Area No.



Revision Number: 01 Date: 29/06/2023

Memorial Avenue Upgrade, Kellyville

Job No. 1680

Date. 23/00/20/

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity	Reference	Acceptance Criteria	Frequency	Acceptance By			Record /
	-	Spec Method	-		DG	TfNSW	Other	Comments
	In work sequence	OHSR, Environment, Quality aspect Specification, standard or		Inspection/testing frequency	See l	key on final	page.	Identify relevant records Add notes to assist.

✓	PRELIMINARIES						
1.1	SWMS, EWMS and EPL	G22 Cl 3.4 G36 G38	-Ensure SWMS & EWMS are in place, understood and signed off by all personnel involved in completing the task -Ensure EPL criteria are conformed with	Prior to commencement	PE	✓	Refer to checklist 1680-CHK-R116- 001
1.2	Erosion and Sedimentation Control Plan	G38 CI 2.1.2 G38 CI 3.1.1	Ensure ERSED plan has been developed and communicated to site team.	Prior to commencement	ENM	✓	Refer to checklist 1680-CHK-R116- 001
1.3	Traffic Control	G10 Cl 2	-Traffic control is in placeRelevant TCP and VMP are approved	Prior to commencement	ТМ	✓	Refer to checklist 1680-CHK-R116- 001
1.4	Construction Lot Identification, Traceability and Frequency of Testing	Q6 CI 7.5.3 Annexure L1 Annexure L3	-Set the bounds for each construction lot as per Q6 requirements -Lot Number assigned -Lot size as per specification -This lot number as an identifier on all quality records -Lot map is prepared for traceability -Frequency of testing as per Q6/L3 and specification requirements	Prior to commencement	PQR	✓	Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW)	Job No. 1680	Area No.	1
Principal's Authorised Person:	Mark Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity	Refer	rence	Acceptance Criteria	Frequency	Acceptance By			Record /
	_	Spec	Method	•		DG	TfNSW	Other	Comments
	In work sequence	OHSR, Enviro aspect Specifica	onment, Quality ation, standard or		Inspection/testing frequency	See key on final page.		page.	Identify relevant records Add notes to assist.

✓	MATERIAL & PRODU	ICTION OF ASP	HALT					
2.1	Submission of nominated mix design details HOLD POINT	R116, CI 2.3.5	Documents as detailed in Clause	2.3.3	Each mix and 7 days prior to placement	ENG	HP	Refer to checklist 1680-CHK-R116- 001
2.2	Progression to a higher RAP Approval Level HOLD POINT	R116, Ann F1	Documentation demonstrating compliance with the Performance Period corresponding to the higher RAP Approval Level applied for		Prior to commencement	ENG	НР	Refer to checklist 1680-CHK-R116- 001
2.3	Production tolerance	R116, C6 2.4.2	Permissible variation to nominated values during production, for eac Combined particle size distribution (AS sieve) (0.10) 4.75 mm and larger 2.36 mm 1.18 mm 600 µm 300 µm 150 µm 75 µm Binder content (0.10)	Tolerance (% by max) (th mix size: ± 7 ± 5 ± 5 ± 4 ± 4 ± 4 ± 4 ± 2.5 ± 1.5 ± 0.3	Per Lot	ENG	\	Refer to checklist 1680-CHK-R116- 001
2.4	Storage and handling (Production)	R116 Cl 2.4.4	Binder: Heating and storage mus the temperature and time limits se Advisory Note 7 published by AAF Asphalt: which does not contain may be retained in hot storage sile not exceeding 24 hours	et out in PA RAP material	Per Lot	SS	>	Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville

✓ PLACEMENT OF ASPHALT

Job No. 1680

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Area No.

