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EAST AFRICAN STANDARD

**Motor vehicle tyres and rims — Dimensions and loads — Part 1:
General**

EAST AFRICAN COMMUNITY

Foreword

Development of the East African Standards has been necessitated by the need for harmonizing requirements governing quality of products and services in East Africa. It is envisaged that through harmonized standardization, trade barriers which are encountered when goods and services are exchanged within the Community will be removed.

In order to meet the above objectives, the EAC Partner States have enacted an East African Standardization, Quality Assurance, Metrology and Test Act, 2006 (EAC SQMT Act, 2006) to make provisions for ensuring standardization, quality assurance, metrology and testing of products produced or originating in a third country and traded in the Community in order to facilitate industrial development and trade as well as helping to protect the health and safety of society and the environment in the Community.

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Article 15(1) of the EAC SQMT Act, 2006 provides that "Within six months of the declaration of an East African Standard, the Partner States shall adopt, without deviation from the approved text of the standard, the East African Standard as a national standard and withdraw any existing national standard with similar scope and purpose".

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Motor vehicle tyres and rims — Dimensions and loads — Part 1: General

1 Scope

1.1 This Part 1 of this East African Standard specifies the general requirements for motor vehicle pneumatic tyres, giving the basic definitions, details of the parameters used for tyre marking requirements and a test method for the measurement of tyre dimensions.

1.2 It does not cover motorcar racing or motorcycle racing applications.

2 Normative references

The following referenced documents are indispensable for the application of this East African Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EAS 53, *Retreaded car and commercial vehicle tyres — Specification*

EAS 357, *Pneumatic tyres for trucks and buses — Specification*

EAS 358, *Pneumatic tyres for passenger cars — Specification*

EAS 358-2, *Passenger car tyres and rims — Part 2: Rims*

EAS 359, *Pneumatic tyres for light trucks — Specification*

EAS 360, *Pneumatic tyres for agricultural Implements — Specification*

EAS 432, *Wheels and rims for pneumatic tyres — Vocabulary, designation and marking*

EAS 433-1, *Tyres, valves and tubes — List of equivalent terms — Part 1: Tyres*

EAS 433-2, *Tyres, valves and tubes — List of equivalent terms — Part 2: Tyre valves*

EAS 433-3, *Tyres, valves and tubes — List of equivalent terms — Part 3: Tubes*

EAS 433-4, *Tyres, valves and tubes — List of equivalent terms — Part 4: Solid tyres*

EAS 435, *Tubeless tyres — Valves and components — Test methods*

EAS 439-1, *Tyres and rims (metric series) for agricultural tractors and machines — Part 1: Tyre designation, dimensions and marking, and tyre/rim coordination*

EAS 439-2, *Tyres and rims (metric series) for agricultural tractors and machines — Part 2: Service description and load ratings*

EAS 440, *Tyres for agricultural tractors and machines — Code-designated and service-description marked radial drive-wheel tyres*

EAS 441, *Agricultural tractor drive wheel tyres — Method of measuring tyre rolling circumference*

EAS 443-1, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 1: Tyre designation and dimensions, and approved rim contours*

EAS 443-2, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 2: Tyre load ratings*

EAS 443-3, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 3: Rims*

EAS 443-4, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 4: Tyre classification and nomenclature*

EAS 443-5, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 5: Log skidder tyres*

EAS 444-1, *Industrial tyres and rims — Part 1: Pneumatic tyres (metric series) on 5° tapered or flat base rims — Designation, dimensions and marking*

EAS 444-2, *Industrial tyres and rims — Part 2: Pneumatic tyres (metric series) on 5° tapered or flat base rims — Load ratings*

EAS 444-3, *Industrial tyres and rims — Part 3: Rims*

EAS 445-1, *Industrial tyres and rims — Solid tyres (metric series) for pneumatic tyre rims — Designation, dimensions and marking*

EAS 445-2, *Industrial tyres and rims — Rubber solid tyres (metric series) for pneumatic tyre rims — Part 2: Load ratings*

EAS 446, *Industrial tyres and rims — Cylindrical and conical base rubber solid tyres (metric series) — Designation, dimensions and marking*

EAS 447, *Tyres for mobile cranes and similar specialized machines*

EAS 448, *Valves for tubeless tyres and valves for tubes — Identification System for valves and their components*

