

Rubicon Newsletter

June 2010

Rubicon Toolbox: New Release, Version 2.9.3

The latest version of Rubicon Toolbox, 2.9.3 has been uploaded onto our website. A new tool, the Pavement Structure Comparison Tool has been introduced. A list of modifications to the program is given overleaf.

We advise you to install the upgrade. After installing please open Rubicon Toolbox and a few tools to check everything is working. If you run into any problems running the upgrade, contact us.

Rubicon Toolbox Feature: Pavement Comparison Tool

The Pavement Comparison Tool allows you to plot several pavement structures side by side to facilitate easy comparison. This is useful when comparing different options for a design situation, or when comparing your designs with Catalogue designs. The Tool is found under the Reporting options in the Actions drop down menu.

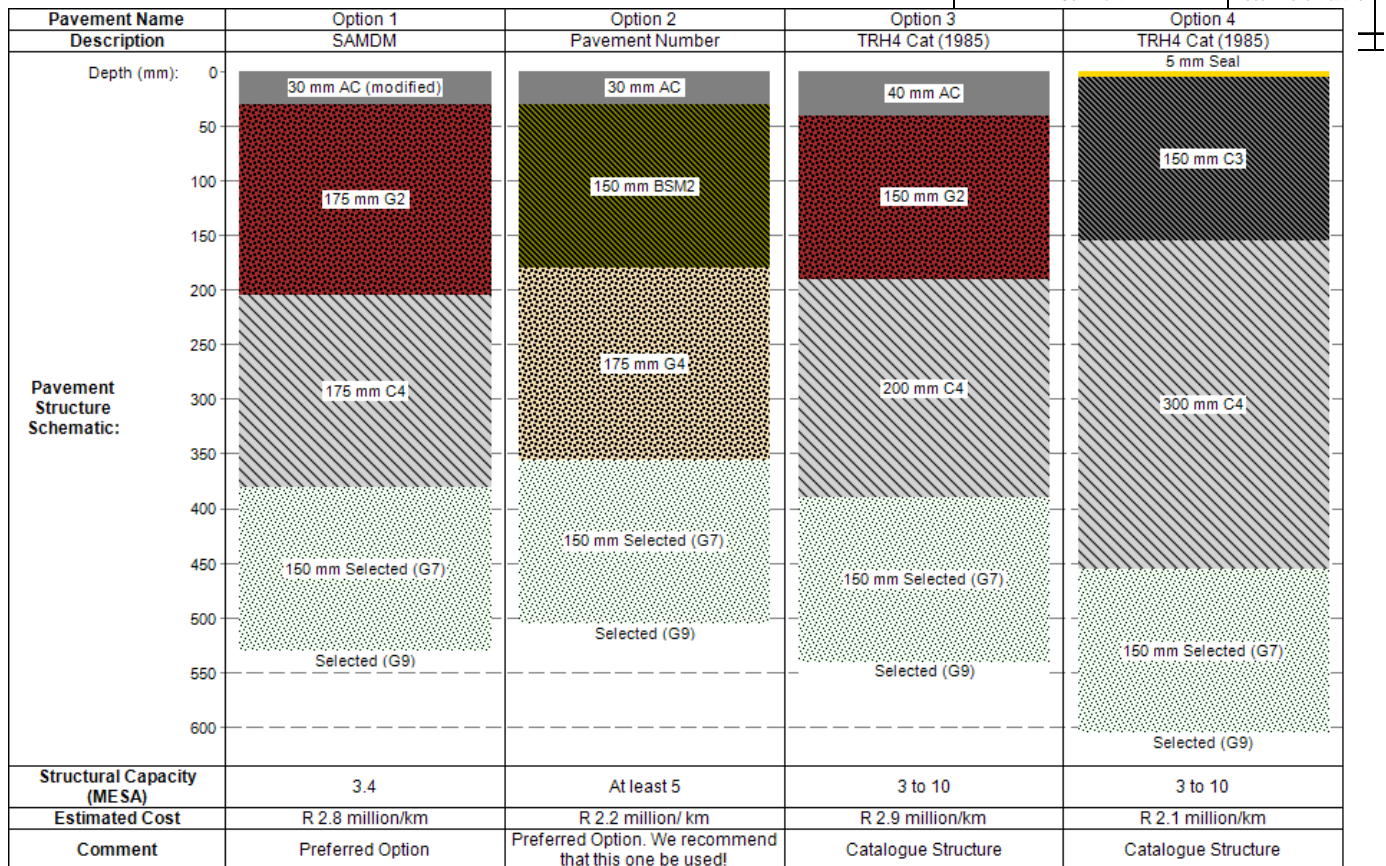
As with many other Rubicon Toolbox Tools, the data for the Pavement Comparison Tool is entered via a Microsoft Excel Template. In the template:

- You can enter as many different pavement structures as you like, just by adding additional columns.
- The options for colours and hatchings of the various layers are available in drop down menus.
- The labels for the left hand column are user defined.

The cost of the tool is R 1100 (excl. VAT). We will however make it available to our maintenance payers for FREE! Contact us for your licence. Remember that you can investigate the tool in Demo (unlicensed) mode (you just cannot save or print). The template can be downloaded from our website.

