

## MATERIAL TESTING REFERANCE

Test	Test Method	Duration (day)	Sample Size (kg)
<b>Soils and Gravel Testing</b>			
Sieve Analysis	SANS3001: GR1	2	15
Foundation Indicator	ASTM D422	5	10
MDD (MOD)	SANS3001: GR30	2	40
CBR	SANS3001: GR40	7	65
UCS/ITS	SANS3001: GR53 & GR54	2(rapid) & 7(normal)	80
Stabilized Design (24hour & 7Days)	-	14	250
Stabilizer Content	SANS3001: GR58	4	5
Moisture Content	SANS3001: GR20	1	5
<b>Aggregate Testing</b>			
ACV & 10% Fact	SANS3001: AG10	4	20
Sieve Analysis	SANS3001: AG1	2	10
Flakiness Index	SANS3001: AG4	2	5
Loose & Compacted Bulk Density	TMH1: B9	2	20
ALD	SANS3001: AG2	2	5
Sand Equivalent	SANS3001: AG5	2	5
<b>Asphalt Testing</b>			
Full Marshall	SANS3001: AS1,2,10,11,20	3	25
BRD of Briquette	SANS3001: AS10	1	-
<b>Concrete Testing</b>			
Curing & Crushing of Cube	SANS 5863	7 & 28	-
Trimming Curing & Crushing of Core	SANS 5865	3	-
Basic Concrete Mix Design	-	+/- 35	200
SANRAL Concrete Mix Design (D2)	-	+/- 60	300
<b>Brick &amp; Block Testing</b>			
Compressive Strength of Bricks & Pavers	SANS 227/1215/863	3	-
Compressive Strength of Blocks	SABS 527	4	-
<b>On-Site Testing</b>			
Field Density (Nuclear)	SANS3001: NG5	1	-
DCP	TMH6: ST6	1	-
Plate Load	AASHTO T222-78	1	-
Ball Penetration	SANS3001: BT10	1	-
Sand Patch	SANS3001: BT11	1	-
Marvil Permeability	SANS3001: BT12	1	-
Double Ring Infiltrrometer	ASTM D3385	4	-