

# World Forum for the Harmonisation of Vehicle Regualtions:

## The South African Position RULE MAKING

Theuns Blom  
Snr Manager: Automotive Regulatory  
+27 12 428 6277 (Tel)  
+27 12 428 7926 (Fax)  
blomtf@sabs.co.za



# OVERVIEW

- Role Players within the South African Legislative Framework
- South African Technical Legislative Framework
- SABS Regulatory: Automotive Business Focus
  - M2/M3 vehicle approval example
- Administration of the Agreements
  - SABS Regulatory position
  - WP29 Stakeholders Forum
  - Terms of Reference



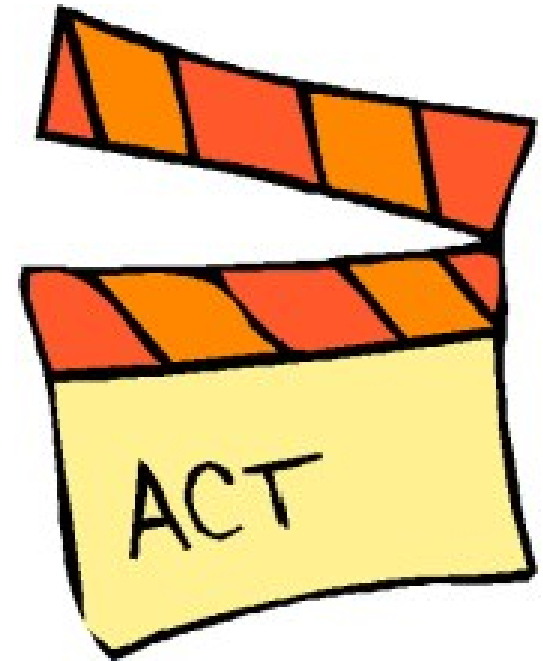


# ROLE PLAYERS WITHIN SOUTH AFRICAN LEGISLATIVE FRAMEWORK





- THE LEGISLATOR(S)
- THE REGULATOR
- THE INDUSTRY
- THE BENEFICIARIES





## ■ **GOVERNMENTAL STAKEHOLDERS**

- ⌘ **Department of Trade and Industry**
  - ◆ **Standards Act**
    - ◆ **Promulgation of Compulsory Specifications**
- ⌘ **Department of Transport – National & Provincial**
  - ◆ **National Road Traffic Act & Regulations**
    - ◆ **Inspectorate of Manufacturers, Importers & Builders**
    - ◆ **Provincial and Municipal by-laws**
- ⌘ **Department of Minerals and Energy**
- ⌘ **Department of Environmental Affairs and Tourism**



## ■ GOVERNMENTAL AGENCIES

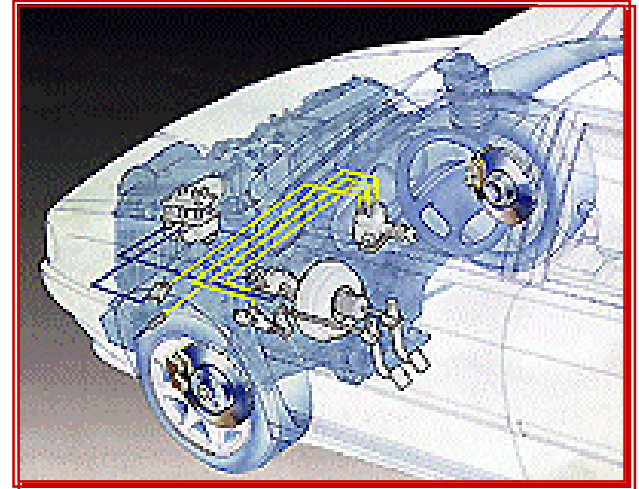
- ⌘ **ITAC (International Trade Administration Commission)**
- ⌘ **SARS (South African Revenue Service - Customs)**
- ⌘ **SAPS (South African Police Service)**
- ⌘ **RTMC (Road Traffic Management Corporation)**
- ⌘ **SANRAL (South African National Road Agency Limited)**
- ⌘ **Etc.**





