

28-1 Tyre: Effective date from 2013/1/1

Refer to: R30 02-S16, R54 00-S17, R75 00-S13

28-1.1 Effective date and Scope:

28-1.1.1 Effective date from 2013/1/1, the new type of tyres used in category symbols M, N and O and L, shall comply with this regulation.

28-1.1.2 Effective date from 2015/1/1, each type of run flat tyre and speeds in excess of 300 km/h tyre of the category symbols M1, O1 and O2 shall comply with this regulation.

28-1.1.3 Effective date from 2015/1/1, each type of Tyres used in category symbols L shall comply with this regulation.

28-1.1.4 As for the category symbol N1, the new pneumatic tyres shall comply with paragraphs either 28-1.4. or 28-1.5. specified below in this regulation.

28-1.1.5 Except for large passenger vehicle and child-only vehicle, applicants applying for low volume safety approval could exempt from this regulation.

28-1.1.6 Applying for vehicle-by-vehicle low volume safety approval, it could exempt from this regulation.

28-1.2 Definitions:

28-1.2.1 Snow tyre: means a tyre whose tread pattern and whose structure are primarily designed to ensure in mud and fresh or melting snow a performance better than that of an ordinary (road-type) tyre. The tread pattern of a snow tyre generally consists of groove (rib) and/or solid-block elements more widely spaced than on an ordinary (road type) tyre;

28-1.2.2 "Diagonal" or "bias-ply": describes a pneumatic-tyre structure in which the ply cords extend to the beads and are laid at alternate angles of substantially less than 90 degrees to the centre line of the tread;

28-1.2.3 Bias-belted: describes a pneumatic-tyre structure of diagonal (bias-ply) type in which the carcass is restricted by a belt comprising two or more layers of substantially inextensible cord material laid at alternate angles close to those of the carcass;

28-1.2.4 "Radial" describes a pneumatic-tyre structure in which the ply cords extend to the beads and are laid substantially at 90 degrees to the centre line of the tread, the carcass being stabilized by an essentially inextensible circumferential belt;

28-1.2.5 Reinforced or Extra Load: describes a pneumatic-tyre structure in which the carcass is more resistant than that of the corresponding standard tyre;

28-1.2.6 "Temporary use spare tyre" means a tyre different from a tyre intended to be fitted to any vehicle for normal driving conditions but intended only for temporary use under restricted driving conditions;

28-1.2.7 T-type temporary use spare tyre: means a type of temporary use spare tyre designed for use at inflation pressures higher than those established for standard and reinforced tyres;

28-1.2.8 Cord: means the strands forming the fabric of the plies in the pneumatic tyre;

28-1.2.9 Ply: means a layer of rubber-coated parallel cords;

28-1.2.10 Carcass: means that part of a pneumatic tyre other than the tread and the rubber side walls which, when inflated, bears the load;

28-1.2.11 Tread: means that part of a pneumatic tyre which comes into contact with the ground, protects the carcass against mechanical damage and contributes to ground adhesion;

28-1.2.12 Section width: means the linear distance between the outsides of the side walls of an inflated pneumatic tyre, excluding elevations due to labelling (marking), decoration or protective bands or ribs;

28-1.2.13 Overall width: means the linear distance between the outsides of the side walls of an inflated pneumatic tyre, including labelling (marking), decoration and protective bands or ribs;

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- 28-1.2.14 Section height: means a distance equal to half the difference between the outer diameter of the tyre and the nominal rim diameter;
- 28-1.2.15 Nominal aspect ratio (Ra): means the centuple of the number obtained by dividing the number expressing the section height by the number expressing the nominal section width;
- 28-1.2.16 Outer diameter: means the overall diameter of an inflated new pneumatic tyre;
- 28-1.2.17 Rim: means the support for a tyre-and-tube assembly, or for a tubeless tyre, on which the tyre beads are seated;
- 28-1.2.18 Nominal rim diameter: means the diameter of the rim on which a tyre is designed to be mounted; The values of the "d" symbols expressed in millimeter are shown below:

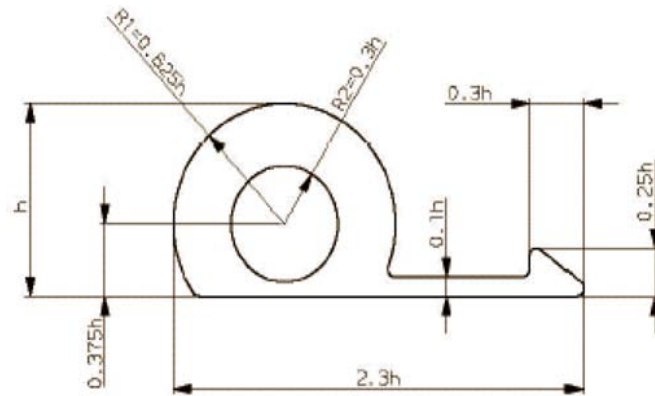
| Nominal rim diameter code ("d" symbol) | Value of the "d" symbol expressed in mm | Nominal rim diameter code ("d" symbol) | Value of the "d" symbol expressed in mm | Nominal rim diameter code ("d" symbol) | Value of the "d" symbol expressed in mm | Nominal rim diameter code ("d" symbol) | Value of the "d" symbol expressed in mm |
|--|---|--|---|--|---|--|---|
| 4 | 102 | 12 | 305 | 17.5 | 445 | 22.5 | 572 |
| 5 | 127 | 13 | 330 | 18 | 457 | 23 | 584 |
| 6 | 152 | 14 | 356 | 19 | 482 | 24 | 610 |
| 7 | 178 | 14.5 | 368 | 19.5 | 495 | 24.5 | 622 |
| 8 | 203 | 15 | 381 | 20 | 508 | 25 | 635 |
| 9 | 229 | 16 | 406 | 20.5 | 521 | 26 | 660 |
| 10 | 254 | 16.5 | 419 | 21 | 533 | 28 | 711 |
| 11 | 279 | 17 | 432 | 22 | 559 | 30 | 762 |

- 28-1.2.19 Speed category: means the maximum speed which the tyre can sustain, expressed by speed category symbol (see table below).

| Speed-category symbol | Maximum speed (km/h) | Speed-category symbol | Maximum speed (km/h) |
|-----------------------|----------------------|-----------------------|----------------------|
| B | 50 | Q | 160 |
| F | 80 | R | 170 |
| G | 90 | S | 180 |
| J | 100 | T | 190 |
| K | 110 | U | 200 |
| L | 120 | H | 210 |
| M | 130 | V | 240 |
| N | 140 | W or Z | 270 |
| P | 150 | Y or Z | 300 |

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- 28-1.2.20 Theoretical rim : means the theoretical rim whose width would be equal to x times the nominal section width of a tyre. The value of x shall be specified by the manufacturer of that tyre;
- 28-1.2.21 Load capacity index: means a number associated to the reference mass a tyre can carry when operated in conformity with requirements governing utilization specified by the manufacturer. A=Load-capacity index, B=Corresponding mass of the vehicle which is to be carried.
- 28-1.2.22 Run flat tyre or Self supporting tyre: describes a pneumatic tyre structure provided with any technical solutions (for example, reinforced sidewalls, etc.) allowing the pneumatic tyre, mounted on the appropriate wheel and in the absence of any supplementary component, to supply the vehicle with the basic tyre functions, at least, at a speed of 80km/h (50mph) and a distance of 80km when operating in flat tyre running mode. The letter "F" placed in front of the rim diameter marking. The symbol below if the tyre where "h" is at least 12 mm.



- 28-1.2.23 Flat tyre running mode: describes the state of the tyre, essentially maintaining its structural integrity, while operating at an inflation pressure between 0 and 70 kPa.
- 28-1.2.24 Deflected section height: is the difference between the deflected radius, measured from the centre of the rim to the surface of the drum, and one half the nominal rim diameter .
- 28-1.2.25 MST: means "multiservice tyre", suitable both on and off road.
- 28-1.2.26 Moped tyre: means a tyre designed for the equipment of mopeds (categories L1 and L2).
- 28-1.2.27 Motor cycle tyre: means a tyre designed primarily for the equipment of motor cycles (categories L3, L4 and L5). However, they may also equip mopeds (categories L1 and L2) and light trailers (category 01).

| A | B | A | B | A | B | A | B | A | B |
|---|------|----|-----|----|-----|-----|------|-----|------|
| 0 | 45 | 41 | 145 | 82 | 475 | 123 | 1550 | 164 | 5000 |
| 1 | 46.2 | 42 | 150 | 83 | 487 | 124 | 1600 | 165 | 5150 |
| 2 | 47.5 | 43 | 155 | 84 | 500 | 125 | 1650 | 166 | 5300 |
| 3 | 48.7 | 44 | 160 | 85 | 515 | 126 | 1700 | 167 | 5450 |

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| | | | | | | | | | |
|----|------|----|-----|-----|------|-----|------|-----|-------|
| 4 | 50 | 45 | 165 | 86 | 530 | 127 | 1750 | 168 | 5600 |
| 5 | 51.5 | 46 | 170 | 87 | 545 | 128 | 1800 | 169 | 5800 |
| 6 | 53 | 47 | 175 | 88 | 560 | 129 | 1850 | 170 | 6000 |
| 7 | 54.5 | 48 | 180 | 89 | 580 | 130 | 1900 | 171 | 6150 |
| 8 | 56 | 49 | 185 | 90 | 600 | 131 | 1950 | 172 | 6300 |
| 9 | 58 | 50 | 190 | 91 | 615 | 132 | 2000 | 173 | 6500 |
| 10 | 60 | 51 | 195 | 92 | 630 | 133 | 2060 | 174 | 6700 |
| 11 | 61.5 | 52 | 200 | 93 | 650 | 134 | 2120 | 175 | 6900 |
| 12 | 63 | 53 | 206 | 94 | 670 | 135 | 2180 | 176 | 7100 |
| 13 | 65 | 54 | 212 | 95 | 690 | 136 | 2240 | 177 | 7300 |
| 14 | 67 | 55 | 218 | 96 | 710 | 137 | 2300 | 178 | 7500 |
| 15 | 69 | 56 | 224 | 97 | 730 | 138 | 2360 | 179 | 7750 |
| 16 | 71 | 57 | 230 | 98 | 750 | 139 | 2430 | 180 | 8000 |
| 17 | 73 | 58 | 236 | 99 | 775 | 140 | 2500 | 181 | 8250 |
| 18 | 75 | 59 | 243 | 100 | 800 | 141 | 2575 | 182 | 8500 |
| 19 | 77.5 | 60 | 250 | 101 | 825 | 142 | 2650 | 183 | 8750 |
| 20 | 80 | 61 | 257 | 102 | 850 | 143 | 2725 | 184 | 9000 |
| 21 | 82.5 | 62 | 265 | 103 | 875 | 144 | 2800 | 185 | 9250 |
| 22 | 85 | 63 | 272 | 104 | 900 | 145 | 2900 | 186 | 9500 |
| 23 | 87.5 | 64 | 280 | 105 | 925 | 146 | 3000 | 187 | 9750 |
| 24 | 90 | 65 | 290 | 106 | 950 | 147 | 3075 | 188 | 10000 |
| 25 | 92.5 | 66 | 300 | 107 | 975 | 148 | 3150 | 189 | 10300 |
| 26 | 95 | 67 | 307 | 108 | 1000 | 149 | 3250 | 190 | 10600 |
| 27 | 97 | 68 | 315 | 109 | 1030 | 150 | 3350 | 191 | 10900 |
| 28 | 100 | 69 | 325 | 110 | 1060 | 151 | 3450 | 192 | 11200 |
| 29 | 103 | 70 | 335 | 111 | 1090 | 152 | 3550 | 193 | 11500 |
| 30 | 106 | 71 | 345 | 112 | 1120 | 153 | 3650 | 194 | 11800 |
| 31 | 109 | 72 | 355 | 113 | 1150 | 154 | 3750 | 195 | 12150 |
| 32 | 112 | 73 | 365 | 114 | 1180 | 155 | 3875 | 196 | 12500 |
| 33 | 115 | 74 | 375 | 115 | 1215 | 156 | 4000 | 197 | 12850 |
| 34 | 118 | 75 | 387 | 116 | 1250 | 157 | 4125 | 198 | 13200 |