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

	INSPECTION AND TEST PLAN			Heavy Duty Dense Graded Asphalt – Ed 9 / Rev 0 (July 2020)	R116	Checklist No.		1680-CHK-R116-001	
Item	Activity	Activity Reference Spec Method In work sequence OHSR, Environment, Quality aspect Specification, standard or		Acceptance Criteria	Frequency	Acceptand DG Trinsw		e By Other	Record / Comments
	In work sequence				Inspection/testing frequency	ency See	key on final	page.	Identify relevant records Add notes to assist.
2.5	Manufacturing Temperatures	I R116 (1275 I		The temperature of asphalt must not at any time in the process exceed 175°C.	Per Lot	SS	✓		Refer to checklist 1680-CHK-R116- 001
2.6	Sampling and testing during production	R116, CI 2.4.7		-Verify conformity with the Specification by sampling and testing and maintain records of your process control during asphalt production Asphalt samples in accordance with AS 2891.1.1	Annexure R116	/L ENG SS	√		Refer to checklist 1680-CHK-R116- 001
2.7	Transport of asphalt	R116. Cl 2.5		-Transport of asphalt in accordance with AS2150 -Ensure a uniform, light coating of the vehicle's tray without ponding of surplus release agent	Per Lot	ENG SS	✓		Refer to checklist 1680-CHK-R116- 001

3.1	Surface preparation	R116, CI 3.1.2	extruded thermoplastic road markings and raised pavement markers	Per Lot	SS	✓	1680-CHK-R116- 001
3.2	Protection of Road and Services Fixtures	R116, Cl 3.1.3	Prevent asphalt from entering or adhering to grates, hydrants or valve boxes, service covers, bridge joints and other road fixtures	Per Lot	SS	✓	Refer to checklist 1680-CHK-R116- 001
3.3	Existing surface condition	R116, Cl 3.2.1	Clean, dry, and free from loose material, prior to application of the tackcoat	Per Lot	SS	✓	Refer to checklist 1680-CHK-R116- 001

Prepare the surface to be paved in accordance with AS 2150, including removal of raised

Refer to checklist



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Job No. 1680

Area No.

Client: Transport for New South Wales (TfNSW) Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity	Activity	Refe	rence	Acceptance Criteria	Acceptance Criteria Frequency			e By	Record /
		Spec	Method	•		DG	TfNSW	Other	Comments	
	In work sequence		onment, Quality cation, standard or		Inspection/testing frequency	See	key on final	page.	Identify relevant records Add notes to assist.	
3.4	Tackgoot application rate			Apply the tackcoat evenly at a rate of between 0.15 & 0.30 L/m² of residual bitumen. For joints and chases, double the application rate.	Per Lot	ENG			Refer to checklist	
3.4	Tackcoat application rate	R116, Cl 3.2.2		Nominate in writing to the Principal your proposed tackcoat application rate prior to applying the tackcoat	Per Lot	SS	•		1680-CHK-R116- 001	
3.5	Tackcoat daily record	R116, C	13.2.4	Provide to the Principal a signed daily record of the average tackcoat application rate applied to each Lot	Per Lot	ENG SS	✓		Tackcoat daily record	
3.6	Condition of tackcoat at commencement of asphalt placement	R116, C	13.2.5	The tackcoat must be intact at the commencement of asphalt placement	Per Lot	SS	✓		Refer to checklist 1680-CHK-R116- 001	

Heavy Duty Dense Graded Asphalt - R116



Revision Number: 01 Date: 29/06/2023

Memorial Avenue Upgrade, Kellyville

INSPECTION AND TEST PLAN

Area No.

