INTERNATIONAL STANDARD

# ISO 5751-2

Sixth edition
2010-11-15

# Motorcycle tyres and rims (metric series) —

## Part 2: Tyre dimensions and load-carrying capacities

*Pneumatiques et jantes pour motocycles (séries millimétriques) —*

*Partie 2: Cotes et capacités de charge des pneumatiques*

Reference number
ISO 5751-2:2010(E)

Documents
Document Sharing Hub

© ISO 2010

Full document details: ISO 5751-2-2010

**PDF disclaimer**

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2010

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.org
Web www.iso.org

Published in Switzerland



© ISO 2010 – All rights reserved

Documents
Document Sharing Hub

Full document details: ISO 5751-2-2010

# Contents

Page

**Foreword** ..... iv

**1 Scope** ..... 1

**2 Normative references** ..... 1

**3 Terms and definitions** ..... 1

**4 Tyre designation** ..... 1
**4.1 General** ..... 1
**4.2 Tyre construction code** ..... 1
**4.3 Other markings** ..... 2

**5 Tyre dimensions** ..... 2
**5.1 General** ..... 2
**5.2 Measuring procedure** ..... 2

**6 Tread configurations** ..... 3

**7 Load ratings** ..... 3
**7.1 General** ..... 3
**7.2 Load capacity at reduced speeds** ..... 3
**7.3 Load capacity at speeds higher than 210 km/h** ..... 3

**8 Inflation pressures** ..... 4

**Annex A** (informative) **Harmonized load indices** ..... 28

**Bibliography** ..... 34

© ISO 2010 – All rights reserved



Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

# Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 5751-2 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This sixth edition cancels and replaces the fifth edition (ISO 5751-2:2004), which has been technically revised.

ISO 5751 consists of the following parts, under the general title *Motorcycle tyres and rims (metric series)*:

— *Part 1: Design guides*

— *Part 2: Tyre dimensions and load-carrying capacities*

— *Part 3: Range of approved rim contours*


© ISO 2010 – All rights reserved
Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

# Motorcycle tyres and rims (metric series) —

# Part 2: Tyre dimensions and load-carrying capacities

## 1 Scope

This part of ISO 5751 specifies the tyre size designation, dimensions and load-carrying capacities of metric series motorcycle tyres. It is applicable to such tyres with a height-to-width ratio of 100 % and below.

NOTE See ISO 4249 for motorcycle tyres and rims (code-designated series) of rim diameter codes 13 and above, and ISO 6054 for those of codes 12 and below.

## 2 Normative references

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

ISO 4223-1, *Definitions of some terms used in the tyre industry — Part 1: Pneumatic tyres*

ISO 5751-1, *Motorcycle tyres and rims (metric series) — Part 1: Design guides*

ISO 5751-3, *Motorcycle tyres and rims (metric series) — Part 3: Range of approved rim contours*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 apply.

## 4 Tyre designation

### 4.1 General

The tyre designation shall be as specified in ISO 5751-1, completed by the addition of the service description, i.e. load index and speed symbol.

### 4.2 Tyre construction code

The tables in this part of ISO 5751 show, as examples, tyre size designations for tyres in diagonal construction. However, a motorcycle tyre having, for example, a

— nominal section width of 100 mm,

— nominal aspect ratio of 90,

— nominal rim diameter code of 18 M/C,

© ISO 2010 – All rights reserved

Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

— load-carrying capacity of 224 kg (corresponding to load index 56), and

— reference speed of 150 km/h (corresponding to speed symbol “P”),

shall be marked, depending on its construction characteristics, as follows.

| | |
|---|---|
| Diagonal-ply construction: | **100/90 – 18M/C 56 P** |
| Bias-belted construction: | **100/90 B 18M/C 56 P** |
| Radial-ply construction: | **100/90 R 18M/C 56 P** |

NOTE For tyres suitable for speeds greater than 240 km/h, see ISO 5751-1.

### 4.3 Other markings

For tyres having a nominal rim diameter code of 16 M/C or higher, the suffix M/C is not required if the tyre was manufactured before May 2003.

Extra-load version tyres shall be additionally marked either “Extra Load” or “REINF” (for *reinforced*).

## 5 Tyre dimensions

### 5.1 General

Tables 1 to 14 present the

a) tyre size designation,

b) measuring rim width code,

c) design tyre dimensions, i.e. section width and overall diameter, and

d) maximum tyre dimensions in service, i.e. overall width and diameter for the various types of tread configuration (see Clause 6) to be considered by vehicle manufacturers in designing for tyre clearances.