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|----|-----|----|-----|-----|------|-----|------|-----|-------|
| 35 | 121 | 76 | 400 | 117 | 1285 | 158 | 4250 | 199 | 13600 |
| 36 | 125 | 77 | 412 | 118 | 1320 | 159 | 4375 | 200 | 14000 |
| 37 | 128 | 78 | 425 | 119 | 1360 | 160 | 4500 | | |
| 38 | 132 | 79 | 437 | 120 | 1400 | 161 | 4625 | | |
| 39 | 136 | 80 | 450 | 121 | 1450 | 162 | 4750 | | |
| 40 | 140 | 81 | 462 | 122 | 1500 | 163 | 4875 | | |

28-1.3 Tyre shall according to suitable types and range of principle are as below :

28-1.3.1 Brand

28-1.3.2 Nominal aspect ratio

28-1.3.3 Category of use (ordinary (road-type) or snow tyre or for temporary use)

28-1.3.4 Structure (diagonal (bias-ply), bias-belted, radial-ply, run flat tyre)

28-1.3.5 The suitable of vehicle's category.

28-1.4 New pneumatic tyres designed primarily, but not only, for vehicles in category symbols M1 ,N1, O1 and O2.

28-1.4.1 General Specifications:

28-1.4.1.1 Tyre-size designation is a designation showing:

28-1.4.1.1.1 The nominal section width (mm) (This width must be expressed in mm, except in the case of the types of tyre for which the size designation is shown in the first column of the tables)

28-1.4.1.1.1.1 Tyres in Diagonal Construction (European tyres)

| Size | Measuring rim width code | Overall diameter (mm) | Tyre width (mm) | section | Nominal diameter (mm) | rim "d" |
|---------------------|--------------------------|-----------------------|-----------------|---------|-----------------------|---------|
| Super Ballon Series | | | | | | |
| 4.80-10 | 3.5 | 490 | 128 | | 254 | |
| 5.20-10 | 3.5 | 508 | 132 | | 254 | |
| 5.20-12 | 3.5 | 558 | 132 | | 305 | |
| 5.60-13 | 4 | 600 | 145 | | 330 | |
| 5.90-13 | 4 | 616 | 150 | | 330 | |
| 6.40-13 | 4.5 | 642 | 163 | | 330 | |
| 5.20-14 | 3.5 | 612 | 132 | | 356 | |
| 5.60-14 | 4 | 626 | 145 | | 356 | |
| 5.90-14 | 4 | 642 | 150 | | 356 | |
| 6.40-14 | 4.5 | 666 | 163 | | 356 | |

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|---------------------------------------|-----|-----|-----|-----|
| 5.60-15 | 4 | 650 | 145 | 381 |
| 5.90-15 | 4 | 668 | 150 | 381 |
| 6.40-15 | 4.5 | 692 | 163 | 381 |
| 6.70-15 | 4.5 | 710 | 170 | 381 |
| 7.10-15 | 5 | 724 | 180 | 381 |
| 7.60-15 | 5.5 | 742 | 193 | 381 |
| 8.20-15 | 6 | 760 | 213 | 381 |
| Low Section Series | | | | |
| 5.50-12 | 4 | 552 | 142 | 305 |
| 6.00-12 | 4.5 | 574 | 156 | 305 |
| 7.00-13 | 5 | 644 | 178 | 330 |
| 7.00-14 | 5 | 668 | 178 | 356 |
| 7.50-14 | 5.5 | 688 | 190 | 356 |
| 8.00-14 | 6 | 702 | 203 | 356 |
| 6.00-15L | 4.5 | 650 | 156 | 381 |
| Super Low Section Series ^註 | | | | |
| 155-13/6.15-13 | 4.5 | 582 | 157 | 330 |
| 165-13/6.45-13 | 4.5 | 600 | 167 | 330 |
| 175-13/6.95-13 | 5 | 610 | 178 | 330 |
| 155-14/6.15-14 | 4.5 | 608 | 157 | 356 |
| 165-14/6.45-14 | 4.5 | 626 | 167 | 356 |
| 175-14/6.95-14 | 5 | 638 | 178 | 356 |
| 185-14/7.35-14 | 5.5 | 654 | 188 | 356 |
| 195-14/7.75-14 | 5.5 | 670 | 198 | 356 |
| Ultra Low Section | | | | |
| 5.9-10 | 4 | 483 | 148 | 254 |
| 6.5-13 | 4.5 | 586 | 166 | 330 |
| 6.9-13 | 4.5 | 600 | 172 | 330 |
| 7.3-13 | 5 | 614 | 184 | 330 |

Note: The following size designations are accepted: 185-14/7.35-14 or 185-14 or 7.35-14 or 7.35-14/185-14.

28-1.4.1.1.1.2 Millimetric Series - Radial (European tyres)

| Size | Measuring rim width code | Overall diameter | Tyre section width | Nominal diameter | rim "d" |
|------|--------------------------|------------------|--------------------|------------------|---------|
|------|--------------------------|------------------|--------------------|------------------|---------|

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| | | (mm) | (mm) | (mm) |
|----------|-----|------|------|------|
| 125 R 10 | 3.5 | 459 | 127 | 254 |
| 145 R 10 | 4 | 492 | 147 | 254 |
| 125 R 12 | 3.5 | 510 | 127 | 305 |
| 135 R 12 | 4 | 522 | 137 | 305 |
| 145 R 12 | 4 | 542 | 147 | 305 |
| 155 R 12 | 4.5 | 550 | 157 | 305 |
| 125 R 13 | 3.5 | 536 | 127 | 330 |
| 135 R 13 | 4 | 548 | 137 | 330 |
| 145 R 13 | 4 | 566 | 147 | 330 |
| 155 R 13 | 4.5 | 578 | 157 | 330 |
| 165 R 13 | 4.5 | 596 | 167 | 330 |
| 175 R 13 | 5 | 608 | 178 | 330 |
| 185 R 13 | 5.5 | 624 | 188 | 330 |
| 125 R 14 | 3.5 | 562 | 127 | 356 |
| 135 R 14 | 4 | 574 | 137 | 356 |
| 145 R 14 | 4 | 590 | 147 | 356 |
| 155 R 14 | 4.5 | 604 | 157 | 356 |
| 165 R 14 | 4.5 | 622 | 167 | 356 |
| 175 R 14 | 5 | 634 | 178 | 356 |
| 185 R 14 | 5.5 | 650 | 188 | 356 |
| 195 R 14 | 5.5 | 666 | 198 | 356 |
| 205 R 14 | 6 | 686 | 208 | 356 |
| 215 R 14 | 6 | 700 | 218 | 356 |
| 225 R 14 | 6.5 | 714 | 228 | 356 |
| 125 R 15 | 3.5 | 588 | 127 | 381 |
| 135 R 15 | 4 | 600 | 137 | 381 |
| 145 R 15 | 4 | 616 | 147 | 381 |
| 155 R 15 | 4.5 | 630 | 157 | 381 |
| 165 R 15 | 4.5 | 646 | 167 | 381 |
| 175 R 15 | 5 | 660 | 178 | 381 |
| 185 R 15 | 5.5 | 674 | 188 | 381 |
| 195 R 15 | 5.5 | 690 | 198 | 381 |

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| | | | | |
|----------|-----|-----|-----|-----|
| 205 R 15 | 6 | 710 | 208 | 381 |
| 215 R 15 | 6 | 724 | 218 | 381 |
| 225 R 15 | 6.5 | 738 | 228 | 381 |
| 235 R 15 | 6.5 | 752 | 238 | 381 |
| 175 R 16 | 5 | 686 | 178 | 406 |
| 185 R 16 | 5.5 | 698 | 188 | 406 |
| 205 R 16 | 6 | 736 | 208 | 406 |

28-1.4.1.1.1.3 45 Series - Radial on TR Metric 5 degrees Rims

| Size | Measuring rim width code | Overall diameter (mm) | Tyre section width (mm) |
|--------------|--------------------------|-----------------------|-------------------------|
| 280/45 R 415 | 240 | 661 | 281 |

28-1.4.1.1.2 A conventional number denoting the nominal rim diameter and corresponding to its diameter expressed either by codes (numbers below 100) or in millimetres (numbers above 100)

28-1.4.1.1.3 The indication of the structure

28-1.4.1.2 It does not apply to tyres designed for the equipment of vintage cars and competitions.

28-1.4.2 Test Procedure

28-1.4.2.1 Load/speed performance test

28-1.4.2.1.1 Where application is made for tyres identified by means of letter code "ZR" within the size designation and suitable for speeds over 300 km/h, the above load/speed test is carried out on one tyre at the load and speed conditions marked on the tyre. Another load/speed test must be carried out on a second sample of the same tyre type at the load and speed conditions specified as maximum by the tyre manufacturer. The second test may be carried out on the same tyre sample if the tyre manufacturer agrees.