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Job No. 1680

Activity Type Heavy Duty Dense Graded Asphalt

	INSPECTION AND TEST PLAN			Heavy Duty Dense Graded Asphalt – Ed 9 / Rev 0 (July 2020)	R116	Checklist No.		t No. 1680-CH		IK-R116-001
Item	,	Refe Spec	<u> </u>		Frequ	iency	Acc DG	ceptance By TfNSW Other		Record / Comments
	In work sequence	OHSR, Environment, Quality aspect Specification, standard or			Inspection/test	ing frequency	See I	key on fina	l page.	Identify relevant records Add notes to assist.
3.7	Temperature and weather condition	R116, C	13.3	Measure & record the temperature of the surface to be paved, & wind velocity at the point of asphalt placing Pavement surface temperature must comply with below requirements: (a) Where the nominal size of asphalt is < 20 mm, the min. pavement surface temperature must be < 8°C at zero wind speed at pavement level for binder complying with RMS D&C 3253; (b) Where the nominal size of asphalt Is ≥ 20 mm, the min. pavement surface temperature must be < 5°C at zero wind speed at pavement level for binder complying with RMS D&C 3253; (c) Add 5°C to each of the limits in (a) or (b) above for binder complying with RMS D&C 3252; and (d) Add 5°C to each of the limits in (a), (b) & (c) above for each 5 kph of wind speed above zero (measured at pavement level) provided that the cumulative temperature for (a), (b) or (c) above does not exceed 30°C	One meas every 2		ENG SS	~		Asphalt paving record



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Job No. 1680

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Area No.

INSPECTION AND TEST PLAN			Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)		Che	cklist No.	1680-CHK-R116-001	
Item	Activity	Reference	Acceptance Criteria	Frequ	ency	Acceptan	ce By	Record /

Item	Activity	Spec Method		Acc DG	eptanc TfNSW	e By Other	Record / Comments		
	In work sequence		onment, Quality ation, standard or		Inspection/testing frequency	See	key on final	page.	Identify relevant records Add notes to assist.
				Place the asphalt using a self-propelled paver with the ability to be operated with automatic grade control & automatic joint matching facility					
3.8	Method of placement	R116, Cl 3.4		Hand placement of asphalt is only permitted for minor corrections of the existing surface & in areas where placement with a paver is impractical	Per Lot	SS	✓		Refer to checklist 1680-CHK-R116- 001
				Material transfer vehicle (MTV) to be used in the paving operations. MTV must be a self-propelled machine with independent controls and must comply with R116, Cl 3.4.3					
3.9	Submission of paving and compaction temperature details to achieve conformity (including trial section) HOLD POINT	R116, Cl 3.5		Submit details of the following: (a) minimum temperature at which asphalt will be delivered to the paver; (b) minimum temperature at which initial compaction of the asphalt can still commence. (c) method of temperature measurement Measure the asphalt temperature using a hand held or machine mounted infrared thermometer, which is accurate to within ± 2°C, either at the point of discharge from a tipper truck or at the distribution auger on the paver	Per Lot	ENG SS	НР		Refer to checklist 1680-CHK-R116- 001
3.10	Course and layer thicknesses	R116, CI R116, CI		-The specified course thickness is detailed in Annexure R116/A, or shown on the Drawings -The nominated thickness of a layer of asphalt must be between 3.0 to 5.0 times the nominal mix size	Per Lot	SS	✓		Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW)	Job No. 1680	Area No.	1
Principal's Authorised Person:	Mark Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity Reference Spec Method		Addivity Addoptaneo Chiena		Frequency	Frequency Acceptance By			Record /
	In work sequence	OHSR, Enviro	onment, Quality ation, standard or		Inspection/testing frequency		key on final		Identify relevant records Add notes to assist.
3.11	Placing of asphalt in nonconforming layer thicknesses HOLD POINT	R116, CI	3.6.3	Submit details of the following: (a) nominated layer thicknesses which does not conform to specified thicknesses; (b) work methods capable of producing a dense homogeneous layer at these thicknesses; (c) areas affected, and evidence that these areas are the absolute minimum necessary.	Per Lot	ENG SS	НР		Refer to checklist 1680-CHK-R116- 001
				Longitudinal joints must be: (a) offset by 150 mm from the joint in the underlying layers; (b) located within 150 mm of the line of change in crossfall; (c) coincident with final traffic markings, unless otherwise approved by the Principal.					Refer to checklist
3.12	Joints	R116, CI	3.7.1	Transverse joints must be: (i) located at a minimum of 25 m apart; (ii) offset by a minimum of 1 m from the joint in the underlying layer; (iii) formed at the commencement of each paving run; (iv) formed when a delay in paving causes asphalt temperature to fall below the initial compaction temperature nominated	Per Lot	SS	✓		1680-CHK-R116- 001

Heavy Duty Dense Graded Asphalt - R116



Revision Number: 01 Date: 29/06/2023

Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW)

INSPECTION AND TEST PLAN

Job No. 1680

Area No. 1

Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

Checklist No.