## ■ SABS/REGULATOR

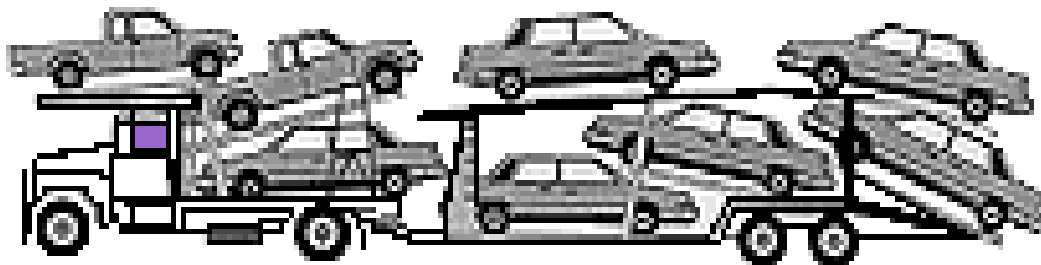
- ⌘ Approvals
- ⌘ Inspections
- ⌘ Sanctions
- ⌘ Main Enablers:
  - ◆ National Road Traffic Act  
(Act no. 93 of 1996)
  - ◆ Standards Act  
(Act no. 29 of 1993)





## ■ INDUSTRY

- ⌘ **Manufacturing, importation, building and export of safe vehicles**
- ⌘ **Manufacturing, importation and export of safe replacement automotive components and accessories**
- ⌘ **Fair & Equal trade: National & International – level playing fields**
- ⌘ **Compliance with health, safety and environmental standards & regulations**
- ⌘ **Compliance with WTO TBT requirements**



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## ■ BENEFICIARIES

⌘ Consumers

⌘ General public

via

⌘ Benefits to general health

⌘ Product safety

⌘ Environmental conservation and protection

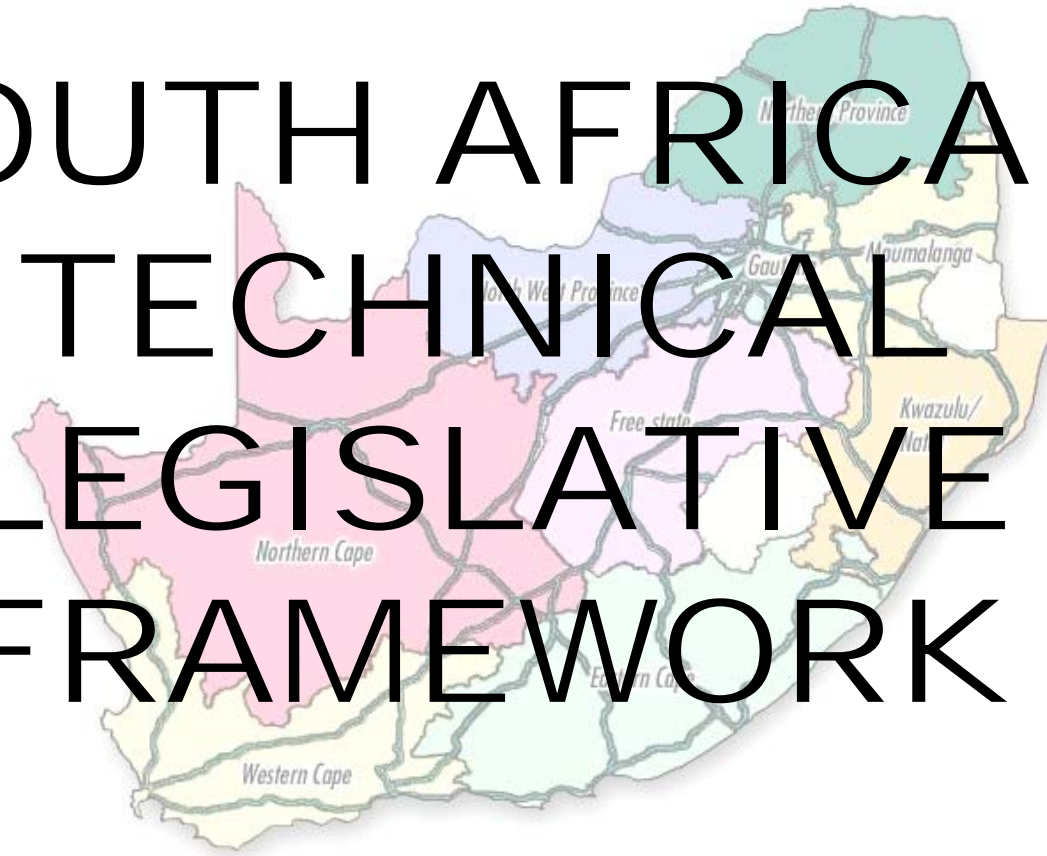
⌘ Fair trade and trade competitiveness



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# SOUTH AFRICAN TECHNICAL LEGISLATIVE FRAMEWORK



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# TECHNICAL LEGISLATIVE FRAMEWORK