28-1.4.2.1.2 Preparing the tyre

28-1.4.2.1.2.1 Mount a new tyre on the standard test rim

28-1.4.2.1.2.2 Inflate it to the appropriate pressure as given (in bar) in the table below:

| Speed category | Diagonal (bias-ply) tyres | | | Radial/Run flat system | | Bias-belted tyres |
|----------------|---------------------------|-----|-----|------------------------|------------|-------------------|
| | Ply rating | | | Standard | Reinforced | Standard |
| | 4 | 6 | 8 | | | |
| L, M, N | 2.3 | 2.7 | 3.0 | 2.4 | 2.8 | - |
| P, Q, R, S | 2.6 | 3.0 | 3.3 | 2.6 | 3.0 | 2.6 |
| T, U, H | 2.8 | 3.2 | 3.5 | 2.8 | 3.2 | 2.8 |
| V | 3.0 | 3.4 | 3.7 | 3.0 | 3.4 | - |
| W | - | - | - | 3.2 | 3.6 | - |
| Y | - | - | - | 3.2 ^{1/} | 3.6 | - |

The official directions

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- 28-1.4.2.1.2.3 T-type temporary use spare tyres: to 4.2 bar.
- 28-1.4.2.1.2.4 The manufacturer may request, giving reasons, the use of a test-inflation pressure differing from those given above. In such a case the tyre shall be inflated to that pressure.
- 28-1.4.2.1.2.5 Condition the tyre-and-wheel assembly at test-room temperature for not less than three hours.
- 28-1.4.2.1.2.6 Readjust the tyre pressure to that specified in 28.4.2.1.2.2~28.4.2.1.2.4 above.
- 28-1.4.2.1.3 Carrying out the test
 - 28-1.4.2.1.3.1 Mount the tyre-and-wheel assembly on a test axle and press it against the outer face of a smooth wheel 1.70m +/- 1% or 2m +/- 1% in diameter.
 - 28-1.4.2.1.3.2 Apply to the test axle a load:
 - 28-1.4.2.1.3.2.1 Equal to 80% of the maximum load rating equated to the Load Capacity Index for tyres with Speed Symbols L to H inclusive,
 - 28-1.4.2.1.3.2.2 Equal to 73% of the maximum load rating associated with a maximum speed of 240km/h for tyres Speed Symbol "V"
 - 28-1.4.2.1.3.2.3 Equal to 68% of the maximum load rating associated with a maximum speed of 270km/h for tyres with speed symbol "W" or "Y".
 - 28-1.4.2.1.4 Throughout the test the tyre pressure must not be adjusted and the test load must be kept constant.
 - 28-1.4.2.1.5 During the test the temperature in the test-room must be maintained at between 20 degrees and 30 degrees or at a higher temperature if the manufacturer agrees.
 - 28-1.4.2.1.6 Carry the test through, without interruption in conformity with the following particulars:
 - 28-1.4.2.1.6.1 Time taken to pass from zero speed to initial test speed: 10 minutes;
 - 28-1.4.2.1.6.2 Initial test speed: prescribed maximum speed for the type of tyre, less 40km/h in the case of the smooth wheel having 1.70m +/- 1% in diameter or less 30 km/h in the case of the smooth wheel having 2m +/- 1% in diameter;
 - 28-1.4.2.1.6.3 Successive speed increments: 10km/h to the highest testing speed.
 - 28-1.4.2.1.6.4 Duration of test at each speed step except the last: 10 minutes;
 - 28-1.4.2.1.6.5 Duration of test at last speed step: 20 minutes;
 - 28-1.4.2.1.6.6 Maximum test speed: prescribed maximum speed for the type of tyre, less 10km/h in the case of the smooth wheel having 1.7m +/- 1% in diameter or equal to the prescribed maximum speed in the case of the smooth wheel having 2m +/- 1% in diameter.
 - 28-1.4.2.1.6.7 However, for tyres suitable for maximum speed of 300km/h, the duration of test is 20 minutes at the initial test speed step and 10 minutes at the last speed step.
 - 28-1.4.2.1.7 The procedure for the second test, to assess the performance of a tyre suitable for speeds in excess of 300 km/h, shall be as follows:
 - 28-1.4.2.1.7.1 Apply to the test axle a load equal to 80 per cent of the maximum load rating associated with the maximum speed specified by the tyre manufacturer (see paragraph 28-1.4.2.1.1. of this Regulation).

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28-1.4.2.1.7.2 The test shall be run without interruptions in accordance with the following:

28-1.4.2.1.7.2.1 Ten minutes to build up from zero to the maximum speed specified by the tyre manufacturer (see paragraph 28-1.4.2.1.1. of this Regulation).

28-1.4.2.1.7.2.2 Five minutes at the maximum test speed.

28-1.4.2.2 Procedure to assess the "flat tyre running mode" of "run flat system"

28-1.4.2.2.1 Mount a new tyre on the test rim specified by the manufacturer.

28-1.4.2.2.2 Requirements Carry out the procedure with a test room temperature at 38 degrees C +/- 3 degrees C in relation to conditioning the tyre-and-wheel assembly as detailed in paragraph 28-1.4.2.1.2.

28-1.4.2.2.3 Remove the valve insert and wait until the tyre deflates completely

28-1.4.2.2.4 Mount the tyre-and-wheel assembly to a test axle and press it against the outer surface of a smooth wheel 1.70 m +/- 1 per cent or 2.0 m +/- 1 per cent in diameter.

28-1.4.2.2.5 Apply to the test axle a load equal to 65 per cent of the maximum load rating corresponding to the load capacity index of the tyre.

28-1.4.2.2.6 At the start of the test, measure the deflected section height (Z1).

28-1.4.2.2.7 During the test the temperature of the test room must be maintained at 38 degrees C +/- 3 degrees C.

28-1.4.2.2.8 Carry the test through, without interruption in conformity with the following particulars:

28-1.4.2.2.8.1 time taken to pass from zero speed to constant test speed: 5 minutes

28-1.4.2.2.8.2 test speed: 80 km/h

28-1.4.2.2.8.3 duration of test at the test speed: 60 minutes

28-1.4.2.2.9 At the end of the test, measure the deflected section height (Z2).

28-1.4.2.2.9.1 Calculate the change in per cent of the deflected section height compared to the deflected section height at the start of the test as $((Z1 - Z2) / Z1) \times 100$.

28-1.4.3 Test standard

28-1.4.3.1 A tyre which after undergoing the load/speed test does not exhibit any tread separation, ply separation, cord separation, chunking or broken cords shall be deemed to have passed the test.

28-1.4.3.2 However, a tyre marked with the speed symbol "Y" which, after undergoing the relevant test, exhibits superficial blistering of the tyre tread caused by the specific test equipment and conditions, is deemed to have passed the test.

28-1.4.3.3 If a "run flat system" tyre which, after undergoing the test, does not exhibit a change in the deflected section height, compared to the deflected section height at the start of the test, higher than 20 per cent and retains the tread connected to the two sidewalls, it is deemed to have passed the test.

28-1.5 New pneumatic tyres designed primarily, but not only, for vehicles in category symbols M2, M3, N, O3 and O4.

28-1.5.1 it does not apply to tyre types identified by speed category symbols corresponding to speeds below 80 km/h.

28-1.5.2 General Specifications: Tyre-size designation means a designation showing:

28-1.5.2.1 the nominal section width (mm) (This width must be expressed in mm, except in the case of the types of tyre for which the size designation is shown in the first column of the tables)

28-1.5.2.1.1 Code designated sizes mounted on 5 degrees tapered rims or flat base rims-Radial and diagonal constructions

| Tyre designation | size | Measuring rim width code | Nominal Diameter (mm) | Outer Diameter D (mm) | | Section width S (mm) | |
|------------------|------|--------------------------|-----------------------|-----------------------|----------|----------------------|----------|
| | | | | Radial | Diagonal | Radial | Diagonal |
| Std. Series | | | | | | | |
| 4.00R8* | | 2.50 | 203 | 414 | 414 | 107 | 107 |
| 4.00R10* | | 3.00 | 254 | 466 | 466 | 108 | 108 |
| 4.00R12* | | 3.00 | 305 | 517 | 517 | 108 | 108 |
| 4.50R8* | | 3.50 | 203 | 439 | 439 | 125 | 125 |
| 4.50R10* | | 3.50 | 254 | 490 | 490 | 125 | 125 |
| 4.50R12* | | 3.50 | 305 | 545 | 545 | 125 | 128 |
| 5.00R8* | | 3.00 | 203 | 467 | 467 | 132 | 132 |
| 5.00R10* | | 3.50 | 254 | 516 | 516 | 134 | 134 |
| 5.00R12* | | 3.50 | 305 | 568 | 568 | 134 | 137 |
| 6.00R9 | | 4.00 | 229 | 540 | 540 | 160 | 160 |
| 6.00R14C | | 4.50 | 356 | 626 | 625 | 158 | 158 |
| 6.00R16* | | 4.50 | 406 | 728 | 730 | 170 | 170 |
| 6.50R10 | | 5.00 | 254 | 588 | 588 | 177 | 177 |
| 6.50R14C | | 5.00 | 356 | 640 | 650 | 170 | 172 |
| 6.50R16* | | 4.50 | 406 | 742 | 748 | 176 | 176 |
| 6.50R20* | | 5.00 | 508 | 860 | - | 181 | - |
| 7.00R12 | | 5.00 | 305 | 672 | 672 | 192 | 192 |
| 7.00R14C | | 5.00 | 356 | 650 | 668 | 180 | 182 |
| 7.00R15* | | 5.00 | 381 | 746 | 752 | 197 | 198 |
| 7.00R16C | | 5.50 | 406 | 778 | 778 | 198 | 198 |
| 7.00R16 | | 5.50 | 406 | 784 | 774 | 198 | 198 |
| 7.00R16 | | 5.50 | 508 | 892 | 898 | 198 | 198 |
| 7.00R20 | | 5.50 | 254 | 645 | 645 | 207 | 207 |
| 7.50R10 | | 5.50 | 356 | 686 | 692 | 195 | 192 |
| 7.50R14C | | 6.00 | 381 | 772 | 772 | 212 | 212 |
| 7.50R15* | | 6.00 | 406 | 802 | 806 | 210 | 210 |
| 7.50R16* | | 6.00 | 432 | 852 | 852 | 210 | 210 |
| 7.50R17* | | 6.00 | 508 | 928 | 928 | 210 | 213 |
| 7.50R20 | | 6.50 | 381 | 836 | 836 | 230 | 234 |
| 8.25R15 | | 6.50 | 406 | 860 | 860 | 230 | 234 |

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| | | | | | | |
|--|-------|-----|------|------|-----|-----|
| 8.25R16 | 6.50 | 432 | 886 | 895 | 230 | 234 |
| 8.25R17 | 6.50 | 508 | 962 | 970 | 230 | 234 |
| 8.25R20 | 6.00 | 381 | 840 | 840 | 249 | 249 |
| 9.00R15 | 6.50 | 406 | 912 | 900 | 246 | 252 |
| 9.00R16* | 7.00 | 508 | 1018 | 1012 | 258 | 256 |
| 9.00R20 | 7.50 | 381 | 918 | 918 | 275 | 275 |
| 10.00R15 | 7.50 | 508 | 1052 | 1050 | 275 | 275 |
| 10.00R20 | 7.50 | 559 | 1102 | 1102 | 275 | 275 |
| 10.00R22 | 6.50 | 406 | 980 | 952 | 279 | 272 |
| 11.00R16 | 8.00 | 508 | 1082 | 1080 | 286 | 291 |
| 11.00R20 | 8.00 | 559 | 1132 | 1130 | 286 | 291 |
| 11.00R22 | 8.00 | 610 | 1182 | 1180 | 286 | 291 |
| 11.00R24 | 8.50 | 508 | 1122 | 1120 | 313 | 312 |
| 12.00R20 | 8.50 | 559 | 1174 | 1174 | 313 | 312 |
| 12.00R22 | 8.50 | 610 | 1226 | 1220 | 313 | 312 |
| 12.00R24 | 9.00 | 508 | 1176 | 1170 | 336 | 342 |
| 13.00R20 | 10.00 | 508 | 1238 | 1238 | 370 | 375 |
| 14.00R20 | 10.00 | 610 | 1340 | 1340 | 370 | 375 |
| 14.00R24 | 13.00 | 508 | 1370 | 1370 | 446 | 446 |
| 16.00R20 | | | | | | |
| 80 Series | 8.50 | 508 | 1008 | - | 305 | - |
| 12/80 R 20 | 9.00 | 508 | 1048 | - | 326 | - |
| 13/80 R 20 | 10.00 | 508 | 1090 | - | 350 | - |
| 14/80 R 20 | 10.00 | 610 | 1192 | - | 350 | - |
| 14/80 R 24 | 10.00 | 508 | 1124 | - | 370 | - |
| 14.75/80 R 20 | 10.00 | 508 | 1158 | - | 384 | - |
| 15.5/80 R 20 | | | | | | |
| Wide base tyre for multipurpose trucks | | | | | | |