NOTE The maximum dimensions in service do not include the values of the centrifugal radius (see ISO 5751-1).

### 5.2 Measuring procedure

Mount the tyre on a chosen rim according to ISO 5751-3, approved for the respective tyre size and ready for fitting. Inflate as follows.

a) For normal-load version tyres:

— 225 kPa for speed symbols “S” and lower;

— 280 kPa for speed symbols “T” and higher.

b) For extra-load version tyres:

— 280 kPa for speed symbols “P” and lower;

— 330 kPa for speed symbols “Q” and higher.

c) For light-load version tyres: 175 kPa.


© ISO 2010 – All rights reserved
Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

Allow the tyre to stand for 24 h at normal room temperature, then readjust the inflation pressures to those specified in a), b) and c), before performing the measurements.

When measuring on rims having a rim width code that differs from that of the measuring rim width code given in the tables of this part of ISO 5751, the section-width and overall-width values of the tyre used for comparison with the data given in Tables 1 to 14 shall be adjusted as follows:

$$W = W_m + 0{,}4\ (R - R_m)$$

where

$W_m$ is the value measured;

$R_m$ is the width, expressed in millimetres, of the rim used for the measurements;

$R$ is the width, expressed in millimetres, of the measuring rim width code given in the tables.

## 6 Tread configurations

ISO 5751-1:—, Figure 1, shows various tread configurations. The following attributions of tread-type configurations to the type of service are to be considered as examples only. The choice of a given tread-type configuration for a given tyre is at the discretion of the tyre manufacturer alone.

— Tread type A is commonly adopted for highway-service low-speed tyres;

— tread type B is commonly adopted for highway-service high-speed tyres;

— tread type C is commonly adopted for tyres used in both on- and off-road service;

— tread type D is commonly adopted for tyres exclusively in off-road service.

## 7 Load ratings

### 7.1 General

Tables 15 to 29 show the standardized maximum tyre load-carrying capacity for each given tyre size designation.

### 7.2 Load capacity at reduced speeds

Subject to acceptance by the tyre manufacturer and taking into account the conditions of use of the motorcycle, the load capacities corresponding to the load indices indicated in Tables 15 to 29 may be modified by the percentages given in Table 30. This modification is possible when the maximum speed of motorcycle is different from the one associated with the speed symbol.

### 7.3 Load capacity at speeds higher than 210 km/h

For the load-carrying capacities of tyres marked with speed symbols “V” or “W” operating at speeds higher than 210 km/h, see ISO 5751-1.

© ISO 2010 – All rights reserved

Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

## 8 Inflation pressures

The following inflation pressures are given as guidelines only. Inflation pressures used in practice are subject to agreement between the tyre and vehicle manufacturers and should take into account not only the load, but also the tyre construction, road holding, maximum speed, location of the tyre, operating conditions and mechanical characteristics of the vehicle.

The maximum load-carrying capacity corresponds to the following inflation pressures.

a) For nominal rim diameter codes up to and including 12 (for series 80 and above):

1) light-load version: 175 kPa

2) normal-load version: 250 kPa

3) extra-load version: 300 kPa

b) For nominal rim diameter codes 13 and above (for series 70 and below, and also for nominal rim diameter codes 12 and below):

1) light-load version: 175 kPa

2) normal-load version:

— for tyres marked with a speed symbol up to and including “P” 225 kPa

— for tyres marked with a speed symbol “Q”, “R” or “S” 250 kPa

— for tyres marked with a speed symbol “T”, “U” or “H” 280 kPa

— for tyres marked with a speed symbol “V” or “W” 290 kPa

3) extra-load version: increase the inflation pressure for the normal-load version by 50 kPa.