EAS 449-1, *Truck and bus tyres and rims (metric series) — Part 1: Tyres*

EAS 449-2, *Truck and bus tyres and rims (metric series) — Part 2: Rims*

EAS 469, *Passenger car tyres — Spare unit substitutive equipment (SUSE)*

EAS 470, *Truck and bus tyres — Verifying tyre capabilities — Laboratory test methods*

EAS 472-1, *Motorcycle tyres and rims (Code designated series) — Part 1: Tyres*

EAS 472-3, *Motorcycle tyres and rims (code-designated series) — Part 3: Rims*

EAS 473-1, *Motorcycle tyres and rims (metric series) — Part 1: Design guides*

EAS 473-2, *Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying*

EAS 473-3, *Motorcycle tyres and rims (metric series) — Part 3: Range of approved rim contours*

EAS 475-1, *Motorcycle tyres and rims (code-designated series) — Diameter Codes 4 to 12 — Part 1: Tyres*

EAS 475-2, *Motorcycle tyres and rims (Code-designated series) — Diameter Codes 4 to 12 — Part 2: Rims*

EAS 476, *Motorcycle tyres — Test methods verifying tyre capabilities*

3 Definitions

3.1 For the purposes of this standard, the following definitions apply:

3.1.1

diagonal-ply tyre

cross-ply tyre

bias-ply tyre

pneumatic tyre in which the ply cords extend to the beads and are laid at alternate angles substantially less than 90° to the tread centre line

3.1.2

inflation pressure

pressure in a tyre that has not been subjected to an increase of pressure due to the heat of vehicle operation i.e. a cold tyre

3.1.3

light truck tyre

any tyre that has a rim diameter not exceeding code 16 or, in the case of a 15° tapered drop-centre rim, code 17.5 and that is designed to fit a drop-centre or semi-drop-centre rim on a light commercial vehicle

3.1.4

load index

numerical code, denoted by a whole number, which has been allocated to the maximum load that a tyre can carry at the speed indicated by an alphabetical speed symbol designated for the tyre, under service conditions specified by the tyre manufacturer

3.1.5

measuring rim

size of rim upon which a tyre is required to be mounted for the purpose of size measurement

3.1.6

nominal aspect ratio

one hundred times the ratio of the section height to the nominal section width of the tyre on its theoretical rim

3.1.7

nominal rim diameter

size code figure for reference purposes only, as indicated in the tyre and rim size designation

3.1.8

nominal section width

section width of a tyre mounted on the theoretical rim designated by the tyre manufacturer

3.1.9

overall diameter

maximum diameter of an inflated tyre, measured at the outermost surface of the tread

3.1.10

overall width

maximum width measured between the outside sidewalls of an inflated tyre, that includes the largest protrusions due to markings, decorations, protective side ribs and bars

3.1.11

ply

layer of rubber-coated parallel cords

3.1.12

ply rating

numeric index used to identify a given tyre with its maximum recommended load when the tyre is used in a specific type of service. The rating does not necessarily represent the actual number of plies in a tyre

**3.1.13
radial-ply tyre**

pneumatic tyre in which the ply cords extend to the beads and are laid at 90° to the tread centre line, the carcass being stabilized by a circumferential belt consisting of two or more layers of essentially inextensible cord material

**3.1.14
section height**

distance equal to half the difference between the overall diameter of the tyre and the nominal rim diameter

**3.1.15
section width**

width measured between the outside sidewalls of an inflated tyre, but that excludes any protrusions due to markings, decorations, protective side ribs and bars

**3.1.16
service description**

tyre marking that consists of a load index in conjunction with a speed rating symbol, and that may form part of the tyre size designation marking moulded onto the tyre sidewall

**3.1.17
sidewall**

portion of the tyre between the tread and the bead

**3.1.18
specified rim**

rim, or rims, that give(s) the best fitment of the tyre for all conditions and service

**3.1.19
speed rating symbol**

alphabetical character used to identify (rate) the highest safe speed at which the tyre/rim combination can carry a load corresponding to its load index

**3.1.20
theoretical rim**

rim the width of which is equal to x times the nominal section width of a tyre; the value of x is specified by the manufacturer of the tyre.