Excel Template

Pavement Name	Option 1
Description	SAMDM
Thickness	30
Legend Colour	Gray
Legend Pattern	None (solid)
Description	AC (modified)
Layer 1	
Thickness	175
Legend Colour	Brown
Legend Pattern	Large Confetti
Description	G2
Layer 2	
Thickness	175
Legend Colour	LightGray
Legend Pattern	Diagonal Stripes
Description	C4
Layer 3	
Thickness	150
Legend Colour	Honeydew
Legend Pattern	Small Confetti
Description	Selected (G7)
Layer 4	
Thickness	999
Legend Colour	Olive
Legend Pattern	Wave
Description	Selected (G9)
Structural Capacity (MESA)	3.4
Estimated Cost	R 1.7 million/km
Comment	Preferred Option. We recommend that this



Rubicon Toolbox: Pavement Comparison Report / Ver: 2.9.3 / (Licensed)



Modelling & Analysis Systems

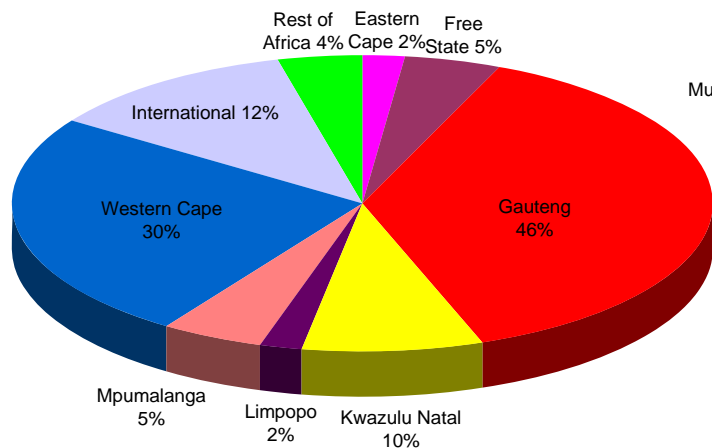
Analytical solutions for the road building industry

- Software solutions
- Training and technology transfer
- Applied research
- Specialised consulting

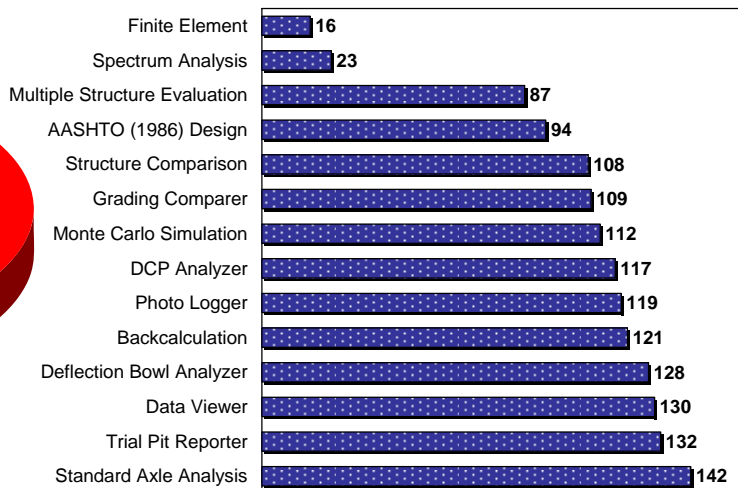
Facts and Figures on Rubicon Toolbox Users

- 155 Rubicon Toolbox packages have been sold, which includes more than 1400 different Tools.
- We have 101 clients using Rubicon Toolbox, located in 126 different branches/offices.
- The software is used in 14 countries. 85% of the packages are used in South Africa.
- Vela-VKE and SSI Engineers and Environmental Consultants have the most packages.
- Since February 2006, 213 Practitioners have attended our training courses.

Distribution of Rubicon Toolbox Packages



Rubicon Toolbox Tools



Brief Summary of Modifications

- The **DCP Multiple Summary Tool** now also exports the E-moduli derived from the DN number. Be careful though of using these moduli directly in pavement design.
- In the **Data Viewer** it is now possible to have group titles even when the strip titles are the same. This means that you can have two sections on your strip with the same strip titles, and differentiate only with the group title.
- The **Parser** for the raw data files from the Carlbro FWD now includes extracting of the GPS coordinates.

Training

Our 2010 training program is well under way. The new **Pave-ment Rehabilitation Course** has gone well and those that have attended it have benefitted.

Our courses are SAICE **CPD** accredited. For information on the courses, check the website or contact us.

Remaining courses scheduled for 2010:

Location	Pavement Design	Rehabilitation Design	Data Viewer
Pretoria		16 & 17 Sep	
Cape Town	28 & 29 July		11 Nov
KZN	21 & 22 Oct		

Comments and Suggestions

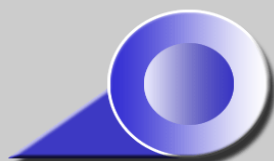
To ensure Rubicon Toolbox continues to meet your needs, please communicate your ideas, questions and suggestions—and, of course, bugs—with us!

Software Support

Remember that if you pay your maintenance, we are an email or phone call away from answering any software queries you may have. We welcome any interaction with you!

MAS News

- Fritz Jooste continues to work on pavement management systems and deterioration modelling for the TRAC N4 and N3TC networks and similar networks in New Zealand.
- Arno Hefer is compiling a HMA field performance database that will be used to calibrate updated SAPDM design models. If anyone was involved with, or knows of, SBS modified asphalt sections that have been in service for more than 7 years, please contact Arno.
- Arno is also working on guidelines for measuring rutting and taking videos for the COTO Road Network Management Systems (RNMS) Committee. Guidelines for roughness measurements are already available, and those for skid resistance and deflection measurements will be released shortly.
- Fenella Long has been presenting courses on the Material Classification System and Pavement Number Design Method for the Asphalt Academy. For information on the practical one-day course, see the Asphalt Academy website.
- Fenella is working on advancements of the material classification method as part of SANRAL's SAPDM project.
- Fenella is also involved with the final compilation of the South Africa Pavement Engineering Manual.
- Marlou Bredenkamp deals with all our administration, including maintenance management, new software purchases, course planning and registration, and invoicing.



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