© ISO 2010 – All rights reserved
Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

**Table 1 — Tyre dimensions (design and in-service) — 100 series tyres with nominal rim diameter codes 13 and above**

Dimensions in millimetres

| Tyre size designation[a] | Measuring rim width code | Design tyre | | In-service | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Section width $S$ | Overall diameter $D_o$ | Maximum overall width $W_{max}$ | | | Maximum overall diameter[b] $D_{o,max}$ | |
| | | | | Tread types A, B and C[c] | Tread types A, B and C[d] | Tread type D | Tread types A and B | Tread types C and D |
| **50/100 – 14 M/C** | 1.20 | 50 | 456 | 54 | 55 | 63 | 464 | 468 |
| **60/100 – 14 M/C** | 1.40 | 60 | 476 | 64 | 66 | 75 | 484 | 490 |
| **70/100 – 14 M/C** | 1.60 | 69 | 496 | 74 | 76 | 86 | 506 | 514 |
| **80/100 – 14 M/C** | 1.85 | 80 | 516 | 86 | 88 | 100 | 528 | 536 |
| **90/100 – 14 M/C** | 2.15 | 90 | 536 | 96 | 99 | 113 | 548 | 558 |
| **70/100 – 15 M/C** | 1.60 | 69 | 521 | 74 | 76 | 86 | 531 | 537 |
| **80/100 – 15 M/C** | 1.85 | 80 | 541 | 86 | 88 | 100 | 553 | 561 |
| **90/100 – 15 M/C** | 2.15 | 90 | 561 | 96 | 99 | 113 | 573 | 583 |
| **60/100 – 16 M/C** | 1.40 | 60 | 526 | 64 | 66 | 75 | 534 | 540 |
| **70/100 – 16 M/C** | 1.60 | 69 | 546 | 74 | 76 | 86 | 556 | 562 |
| **80/100 – 16 M/C** | 1.85 | 80 | 566 | 86 | 88 | 100 | 578 | 586 |
| **90/100 – 16 M/C** | 2.15 | 90 | 586 | 96 | 99 | 113 | 598 | 608 |
| **100/100 – 16 M/C** | 2.50 | 101 | 606 | 108 | 111 | 126 | 620 | 630 |
| **130/100 – 16 M/C** | 3.00 | 129 | 666 | 138 | 142 | 161 | 684 | 698 |
| **140/100 – 16 M/C** | 3.50 | 142 | 686 | 152 | 156 | 178 | 706 | 720 |
| **50/100 – 17 M/C** | 1.20 | 50 | 532 | 54 | 55 | 63 | 540 | 544 |
| **60/100 – 17 M/C** | 1.40 | 60 | 552 | 64 | 66 | 75 | 560 | 566 |
| **70/100 – 17 M/C** | 1.60 | 69 | 572 | 74 | 76 | 86 | 582 | 588 |
| **80/100 – 17 M/C** | 1.85 | 80 | 592 | 86 | 88 | 100 | 604 | 612 |
| **90/100 – 17 M/C** | 2.15 | 90 | 612 | 96 | 99 | 113 | 624 | 634 |
| **100/100 – 17 M/C** | 2.50 | 101 | 632 | 108 | 111 | 126 | 646 | 656 |
| **110/100 – 17 M/C** | 2.50 | 109 | 652 | 117 | 120 | 136 | 668 | 678 |
| **120/100 – 17 M/C** | 2.75 | 119 | 672 | 127 | 131 | 149 | 688 | 700 |
| **130/100 – 17 M/C** | 3.00 | 129 | 692 | 138 | 142 | 161 | 710 | 724 |
| **70/100 – 18 M/C** | 1.60 | 69 | 597 | 74 | 76 | 86 | 607 | 613 |
| **80/100 – 18 M/C** | 1.85 | 80 | 617 | 86 | 88 | 100 | 629 | 637 |
| **90/100 – 18 M/C** | 2.15 | 90 | 637 | 96 | 99 | 113 | 649 | 659 |
| **100/100 – 18 M/C** | 2.50 | 101 | 657 | 108 | 111 | 126 | 671 | 681 |
| **110/100 – 18 M/C** | 2.50 | 109 | 677 | 117 | 120 | 136 | 693 | 703 |
| **120/100 – 18 M/C** | 2.75 | 119 | 697 | 127 | 131 | 149 | 713 | 725 |
| **130/100 – 18 M/C** | 3.00 | 129 | 717 | 138 | 142 | 161 | 735 | 749 |
| **70/100 – 19 M/C** | 1.60 | 69 | 623 | 74 | 76 | 86 | 633 | 639 |
| **80/100 – 19 M/C** | 1.85 | 80 | 643 | 86 | 88 | 100 | 655 | 663 |
| **90/100 – 19 M/C** | 2.15 | 90 | 663 | 96 | 99 | 113 | 675 | 685 |
| **100/100 – 19 M/C** | 2.50 | 101 | 683 | 108 | 111 | 126 | 697 | 707 |
| **110/100 – 19 M/C** | 2.50 | 109 | 703 | 117 | 120 | 136 | 719 | 729 |
| **120/100 – 19 M/C** | 2.75 | 119 | 723 | 127 | 131 | 149 | 739 | 751 |
| **130/100 – 19 M/C** | 3.00 | 129 | 743 | 138 | 142 | 161 | 761 | 775 |
| **90/100 – 20 M/C** | 2.15 | 90 | 688 | 96 | 99 | 113 | 700 | 710 |
| **70/100 – 21 M/C** | 1.60 | 69 | 673 | 74 | 76 | 86 | 683 | 689 |
| **80/100 – 21 M/C** | 1.85 | 80 | 693 | 86 | 88 | 100 | 705 | 713 |
| **90/100 – 21 M/C** | 2.15 | 90 | 713 | 96 | 99 | 113 | 725 | 735 |