**3.1.21
tread**

portion of the tyre that is normally in contact with the ground, contributing to ground adhesion, and that protects the carcass from mechanical damage

**3.1.22
wheel**

combination of a wheel disc plus the rim

**3.1.23
wheel assembly**

combination of a wheel disc plus the rim (the wheel), with the tyre and its inner tube, if applicable, installed thereon

3.2 The following terms and abbreviations are not used in this standard but are included for the benefit of the user:

3.2.1 Terms

3.2.1.1

driveaway vehicle

unloaded off-the-road or commercial vehicle being driven over a paved highway during the delivery cycle or during site-to-site transfer

3.2.1.2

front-end loader

tractor chassis that has a power-operated lifting mechanism with a bucket or similar container mounted at the front of the tractor

3.2.1.3

grown tyre

tyre that has undergone expansion due to continued service use

3.2.1.4

hillside combine

agricultural vehicle intended for service on a slope with a gradient exceeding 20 %

3.2.1.5

inflation growth

natural expansion of a tyre that has been inflated to a specified inflation pressure, allowed to stand at ambient room temperature for at least 24 h, and then re-inflated to the same specified inflation pressure

3.2.1.6

new tyre

tyre that has neither been used nor been subjected to any retreading operation

3.2.1.7

passenger-carrying commercial vehicle

commercial vehicle that is primarily designed for the carriage of passengers and that includes any bus, school bus, bus-train, minibus or semi-trailer used for passengers

3.2.1.8

permitted rim

any rim, in addition to the specified rim, whose fitment to a specified tyre is permitted

3.2.1.9

spare wheel

wheel assembly, carried as a spare, that conforms to and is identifiable with the wheel assembly specified for the vehicle. Such a spare wheel unit could be of restricted fitment depending on whether differing wheel sizes are specified for front or rear use on the vehicle

3.2.2 Abbreviations

3.2.2.1

NHS

markings on an industrial vehicle tyre that indicate restricted industrial use and denote NOT FOR HIGHWAY SERVICE

3.2.2.2

SL

markings on an agricultural vehicle tyre that indicate restricted agricultural use and denote SERVICE LIMITED

4 General requirements

4.1 Tyre size designation

The designation of a tyre shall include the nominal section width, the nominal rim diameter and, where applicable, the nominal aspect ratio and the speed rating symbol, with the additional option of including a service description rating consisting of the speed rating symbol in conjunction with the load index for the tyre.

The tyre designation shall be such that the load-carrying capacity of the tyre can be readily identified.

Diagonal-ply tyres of 6-ply rating or greater shall be marked with the relevant ply rating and passenger car tyres not marked with any rating shall always be taken as 4-ply.

Commercial vehicle tyres may be identified by the initial 'C' adjacent to the tyre designation marking. Tyres of radial-ply construction shall be clearly marked either 'R1' or 'RADIAL'. Reinforced tyres shall bear the marking 'REINFORCED'. Tubeless tyres shall be marked 'TUBELESS'.

Special tyres designed for temporary use only shall have additional markings in at least one of the official languages, identifying any particular restrictions regarding their use.

4.2 Nominal section width

4.2.1 Radial-ply tyres

The nominal section width shall be expressed in millimetres or by a numeric code where applicable. In any one series of metric tyres with the same nominal aspect ratio, the nominal section width (in millimetres) will usually end with either a '0' or a '5'.

4.2.2 Diagonal-ply tyres

The nominal section width shall always be expressed as a numeric code.

4.2.3 Numeric code

The code shall be a number which, when multiplied by 25.4, serves to give the nominal section width in millimetres.

4.3 Nominal rim diameter

The nominal rim diameter shall be expressed by the code given in Table 1 or in the appropriate table in the standards manuals (see Clause 2).

It should be noted that the nominal rim diameters given in Table 1 may differ from those given in the standards manuals.

Table 1 — Nominal rim diameter code

| 1 | 2 |
|----------------------------|------|
| Nominal rim diameter mm | Code |
| 102 | 4 |
| 127 | 5 |
| 152 | 6 |
| 178 | 7 |
| 203 | 8 |
| 229 | 9 |
| 254 | 10 |
| 279 | 11 |
| 305 | 12 |
| 330 | 13 |
| 356 | 14 |
| 368 | 14.5 |
| 381 | 15 |
| 406 | 16 |
| 419 | 16.5 |
| 432 | 17 |
| 445 | 17.5 |
| 457 | 18 |
| 482 | 19 |
| 495 | 19.5 |
| 508 | 20 |
| 521 | 20.5 |
| 533 | 21 |
| 559 | 22 |
| 572 | 22.5 |
| 610 | 24 |
| 622 | 24.5 |

4.4 Nominal aspect ratio

The nominal aspect ratio shall always be expressed as a percentage and, when used for the purpose of classifying a type of tyre, the value shall be treated as approximate only (for example '82 Series Reinforced Radial-ply Tyres').