## ■ Core Principals

- ⌘ **Transparency** – equal treatment of products
- ⌘ The use of **less trade restrictive measures** – prevent that measure become technical barriers to trade
- ⌘ **International harmonized measures** – to improve production efficiency, facilitate trade
- ⌘ **Necessity** – available scientific technical information
- ⌘ **Proportionality** – the cost of technical regulations should be in proportion with the benefit that they are expected to bring



# TECHNICAL LEGISLATIVE FRAMEWORK

- **Compulsory Vehicle Safety Standards**
  - ⌘ **Promulgated under Standards Act**
  - ⌘ **Based on South African National Standards (SANS) and UN ECE Regulations**
  - ⌘ **Primarily focus on design performance**



# TECHNICAL LEGISLATIVE FRAMEWORK

## ■ National Road Traffic Regulations

- ⌘ Promulgated under National Road Traffic Act
- ⌘ Based on consultation with Provinces and Industry Committees
- ⌘ Primarily affect vehicle use and operation

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# TECHNICAL LEGISLATIVE FRAMEWORK

## ■ Other South African Legislation and Governmental Imperatives

- ⌘ Emission: vehicle emissions
- ⌘ Asbestos: use within vehicle components
- ⌘ Etc.

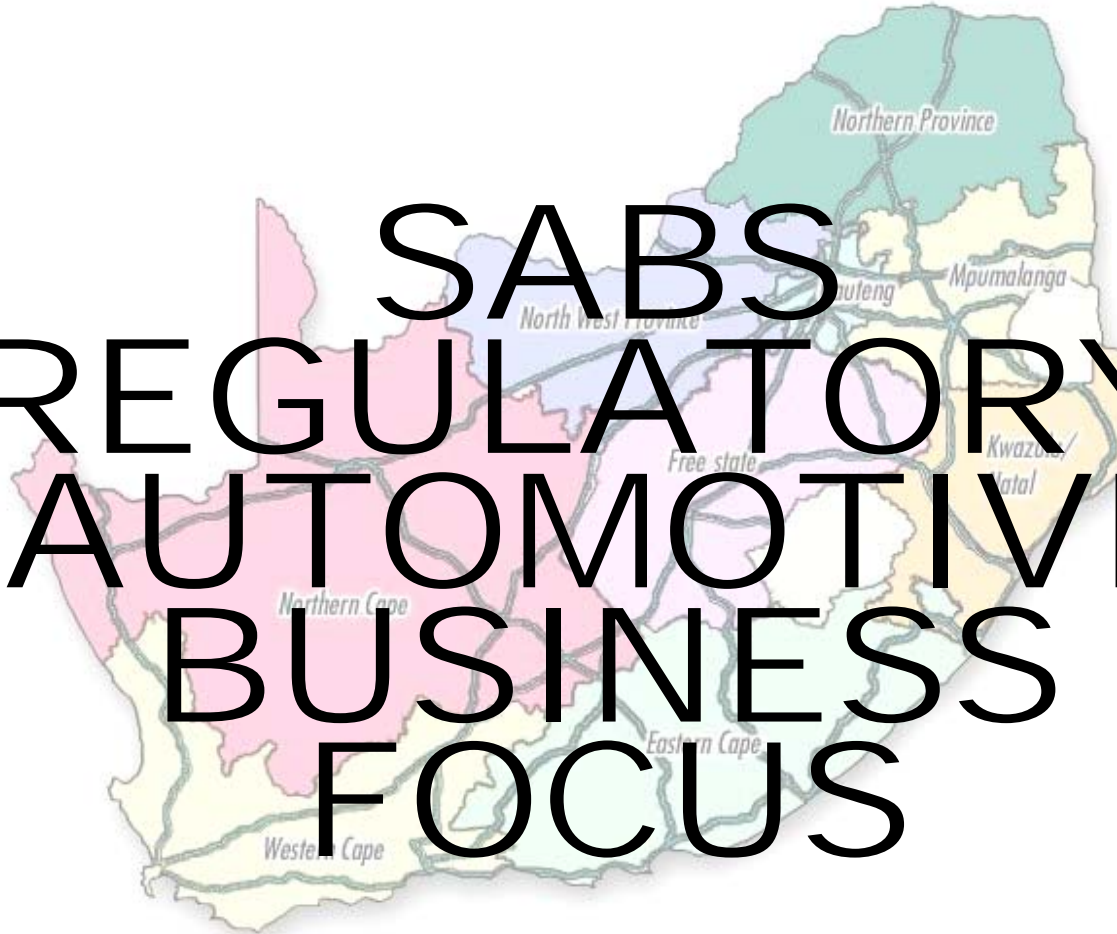


# TECHNICAL LEGISLATIVE FRAMEWORK

- **SABS Automotive Regulatory is responsible for Compulsory Vehicle Safety Standards and National Road Traffic Regulations implementation**
  - ⌘ **Manufacturers, Importers and Builders (MIB) initial and continuous compliance inspections**
  - ⌘ **Homologation & Vehicle approval processes and continuous product compliance inspection**
  - ⌘ **Replacement vehicle components, tyres and other identified safety critical accessory (e.g. child restraints) approval and inspection**
  - ⌘ **Sanctions of non-compliance**



# SABS REGULATORY: AUTOMOTIVE BUSINESS FOCUS







# MANDATED SPECIFICATIONS & STANDARDS

- **20 Compulsory Specifications** as published by the Department of Trade and Industry in the Government Gazette
  - **7 Compulsory Specifications** relates to complete vehicle approval
    - VC 8022: Compulsory specification for motor vehicles of category M1.
    - VC 8023: Compulsory specification for motor vehicles of category M2 and M3.
