Dec 2009</b>	Preparation Heading added; corrected UOM for density; Report added details.		<b>D. Hazell</b>
<b>T102</b>	Jan 2010	Default requirements, documents; Oversize recorded; № of layers clarified, Procedure revised; oversize reported		<b>D. Hazell</b>
<b>T131</b>	Jan 2010	Update reference to Steps in T116.		<b>D. Hazell</b>
<b>T130</b>	Jan 2010	Clarify preparation.		<b>D. Hazell</b>
<b>T120</b>	Jan 2010	Cross reference AS 1289.2.1.1		<b>D. Hazell</b>
<b>T113</b>	Jan 2010	New Issue Title Revised		<b>D. Hazell</b>
<b>T111</b>	Jan 2010	Clarify portion. Document ref. Curing. Mould selection. Symbol for density revised.		<b>D. Hazell</b>
<b>T103</b>	Jan 2010	Apparatus; Oversize; decanting, heating. Oversize reported.		<b>D. Hazell</b>
<b>T119</b>	Jan 2010	Tolerance of mould.		<b>D. Hazell</b>
<b>T176</b>	Jan 2010	Determined to be a calibration procedure- withdrawn		<b>D. Hazell</b>
<b>T116</b>	<b>Mar 2010</b>	. Note on compaction, document list added, extra capping options, OMC testing, note added on scarifying surface, defects, pronomeral for density.		<b>D. Hazell</b>
<b>T100</b>	<u>June 2010</u>	-New Method.		<b>D. Hazell</b>
<b>T171</b>	<u>June 2010</u>	References added. Accuracy of reporting.		<b>D. Hazell</b>
<b>T188</b>	<u>June 2010</u>	header dates corrected		<b>D. Hazell</b>
<b>T203</b>	<u>June 2010</u>	New Issue. Conforms to AS 1141.12		<b>D. Hazell</b>
<b>T209</b>	<u>June 2010</u>	New Issue. Conforms to AS 1141.6.1		<b>D. Hazell</b>
<b>T211</b>	<u>June 2010</u>	New Issue. Bulk density replaces unit mass. Conforms to part of AS 1141.4		<b>D. Hazell</b>
<b>T212</b>	<u>June 2010</u>	New Issue. Bulk density replaces unit mass. Conforms to part of AS 1141.4		<b>D. Hazell</b>
<b>T235</b>	<u>June 2010</u>	New Issue. Reference to AS 1141.20.1. Tolerance conforms.		<b>D. Hazell</b>
<b>T275</b>	<u>June 2010</u>	New Issue. Reference to AS 1141.20.2.		<b>D. Hazell</b>

<b>T370</b>	<u>June 2010</u>	header dates corrected		<b>D. Hazell</b>
T376	July 2010	New Method	T376	<b>D. Hazell</b>
T377	July 2010	New Method	T377	<b>D. Hazell</b>
T378	July 2010	New Method	T378	<b>D. Hazell</b>
T111	May 2011	2(d); 5.1(e); 7(a)	Ed 2/ Rev 2 New style. Added references. Protect moisture loss. Reworded.	D. Hazell
T114	May 2011	2(c)(d); 5.1(b) (c); 5.2(c); 5.3; 6; 7(b), (c)	New style. Clarify OMC, documents listed. Alternative end of test. OMC changed to $w_M$ . Reporting revised	D.Hazell
T116	May 2011	2(i); 5.2(a); 5.3(a) (c)	Test method list revised. Reworded. Order of capping	D. Hazell
T117	May 2011	1; 2(c), (f), (g); 3(d), (f); 4; 5.1, 5.2(c), (d), (i), (j), 5.3(a), 5.4(d); 6(a), (c); 7(e)	Reference to dynamic deleted. Term 'Static' not used, combined mass with tolerance specified, list test methods. Number of perforations. More detail provided to adjust moisture, moisture content, no. blows, surcharge. Symbol for DD. Symbols added for clarity.	D. Hazell
T162	May 2011	2(b), (g), 3(l), 5.2(c), (d), 5.3(c), 5.4(c)	Max moisture adj (Z), list of tests. Revised apparatus to dry back. Check Z, thorough mixing. Steps adjusted.	D. Hazell
T166	May 2011	2(c); 4; 5.2; 6.2(b), 7(b)(c)(e), Appendix	List documents; Preparation added. Non- cohesive term now used and revised calcs. Reporting to include plots according to Appendix.	D. Hazell
T239	May 2011	All	New issue. Subscripts changed, groups changed.	J Friedrich
T363	July 2011	All	New Issue. New Title. Updated, revised and reformatted from June 2008 draft	G. Forster