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| | | | | | |
|---------------|------|-----|------|-----|-----|
| 7.50 R 18 MPT | 5.50 | 457 | 885 | | 208 |
| 10.5 R 18 MPT | 9 | 457 | 905 | 276 | 270 |
| 10.5 R 20 MPT | 9 | 508 | 955 | 276 | 270 |
| 12.5 R 18 MPT | 11 | 457 | 990 | 330 | 325 |
| 12.5 R 20 MPT | 11 | 508 | 1040 | 330 | 325 |
| 14.5 R 20 MPT | 11 | 508 | 1095 | 362 | 355 |
| 14.5 R 24 MPT | 11 | 610 | 1195 | 362 | 355 |

Note: (+) Tyres in diagonal construction are identified by an hyphen in place of the letter 'R' (e.g. 5.00-8).

(*) The tyre size designation may be supplemented with the letter 'C' (e.g. 6.00-16C).

28-1.5.2.1.2 Code designated sizes mounted on 15 degrees tapered rims-Radial

| Tyre designation | size | Measuring width code | rim | Nominal Diameter d (mm) | Outer Diameter D (mm) | Section width S (mm) |
|------------------|------|----------------------|-----|-------------------------|-----------------------|----------------------|
| 7 R 17.5* | | 5.25 | | 445 | 752 | 185 |
| 7 R 19.5 | | 5.25 | | 495 | 800 | 185 |
| 8 R 17.5* | | 6.00 | | 445 | 784 | 208 |
| 8 R 19.5 | | 6.00 | | 495 | 856 | 208 |
| 8 R 22.5 | | 6.00 | | 572 | 936 | 208 |
| 8.5 R 17.5 | | 6.00 | | 445 | 802 | 215 |
| 9 R 17.5 | | 6.75 | | 445 | 820 | 230 |
| 9 R 19.5 | | 6.75 | | 495 | 894 | 230 |
| 9 R 22.5 | | 6.75 | | 572 | 970 | 230 |
| 9.5 R 17.5 | | 6.75 | | 445 | 842 | 240 |
| 9.5 R 19.5 | | 6.75 | | 495 | 916 | 240 |
| 10 R 17.5 | | 7.50 | | 445 | 858 | 254 |
| 10 R 19.5 | | 7.50 | | 495 | 936 | 254 |
| 10 R 22.5 | | 7.50 | | 572 | 1020 | 254 |
| 11 R 22.5 | | 8.25 | | 572 | 1050 | 279 |
| 11 R 24.5 | | 8.25 | | 622 | 1100 | 279 |
| 12 R 22.5 | | 9.00 | | 572 | 1084 | 300 |
| 13 R 22.5 | | 9.75 | | 572 | 1124 | 320 |
| 15 R 19.5 | | 11.75 | | 495 | 998 | 387 |
| 15 R 22.5 | | 11.75 | | 572 | 1074 | 387 |

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| | | | | |
|--------------|-------|-----|------|-----|
| 16.5 R 19.5 | 13.00 | 495 | 1046 | 425 |
| 16.5 R 22.5 | 13.00 | 572 | 1122 | 425 |
| 18 R 19.5 | 14.00 | 495 | 1082 | 457 |
| 18 R 22.5 | 14.00 | 572 | 1158 | 457 |
| 70 Series | | | | |
| 10/70 R 22.5 | 7.50 | 572 | 928 | 254 |
| 11/70 R 22.5 | 8.25 | 572 | 962 | 279 |
| 12/70 R 22.5 | 9.00 | 572 | 1000 | 305 |
| 13/70 R 22.5 | 9.75 | 572 | 1033 | 330 |

Note: (*)The tyre size designation may be supplemented with the letter 'C' (e.g. 7 R 17.5C).

28-1.5.2.1.3 Tyres For light commercial vehicles-Radial and diagonal constructions

| Tyre size designation | Measuring rim width code | Nominal Diameter (mm) | Outer Diameter D (mm) | | Section width S (mm) | |
|-----------------------|--------------------------|-----------------------|-----------------------|----------|----------------------|----------|
| | | | Radial | Diagonal | Radial | Diagonal |
| Metric designated | | | | | | |
| 145 R 10C | 4.00 | 254 | 492 | - | 147 | - |
| 145 R 12C | 4.00 | 305 | 542 | - | 147 | - |
| 145 R 13C | 4.00 | 330 | 566 | - | 147 | - |
| 145 R 14C | 4.00 | 356 | 590 | - | 147 | - |
| 145 R 15C | 4.00 | 381 | 616 | - | 147 | - |
| 155 R 12C | 4.50 | 305 | 550 | - | 157 | - |
| 155 R 13C | 4.50 | 330 | 578 | - | 157 | - |
| 155 R 14C | 4.50 | 356 | 604 | - | 157 | - |
| 165 R 13C | 4.50 | 330 | 596 | - | 167 | - |
| 165 R 14C | 4.50 | 356 | 622 | - | 167 | - |
| 165 R 15C | 4.50 | 381 | 646 | - | 167 | - |
| 175 R 13C | 5.00 | 330 | 608 | - | 178 | - |
| 175 R 14C | 5.00 | 356 | 634 | - | 178 | - |
| 175 R 16C | 5.00 | 406 | 684 | - | 178 | - |
| 185 R 13C | 5.50 | 330 | 624 | - | 188 | - |
| 185 R 14C | 5.50 | 356 | 650 | - | 188 | - |
| 185 R 15C | 5.50 | 381 | 674 | - | 188 | - |

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| | | | | | | |
|-----------------|-------|-----|-----|-----|-----|-----|
| 185 R 16C | 5.50 | 406 | 700 | - | 188 | - |
| 195 R 14C | 5.50 | 356 | 666 | - | 198 | - |
| 195 R 15C | 5.50 | 381 | 690 | - | 198 | - |
| 195 R 16C | 5.50 | 406 | 716 | - | 198 | - |
| 205 R 14C | 6.00 | 356 | 686 | - | 208 | - |
| 205 R 15C | 6.00 | 381 | 710 | - | 208 | - |
| 205 R 16C | 6.00 | 406 | 736 | - | 208 | - |
| 215 R 14C | 6.00 | 356 | 700 | - | 218 | - |
| 215 R 15C | 6.00 | 381 | 724 | - | 218 | - |
| 215 R 16C | 6.00 | 406 | 750 | - | 218 | - |
| 245 R 16C | 7.00 | 406 | 798 | 798 | 248 | 248 |
| 17 R 15C | 5.00 | 381 | 678 | - | 178 | - |
| 17 R 380C | 5.00 | 381 | 678 | - | 178 | - |
| 17 R 400C | 150mm | 400 | 678 | - | 186 | - |
| 19 R 400C | 150mm | 400 | 728 | - | 200 | - |
| Code Designated | | | | | | |
| 5.60 R 12C | 4.00 | 305 | 570 | 572 | 150 | 148 |
| 6.40 R 13C | 5.00 | 330 | 648 | 640 | 172 | 172 |
| 6.70 R 13C | 5.00 | 330 | 660 | 662 | 180 | 180 |
| 6.70 R 14C | 5.00 | 356 | 688 | 688 | 180 | 180 |
| 6.70 R 15C | 5.00 | 381 | 712 | 714 | 180 | 180 |

Note: (+)Tyres in diagonal construction are identified by an hyphen in place of the letter 'R' (e.g. 145-10 C).

28-1.5.2.1.4 Tyres for special applications-Radial and diagonal construction

| Tyre designation | size | Measuring width code | rim | Nominal Diameter d (mm) | Outer Diameter D (mm) | Section width S (mm) |
|------------------|------|----------------------|-----|-------------------------|-----------------------|----------------------|
| Code Designated | | | | | | |

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| | | | | |
|-------------------|------|-----|-----|-----|
| 15x4 1/2-8 | 3.25 | 203 | 385 | 122 |
| 16x6-8 | 4.33 | 203 | 425 | 152 |
| 18x7 | 4.33 | 203 | 462 | 173 |
| 18x7-8 | 4.33 | 203 | 462 | 173 |
| 21x8-9 | 6.00 | 229 | 535 | 200 |
| 21x4 | 2.32 | 330 | 565 | 113 |
| 22x4 1/2 | 3.11 | 330 | 595 | 132 |
| 23x5 | 3.75 | 330 | 635 | 155 |
| 23x9-10 | 6.50 | 254 | 595 | 225 |
| 25x6 | 3.75 | 330 | 680 | 170 |
| 27x10-12 | 8.00 | 305 | 690 | 255 |
| 28x9-15 | 7.00 | 381 | 707 | 216 |
| Metric designated | | | | |
| 200-15 | 6.50 | 381 | 730 | 205 |
| 250-15 | 7.50 | 381 | 735 | 250 |
| 300-15 | 8.00 | 381 | 840 | 300 |

Note: (+)Tyres in radial construction are identified by the letter 'R' in place of the hyphen '-' (e.g. 15x4 1/2 R 8).