4.5 Speed rating symbol markings

Truck/bus tyres, tyres used for passenger cars, motorcycles and light trucks, normally require a speed rating symbol marking.

The speed limits and the interdependent load capacities for different categories of tyres are treated separately and are identified by the applicable speed rating symbol markings in the relevant parts of this standard.

The maximum safe speed for diagonal-ply and radial-ply tyres is given in Tables 2 and 3 respectively.

Table 2 — Maximum safe speed for passenger diagonal-ply tyres with no speed rating symbol

| 1 | 2 |
|---------------|--------------------|
| Rim size code | Maximum safe speed |
| 10 | 120 |
| 20 | 135 |
| 13 or larger | 150 |

NOTE Diagonal-ply tyre are normally not speed index marked. In the exceptional cases where they are speed index marked, the speed index marking takes precedence over the above table.

Table 3 — Maximum safe speed for radial-ply and diagonal-ply tyres with speed rating symbols

| 1 Speed rating symbol | 2 Maximum safe speed km/h |
|--------------------------|---------------------------------|
| A1 | 5 |
| A2 | 10 |
| A3 | 15 |
| A4 | 20 |
| A5 | 25 |
| A6 | 30 |
| A7 | 35 |
| A8 | 40 |
| B | 50 |
| C | 60 |
| D | 65 |
| E | 70 |
| F | 80 |
| G | 90 |
| J | 100 |
| K | 110 |
| L | 120 |
| M | 130 |
| N | 140 |
| P | 150 |
| Q | 160 |
| R | 170 |
| S | 180 |
| T | 190 |
| U | 200 |
| H | 210 |
| V | 240 |
| W | 270 |
| Y | 300 |
| ZR (radial) | OVER 240 |
| ZB | OVER 240 |

NOTE 1 In the case of motorcycles tyres,
— the maximum safe speed for unmarked tyres is 150 km/h, and
— the maximum safe speed for "V" marked tyres is over 210 km/h.

NOTE 2 In the case of passenger car tyres,
— some radial-ply tyres may be marked in the European style with the "V" speed rating symbol (e.g. 225/55 R14 91 V) and these tyres are designed for fitment to vehicles with a manufacturer's declared speed not exceeding 240 km/h,
— tyres marked with ZR and ZB speed rating symbol (e.g. 195/50 ZR 15) are for vehicles with a manufacturer's declared speed exceeding 240 km/h (see table 4), and,
— for a transitional period, tyres marked with a VR speed rating symbols rating symbol (e.g. 185/60 VR 13) will be available. Consult the manufacturer concerned regarding the maximum speed of these tyres.

4.6 Load index number

Some tyres may also be identified by the optional addition of a service description marking consisting of a load index (LI) in conjunction with the speed rating symbol associated with that specific tyre. Such a service description marking, if used, shall be marked on the tyre immediately following the tyre size designation mark.

When optional service description markings are used on commercial or light truck tyres, the speed rating symbol may be preceded by one or two load index numbers. In the latter case, the load index numbers shall be separated by a stroke and the higher number shall indicate the maximum tyre load for single fitment and the lower number the maximum tyre load for dual fitment at the indicated speed rating symbol.

The maximum tyre loads allocated to specific load index numbers (LI) are given in table 4.

In cases where the tyre has a load index marking, that marking takes precedence over the information in the relevant load pressure table.

In cases where a tyre size is not listed in the standard in Clause 2 or in this East African Standard, the load index, if marked on the tyre, applies.

4.7 Regrooving

Regrooving is only allowed on tyres that are marked "REGROOVABLE" or with the symbol "t/" or with the symbol "U".