		Ed 9 / Rev 0 (July 2020)	Ed 9 / Rev 0 (July 2020)).	1680-CHK-R116-001			
Item	Activity			Acceptance Criteria	Freque	ency	Acc	eptanc	e By	Record /
	_	Spec	Method	-			DG	TfNSW	Other	Comments
	In work sequence	OHSR, Environment of the control of	onment, Quality ation, standard or		Inspection/testing	g frequency	See l	key on final	page.	Identify relevant records Add notes to assist.
3.13	Temporary ramps at joints	R116, CI	3.7.3	-Construct temporary ramps at joints either by placement of asphalt complying with this Specification, or by cold milling the existing or new asphalt layer to form the ramp -The length & grade of temporary ramps must be equivalent to those specified for treatment at edges & structures described in R101	Per L	ot	SS	✓		Refer to checklist 1680-CHK-R116- 001
3.14	Tie-ins to existing pavements	R116, CI	3.7.4	Construct permanent tie-ins to existing pavement by placement of asphalt complying with R116	Per L	ot	SS	√		Refer to checklist 1680-CHK-R116- 001
3.15	Submission of verification checklists and test results from trial section HOLD POINT	R116, CI	3.8	-Construct a separate trial section using the plant and personnel proposed for the work for each nominated mix -Submit Verification checklist and all relevant test results from the trial section demonstrating conformity to the specified requirements, at least 3 working days prior	Each n	nix	ENG SS	НР		Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW)	Job No. 1680	Area No.	1
Principal's Authorised Person:	Mark Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity	Reference			Acceptance by			Record /
	-	Spec Metho	1		DG TfNSW Other		Comments	
	In work sequence	OHSR, Environment, Qualit aspect Specification, standard	r	Inspection/testing frequency	See	See key on final page.		Identify relevant records Add notes to assist.

✓	SAMPLING AND TES	TING OF PLACE	D ASPHALT						
4.1	Determination of insitu air voids	R116, Cl 4.2 R116, Cl 5.3 Ann. R116/K1	-Asphalt layer > 30mm & determined by either: (a) Cores: Take cores in accordance with AS 2891.1.2. Do not reduce the core thickness by > 5 mm. or, (b) Nuclear density gauge: In accordance with AS/NZS 2891.14.2 & AS/NZS 2891.14.3. -Determine the bulk in accordance with AS/NZS 2891.9.2. Characteristic Values of Insitu Air Voids Lower Limit Upper Limit		As specified for relative compaction > 100.0% in Q6 Clause L3.1	ENG SS	✓	Test Report / Refer to checklist 1680- CHK-R116-001	
4.2	Determination of course thickness	R116, CI 4.3.2 R116, CI 4.3.3	From Cores: Cores taken in accordance with AS 2891.1.2 -The core layer thickness is determined prior to trimming of the core -The maximum and minimum characteristic values of thickness for the Lot calculated in accordance with Annexure R116/K2 By Survey: Carry out surveys for product conformity in accordance with Specification TfNSW G71 Clause 5.3.3			For cores: As specified for relative compaction > 100.0% in Q6 Clause L3.1 G71 Clause 5.3.3 for survey	ENG SS SU	✓	Test Report Survey report / Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Area No.	1
Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN			Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)			Checklist No.			K-R116-001
Item	Activity	Reference Spec Method	Acceptance Criteria	Frequ	ency Acceptant		e By Other	Record /	