28-1.5.2.1.5 Tyres for light commercial vehicles (LT Tyres) diagonal and radial

| Tyre designation ¹ | size | Measuring rim width code | Nominal Diameter (mm) | Outer Diameter D (mm) ² | | Section width S (mm) ³ |
|-------------------------------|------|--------------------------|-----------------------|------------------------------------|------|-----------------------------------|
| | | | | Normal | Snow | |
| 6.00-16LT | | 4.50 | 406 | 732 | 743 | 173 |
| 6.50-16LT | | 4.50 | 406 | 755 | 767 | 182 |
| 6.70-16LT | | 5.00 | 406 | 722 | 733 | 191 |
| 7.00-13LT | | 5.00 | 330 | 647 | 658 | 187 |
| 7.00-14LT | | 5.00 | 356 | 670 | 681 | 187 |
| 7.00-15LT | | 5.50 | 381 | 752 | 763 | 202 |
| 7.00-16LT | | 5.50 | 406 | 778 | 788 | 202 |
| 7.10-15LT | | 5.00 | 381 | 738 | 749 | 199 |
| 7.50-15LT | | 6.00 | 381 | 782 | 794 | 220 |
| 7.50-16LT | | 6.00 | 406 | 808 | 819 | 220 |
| 8.25-16LT | | 6.50 | 406 | 859 | 869 | 241 |
| 9.00-16LT | | 6.50 | 406 | 890 | 903 | 257 |

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| | | | | | |
|-----------------------|------|-----|-----|-----|-----|
| G78-15LT | 6.00 | 381 | 711 | 722 | 212 |
| H78-15LT | 6.00 | 381 | 727 | 739 | 222 |
| L78-15LT | 6.50 | 381 | 749 | 760 | 236 |
| L78-16LT | 6.50 | 406 | 775 | 786 | 236 |
| 7-14.5LT ⁴ | 6.00 | 368 | 677 | | 185 |
| 8-14.5LT ⁴ | 6.00 | 368 | 707 | | 203 |
| 9-14.5LT ⁴ | 7.00 | 368 | 711 | | 241 |
| 7-17.5LT | 5.25 | 445 | 758 | 769 | 189 |
| 8-17.5LT | 5.25 | 445 | 788 | 799 | 199 |

Note: 1/Tyres in Radial construction are identified by the letter "R" in place of "-" (e.g. 6.00 R 16LT).

2/Coefficient "b" for the calculation of Dmax: 1.08.

3/Overall width may exceed this value up to +8 per cent.

4/The suffix "MH" may replace "LT" in the tyre size designation (e.g. 7-14.5 MH).

28-1.5.2.1.6 Tyres for light commercial vehicles (High flotation tyres) diagonal and radial

| Tyre designation ¹ | size | Measuring rim width code | Nominal Diameter d (mm) | Outer Diameter D (mm) ² | | Section width S (mm) ³ |
|-------------------------------|------|--------------------------|-------------------------|------------------------------------|------|-----------------------------------|
| | | | | Normal | Snow | |
| 9-15LT | | 8.00 | 381 | 744 | 755 | 254 |
| 10-15LT | | 8.00 | 381 | 773 | 783 | 264 |
| 11-15LT | | 8.00 | 381 | 777 | 788 | 279 |
| 24x7.50-13LT | | 6 | 330 | 597 | 604 | 191 |
| 27x8.50-14LT | | 7 | 356 | 674 | 680 | 218 |
| 28x8.50-15LT | | 7 | 381 | 699 | 705 | 218 |
| 29x9.50-15LT | | 7.5 | 381 | 724 | 731 | 240 |
| 30x9.50-15LT | | 7.5 | 381 | 750 | 756 | 240 |
| 31x10.50-15LT | | 8.5 | 381 | 775 | 781 | 268 |
| 31x11.50-15LT | | 9 | 381 | 775 | 781 | 290 |
| 31x13.50-15LT | | 11 | 381 | 775 | 781 | 345 |
| 31x15.50-15LT | | 12 | 381 | 775 | 781 | 390 |
| 32x11.50-15LT | | 9 | 381 | 801 | 807 | 290 |
| 33x12.50-15LT | | 10 | 381 | 826 | 832 | 318 |
| 35x12.50-15LT | | 10 | 381 | 877 | 883 | 318 |

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| | | | | | |
|------------------|-------|-----|-----|-----|-----|
| 37x12.50-15LT | 10 | 381 | 928 | 934 | 318 |
| 37x14.50-15LT | 12 | 381 | 928 | 934 | 372 |
| 8.00-16.5LT | 6.00 | 419 | 720 | 730 | 203 |
| 8.75-16.5LT | 6.75 | 419 | 748 | 759 | 222 |
| 9.50-16.5LT | 6.75 | 419 | 776 | 787 | 241 |
| 10-16.5LT | 8.25 | 419 | 762 | 773 | 264 |
| 12-16.5LT | 9.75 | 419 | 818 | 831 | 307 |
| 30x9.50-16.5LT | 7.50 | 419 | 750 | 761 | 240 |
| 31x10.50-16.5LT | 8.25 | 419 | 775 | 787 | 266 |
| 33x12.50-16.5LT | 9.75 | 419 | 826 | 838 | 315 |
| 37x12.50-16.5LT | 9.75 | 419 | 928 | 939 | 315 |
| 37x14.50-16.5LT | 11.25 | 419 | 928 | 939 | 365 |
| 33x9.50 R15LT | 7.50 | 381 | 826 | 832 | 240 |
| 35x12.50 R16.5LT | 10.00 | 419 | 877 | 883 | 318 |
| 37x12.50 R17LT | 10.00 | 432 | 928 | 934 | 318 |

Note: 1/Tyres in Radial construction are identified by the letter "R" in place of "-" (e.g. 24x7.50 R 13LT).

2/Coefficient 'b' for the calculation of Dmax: 1.07.

3/Overall width may exceed this value up to +7 per cent.

28-1.5.2.1.7 Code designated tyres mounted on 5 degrees tapered or flat base rims diagonal and radial

| Tyre designation ¹ | size | Measuring rim width code | Nominal Diameter (mm) | Outer Diameter D (mm) ² | | | Section width S (mm) ³ |
|-------------------------------|------|--------------------------|-----------------------|------------------------------------|-----|------|-----------------------------------|
| | | | | (a) | (b) | Snow | |
| 6.50-20 | | 5 | 508 | 878 | | 893 | 184 |
| 7.00-15TR | | 5.5 | 381 | 777 | | 792 | 199 |
| 7.00-18 | | 5.5 | 457 | 853 | | 868 | 199 |
| 7.00-20 | | 5.5 | 508 | 904 | | 919 | 199 |
| 7.50-15TR | | 6 | 381 | 808 | | 825 | 215 |
| 7.50-17 | | 6 | 432 | 859 | | 876 | 215 |
| 7.50-18 | | 6 | 457 | 884 | | 901 | 215 |
| 7.50-20 | | 6 | 508 | 935 | | 952 | 215 |
| 8.25-15TR | | 6.5 | 381 | 847 | 855 | 865 | 236 |
| 8.25-20 | | 6.5 | 508 | 974 | 982 | 992 | 236 |
| 9.00-15TR | | 7 | 381 | 891 | 904 | 911 | 259 |

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| | | | | | | |
|------------|-----|-----|------|------|------|-----|
| 9.00-20 | 7 | 508 | 1019 | 1031 | 1038 | 259 |
| 10.00-15TR | 7.5 | 381 | 927 | 940 | 946 | 278 |
| 10.00-20 | 7.5 | 508 | 1054 | 1067 | 1073 | 278 |
| 10.00-22 | 7.5 | 559 | 1104 | 1118 | 1123 | 278 |
| 11.00-20 | 8 | 508 | 1085 | 1099 | 1104 | 293 |
| 11.00-22 | 8 | 559 | 1135 | 1150 | 1155 | 293 |
| 11.00-24 | 8 | 610 | 1186 | 1201 | 1206 | 293 |
| 11.50-20 | 8 | 508 | 1085 | 1099 | 1104 | 296 |
| 12.00-20 | 8.5 | 508 | 1125 | | 1146 | 315 |
| 12.00-24 | 8.5 | 610 | 1226 | | 1247 | 315 |
| 14.00-20 | 10 | 508 | 1241 | | 1266 | 375 |
| 14.00-24 | 10 | 610 | 1343 | | 1368 | 375 |

Note: 1/Tyres in Radial construction are identified by the letter "R" in place of "-".(e.g. 6.50 R 20).
2/Coefficient 'b' for the calculation of Dmax : 1.06.
3/Overall width may exceed this value up to +6 per cent.

28-1.5.2.1.8 Code designated tyres for special services diagonal and radial

| Tyre designation | size | Measuring rim width code | Nominal Diameter (mm) | Outer Diameter D (mm) ¹ | | Section width S (mm) ² |
|------------------|------|--------------------------|-----------------------|------------------------------------|------|-----------------------------------|
| | | | | (a) | (b) | |
| 10.00-20ML | | 7.5 | 508 | 1073 | 1099 | 278 |
| 11.00-22ML | | 8 | 559 | 1155 | 1182 | 293 |
| 13.00-24ML | | 9 | 610 | 1302 | | 340 |
| 14.00-20ML | | 10 | 508 | 1266 | | 375 |
| 14.00-24ML | | 10 | 610 | 1368 | | 375 |
| 15-19.5ML | | 11.75 | 495 | 1019 | | 389 |
| 24 R 21 | | 18 | 533 | 1372 | | 610 |

Note: 1/ Coefficient "b" for the calculation of Dmax : 1.06.
2/Overall width may exceed this value up to +8 per cent.

28-1.5.2.1.9 Code designated tyre mounted on 15 degrees tapered rims diagonal and radial

| Tyre designation ¹ | size | Measuring rim width | Nominal Diameter | Outer Diameter D (mm) ² | Section width S (mm) ³ |
|-------------------------------|------|---------------------|------------------|------------------------------------|-----------------------------------|
|-------------------------------|------|---------------------|------------------|------------------------------------|-----------------------------------|

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| | code | (mm) | (a) | (b) | Snow | |
|-----------|-------|------|------|------|------|------|
| 8-19.5 | 6.00 | 495 | 859 | | 876 | 203 |
| 8-22.5 | 6.00 | 572 | 935 | | 952 | 203 |
| 9-22.5 | 6.75 | 572 | 974 | 982 | 992 | 229 |
| 10-22.5 | 7.50 | 572 | 1019 | 1031 | 1038 | 254 |
| 11-22.5 | 8.25 | 572 | 1054 | 1067 | 1073 | 279 |
| 11-24.5 | 8.25 | 622 | 1104 | 1118 | 1123 | 279 |
| 12-22.5 | 9.00 | 572 | 1085 | 1099 | 1104 | 300 |
| 12-24.5 | 9.00 | 622 | 1135 | 1150 | 1155 | 300 |
| 12.5-22.5 | 9.00 | 572 | 1085 | 1099 | 1104 | 302 |
| 12.5-24.5 | 9.00 | 622 | 1135 | 1150 | 1155 | 302 |
| 14-17.5 | 10.50 | 445 | 907 | | 921 | 349- |
| 15-19.5 | 11.75 | 495 | 1005 | | 1019 | 389- |
| 15-22.5 | 11.75 | 572 | 1082 | | 1095 | 389- |
| 16.5-22.5 | 13.00 | 572 | 1128 | | 1144 | 425- |
| 18-19.5 | 14.00 | 495 | 1080 | | 1096 | 457- |
| 18-22.5 | 14.00 | 572 | 1158 | | 1172 | 457- |

Note: 1/Tyres in Radial construction are identified by the letter "R" in place of "-" (e.g. 8R19.5).

2/Coefficient "b" for the calculation of Dmax : 1.05.

Category of use: Normal Service tyres: (a) Highway tread (b) Heavy tread

3/Overall width may exceed this value up to +6 per cent

(-)Overall width may exceed this value up to +5 per cent.

