



ROAD PAVEMENTS FORUM

8 & 9 May 2012

**Progress Report on SANS
Methods**

Progress as at April 2012

SANS 3001: TEST METHODS STATUS	NUMBER
First Draft	1
Awaiting comments from Industry	1
Second draft	7
Methods with SANS	24
Methods already published by SANS	36
Total	69



SANS 3001 Method	Brief Description	First draft	Industry	Second draft	Submit to SABS	Published
GR1	Grading - Wet					Dec 2008
GR2	Grading - Dry					March 2009
GR3	Hydrom					
GR5	Air-dry prep					
GR10	Atterbergs					Nov 2008
GR11	2 point LL					Nov 2008
GR12	Flow curve LL					Nov 2008
GR20	Moisture contents					Nov 2008
GR30	MDD					June 2010
GR31	MDD Treated					Aug 2010
GR35	Sand repl					
GR40	CBR					June 2010
GR41	CBR Treated					
GR50	Prep stab tests - lab					Aug 2010
GR51	Prep stab tests - field					Aug 2010
GR52	Prep cores - stab tests					Aug 2010
GR53	UCS					Aug 2010
GR54	ITS					Aug 2010
GR55	Wet-dry hand					
GR56	Wet – dry mech					
GR57	Cem/Lime demand					
GR58	Cem/Lime cont back titration					

SANS 3001 Method	Brief Description	First draft	Industry	Second draft	Submit to SABS	Published
AG2	ALD - meas					Feb 2009
AG3	ALD – comp					Feb 2009
AG4	Flakiness Index					Feb 2009
AG5	Sand Equivalent					
AG10	ACV & 10 % FACT					
AG11	PSV					
AG12	Soundness MgSO ₄					
AG13	Venter					
AG14	Ethylene G					
AG15	EG + FACT					
AG16	Durability Mill					
AG20	AD & BD - Coarse					Sept 2011
AG21	AD & BD - Fine					Sept 2011
AG22	Crushed stone AD					
AG23	Particle and RD					
AG32	EC and pH sat soil-paste					
AG33	Sulphates					
NG1	General					
NG2	Block calibration					
NG3	Gauge Calibration					

SANS 3001 Method	Brief Description	First draft	Industry	Second draft	Submit SABS	Published
NG4	Gauge verification					
NG5	In situ testing					
AS1	Making briquettes					Dec 2011
AS2	Marshall S, F & Q					Dec 2011
AS10	Marshall dens					Dec 2011
AS11	Max voidless					Dec 2011
AS20	Binder indirect					Dec 2011
AS21	Binder by ignition					
AS22	Bitumen content of slurry					
AS23	Moisture in asphalt					
BT10	Ball Pen					
BT11	Sand patch					
BT12	Marvil perm					
BT20	Cert of BD					Nov 2010
BT21	Valid of Dipstick					Nov 2010
BT22	Power road speed					Nov 2010
BT23	Pump performance					Nov 2010
BT24	Transverse distrib					Feb 2011

SANS 3001 Method	Brief Description	First draft	Industry	Second draft	Submit SABS	Published
CO1*	Fresh concrete					
CO1-1	Mix in lab		Out for comment			
CO1-2	Sampling		Out for comment			
CIO1-3	Slump		Out for comment			
CO1-4	Vebe test		Out for comment			
CO1-5	Degree of compaction		Out for comment			
CO1-6	Flow table		Out for comment			

*** Depends on Bryan Perrie's concrete subcommittee - may want to go straight to EN standards**

PR1	Bias & uncertainty					Dec 2008
PR2	Duplicate tests					Jan 2012
PR3	Round robin	Industry using ISO / IEC 17043 as a guideline - unlikely that these two methods will be required.				
PR4	Repeatability					
PR5	Calcs GM, FI, etc					Feb 2009
PR10	Handling of sieves					Feb 2009

Outstanding Test Methods

- Concrete Durability
 - Statistical Assessment of Results (COLTO)
 - Dynamic Shear Rheometer (DSR)
 - Pressure Ageing Vessel (PAV)
 - Tests on ETB and Foamed Bitumen
 - MMLS Testing
 - Others??
- Part of new
SANS 3001
methods



SANAS Accreditation

- Measurement of quality points in appointment of laboratories (site and main) based on increasing minimum number of tests accredited.



Comment

- Disappointment – very few of the methods are in use in the industry. New SANS methods / standards incorporated into SANRAL's pro-forma specifications from April 2012.
- Changes made - in the detail and general procedures remain much the same, alterations in the laboratory are not difficult.
- The problem (financial implications) of re-accreditation of methods transferred for TMH1 to SANS is under discussion between SANAS and NLA. Agreed to allow the use of old TMH1 approved equipment until such time it requires replacement.

The only method that requires replacement of equipment is the Marshall test where the block has to be replaced to improve consistency in results.

- EN standards to link with EN197 cement specification?