    - VC 8024: Compulsory specification for motor vehicles of category N1.
    - VC 8025: Compulsory specification for motor vehicles of category N2 and N3.
    - VC 8026: Category O1 and O2 vehicles (caravans and light trailers).
    - VC 8027: Category O3 and O4 vehicles (trailers)
    - VC 8057: Agricultural tractors



# MANDATED SPECIFICATIONS & STANDARDS

- **7 Compulsory Specifications** relates to components and accessories
  - VC 8013: Hydraulic brake and clutch fluid
  - VC 8016: Safety helmets for motor cyclists
  - VC 8033: Child restraints for use in motor vehicles.
  - VC 8056: Compulsory specification for pneumatic tyres for passenger cars and trailers.
  - VC 8059: Compulsory specification for pneumatic tyres for commercial vehicles and their trailers.
  - VC 8065: Ball type couplings and towing brackets for towing caravans and light trailers.
  - VC 8078: Compulsory specification for material for contour marking on motor vehicles.



# MANDATED SPECIFICATIONS & STANDARDS

- **6 Compulsory Specifications** for replacement components
  - VC 8048: Replacement incandescent lamps for motor vehicles.  
(Use with: SANS 1376-1.)
  - VC 8049: Replacement headlights for motor vehicles.
  - VC 8050: Replacement secondary lights for motor vehicles.
  - VC 8051: Replacement safety glass for use in road vehicles.
  - VC 8053: Replacement brake lining assemblies for road vehicles.
  - VC 8080: Replacement elastomeric cups and seals for hydraulic brake actuating cylinders for use in motor vehicles using non-petroleum base hydraulic brake fluid (service temperature 70°C to 150°C max).



# MANDATED SPECIFICATIONS & STANDARDS

- **78 Voluntary National Standards** that are referenced by the various Compulsory Specifications and the National Road Traffic Act.
- **67 Voluntary Standards** are currently captured in the 20000 series of SANS standards – over prints of UN ECE Regulations (not all referenced in Compulsory Specifications or National Road Traffic Act)
- South Africa is currently bound to **45 UN ECE Regulations** related to 1958 Agreement
- South Africa will adopt GTR1 into national legislation as an equivalent standard  
(South Africa will accept motorcycles that provides proof of compliance to GTR2)