28-1.5.2.2 A conventional number denoting the nominal rim diameter and corresponding to its diameter expressed either by codes (numbers below 100) or in millimetres (numbers above 100)

28-1.5.2.3 The indication of the structure

28-1.5.3 Test method

28-1.5.3.1 Load/speed endurance test

28-1.5.3.1.1 Preparing the tyre

28-1.5.3.1.1.1 Mount a new tyre on the standard test rim.

28-1.5.3.1.1.2 Use a new inner tube or combination of inner tube, valve and flap (as required) when testing tyres with inner tubes.

28-1.5.3.1.1.3 Inflate the tyre to the pressure corresponding to the pressure index specified by the manufacturer

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28-1 Tyre

- 28-1.5.3.1.1.4 Condition the tyre-and-wheel assembly at test-room temperature for not less than three hours.
- 28-1.5.3.1.1.5 Readjust the tyre pressure to that specified in paragraph 28.5.3.1.1.3 above.
- 28-1.5.3.1.2 Test procedure
- 28-1.5.3.1.2.1 Mount the tyre-and-wheel assembly on the test axle and press it against the outer face of a smooth power-driven test drum 1.70 m +/- 1% in diameter having a surface at least as wide as the tyre tread.
- 28-1.5.3.1.2.2 Apply to the test axle a series of test loads expressed in percent of the load indicated opposite the load index engraved on the sidewall of the tyre. Where the tyre has load-capacity indices for both single and twinned utilization, the reference load for single utilization shall be taken as the basis for the test loads.
- 28-1.5.3.1.2.2.1 In the case of a tyre with a load capacity index 121 or less and a speed category above P test procedures are as specified in paragraph 28.5.3.1.3.
- 28-1.5.3.1.2.2.2 For all other tyre types the endurance test programme is shown as follows:

| Load index | Tyre speed category | Test-drum speed | | Load placed on the wheel as a percentage of the load corresponding to the load index | | |
|------------|---------------------|---------------------------------|---|--|-----|------|
| | | Radial-ply min ⁻¹ | Diagonal(bias-ply) min ⁻¹ | 7h | 16h | 24h |
| □ 122 | F | 100 | 100 | 66% | 84% | 101% |
| | G | 125 | 100 | | | |
| | J | 150 | 125 | | | |
| | K | 175 | 150 | | | |
| | L | 200 | - | | | |
| ≤121 | M | 225 | - | 70% | 88% | 106% |
| | F | 100 | 100 | | | |
| | G | 125 | 125 | | | |
| | J | 150 | 150 | | | |
| | K | 175 | 175 | 75% | 97% | 114% |
| | L | 200 | 175 | | | |
| | M | 250 | 200 | | | |
| | N | 275 | - | | | |
| | P | 300 | - | | | |

Notes:

- (1) "Special-use" tyres should be tested at a speed equal to 85% of the speed prescribed for equivalent

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normal tyres.

- (2) Tyres with load index 121 or more, speed categories N or P and the additional marking "LT" included in the tyre size designation, shall be tested with the same programme as specified in the above table for tyres with load index 121 or less.

28-1.5.3.1.2.3 The tyre pressure must not be adjusted throughout the test and the test load must be kept constant.

28-1.5.3.1.2.4 During the test the temperature in the test-room must be maintained at between 20 °C and 30 °C or at a higher temperature if the manufacturer so agrees.

28-1.5.3.1.2.5 The endurance-test programme shall be carried out without interruption.

28-1.5.3.1.3 Load/speed test programme for tyre with a load capacity index 121 and less, or the additional marking "LT" included in the tyre size designation, and a load capacity index above 121 and a speed category Q and above

28-1.5.3.1.3.1 Load placed on the wheel as a percentage of the load corresponding to the load index:

28-1.5.3.1.3.1.1 90% when tested on a test drum 1.70 m +/- 1% in diameter.

28-1.5.3.1.3.1.2 92% when tested on a test drum 2.0 m +/- 1% in diameter.

28-1.5.3.1.3.2 Initial test speed: speed corresponding to the speed category symbol less 20 km/h;

Time to reach the initial test speed 10 min.

Duration of the first step = 10 min.

28-1.5.3.1.3.3 Second test speed: speed corresponding to the speed category symbol less 10 km/h; Duration of the second step = 10 min.

28-1.5.3.1.3.4 Final test speed: speed corresponding to the speed category symbol; Duration of the final step = 30 min.

28-1.5.3.1.3.5 Total test duration: 1 h.

28-1.5.3.1.4 If a method other than that described in paragraph 28.5.3.1.2 above is used, its equivalence must be demonstrated.

28-1.5.4 Requirements

28-1.5.4.1 Load/speed endurance test

28-1.5.4.1.1 Each type of pneumatic tyre shall undergo at least one load/speed endurance test.

28-1.5.4.1.2 A tyre which, after undergoing the endurance test, does not exhibit any tread separation, ply separation, cord separation, chunking or broken cords shall be deemed to have passed the test.

28-1.6 Moped tyre and motor cycle tyre:

28-1.6.1 This regulation does not apply to the "off-road" and marked "NHS" (Not for Highway Service) of tyre, and the tyre for automobile racing.

28-1.6.2 General Specifications:

28-1.6.2.1 Tyre-size designation is a designation showing:

28-1.6.2.1.1 The nominal section width (mm) (Except for the first column marks size of tyre, the width must express in mm.)

28-1.6.2.1.1.1 Tyres for motor cycles. Sizes with rim diameter code 12 and below :

| TYRE SIZE | MEASURING RIM WIDTH CODE | OVERALL DIAMETER (mm) | | | SECTION WIDTH (mm) | Maximum overall width (mm) |
|-----------|--------------------------|-----------------------|-----|-------|--------------------|----------------------------|
| | | D min | D | D max | | |
| 2.50-8 | 1.50 | 328 | 338 | 352 | 65 | 70 |
| 2.50-9 | | 354 | 364 | 378 | | |
| 2.50-10 | | 379 | 389 | 403 | | |
| 2.50-12 | | 430 | 440 | 451 | | |
| 2.75-8 | 1.75 | 338 | 348 | 363 | 71 | 77 |
| 2.75-9 | | 364 | 374 | 383 | | |
| 2.75-10 | | 389 | 399 | 408 | | |
| 2.75-12 | | 440 | 450 | 462 | | |
| 3.00-4 | 2.10 | 241 | 251 | 264 | 80 | 86 |
| 3.00-5 | | 266 | 276 | 291 | | |
| 3.00-6 | | 291 | 301 | 314 | | |
| 3.00-7 | | 317 | 327 | 342 | | |
| 3.00-8 | | 352 | 362 | 378 | | |
| 3.00-9 | | 378 | 388 | 401 | | |
| 3.00-10 | | 403 | 413 | 422 | | |
| 3.00-12 | | 454 | 464 | 473 | | |
| 3.25-8 | 2.50 | 362 | 372 | 386 | 88 | 95 |
| 3.25-9 | | 388 | 398 | 412 | | |
| 3.25-10 | | 414 | 424 | 441 | | |
| 3.25-12 | | 465 | 475 | 492 | | |
| 3.50-4 | 2.50 | 264 | 274 | 291 | 92 | 99 |

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| TYRE SIZE | MEASURING RIM WIDTH CODE | OVERALL DIAMETER (mm) | | | SECTION WIDTH (mm) | Maximum overall width (mm) |
|-----------|--------------------------|-----------------------|-----|-------|--------------------|----------------------------|
| | | D min | D | D max | | |
| 3.50-5 | | 289 | 299 | 316 | | |
| 3.50-6 | | 314 | 324 | 341 | | |
| 3.50-7 | | 340 | 350 | 367 | | |
| 3.50-8 | | 376 | 386 | 397 | | |
| 3.50-9 | | 402 | 412 | 430 | | |
| 3.50-10 | | 427 | 437 | 448 | | |
| 3.50-12 | | 478 | 488 | 506 | | |
| 4.00-5 | 2.50 | 314 | 326 | 346 | 105 | 113 |
| 4.00-6 | | 339 | 351 | 368 | | |
| 4.00-7 | | 365 | 377 | 394 | | |
| 4.00-8 | | 401 | 415 | 427 | | |
| 4.00-10 | | 452 | 466 | 478 | | |
| 4.00-12 | | 505 | 517 | 538 | | |
| 4.50-6 | 3.00 | 364 | 376 | 398 | 120 | 130 |
| 4.50-7 | | 390 | 402 | 424 | | |
| 4.50-8 | | 430 | 442 | 464 | | |
| 4.50-9 | | 456 | 468 | 490 | | |
| 4.50-10 | | 481 | 493 | 515 | | |
| 4.50-12 | | 532 | 544 | 568 | | |
| 5.00-8 | 3.50 | 453 | 465 | 481 | 134 | 145 |
| 5.00-10 | | 504 | 516 | 532 | | |
| 5.00-12 | | 555 | 567 | 583 | | |
| 6.00-6 | 4.00 | 424 | 436 | 464 | 154 | 166 |
| 6.00-7 | | 450 | 462 | 490 | | |
| 6.00-8 | | 494 | 506 | 534 | | |
| 6.00-9 | | 520 | 532 | 562 | | |

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28-1.6.2.1.1.2 Tyres for mopeds. Sizes with rim diameter code 12 and below :

| Tyre size | Measuring rim width (Code) | Overall diameter (mm) | | | Section width (mm) | Maximum overall width (mm) ¹ |
|------------|-------------------------------|-----------------------|-----|--------------------|-----------------------|--|
| | | D.min | D | D.max ¹ | | |
| 2 - 12 | 1.35 | 413 | 417 | 426 | 55 | 59 |
| 2-1/2 - 12 | 1.50 | 425 | 431 | 441 | 62 | 67 |
| 2-1/2 - 8 | 1.75 | 339 | 345 | 356 | 70 | 76 |
| 2-1/2 - 9 | 1.75 | 365 | 371 | 382 | 70 | 76 |
| 2-3/4 - 9 | 1.75 | 375 | 381 | 393 | 73 | 79 |
| 3 - 10 | 2.10 | 412 | 418 | 431 | 84 | 91 |
| 3 - 12 | 2.10 | 463 | 469 | 482 | 84 | 91 |

¹ Normal road (highway) service.