T183	July 2011	5(c), (d), (f), (g)	Test of joint, position, convex shape, note added.	J Friedrich
T239	Oct 2011	Table 1	Correction - 14 mm or greater	J Friedrich
T106	Oct 2011	All. New 6.1 and change to 6.2(a), 6.2(e)	New issue. Preliminary sieving not required. 6.7mm sieve not mandatory. Mass of sample corrected to be after drying. Tolerance on intermediate receiver.	D. Hazell
T107	Oct 2011	All 2. 3(a)(i)(v),(vi), (vii),(viii), (ix)	Generally revised. Clarify use of T106 portion and results, reporting tolerance and rewording, % Between Sizes added to table. ABC Ratios reworded and are optional. Add T106 where appropriate.	D. Hazell
T117	Oct 2011	5.3(a)	Clarified surcharge masses	D. Hazell
T120	Oct 2011	2(a)(b), 3(ii)	New format. Clarify when to use lower temperatures. Correlation requirement. Added references. Clarify constant mass temperatures.	D. Hazell
T121	Oct 2011	All. 2(a),(b),(d)(i). 5(g). 6(b). 7(a), (b)	New issue. Clarify usage and correlation requirement. Reference added. Results to be corrected.	D. Hazell
T180	Oct 2011	All. 2(a),(c),(d), (e)(i). 5(g). 6(b). 7(a), (b)	New issue. Clarify usage and correlation requirement. Reference added. Results to be corrected.	D. Hazell
T377	Oct 2011	2(c). 3(l). 4(b)	New format. Height range broadened. Saw required for trimming.	D. Hazell
T378	Oct 2011	3(e). 4(a), (b)	New format. Saw required for trimming. Height range broadened	D. Hazell
T363	Jan 2012	6., 10.	New revision. Reporting of water/cement ratio added	G. Forster
T201	April 2012	All	New Issue Ed2/Rev1. Conforms to AS 1141.11.1 New title. Minor format change.	J Friedrich

T203	April 2012	3(ii)	New revision Ed2/Rev1. Amend accuracy of result. Minor format change.	J Friedrich
T237	April 2012	All	New issue Ed2/Rev0. Spoons replaced with measured precoat.	J Friedrich
T240	April 2012	All	New Issue Ed3/Rev0. A single size material and a minimum radius for the patch specified. Reformatted & revised.	J Friedrich
T271	April 2012	All	New Issue Ed2/Rev0	J Friedrich
T274	April 2012	All	New issue Ed2/Rev0. Various tray materials allowed.	J Friedrich
All	October 2012	All	All except T237, T240, T271, T274 and T363 revised and reformatted to new RMS template	J. Friedrich
T198	August 2013	Testing officer changed to Principal's nominated representative. Changes to equipment that can be used for the test method. Changes to Testing officer & equipment.		J. Friedrich
T199	August 2013	New sentence on Testing Officer. Remove Part (b) Use of data capture device. Page 1 Page 2 (b) Page 5 (c)		J. Friedrich
T153	April 2012	All	New Issue Ed2/Rev0. Reformatted and revised	D.Hazell
T189	November 2013	All	New revision Ed2/Rev1. Generally revised	J.Friedrich
T154	December 2013	All	New Issue Ed1/Rev0.	J. Friedrich
T240	December 2013	6, 7. Revised Texture depth reporting requirement to 0.1 mm. Deleted units '(g)' from formula inputs for 'n'.	New revision Ed3/Rev1.	J. Friedrich
T368	January 2014	Better integration with R83 Edition 3, Removed filler density requirement, Minor anomaly in final calculation amended. Title amended	New revision Ed2/Rev1.	G. Vorobieff
T304	June 2014	Amendments made to methodology arising from experience on major projects and availability of apparatus.	New Issue Ed3/Rev0	G. Vorobieff

T199	June 2014	Revision Summary Notes - Date changed for manual reading of dial gauge	New revision Ed3/Rev2	J. Friedrich
T381	September 2014	New Method	New Issue Ed1/Rev1	J. Friedrich
T280	March 2015	New Method	New Issue Ed1/Rev0	J. Friedrich