# LIST OF UN ECE REGULATIONS

## UN ECE REGULATIONS - SOUTH AFRICAN BOUND LIST

| UN ECE<br>REG. NO. | SHORT TITLE  | SA BOUND |           | VEHICLE COMPULSORY<br>REQUIREMENT |
|--------------------|--|----------|-----------|-----------------------------------|
|                    |  |          | Date      |                                   |
| 1                  | Headlamps (including R2 and/or Drive Beam Lamps)   | Bound    | 17-Jun-01 | SABS 1376                         |
| 3                  | Retro-reflective devices                           | Bound    | 17-Jun-01 | SABS 1376                         |
| 5                  | Headlamps (sealed beam)                            | Bound    | 17-Jun-01 | SABS 1376                         |
| 6                  | Direction indicators                               | Bound    | 17-Jun-01 | SABS 1376                         |
| 7                  | End-outline marker/front-side/rear-side/stop lamps | Bound    | 17-Jun-01 | SABS 1376                         |
| 8                  | Headlamps (H1,H2,H3,HB3,HB4,H7,H8 and/or HIR1)     | Bound    | 17-Jun-01 | SABS 1376                         |
| 13                 | Braking  | Bound    | 17-Jun-01 | SABS 1207 or 20013                |
| 13H                | Braking  | Bound    | 17-Jun-01 | SABS 1207 or 20013-H              |
| 14                 | Seat belt anchorages                               | Bound    | 17-Jun-01 | SABS 1430                         |
| 17                 | Seat strength                                      | Bound    | 17-Jun-01 | SABS 1429                         |
| 20                 | Headlamps (H4)                                     | Bound    | 17-Jun-01 | SABS 1376                         |
| 23                 | Reversing lamps                                    | Bound    | 17-Jun-01 | SABS 1376                         |
| 25                 | Head restraints                                    | Bound    | 17-Jun-01 | SABS 1269                         |
| 27                 | Advance warning triangle                           | Bound    | 17-Jun-01 | SABS 1329 -1                      |
| 30                 | Tyres (motor vehicles and their trailers)          | Bound    | 17-Jun-01 | VC 8056                           |



# LIST OF UN ECE REGULATIONS

## UN ECE REGULATIONS - SOUTH AFRICAN BOUND LIST

| UN ECE<br>REG. NO. | SHORT TITLE  | SA BOUND |           | VEHICLE COMPULSORY<br>REQUIREMENT |
|--------------------|--|----------|-----------|-----------------------------------|
|                    |  |          | Date      |                                   |
| 30                 | Tyres(motor vehicles and their trailers)   | Bound    | 17-Jun-01 | VC 8056                           |
| 31                 | Headlamps (halogen sealed beam)  | Bound    | 17-Jun-01 | SABS 1376                         |
| 37                 | Filament lamps for use in approved lamps   | Bound    | 17-Jun-01 | SABS 1376                         |
| 38                 | Rear fog lamps   | Bound    | 17-Jun-01 | SABS 1376                         |
| 43                 | Safety glazing   | Bound    | 17-Jun-01 | SABS 1191/ 1192/1193              |
| 46                 | Rear view mirrors  | Bound    | 17-Jun-01 | SABS 1436                         |
| 50                 | Front/rear position/stop lamps, direction indicator, rear registration plate lamp (moped/motorcycle) | Bound    | 17-Jun-01 |                                   |
| 54                 | Tyres (commercial vehicles and their trailers)   | Bound    | 17-Jun-01 | VC 8059                           |
| 56                 | Headlamps (mopeds)   | Bound    | 17-Jun-01 | National Road Traffic Act         |
| 57                 | Headlamps (motorcycles)  | Bound    | 17-Jun-01 | National Road Traffic Act         |
| 72                 | Headlamps (HS1 lamps) (motorcycles)  | Bound    | 17-Jun-01 | National Road Traffic Act         |
| 77                 | Parking lamps  | Bound    | 17-Jun-01 | SABS 1376                         |
| 82                 | Headlamps (HS2 lamps) (mopeds)   | Bound    | 17-Jun-01 |                                   |
| 90                 | Replacement brake lining assemblies  | Bound    | 17-Jun-01 | VC 8053                           |
| 91                 | Side marker lamps  | Bound    | 17-Jun-01 | SABS 1376                         |