Job No. 1680

Item	Activity	Reference		Acceptance Criteria		Frequency	Acceptance By			Record /
			Method				DG	TfNSW	Other	Comments
	In work sequence	OHSR, Environme				Inspection/testing frequency	See	key on final	page.	Identify relevant records Add notes to assist.
4.3	Course thickness, where finished surface level not specified	R116, CI 5.	5.4.1	existing pavement co average compacted of Lot must be within the Table R116.10 for the -Where the course is layers which have be characteristic values the Lot must be within Table R116.10 for the -Where the asphalt is layers to form a single thickness calculated if 4.3.1 must be within the	n accordance with Clause he tolerances specified in e nominal size of asphalt	For cores: As specified for relative compaction > 100.0% in Q6 Clause L3.1 G71 Clause 5.3.3 for survey	ENG SS	•		Test Report Survey report /Refer to checklist 1680-CHK-R116- 001

Heavy Duty Dense Graded Asphalt - R116



Revision Number: 01

Memorial Avenue Upgrade, Kellyville

INSPECTION AND TEST PLAN

Job No. 1680

Date: 29/06/2023

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

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Area No.

	INSPECTION AND TE	EST PLAN			se Graded Asphalt – Rev 0 (July 2020)	- R116	Che	cklist No	D.	1680-CH	IK-R116-001
Item	Activity	Activity Reference Acceptance Criteria		Frequency		Acceptance By DG TfNSW Other			Record / Comments		
	In work sequence		onment, Quality cation, standard or			Inspection/test	ing frequency	See I	key on final	page.	Identify relevant records Add notes to assist.
4.4	Course thickness, where finished surface level specified	R116, C	l 5.4.2	The course thickness is d the asphalt course surface Clause 5.5.1 The average compacted of each Lot of the wearing of 10% of the specified cour	e levels conform under course thickness of ourse must be within	For cor specified for compar 100.0% Clause G71 Clau	or relative ction > in Q6 e L3.1	ENG SS			Test Report Survey report / Refer to checklist 1680-CHK-R116-
4.5	Determination of course position	R116, C	l 4.4	Finished Surface Levels determine the course pos reference to existing pave fixtures. Finished Surface Levels measure the course posit survey in accordance with Survey Location for Det Position: The survey locathe surface of a course for must be located within 25 corresponding point deter	ition of each Lot by ement surface & road s Specified: ion of each Lot by a Q6 & G71 Cl 5.3.3. ermining Course ation of any point on r level determination mm from the	for su	·	ENG SS	✓		Refer to checklist 1680-CHK-R116- 001
4.6	Course position	R116, C	15.5.1	Must not deviate from the than the tolerances shown Table R116.11 – Course Sur Course Wearing course Top Intermediate course Other Intermediate Courses Corrective course	n in Table R116.11	Per	Lot	ENG SU	✓		Survey report / Refer to checklist 1680-CHK-R116- 001

Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)



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Memorial Avenue Upgrade, Kellyville

INSPECTION AND TEST PLAN

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Job No. 1680	Area No.	1
Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

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Item	Activity	Refe	rence	Acce	ptance Crite	oria	Frequency	Δcc	eptanc	e Rv	Record /
iteiii	Activity	Spec	Method	Acce	plance ont	51 IG	. ,	DG	TfNSW	Other	Comments
	In work sequence		onment, Quality ation, standard or				Inspection/testing frequency	See I	key on final	page.	Identify relevant records Add notes to assist.
4.7	Matching existing surface levels	R116, CI	5.5.2	Construct the pave levels match the s road structure & it	urface levels of	the existing	Per Lot	ENG SS	✓		Refer to checklist 1680-CHK-R116- 001
4.8	Determination of surface shape	R116, CI	4.5	-In accordance wi -The maximum Lo with TfNSW Q but adjacent longitudin tie-ins	t size must be extended to in	n accordance clude the	As per R116/L.5	SS	\		Refer to checklist 1680-CHK-R116- 001
4.9	Surface shape	R116, Cl	5.6	-The surface of th and transverse joi -The surface shap across traffic lane: bottom of the strai by > the tolerance Table R116.12 - M Course Immediately after placing Corrective course Intermediate course Prior to placing overlying layer (1) Corrective course Intermediate course Intermediate course Intermediate course 12 months after placing Wearing course	nts must not po be of the course is must not devi ghtedge laid in	nd water within and ate from the any direction le R116.12	(a) within lane: One measurement in longitudinal direction and 1 measurement in transverse direction every 60 m2 (b) Longitudinal joint One measurement per 20 lineal metres or adjacent to within lane measurements whichever is the lesser (c) Transverse joint One measurem ent in each wheel path in each lane	SS	*		Test report / Refer to checklist 1680- CHK-R116-001

Heavy Duty Dense Graded Asphalt - R116

Area No.