28-1.6.2.1.1.3 Tyres for motor cycles. Normal section size :

| Tyre size | Measuring rim width Code | Overall diameter (mm) | | | | Section width (mm) | Section width (mm) | | |
|-----------|--------------------------|-----------------------|-----|--------------------|--------------------|--------------------|--------------------|----|----|
| | | D.min | D | D.max ¹ | D.max ² | | 3 | 4 | 5 |
| 2.00 - 14 | 1.20 | 460 | 466 | 478 | | 52 | 57 | 60 | 65 |
| 2.00 - 15 | | 485 | 491 | 503 | | | | | |
| 2.00 - 16 | | 510 | 516 | 528 | | | | | |
| 2.00 - 17 | | 536 | 542 | 554 | | | | | |
| 2.00 - 18 | | 561 | 567 | 579 | | | | | |
| 2.00 - 19 | | 587 | 593 | 605 | | | | | |
| 2.25 - 14 | 1.60 | 474 | 480 | 492 | 496 | 61 | 67 | 70 | 75 |
| 2.25 - 15 | | 499 | 505 | 517 | 521 | | | | |
| 2.25 - 16 | | 524 | 530 | 542 | 546 | | | | |
| 2.25 - 17 | | 550 | 556 | 568 | 572 | | | | |
| 2.25 - 18 | | 575 | 581 | 593 | 597 | | | | |
| 2.25 - 19 | | 601 | 607 | 619 | 623 | | | | |
| 2.50 - 14 | 1.60 | 486 | 492 | 506 | 508 | 65 | 72 | 75 | 79 |
| 2.50 - 15 | | 511 | 517 | 531 | 533 | | | | |
| 2.50 - 16 | | 536 | 542 | 556 | 558 | | | | |
| 2.50 - 17 | | 562 | 568 | 582 | 584 | | | | |
| 2.50 - 18 | | 587 | 593 | 607 | 609 | | | | |
| 2.50 - 19 | | 613 | 619 | 633 | 635 | | | | |
| 2.50 - 21 | 663 | 669 | 683 | 685 | | | | | |
| 2.75 - 14 | 1.85 | 505 | 512 | 524 | 530 | 75 | 83 | 86 | 91 |
| 2.75 - 15 | | 530 | 537 | 549 | 555 | | | | |
| 2.75 - 16 | | 555 | 562 | 574 | 580 | | | | |
| 2.75 - 17 | | 581 | 588 | 600 | 606 | | | | |
| 2.75 - 18 | | 606 | 613 | 625 | 631 | | | | |
| 2.75 - 19 | | 632 | 639 | 651 | 657 | | | | |
| 2.75 - 21 | | 682 | 689 | 701 | 707 | | | | |

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| Tyre size | Measuring rim width Code | Overall diameter (mm) | | | | Section width (mm) | Section width (mm) | | |
|-----------|--------------------------|-----------------------|-----|--------------------|--------------------|--------------------|--------------------|-----|-----|
| | | D.min | D | D.max ¹ | D.max ² | | 3 | 4 | 5 |
| 3.00 - 14 | 1.85 | 519 | 526 | 540 | 546 | 80 | 88 | 92 | 97 |
| 3.00 - 15 | | 546 | 551 | 565 | 571 | | | | |
| 3.00 - 16 | | 569 | 576 | 590 | 596 | | | | |
| 3.00 - 17 | | 595 | 602 | 616 | 622 | | | | |
| 3.00 - 18 | | 618 | 627 | 641 | 647 | | | | |
| 3.00 - 19 | | 644 | 653 | 667 | 673 | | | | |
| 3.00 - 21 | | 694 | 703 | 717 | 723 | | | | |
| 3.00 - 23 | | 747 | 754 | 768 | 774 | | | | |
| 3.25 - 14 | 2.15 | 531 | 538 | 552 | 560 | 89 | 98 | 102 | 108 |
| 3.25 - 15 | | 556 | 563 | 577 | 585 | | | | |
| 3.25 - 16 | | 581 | 588 | 602 | 610 | | | | |
| 3.25 - 17 | | 607 | 614 | 628 | 636 | | | | |
| 3.25 - 18 | | 630 | 639 | 653 | 661 | | | | |
| 3.25 - 19 | | 656 | 665 | 679 | 687 | | | | |
| 3.25 - 21 | | 708 | 715 | 729 | 737 | | | | |
| 3.50 - 14 | 2.15 | 539 | 548 | 564 | 572 | 93 | 102 | 107 | 113 |
| 3.50 - 15 | | 564 | 573 | 589 | 597 | | | | |
| 3.50 - 16 | | 591 | 598 | 614 | 622 | | | | |
| 3.50 - 17 | | 617 | 624 | 640 | 648 | | | | |
| 3.50 - 18 | | 640 | 649 | 665 | 673 | | | | |
| 3.50 - 19 | | 666 | 675 | 691 | 699 | | | | |
| 3.50 - 21 | | 716 | 725 | 741 | 749 | | | | |
| 3.75 - 16 | 2.15 | 601 | 610 | 626 | 634 | 99 | 109 | 114 | 121 |
| 3.75 - 17 | | 627 | 636 | 652 | 660 | | | | |
| 3.75 - 18 | | 652 | 661 | 677 | 685 | | | | |
| 3.75 - 19 | | 678 | 687 | 703 | 711 | | | | |
| 4.00 - 16 | 2.50 | 611 | 620 | 638 | 646 | 108 | 119 | 124 | 130 |
| 4.00 - 17 | | 637 | 646 | 664 | 672 | | | | |
| 4.00 - 18 | | 662 | 671 | 689 | 697 | | | | |
| 4.00 - 19 | | 688 | 697 | 715 | 723 | | | | |
| 4.25 - 16 | 2.50 | 623 | 632 | 650 | 660 | 112 | 123 | 129 | 137 |
| 4.25 - 17 | | 649 | 658 | 676 | 686 | | | | |
| 4.25 - 18 | | 674 | 683 | 701 | 711 | | | | |
| 4.25 - 19 | | 700 | 709 | 727 | 737 | | | | |

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| Tyre size | Measuring rim width Code | Overall diameter (mm) | | | | Section width (mm) | Section width (mm) | | |
|-----------|--------------------------|-----------------------|-----|--------------------|--------------------|--------------------|--------------------|-----|-----|
| | | D.min | D | D.max ¹ | D.max ² | | 3 | 4 | 5 |
| 4.50 - 16 | 2.75 | 631 | 640 | 658 | 668 | 123 | 135 | 141 | 142 |
| 4.50 - 17 | | 657 | 666 | 684 | 694 | | | | |
| 4.50 - 18 | | 684 | 691 | 709 | 719 | | | | |
| 4.50 - 19 | | 707 | 717 | 734 | 745 | | | | |
| 5.00 - 16 | 3.00 | 657 | 666 | 686 | 698 | 129 | 142 | 148 | 157 |
| 5.00 - 17 | | 683 | 692 | 710 | 724 | | | | |
| 5.00 - 18 | | 708 | 717 | 735 | 749 | | | | |
| 5.00 - 19 | | 734 | 743 | 761 | 775 | | | | |

¹ Tyres for normal highway service.

² Tyres for special service and snow tyres.

³ Tyres for normal highway service up to speed category P inclusive.

⁴ Tyres for normal highway service above speed category P and snow tyres.

⁵ Tyres for special service.

28-1.6.2.1.1.4 Tyres for motor cycles. Low section sizes :

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| Tyre size | Measuring rim width Code | Overall diameter (mm) | | | | Section width (mm) | Section width (mm) | | |
|--------------|--------------------------|-----------------------|-----|--------------------|--------------------|--------------------|--------------------|-----|-----|
| | | D.min | D | D.max ¹ | D.max ² | | 3 | 4 | 5 |
| 3.60 - 18 | 2.15 | 605 | 615 | 628 | 633 | 93 | 102 | 108 | 113 |
| 3.60 - 19 | | 631 | 641 | 653 | 658 | | | | |
| 4.10 - 18 | 2.50 | 629 | 641 | 654 | 663 | 108 | 119 | 124 | 130 |
| 4.10 - 19 | | 655 | 667 | 679 | 688 | | | | |
| 5.10 - 16 | 3.00 | 615 | 625 | 643 | 651 | 129 | 142 | 150 | 157 |
| 5.10 - 17 | | 641 | 651 | 670 | 677 | | | | |
| 5.10 - 18 | | 666 | 676 | 694 | 702 | | | | |
| 4.25/85 - 18 | 2.50 | 649 | 659 | 673 | 683 | 112 | 123 | 129 | 137 |
| 4.60 - 16 | 2.75 | 594 | 604 | 619 | 628 | 117 | 129 | 136 | 142 |
| 4.60 - 17 | | 619 | 630 | 642 | 654 | | | | |
| 4.60 - 18 | | 644 | 654 | 670 | 678 | | | | |
| 6.10 - 16 | 4.00 | 646 | 658 | 678 | 688 | 168 | 185 | 195 | 203 |

¹ Tyres for normal highway service.

² Tyres for special service and snow tyres.

³ Tyres for normal highway service up to speed category P inclusive.

⁴ Tyres for normal highway service above speed category P and snow tyres.

⁵ Tyres for special service.

28-1.6.2.1.1.5 Motor cycle tyres. Low pressure sizes :

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| Tyre size | Measuring rim width Code | Overall diameter (mm) | | | Section width (mm) | Section width (mm) |
|-----------|--------------------------|-----------------------|-----|-------|--------------------|--------------------|
| | | D.min | D | D.max | | |
| 5.4 - 10 | 4.00 | 474 | 481 | 487 | 135 | 143 |
| 5.4 - 12 | | 525 | 532 | 547 | | |
| 5.4 - 14 | | 575 | 582 | 598 | | |
| 5.4 - 16 | | 626 | 633 | 649 | | |
| 6.7 - 10 | 5.00 | 532 | 541 | 561 | 170 | 180 |
| 6.7 - 12 | | 583 | 592 | 612 | | |
| 6.7 - 14 | | 633 | 642 | 662 | | |

28-1.6.2.1.1.6 Motor cycle tyres. Sizes and dimensions of American tyres :

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| Tyre size | | Measuring rim width Code | Overall diameter (mm) | | | Section width (mm) | Section width (mm) |
|-----------|-------|--------------------------|-----------------------|-----|-------|--------------------|--------------------|
| | | | D.min | D | D.max | | |
| MH90 | - 21 | 1.85 | 682 | 686 | 700 | 80 | 89 |
| MJ90 - | 18 | 2.15 | 620 | 625 | 640 | 89 | 99 |
| MJ90 - | 19 | 2.15 | 645 | 650 | 665 | | |
| ML90 - | 18 | 2.15 | 629 | 634 | 650 | 93 | 103 |
| ML90 - | 19 | 2.15 | 654 | 659 | 675 | | |
| MM90 - | 19 | 2.15 | 663 | 669 | 685 | 95 | 106 |
| MN90 - | 18 | 2.15 | 656 | 662 | 681 | 104 | 116 |
| MP90 - | 18 | 2.15 | 667 | 673 | 692 | 108 | 120 |
| MR90 - | 18 | 2.15 | 680 | 687 | 708 | 114 | 127 |
| MS90 - | 17 | 2.50 | 660 | 667 | 688 | 121 | 134 |
| MT90 - | 16 | 3.00 | 642 | 650 | 672 | 130 | 144 |
| MT90 - | 17 | 3.00 | 668 | 675 | 697 | | |
| MU90 - | 15M/C | 3.50 | 634 | 642 | 665 | 142 | 158 |
| MU90 - | 16 | 3.50 | 659 | 667 | 690 | | |
| MV90 - | 15M/C | 3.50 | 643 | 651 | 675 | 150 | 172 |
| MP85 - | 18 | 2.15 | 654 | 660 | 679 | 108 | 120 |
| MR85 - | 16 | 2.15 | 617 | 623 | 643 | 114 | 127 |
| MS85 - | 18 | 2.50 | 675 | 682 | 702 | 121 | 134 |
| MT85 - | 18 | 3.00 | 681 | 688 | 709 | 130 | 144 |
| MU85 | 16M/C | 3.50 | 650 | 658 | 681 | 142 | 158 |
| MV85 - | 15M/C | 3.50 | 627 | 635 | 658 | 150 | 172 |

28-1.6.2.1.2 A conventional number denoting the nominal rim diameter and corresponding to its diameter expressed either by codes or in millimetres

28-1.6.2.1.3 The indication of the structure

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28-1.6.2.1.4 Speed category

28-1.6.3 Test Procedure

28-1.6.3.1 Load/speed performance test

28-1.6.3.1.1 Where application is made for tyres identified by means of letter code "V" within the size designation and suitable for speeds over 240km/h or for tyres identified by means of letter code "Z" (or W or Y) within the size designation and suitable for speeds over 270km/h, the above load/speed test is carried out on one tyre at the load and speed conditions marked within parenthesis on the tyre. Another load/speed test must be carried out on a second tyre of the same type at the load and speed conditions, if any, specified as maximum by the tyre manufacturer.