[a] For appropriate tyre size designation, see Clause 4.

[b] Maximum overall diameters are related to service up to 150 km/h.

[c] Radial-ply tyres.

[d] Diagonal-ply and bias-belted tyres.

© ISO 2010 – All rights reserved



Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

**Table 2 — Tyre dimensions (design and in-service) — 100 series tyres with nominal rim diameter codes 12 and below**

Dimensions in millimetres

| Tyre size designation[a] | Measuring rim width code | Design tyre | | In-service[b] | |
|---|---|---|---|---|---|
| | | Section width $S$ | Overall diameter $D_o$ | Maximum overall width $W_{max}$ | Maximum overall diameter $D_{o,max}$ |
| **70/100 – 8** | 1.60 | 69 | 343 | 75 | 353 |
| **80/100 – 8** | 1.85 | 80 | 363 | 86 | 375 |
| **90/100 – 8** | 2.15 | 90 | 383 | 97 | 395 |
| **100/100 – 8** | 2.50 | 101 | 403 | 109 | 417 |
| **110/100 – 8** | 2.50 | 109 | 423 | 118 | 439 |
| **120/100 – 8** | 2.75 | 119 | 443 | 129 | 459 |
| **130/100 – 8** | 3.00 | 129 | 463 | 139 | 481 |
| **60/100 – 10** | 1.40 | 60 | 374 | 65 | 382 |
| **70/100 – 10** | 1.60 | 69 | 394 | 75 | 404 |
| **80/100 – 10** | 1.85 | 80 | 414 | 86 | 426 |
| **90/100 – 10** | 2.15 | 90 | 434 | 97 | 446 |
| **100/100 – 10** | 2.50 | 101 | 454 | 109 | 468 |
| **110/100 – 10** | 2.50 | 109 | 474 | 118 | 490 |
| **120/100 – 10** | 2.75 | 119 | 494 | 129 | 510 |
| **130/100 – 10** | 3.00 | 129 | 514 | 139 | 532 |
| **60/100 – 12** | 1.40 | 60 | 425 | 65 | 433 |
| **70/100 – 12** | 1.60 | 69 | 445 | 75 | 455 |
| **80/100 – 12** | 1.85 | 80 | 465 | 86 | 477 |
| **90/100 – 12** | 2.15 | 90 | 485 | 97 | 497 |
| **100/100 – 12** | 2.50 | 101 | 505 | 109 | 519 |
| **110/100 – 12** | 2.50 | 109 | 525 | 118 | 541 |
| **120/100 – 12** | 2.75 | 119 | 545 | 129 | 561 |
| **130/100 – 12** | 3.00 | 129 | 565 | 139 | 583 |

[a] For appropriate tyre size designation, see Clause 4.

[b] Tread types A and B.