Revision Number: 01

Memorial Avenue Upgrade, Kellyville

INSPECTION AND TEST PLAN

Job No. 1680

Date: 29/06/2023

Client: Transport for New South Wales (TfNSW)

Principal's Authorised Person: Mark Jajou

Activity Type Heavy Duty Dense Graded Asphalt

	INSPECTION AND TEST PLAN			Heavy Duty Dense Graded Asphalt – Ed 9 / Rev 0 (July 2020)				o	1680-CHK-R116-001					
Item	Activity	Reference Spec Method		Acceptance Criteria	Frequ	Frequency		Frequency		Frequency		Acceptance By DG TfNSW Other		Record / Comments
	In work sequence		onment, Quality ation, standard or		Inspection/test	ing frequency	See I	key on final	page.	Identify relevant records Add notes to assist.				
4.10	Determination of ride quality	R116, C	l 4.6	-Determine the ride quality from measurements of the longitudinal profile (as specified in Ann. R116/A) taken by a vehicular laser profilometer -The International Roughness Index (IRIS) determined in accordance with Test Method TfNSW T188 -Where the Works comprise a single layer of asphalt placed over a pavement constructed by others, determine, and report the ride quality of the existing surface prior to commencement -Provide the Principal with copies of the TfNSW Accreditation Certificates for each proposed vehicular laser profilometer driver and operator	Per	Lot	ENG SS	✓		Test report / Refer to checklist 1680- CHK-R116-001 Certificates				
4.11	Requirements for ride quality	R116, C	15.7	-The surface of the wearing course must have a smooth longitudinal profile (a) construction of the underlying pavement forms part of the contract; or (b) the course comprises > one layer of asphalt, including any corrective course, placed over a pavement constructed by others; or (c) the aim of the asphalt paving work is to improve the ride qualityThe ride quality of each Lot < IRIs of 1.56 m/kmWhere a single layer of asphalt is placed over pavement constructed by others, the ride quality of each Lot must not exceed the IRIsa values determined as follows (refer Clause 4.6): IRIsa = 0.2 + (0.6 × IRIsb), but not > 1.56 m/km	Per	Lot	ENG SS	✓		Test report / Refer to checklist 1680- CHK-R116-001				

Heavy Duty Dense Graded Asphalt - R116



Revision Number: 01 Date: 29/06/2023

Memorial Avenue Upgrade, Kellyville

INSPECTION AND TEST PLAN

Area No. 1

Client: Transport for New South Wales (TfNSW) Principal's Authorised Person: Mark Jajou

Job No. 1680

Activity Type Heavy Duty Dense Graded Asphalt

Checklist No.

				Ed 9 / Rev 0 (July 2020)		Cne	CKIIST IN	0.	1680-CF	IK-R116-001
Item	Activity	Reference		Acceptance Criteria	Freque	ncy	Acc	eptanc	e By	Record /
	_	Spec	Method	·			DG	TfNSW	Other	Comments
	In work sequence		ronment, Quality cation, standard or		Inspection/testing	frequency	See	key on final	page.	Identify relevant records Add notes to assist.
4.12	Submission of test results	R116, C	l 4.7	Submit to the Principal test reports for: (a) combined particle size distribution, binder content and air voids in laboratory compacted mix within 1 working day of placing the asphalt. (b) the tests for insitu air voids, course thickness and course shape within 3 working days of placement of the asphalt.	Per Lo	ot	ENG SS	✓		Test report / Refer to checklist 1680- CHK-R116-001
4.13	Restoration of core holes	R116, C	l 4.8	-Materials used for restoration of core holes must be a bituminous mix, and may be installed either hot or cold in accordance with the product manufacturer's recommendations and suitable for the intended purpose -Prepare the core holes by removing any dirt inside, then brush, sponge and/or vacuum the core hole clean and allow it to dry -Apply a heavy coating of rapid set bitumen emulsion or similar material, to the sides and floor of the core hole -Fill the core holes without segregation or contamination of the fill material in layers not exceeding 50 mm -Compact each layer using suitable compaction equipment such as motorised hammer, plate compactor, and/or hand tampersThe finish top surface of the backfill material must not be below the level of the existing pavement	Per Lo	ot	SS	•		Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW) Job No. 168	Area No.	1
Principal's Authorised Person: Mark Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001