28-1.6.3.1.2 Preparing the tyre

28-1.6.3.1.2.1 Mount a new tyre on the standard test rim

28-1.6.3.1.2.2 Inflate it to the appropriate pressure as given (in bar) in the table below:

| Tire size | Speed Category | Inflation pressure (kPa) |
|------------|----------------|----------------------------|
| Standard | B | 250 |
| | M,N,P | 250 |
| | Q,R,S | 300 |
| | T,U,H,V | 350 |
| | W | 320 |
| Reinforced | B | 300 |
| | M,N,P | 330 |
| | Q,R,S,T,U,H | 390 |

For speeds above 240km/h the test pressure is 3.20bar (320kPa).

For other types of tyre inflate to the pressure specified by the manufacturer.

28-1.6.3.1.2.3 The manufacturer may request, giving reasons, the use of test-inflation pressures differing from those above. In such a case the tyre shall be inflated to that pressure.

28-1.6.3.1.2.4 Condition the tyre-and-wheel assembly at test-room temperature for not less than three hours.

28-1.6.3.1.2.5 Readjust the tyre pressure to that specified in 28-1.6.3.1.2.2 or 28-1.6.3.1.2.3 above.

28-1.6.3.1.3 Carrying out the test

28-1.6.3.1.3.1 Mount the tyre-and-wheel assembly on a test axle and press it against the outer face of a smooth wheel 1.70m +/- 1% or 2m +/- 1% in diameter.

28-1.6.3.1.3.2 Apply to the test axle a load equal to 65% of:

28-1.6.3.1.3.2.1 The maximum load rating equated to the Load Capacity Index for tyres with speed symbols up to H inclusive,

28-1.6.3.1.3.2.2 The maximum load rating equated to the Load Capacity Index up to 85□ associated with a maximum

speed of 240km/h for tyres speed symbol "V"

28-1.6.3.1.3.2.3 The maximum load rating equated to the Load Capacity Index up to 75□ associated with a maximum speed of 270km/h for tyres with speed symbol "W"

| Speed category | Testing pressure (kPa) |
|----------------|--------------------------|
| P | 225 |
| Q,R,S | 250 |
| T,U,H | 280 |
| V and above | 290 |

28-1.6.3.1.3.2.4 The maximum load rating associated with the maximum speed specified by the tyre manufacturer for tyres suitable for speeds above 240km/h (or 270km/h as applicable).

28-1.6.3.1.3.3 Throughout the test the tyre pressure must not be adjusted and the test load must be kept constant.

28-1.6.3.1.3.4 During the test the temperature in the test-room must be maintained at between 20 degrees and 30 degrees or at a higher temperature if the manufacturer agrees.

28-1.6.3.1.3.5 According to speed category and test steel wheel diameter are not interruption to test in sequence.

(a) Initial tests speed compare to speed category: 30km/h less than the speed corresponding to the speed category symbol marked on the tyre ,if a 2.0m diameter test drum is used, or 40km/h less if a 1.7m diameter test drum is used.

(b) Twenty minutes is allowed to build up from zero to the initial test speed;

(c) Test steel wheel on initial speed shall duration of 10 minutes with regular speed to accelerate test steel wheel;

(d) Speed steps of 10km/h, test duration at each speed step: 10 minutes;

(e) Speed steps of 20km/h, test duration at each speed step: 10 minutes;

(f) Speed steps of 30km/h, test duration at each speed step: 10 minutes;

28-1.6.3.1.3.5.1 In case of moped tyres (speed category symbol B), the test speed is 50 km/h, the build-up from 0 to 50 km/h is 10 minutes, the duration at the speed step is 30 minutes with a total duration of the test of 40 minutes.

28-1.6.3.1.3.6 However, in case a second test is performed to assess the top performances of tyres suitable for speeds above 240km/h, the procedure shall be the following:

According to paragraph 28-1.6.3.1.2.1 to 28-1.6.3.1.3.4 to test, could replace test time and speed with following conditions.

(a) Twenty minutes to build up from zero to the initial test speed;

| Test steel wheel diameter | Initial test speed | |
|---------------------------|--------------------|----------|
| | V/VB/VR | ZR/ZB |
| 1.7 m | 200 km/h | 230 km/h |
| 2.0 m | 210 km/h | 240 km/h |

(b) Twenty minutes at the initial test speed;

(c) Ten minutes to build up to the maximum test speed;

(d) Five minutes at the maximum test speed.

Maximum test speed: the maximum rated speed of the type of tyre if the test is performed with a 2.0 m diameter test drum;

maximum rated speed for the type of tyre less 10 km/h if the test is performed with a 1.7 m diameter test drum. Test load is based on manufacturer authorized at the highest speed multiplied by the maximum load capacity of 65%.

| Speed category | Testing pressure (kPa) |
|----------------|--------------------------|
| P | 225 |
| Q,R,S | 250 |
| T,U,H | 280 |
| V and above | 290 |

for

28-1.6.3.1.4 The use of different methods mentioned above, need to be demonstrated to have the same effect.

28-1.6.3.2 Enveloping curve centrifugal growth test

28-1.6.3.2.1 This testing

requirements is suitable for the tyre of define in paragraph 28-1.6.3.2.2.2.

28-1.6.3.2.2 Preparing the tyre

28-1.6.3.2.2.1 Mount a new tyre on the standard test rim

28-1.6.3.2.2.2 Bias-belted tyres inflate it to the appropriate pressure as given (in bar) in the table below:

28-1.6.3.2.2.3 Condition the tyre-and-wheel assembly at test-room temperature for not less than three hours

28-1.6.3.2.2.4 Readjust the tyre pressure to the former required pressure .

28-1.6.3.2.3 Carrying out the test

28-1.6.3.2.3.1 Mount the tyre-and-wheel assembly on a test axle and press it against the outer face of a smooth wheel 1.70m +/- 1% or 2m +/- 1% in diameter.

28-1.6.3.2.3.2 Position the contour outline device and as certain that it is perpendicular to the rotation of the test tyre tread.

28-1.6.3.2.3.3 Accelerate the assembly without interruption to reach within five minutes the maximum speed capability of the tyre.

28-1.6.3.2.3.4 Check that the peripheral speed of the tread surface is within +/- 2% of the maximum speed capability for the tyre. Maintain the equipment at constant speed for at least five minutes.

28-1.6.3.2.3.5 During the test the temperature in the test-room must be maintained at between 20 degrees and 30 degrees or at a higher temperature if the manufacturer agrees.

28-1.6.4 Requirements

28-1.6.4.1 Load/speed performance test

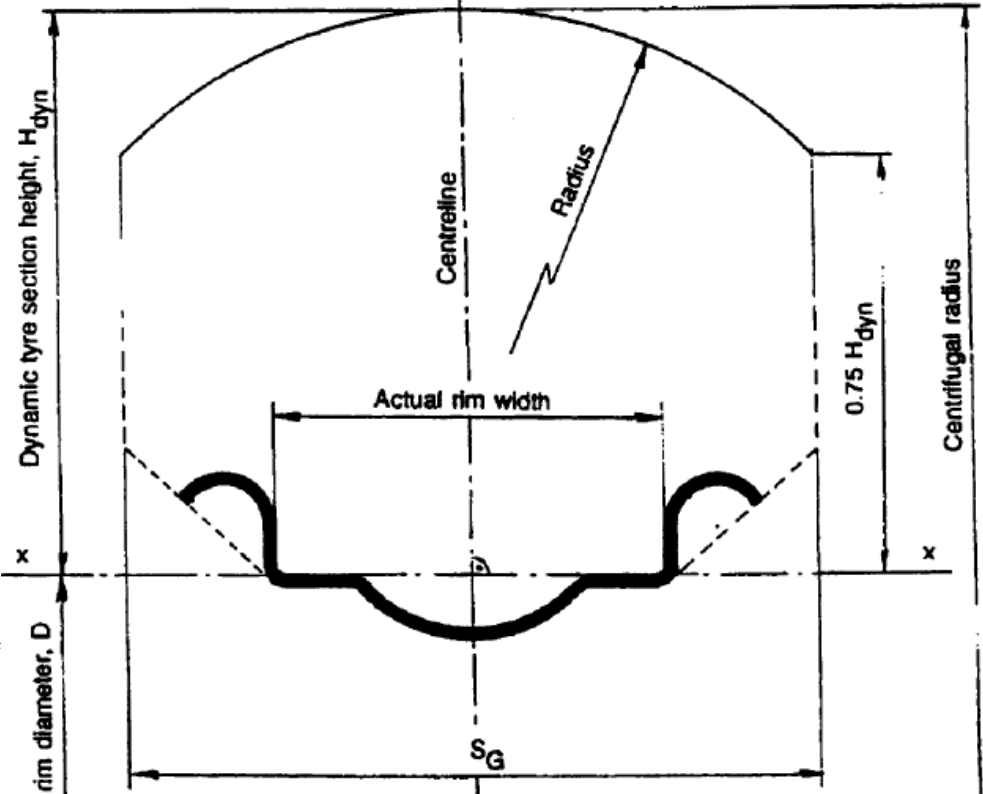
28-1.6.4.1.1 A tyre which after undergoing the load/speed test does not exhibit any tread separation, ply separation, cord separation, chunking or broken cords shall be deemed to have passed the test.

28-1.6.4.2 Enveloping curve for centrifugal growth test

Tyres for above speed category P, the contour of the tyre portrayed at the maximum speed shall not exceed the

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enveloping curve, with reference to the tyre axes.



The official directions are written in Chinese

SG=Maximum overall width in service

(This changes 1 mm per 0.1 Rim width code change from the measuring rim)

H_{dyn}=Centrifugal radius - D/2

| Speed Category | H _{dyn} (mm) | |
|----------------|----------------------------|--------------------------------------|
| | Category of Use: Normal | Category of Use: Snow and special |
| P/Q/R/S | H x 1,10 | H x 1,15 |
| T/U/H | H x 1,13 | H x 1,18 |
| Over 210 km/h | H x 1,16 | - |

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