

Cert 1e - Quality Assurance Checksheet

TRANSPORTATION



Date:

Consent Holder:

Resource Consent Number:

Development Name and Stage:

Site Address:

Design Engineer and Qualification(s):

No	Test Required	Undertaken by	Quantity	Requirements	Checked
1	Sub-base				
(a)	Grading	IANZ	1/1000m ³	>100% passing 70mm sieve Stone size <60% Pavement depth >40% passing 19mm sieve >10% passing 725um	
(b)	Sand Equivalent	IANZ	1/1000m ³	>25	
(c)	Crushing Resistance	IANZ	1/1000m ³	Max 10% fines	
(d)	CBR	IANZ	1/1000m ³	80% min	
(e)	Compaction Curve	IANZ	1 test	Prior to pavement construction	
(f)	Compaction	IANZ	20m alternate lanes	>95 mean, >92 min of MDD	
(g)	Tolerances (string results)	Surveyor/ Contractor	Centreline and edge of seal at 20m intervals	-25mm + 5mm	
2	Basecourse				
(a)	Grading, TNZ or GAP40	IANZ	1/1000m ³ or road	Standard grading curves	
(b)	Compaction curve (OMC and MDD)	IANZ	1 test	Prior to pavement construction	
(c)	Compaction (nuclear densometer)	IANZ	20m alternate lanes	>98 mean, >95 min	
(d)	Crushing Resistance	IANZ	1/1000m ³ or road	<10%	
(e)	Sand Equivalent	IANZ	1/1000m ³ or road	Not less than 40 Not less than 25 (Minor roads)	
(f)	Tolerances				
	- straight edge	CPEng	Entire Road and Edge of Seal	10mm over 3m	
	- level (string)	CPEng		-5m + 15mm no K&C 5m + 5mm K&C, Asphalt -0mm + 10mm K&C, 2 coat	
(g)	Metal Tapers	Surveyor	All Roads	1:5 gradient and compaction	

(h)	Benkelman Beam Test (asphaltic concrete)	Operator	Centre of lane every 20m	As per Code	
3	Edge Marker Posts	CPEng	Entire Road	MOTSAM	
4	Streetlights	CPEng	All	Completed as per design and working	
5	Street Planting	CPEng	All	As per approved documents, root shrouds in	
6	Concrete Work	CPEng	All	General check for workmanship and as per design	
	Concrete Strength Dockets	xxx	xxx	xxx	xxx
7	2 Coat (refer)				
(a)	Bitumen (M1 & M3)	Operator	2 x 4L/Truck	M1 & M13	
(b)	Chip (M6)	IANZ	1 per 500m ³	85-89	
	- Cleanliness	IANZ	1 per 800m ³	M/6	
	- ALD/ALG	IANZ	Quarry every 6 months	10% fines	
	- Crushing	IANZ	Quarry once every 2 years	AA or BA	
	- Weathering	IANZ	Quarry once every 2 years		
	- Polished Stone	IANZ	Quarry once every 2 years		
(c)	Tolerances	As per base course			
(d)	Spray Rate Design and Compliance	CPEng	Each Run	M/6	
8	Asphaltic Concrete (compliance with TNZ M10)				
(a)	Materials (TNZ M10)	IANZ		M/6	
(i)	Grading Envelope	IANZ		Curve Compliance	
(ii)	Effective Binder Content	IANZ		Refer to Spec	
(ii)	Minimum VMA %	IANZ		Refer to Spec	
(iv)	Stability	IANZ		Refer to Spec	
(v)	Air Voids	IANZ		Refer to Spec	
(vi)	Flow	IANZ		Refer to Spec	
(vii)	Coarse Aggregates	IANZ		Refer to Spec	
	- Weathering	IANZ		AA or BA	
	- Single Broken Faces	IANZ		98% min	
	- Two Broken Faces	IANZ		60% min	
	- Crushing Resistance	IANZ		200kN min 10%	
	- Polished Stone Value	IANZ		85% min by mass	
(viii)	Fine Aggregates	IANZ			
	- Crushing Resistance	IANZ		200kN	
	- Sand Equivalent	IANZ		35 minimum	
	- Clay Index (0/0075mm)	IANZ		3 maximum	
(b)	Laying	CPEng	Entire Road	P9	
	- Joints	CPEng	Entire Road	P9	