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Table 4 — Maximum load for a given load index (LI)

| 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
|----|------|----|-----|-----|------|-----|------|-----|-------|-----|-------|-----|--------|
| LI | kg | LI | kg | LI | kg | U | kg | LI | kg | LI | kg | LI | kg |
| 0 | 45 | 40 | 140 | 80 | 450 | 120 | 1400 | 160 | 4500 | 200 | 14000 | 240 | 45000 |
| 1 | 46.2 | 41 | 145 | 81 | 462 | 121 | 1450 | 161 | 4625 | 201 | 14500 | 241 | 46250 |
| 2 | 47.5 | 42 | 150 | 82 | 475 | 122 | 1500 | 162 | 4750 | 202 | 15000 | 242 | 47500 |
| 3 | 48.7 | 43 | 155 | 83 | 487 | 123 | 1550 | 163 | 4875 | 203 | 15500 | 243 | 48750 |
| 4 | 50 | 44 | 160 | 84 | 500 | 124 | 1600 | 164 | 5000 | 204 | 16000 | 244 | 50000 |
| 5 | 51.5 | 45 | 165 | 85 | 515 | 125 | 1650 | 165 | 5150 | 205 | 16500 | 245 | 51500 |
| 6 | 53 | 46 | 170 | 86 | 530 | 126 | 1700 | 166 | 5300 | 206 | 17000 | 246 | 53000 |
| 7 | 54.5 | 47 | 175 | 87 | 545 | 127 | 1750 | 167 | 5450 | 207 | 17500 | 247 | 54500 |
| 8 | 56 | 48 | 180 | 88 | 560 | 128 | 1800 | 168 | 5600 | 208 | 18000 | 248 | 56000 |
| 9 | 58 | 49 | 190 | 89 | 580 | 129 | 1850 | 169 | 5800 | 209 | 18500 | 249 | 58000 |
| 10 | 60 | 50 | 195 | 90 | 600 | 130 | 1900 | 170 | 6000 | 210 | 19000 | 250 | 60000 |
| 11 | 61.5 | 51 | 195 | 91 | 615 | 131 | 1950 | 171 | 6150 | 211 | 19500 | 251 | 61500 |
| 12 | 63 | 52 | 200 | 92 | 630 | 132 | 2000 | 172 | 6300 | 212 | 20000 | 252 | 63000 |
| 13 | 65 | 53 | 206 | 93 | 650 | 133 | 2060 | 173 | 6500 | 213 | 20600 | 253 | 65000 |
| 14 | 67 | 54 | 212 | 94 | 670 | 134 | 2120 | 174 | 6700 | 214 | 21200 | 254 | 67000 |
| 15 | 69 | 55 | 218 | 95 | 690 | 135 | 2180 | 175 | 6900 | 215 | 21800 | 255 | 69000 |
| 16 | 71 | 56 | 224 | 96 | 710 | 136 | 2240 | 176 | 7100 | 216 | 22400 | 256 | 71000 |
| 17 | 73 | 57 | 230 | 97 | 730 | 137 | 2300 | 177 | 7300 | 217 | 23000 | 257 | 73000 |
| 18 | 75 | 58 | 236 | 98 | 750 | 138 | 2360 | 178 | 7500 | 218 | 23600 | 258 | 75000 |
| 19 | 77.5 | 59 | 243 | 99 | 775 | 139 | 2430 | 179 | 7750 | 219 | 24300 | 259 | 77500 |
| 20 | 80 | 60 | 250 | 100 | 800 | 140 | 2500 | 180 | 8000 | 220 | 25000 | 260 | 80000 |
| 21 | 82.5 | 61 | 257 | 101 | 825 | 141 | 2575 | 181 | 8250 | 221 | 25750 | 261 | 82500 |
| 22 | 85 | 62 | 265 | 102 | 850 | 142 | 2650 | 182 | 8500 | 222 | 26500 | 262 | 85000 |
| 23 | 87.5 | 63 | 272 | 103 | 875 | 143 | 2750 | 183 | 8750 | 223 | 27250 | 263 | 87500 |
| 24 | 90 | 64 | 280 | 104 | 900 | 144 | 2800 | 184 | 9000 | 224 | 28000 | 264 | 90000 |
| 25 | 92.5 | 65 | 290 | 105 | 925 | 145 | 2900 | 185 | 9250 | 225 | 29000 | 265 | 92500 |
| 26 | 95 | 66 | 300 | 106 | 950 | 146 | 3000 | 186 | 9500 | 226 | 30000 | 266 | 95000 |
| 27 | 97 | 67 | 307 | 107 | 975 | 147 | 3075 | 187 | 9750 | 227 | 30750 | 267 | 97500 |
| 28 | 100 | 68 | 315 | 108 | 1000 | 148 | 3150 | 188 | 10000 | 228 | 31500 | 268 | 100000 |
| 29 | 103 | 69 | 325 | 109 | 1030 | 149 | 3250 | 189 | 10300 | 229 | 32500 | 269 | 103000 |
| 30 | 106 | 70 | 335 | 110 | 1060 | 150 | 3350 | 190 | 10600 | 230 | 33500 | 270 | 106000 |
| 31 | 109 | 71 | 345 | 111 | 1090 | 151 | 3450 | 191 | 10900 | 231 | 34500 | 271 | 109000 |
| 32 | 112 | 72 | 355 | 112 | 1120 | 152 | 3500 | 192 | 11200 | 232 | 35500 | 272 | 112000 |
| 33 | 115 | 73 | 365 | 113 | 1150 | 153 | 3650 | 193 | 11500 | 233 | 36500 | 273 | 115000 |
| 34 | 118 | 74 | 375 | 114 | 1180 | 154 | 3750 | 194 | 11800 | 234 | 37500 | 274 | 118000 |
| 35 | 121 | 75 | 387 | 115 | 1215 | 155 | 3875 | 195 | 12150 | 235 | 38750 | 275 | 121000 |
| 36 | 125 | 76 | 400 | 116 | 1250 | 156 | 4000 | 196 | 12500 | 236 | 40000 | 276 | 125000 |
| 37 | 128 | 77 | 412 | 117 | 1285 | 157 | 4125 | 197 | 12850 | 237 | 41250 | 277 | 128000 |
| 38 | 132 | 78 | 425 | 118 | 1320 | 158 | 4250 | 198 | 13200 | 238 | 42500 | 278 | 132500 |
| 39 | 136 | 79 | 437 | 119 | 1360 | 159 | 4375 | 199 | 13600 | 239 | 43750 | 279 | 136000 |