# LIST OF UN ECE REGULATIONS

## UN ECE REGULATIONS - SOUTH AFRICAN BOUND/NOT BOUND

| UN ECE<br>REG. NO. | SHORT TITLE  | SA BOUND |           | VEHICLE COMPULSORY<br>REQUIREMENT or<br>NATIONAL STANDARD |
|--------------------|--|----------|-----------|---|
|                    |  |          | Date      |   |
| 98                 | Headlamps with gas-discharge light sources   | Bound    | 17-Jun-01 | SANS 20098  |
| 99                 | Gas-discharge light sources  | Bound    | 17-Jun-01 | SANS 20099  |
| 104                | Contour and strip markings   | Bound    | 17-Jun-01 | SANS 20104  |
| 110                | Specific components for CNG  | Bound    | 17-Jun-01 | SANS 20110  |
| 111                | Tank vehicles of category N and O with regard to rollover stability                              | Bound    | 17-Jun-01 | SANS 20111  |
| 112                | Headlamps emitting an asymmetrical passing beam or driving beam and equipped with filament lamps | Bound    | 21-Sep-01 | SANS 20112  |
| 113                | Headlamps emitting an symmetrical passing beam or driving beam and equipped with filament lamps  | Bound    | 21-Sep-01 |   |
| 114                | Airbag module for a replacement airbag system  | Bound    | 01-Feb-03 |   |
| 115                | I. Specific LPG retrofit systems   | Bound    | 30-Oct-03 |   |
|                    | II. Specific CNG retrofit systems  |          |           |   |



# COMPULSORY VEHICLE STANDARDS:- M<sub>2</sub>/M<sub>3</sub> Category Vehicles







# M<sub>2</sub>/M<sub>3</sub> Category Vehicle Compulsory Standard

## ■ VC 8023: Compulsory Specification for New Motor Vehicles of Category M<sub>2</sub> and M<sub>3</sub>

- ⌘ **Category M<sub>2</sub> and M<sub>3</sub> vehicles include**
  - ◆ minibuses, urban buses, inter-urban buses, touring buses, bus-trains and semi-trailer buses
- ⌘ **CATEGORY M<sub>2</sub> MOTOR VEHICLE, HEREINAFTER REFFERRED TO AS A VEHICLE:** A motor vehicle that is used for the carriage of passengers, that has at least four wheels, and that has seating accommodation for more than eight passengers in addition to the driver of the vehicle, and that has a maximum mass not exceeding 5t.
- ⌘ **CATEGORY M<sub>3</sub> MOTOR VEHICLE, HEREINAFTER REFFERRED TO AS A VEHICLE:** A motor vehicle that is used for the carriage of passengers, that has at least four wheels, and that has seating accommodation for more than eight passengers in addition to the driver of the vehicle, and that has a maximum mass exceeding 5t.



# M<sub>2</sub>/M<sub>3</sub> Category Vehicle Compulsory Standard

## ■ Requirements for...

- ⌘ lights, lighting equipment and rear warning signs.
- ⌘ rear-view mirrors and vision (windcreens, windows and partitions)
- ⌘ brakes and braking equipment
- ⌘ controls, steering and audible warning devices
- ⌘ doors, entrances and exists
- ⌘ seats, seat anchorages and restraining devices (safety belts)



# M<sub>2</sub>/M<sub>3</sub> Category Vehicle Compulsory Standard

## ■ Requirements for...

- ⌘ electrical connectors
- ⌘ warning triangles
- ⌘ the control of environmental interference
- ⌘ metrological data (dimensions, mass, data plate)
- ⌘ vehicle structure, equipment, components and systems
- ⌘ vehicle fluids – hydraulic brake and clutch fluid



# **Compulsory specification for new vehicles of category $M_2/M_3$**

**Table 1 - Equivalent standards that  
may be deemed to comply with  
SABS standards**

# South African Bureau of Standards: AUTOMOTIVE REGULATORY



| Subsection | Item                   | SABS No. | Dated | Equivalent standards |        |        |   | Remarks |
|------------|------------------------|----------|-------|----------------------|--------|--------|---|---------|
|            |                        |          |       | EEC                  | Incl   | ECE    | Others  |         |
| 3.1.1      | Lights                 | 1376-1   | 1983  | 76/757               |        | R1     | Applicable only to head-lamps, direction indicators, stop, front and rear position lights |         |
|            |                        | 1376-2   | 1985  | 76/758               |        | R2.02  |   |         |
|            |                        | 1376-3   | 1985  | 76/759               |        | R3.02  |   |         |
|            |                        |          |       | 76/760               |        | R4     |   |         |
|            |                        |          |       | 76/761               |        | R5.01  |   |         |
|            |                        |          |       | 76/762               |        | R6.01  |   |         |
|            |                        |          |       | 77/538               |        | R7.01  |   |         |
|            |                        |          |       | 77/539               |        | R8.04  |   |         |
|            |                        |          |       | 77/540               |        | R19.01 |   |         |
|            |                        |          |       |                      |        | R20.02 |   |         |
|            |                        | R23      |       |                      |        |        |   |         |
|            |                        | R31.01   |       |                      |        |        |   |         |
|            |                        | R37.02   |       |                      |        |        |   |         |
|            |                        | R38      |       |                      |        |        |   |         |
|            |                        | R77      |       |                      |        |        |   |         |
| 3.1.2      | Installation of lights | 1046     | 1990  | 76/756               | 89/278 | R48    |   |         |
| 3.1.3      | Rear warning signs     | Act      | 1989  |                      |        |        |   |         |
| 3.2.1      | Rear-view mirrors      | 1436     | 1989  | 71/127               | 88/321 | R46.01 |   |         |
| 3.2.2.1.1  | Windows and partitions | 1191     | 1978  | 92/22                |        | R43    |   |         |
|            |                        | or       | 1193  | 1978                 | 92/92  |        | R43   |         |
| 3.2.2.1.2  | Windscreens            | 1191     | 1978  | 92/22                |        | R43    |   |         |
| 3.2.2.1.3  | Plastics glazing       | 1472     | 1989  |                      |        |        |   |         |

