
	<b>INSPECTION AND TEST PLAN</b>		
<b>Supplier:</b> Fulton Hogan	<b>Asphalt Compliance Testing</b>	<b>Approved By:</b> Joseph Stella (FHIS Technical Manager)	
<b>Revision:</b> 0 <b>Date:</b> 15/07/2024	<b>Structure/Component:</b> Department of Transport and Planning (DTP) Dense Graded Asphalt (DGA) Section 407 (July 2023)	<b>Document No.:</b> FH-ZU2-QU-ITP017	

Item No.	Inspection/Test	Frequency	Acceptance Criteria	Reference Documents	Method	Record	Responsibility	Checked By	
								FH	Date
1	Production of Asphalt								
1.1	Temperature	Every loaded truck or at intervals of 15 minutes if more than one truck is dispatched in 15 minutes.	≤175°C	Section 407.11(a), 407.15	Thermometer	Load inspection sheet / docket	Plant Operator / Technician		
1.2	Temperature	DGA - One test per 250 tonnes (or part thereof) if lot is >40 tonnes	≤175°C	Internal	Thermometer	Load inspection sheet / test report	Technician		
1.3	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating	Every loaded truck	>95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles	Section 407.11 (b)	Visual check	Load inspection sheet	Plant Operator		
1.4	Visual inspection for segregation, uncoated particles, separated binder, excess binder or overheating	DGA - One test per 250 tonnes (or part thereof) if lot is >40 tonnes	>95% coarse aggregate coated with binder, no obvious separated binder or uncoated particles	Internal	Visual check	Load inspection sheet	Technician		
1.5	Maximum density	On every production day	± 35 kg/m <sup>3</sup> of its 6-point rolling average	Section 407.11(e), 407.15	AS2891.7.1	NATA-endorsed test report	Technician		
1.6	Binder content	DGA - One test per 250 tonnes (or part thereof) if lot is >40 tonnes	±0.3% of mix design specification	Section 407.10, 407.15, 407.11	AS2891.3.3 or AGPT/T234	NATA-endorsed test report	Technician		
1.7	Full sieve analysis	DGA - One test per 250 tonnes (or part thereof) if lot is >40 tonnes	See  Table 1 of this document	Section 407.10, 407.15, 407.11	AS2891.3.3 or AGPT/T234	NATA-endorsed test report	Technician		
1.8	Moisture content	DGA - One test per 250 tonnes (or part thereof) if lot is >40 tonnes	≤0.5% moisture	Section 407.11 (b)	RC 211.01	NATA-endorsed test report	Technician		
2	RAP Testing <sup>(1)</sup> - RAP Level 1 and 2 (as per Table 407.121 Section 407)								


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2.1	Moisture content of RAP	One test per 500 tonnes of RAP	Not exceeding the maximum moisture content acceptable for the asphalt plant nominated in the RAP Management Plan – Fulton Hogan Infrastructure Services. Any materials with moisture content greater than the nominated moisture content should be allowed to drain before being utilised	Section 407.13(c)  FH RAP Management Plan Section 3.2	AS2891.10	NATA-endorsed test report	Technician / RAP Yard Supervisor										
2.2	Binder content of RAP	One test per 500 tonnes of RAP	± 0.5 of target binder content 1 out of 10 consecutive results is allowed outside tolerance	Section 407.13(c), 407.11	AS2891.3.3	NATA-endorsed test report	Technician/ RAP Yard Supervisor										
2.3	Sieve analysis of RAP	One test per 500 tonnes of RAP	See Table 2 of this document	Section 407.13(c)	AS2891.3.3	NATA-endorsed test report	Technician/ RAP Yard Supervisor										
3	RAP Testing <sup>(1)</sup> - RAP Level 2 (as per Table 407.121 Section 407)																
3.1	Binder viscosity	One test per 1000 tonnes lot of RAP used for Level 2 mixes as per Table 407.121	Viscosity of the blend of virgin and RAP binder shall fall within the range in table <table><tr><th>Specified Binder Class</th><th>Binder Blend Viscosity Range (Pa.s @ 60°C)</th></tr><tr><td>C170</td><td>170 – 240</td></tr><tr><td>C320</td><td>320 – 500</td></tr><tr><td>C600</td><td>600 – 880</td></tr></table>	Specified Binder Class	Binder Blend Viscosity Range (Pa.s @ 60°C)	C170	170 – 240	C320	320 – 500	C600	600 – 880	Section 407.13(e)	AGPT/T192 or AS 2341.2, AGPT/T193	NATA-endorsed test report	RAP Yard Supervisor / Laboratory supervisor		
Specified Binder Class	Binder Blend Viscosity Range (Pa.s @ 60°C)																
C170	170 – 240																
C320	320 – 500																
C600	600 – 880																

<sup>1</sup>: An approved RAP management plan addressing RAP stockpile management, RAP sampling and testing, RAP process control, RAP traceability, RAP binder blend viscosity (RAP Level 2) and asphalt plant capability shall be submitted to DoT at least 14 days prior to the asphalt works. No asphalt containing RAP shall be supplied until DoT approves the management plan.

Rc = Characteristic value of the density ratio

Rm = Mean density ratio

Note: Samples shall be retained for the period of time it takes to complete the testing and review the result. After this time the samples can be discarded.

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**Table 1: Production tolerances for mix grading (Table 407.101 in DTP Section 407)**

Sieve size AS (mm)	Tolerance on percentage passing (by mass)			
	Size 7	Size 10	Size 14	Size 20
37.5	Nil	Nil	Nil	Nil
26.5	Nil	Nil	Nil	Nil
19.0	Nil	Nil	Nil	± 6
13.2	Nil	Nil	± 6	± 6
9.5	Nil	± 6	± 6	± 6
6.70 - 4.75	± 6	± 6	± 6	± 6
2.36 – 0.600	± 5	± 5	± 5	± 5
0.300 – 0.150	± 3	± 3	± 3	± 3
0.075	± 1.0	± 1.0	± 1.0	± 1.0

1. If post compaction grading is checked by binder extraction and sieve analysis after placement, the positive tolerances shall be increased by one percentage point.

**Table 2: RAP grading tolerances (Table 407.131 in DTP Section 407)**

Description	Tolerance (from target grading)	Allowable number of results outside of tolerance
Passing 26.5 mm sieve and larger	± 10	1 out of 5 consecutive results
Passing 4.75 mm to 19.0 mm sieve	± 8	1 out of 5 consecutive results
Passing 1.18 mm and 2.36 mm	± 6	1 out of 5 consecutive results
Passing 0.300 mm and 0.600 mm	± 5	1 out of 5 consecutive results
Passing 0.150 mm	± 3	1 out of 5 consecutive results
Passing 0.075 mm	± 2	1 out of 10 consecutive results