NOTE 1 A load index marked on a tyre takes precedence over the information in the load/pressure tables as referred to or given in this East African Standards series.

NOTE 2 In cases where a tyre size is not listed in this standard, the load index, if marked on the tyre, applies

5 Inspection and test

5.1 Visual inspection

Visually inspect each tyre for compliance with those requirements of the standard for which tests to assess compliance are not given in 5.2.

5.2 Measuring the section width and overall diameter

5.2.1 Test conditions and sample

The test procedure shall be carried out at ambient room temperature without any load on the tyre. The tyre used for the test procedure shall be a new one that has not previously been inflated.

5.2.2 Mounting

Mount the tyre together with its tube, valve and flap, as applicable, on the specified measuring rim.

5.2.3 Inflation

Inflate the tyre to the maximum specified inflation pressure for its normal service as given in the relevant table in the standards in Clause 2, except in the case of passenger car or motorcycle tyres, where the inflation pressures for measurement purposes shall be as given in Table 5.

Table 5 — Measuring inflation pressure

| 1 | | 2 |
|--------------|---------------|---|
| Tyre type | | Measuring inflation pressure ^{a)} kPa |
| Diagonal ply | Normal 4 PR | 170 |
| | 6 PR | 210 |
| Radial | SR Normal | 180 |
| | SR Reinforced | 230 |
| | HR | 180 |
| | VR | 180 |
| | ZR | 180 |

^{a)} These pressures shall be used for measuring purposes on the measuring rim only.

5.2.4 Conditioning period

Allow the tyre to stand at ambient room temperature for a period of at least 24 h.

5.2.5 Re-inflation

Ensure that the tyre is adjusted to its correct inflation pressure, before proceeding with the measurements.

5.2.6 Dimensional measurements

5.2.6.1 Section width

Measure the maximum cross section width across the side wall at each of six positions approximately equidistant around the circumference of the tyre at locations where there are no markings, decorations, protective bands or ribs. The average of these six measurements is the maximum section width.

5.2.6.2 Overall width

Measure the maximum cross section width across the sidewall at that location on the tyre where the largest protrusions exist due to markings, lettering embellishments or protective side ribs.

5.2.6.3 Overall diameter

Determine the overall diameter of the tyre by measuring the circumference around the tyre at the tread centre line and dividing the distance measured by π (take π as 3.1416).

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