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# South African Bureau of Standards: AUTOMOTIVE REGULATORY



|       |                                       |                                |              |                  |        |                   |             |
|-------|---------------------------------------|--------------------------------|--------------|------------------|--------|-------------------|-------------|
| 3.3   | Braking                               | 1207                           | 1985         | 71/320           | 79/489 | R13.04            |             |
|       | or                                    | 1506                           | 1990         | 71/320           | 85/647 | R13.05            |             |
| 3.4.3 | Audible warning devices               | 0169                           | 1984         | 70/388           |        | R28.01            |             |
| 3.6.1 | Seats and seat anchor-ages            | 1564                           | 1992         |                  |        | R80               |             |
| 3.8   | Warning triangles                     | 1329-1                         | 1987         |                  |        | R27.03            | If supplied |
| 4.1   | Radio interference                    | Act                            | 1952         | 72/245           |        | R10.01            |             |
| 4.2   | Atmospheric pollution                 | Act                            | 1965         | 70/220<br>72/306 |        | R15<br>R24<br>R83 |             |
| 4.3.1 | Noise when in motion                  | 097                            | 1975         | 70/157           | 77/212 | R51               |             |
| 4.3.2 | Noise when stationary                 | 0181<br>0281                   | 1981<br>1994 | 70/157           | 84/424 | R51               |             |
| 5.2.1 | Data plate(s)                         |                                |              | 76/114           | 78/507 |                   |             |
| 5.2.5 | Vehicle identification number (VIN)   | SABS ISO 3779<br>SABS ISO 4030 | 1983<br>1983 |                  |        |                   |             |
| 6.1   | Superstructure (roll-over protection) | 1563                           | 1992         |                  |        | R66               |             |
| 6.3   | Speedometer                           | 1441                           | 1987         | 75/443           |        | R39               |             |
| 6.8   | Tyres                                 | Act                            | 1989         |                  |        | R30               |             |

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# SAFETY CRITICAL ITEMS

## ■ Head lamps & other lamps

- ⌘ SANS 1376-1, 1376-2, 1376-3
- ⌘ UN ECE Reg. No.: 1, 3, 4, 5, 7, 8, 20, 23, 31, 37, 38, 50, 56, 57, 72, 77, 82, 91, 98, 99.

## ■ Safety Glazing

- ⌘ SANS 1191, 1193, 1472
- ⌘ UN ECE Reg. No. 43

## ■ Rear-view Mirrors

- ⌘ SANS 1436
- ⌘ UN ECE Reg. No. 46



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# SAFETY CRITICAL ITEMS

## ■ Contour & Strip Marking

- ⌘ National Road Traffic Act & Regulations
- ⌘ UN ECE Reg. No. 104

## ■ Advance Warning Triangles

- ⌘ National Road Traffic Act & Regulations
- ⌘ SANS 1329-1
- ⌘ UN ECE Reg. No. 27







# SAFETY CRITICAL ITEMS

## ■ Seat Belts & Anchorages

- ⌘ SANS 1080, 1563, 1564, 20014
- ⌘ UN ECE Reg. No. 14

## ■ Seat Strength

- ⌘ SANS 1429, 1430, 20017
- ⌘ UN ECE Reg. No. 17

## ■ Roll Over Protection Structure (ROPS)

- ⌘ SANS 1563
- ⌘ UN ECE Reg. No. 66





# SAFETY CRITICAL ITEMS

## ■ Brakes

- ⌘ SANS 1207, 20013
- ⌘ UN ECE Reg. No. 13
  - ⌘ UN ECE Reg. No. 13H accepted for M1