Item	Activity	Refer	rence	Acceptance Criteria	Frequency		Acceptance By		Record /
		Spec	Method	-		DG	TfNSW	Other	Comments
	In work sequence	OHSR, Enviro aspect Specifica	nment, Quality		Inspection/testing frequency	See	key on final	page.	Identify relevant records Add notes to assist.

✓	CONFORMANCE						
5.1	Homogeneity	R116, Cl 5.2	Placed asphalt must be homogeneous in appearance, and must not exhibit segregation, cracking, ravelling, bony or fatty material, or have been damaged during construction	Per Lot	ENG SS	✓	Refer to checklist 1680-CHK-R116- 001
5.2	Rectification or replacement of a nonconforming Lot HOLD POINT	R116, CI 5.8.5	Nonconformity Report and details of your proposal to rectify or replace the Lot	Per Lot	ENG	НР	Refer to checklist 1680-CHK-R116- 001
5.3	Further production of the nominated mix HOLD POINT	R116, Ann B2.3	a) Proposed corrective action to achieve conformity. (b) Test results for insitu air voids and all properties specified in Clause 2.2 of the nonconforming Lot	Per Lot	ENG	НР	Refer to checklist 1680-CHK-R116- 001
5.4	Identification and Control of Non-conforming Products or Services	Q6 CI 8.3	NCR to be opened & closed prior to closing of construction Lot	After work completion	PQR	✓	Non-Conformance Report
5.5	Verification that Rectified Work Conforms HOLD POINT	Q6 Cl 8.3	Verification that rectified works conform to accepted rectification method and specifications within the NCR	Prior to covering up the works	PQR	НР	Refer to checklist 1680-CHK-R116- 001
5.6	Final Verification of Construction Lot Records	Q6 Cl 8.2.4.3	To confirm that all inspections and tests have been carried out to completely verify conformity.	Prior to closing out each lot	PQR	✓	Refer to checklist 1680-CHK-R116- 001



Memorial Avenue Upgrade, Kellyville Client: Transport for New South Wales (TfNSW)	Job No. 1680	Area No.	1
Principal's Authorised Person:	Mark Jajou	Activity Type	Heavy Duty Dense Graded Asphalt

INSPECTION AND TEST PLAN	Heavy Duty Dense Graded Asphalt – R116 Ed 9 / Rev 0 (July 2020)	Checklist No.	1680-CHK-R116-001
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Item	Activity	Reference Spec Method	Acceptance Criteria	Frequency	Acc	Acceptance By DG TfNSW Other		Record / Comments
	In work sequence	OHSR, Environment, Quality aspect Specification, standard or		Inspection/testing frequency	See key on final page.		page.	Identify relevant records Add notes to assist.

		CoC	Certificate of Conformance	1 [ENG	Engineer Responsible
	<u>KEY</u>	HP	Hold point		ENM	Environmental Manager
		IR	Identified Record		PE	Project Engineer
		S	Surveillance		PQR	Project Quality Representative
		Т	Test		SS	Site Supervisor
		WP	Witness point		SA	Site Administrator
					SU	Surveyor
				l [TM	Traffic Manager
Prepared by: Tamer Mohamed	Authorised for Use: Andrew Rigby		Date: 28/03/2022			