## ■ Speedometer

- ⌘ SANS 1441
- ⌘ UN ECE Reg. No. 39

## ■ Tyres

- ⌘ NRTA & Regulations
- ⌘ VC 8059 – Comp. Spec. Commercial Tyres
- ⌘ UN ECE Reg. No. 30





# ADMINISTRATION OF AGREEMENTS: SABS Regulatory





# ADMINISTRATION OF AGREEMENTS

- The Regulatory Division within SABS was designated by the Department of Trade and Industry to represent South Africa at the UN WP 29 meetings.
- A national mirror committee of WP 29 (WP29 Stakeholder Forum) is used to develop national positions and to consider how the UN regulations should be incorporated into national technical regulations.



# WP29 STAKEHOLDERS FORUM

## ■ SCOPE

### The forum will deal with

- ⌘ The need for vehicle safety and environmental regulation/policy that is conducive to South Africa
- ⌘ Matters referred to it by the Executive: SABS Regulatory
- ⌘ Matters arising from regulations/legislators, the automotive industry and consumers
- ⌘ Other matters concerning automotive legislation
- ⌘ The forum will operate within the framework of the UN ECE WP29 forum, Standards Act, National Road Traffic Act, relevant Codes of Practice and other relevant National Legislation
- ⌘ Establish a South African perspective in preparation for official meetings of WP29
- ⌘ Participate in WP29 working groups (GRs)



# WP29 STAKEHOLDERS FORUM

## ■ OPERATIONAL PROCEDURES

- ⌘ WP29 Stakeholders Forum (SF) will meet to deliberate on matters on the official agenda and will meet three (3) times per year prior to the official WP29 meeting
- ⌘ Specific matters or regulations will be referred to Specialist Working Groups as and when necessity dictates
- ⌘ The Executive of SABS Regulatory will consider and appoint Specialist Working Groups comprising membership as proposed by WP29 SF
- ⌘ The Specialist Working Groups will deliberate on matters referred to them by WP29 SF and present recommendations to the the SF for consideration
- ⌘ The Specialist Working Group will meet when and where necessity dictates



# WP29 STAKEHOLDERS FORUM

## ■ CONSTITUTION

- ⌘ The Executive: Regulatory or the person nominated by the Executive will serve as the chairperson of the WP29 SF
- ⌘ Representatives (or alternates) from the following sectors will be invited to serve
  - ⌘ Government Departments (DTI, DoT, DEAT, DME)
  - ⌘ Governmental Agencies (ITAC, SARS, SAPS, RTMC, SANRAL)
  - ⌘ Automotive Industry (NAAMSA, NAACAM, RMI, SATMC, SABOA, PCA/IRTE)
  - ⌘ Standards – Transportation (StanSA)
  - ⌘ SABS Regulatory: Automotive Department
  - ⌘ Consumer Associations of South Africa
  - ⌘ Conformity Service Providers (SABS Commercial, NLA, SANAS)



# WP29 STAKEHOLDERS FORUM

## ■ CONSTITUTION (continue)

- ⌘ Other sectors may be invited on an ad hoc basis as necessity dictate
- ⌘ Membership will be forfeited when
  - ⌘ Two consecutive meetings are missed without tendering of a formal apology; and
  - ⌘ Members the fail to constructively participate in the activities of WP29 SF





# WP29 STAKEHOLDERS FORUM

## ■ CONFIDENTIALITY

- ⌘ The meetings of WP29 are confidential and members shall not publicly divulge confidential information
- ⌘ Only the Executive: Regulatory has the authority to make any public announcements regarding matters discussed at WP29 SF meetings
- ⌘ Members may quote WP29 SF as a reference but may only do so with respect to their own position and not on behalf of WP29 SF
- ⌘ Only Government (DTI) shall communicate its position on any policies, report on the status of draft legislation, implementation of legislation or any other matters with respect to legislation, including matters related to developments in the United Nations



# WP29 STAKEHOLDERS FORUM

## ■ CONDUCT

- ⌘ It would be considered unprofessional to misuse information gained at WP-29 SF for material or personal benefit by either an individual serving on WP-29 SF or by the particular sector being represented



# THE END



## WHERE TO GET MORE INFORMATION

[www.sabs.co.za](http://www.sabs.co.za)

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# QUESTION & DISCUSSION SESSION



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