© ISO 2010 – All rights reserved

Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

**Table 3 — Tyre dimensions (design and in-service) — 90 series tyres with nominal rim diameter codes 13 and above**

Dimensions in millimetres

| Tyre size designation[a] | Measuring rim width code | Design tyre | | In-service | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Section width $S$ | Overall diameter $D_o$ | Maximum overall width $W_{max}$ | | | Maximum overall diameter[b] $D_{o,max}$ | |
| | | | | Tread types A, B and C[c] | Tread types A, B and C[d] | Tread type D | Tread types A and B | Tread types C and D |
| **110/90 – 13 M/C** | 2.50 | 109 | 528 | 117 | 120 | 136 | 542 | 552 |
| **70/90 – 14 M/C** | 1.60 | 69 | 482 | 74 | 76 | 86 | 490 | 498 |
| **80/90– 14 M/C** | 1.85 | 80 | 500 | 86 | 88 | 100 | 510 | 518 |
| **90/90 – 14 M/C** | 2.15 | 90 | 518 | 96 | 99 | 113 | 530 | 538 |
| **90/90 – 15 M/C** | 2.15 | 90 | 543 | 96 | 99 | 113 | 555 | 563 |
| **100/90 – 15 M/C** | 2.50 | 101 | 561 | 108 | 111 | 126 | 573 | 583 |
| **110/90 – 15 M/C** | 2.50 | 109 | 579 | 117 | 120 | 136 | 593 | 603 |
| **120/90 – 15 M/C** | 2.75 | 119 | 597 | 127 | 131 | 149 | 613 | 623 |
| **130/90 – 15 M/C** | 3.00 | 129 | 615 | 138 | 142 | 161 | 631 | 643 |
| **140/90 – 15 M/C** | 3.50 | 142 | 633 | 152 | 156 | 178 | 651 | 663 |
| **150/90 – 15 M/C** | 3.50 | 150 | 651 | 161 | 165 | 188 | 669 | 683 |
| **60/90 – 16 M/C** | 1.40 | 60 | 514 | 64 | 66 | 75 | 522 | 530 |
| **70/90 – 16 M/C** | 1.60 | 69 | 532 | 74 | 76 | 86 | 540 | 550 |
| **80/90 – 16 M/C** | 1.85 | 80 | 550 | 86 | 88 | 100 | 560 | 568 |
| **90/90 – 16 M/C** | 2.15 | 90 | 568 | 96 | 99 | 113 | 580 | 588 |
| **100/90 – 16 M/C** | 2.50 | 101 | 586 | 108 | 111 | 126 | 598 | 608 |
| **110/90 – 16 M/C** | 2.50 | 109 | 604 | 117 | 120 | 136 | 618 | 628 |
| **120/90 – 16 M/C** | 2.75 | 119 | 622 | 127 | 131 | 149 | 638 | 648 |
| **130/90 – 16 M/C** | 3.00 | 129 | 640 | 138 | 142 | 161 | 656 | 668 |
| **140/90 – 16 M/C** | 3.50 | 142 | 658 | 152 | 156 | 178 | 676 | 688 |
| **150/90 – 16 M/C** | 3.50 | 150 | 676 | 161 | 165 | 188 | 694 | 708 |
| **50/90 – 17 M/C** | 1.20 | 50 | 522 | 54 | 55 | 63 | 528 | 532 |
| **60/90 – 17 M/C** | 1.40 | 60 | 540 | 64 | 66 | 75 | 548 | 556 |
| **70/90 – 17 M/C** | 1.60 | 69 | 558 | 74 | 76 | 86 | 566 | 574 |
| **80/90 – 17 M/C** | 1.85 | 80 | 576 | 86 | 88 | 100 | 586 | 594 |
| **90/90 – 17 M/C** | 2.15 | 90 | 594 | 96 | 99 | 113 | 606 | 614 |
| **100/90 – 17 M/C** | 2.50 | 101 | 612 | 108 | 111 | 126 | 624 | 634 |
| **110/90 – 17 M/C** | 2.50 | 109 | 630 | 117 | 120 | 136 | 644 | 654 |
| **120/90 – 17 M/C** | 2.75 | 119 | 648 | 127 | 131 | 149 | 664 | 674 |
| **130/90 – 17 M/C** | 3.00 | 129 | 666 | 138 | 142 | 161 | 682 | 694 |
| **140/90 – 17 M/C** | 3.50 | 142 | 684 | 152 | 156 | 178 | 702 | 714 |
| **150/90 – 17 M/C** | 3.50 | 150 | 702 | 161 | 165 | 188 | 720 | 732 |
| **70/90 – 18 M/C** | 1.60 | 69 | 583 | 74 | 76 | 86 | 591 | 599 |
| **80/90 – 18 M/C** | 1.85 | 80 | 601 | 86 | 88 | 100 | 611 | 619 |
| **90/90 – 18 M/C** | 2.15 | 90 | 619 | 96 | 99 | 113 | 631 | 639 |
| **100/90 – 18 M/C** | 2.50 | 101 | 637 | 108 | 111 | 126 | 649 | 659 |
| **110/90 – 18 M/C** | 2.50 | 109 | 655 | 117 | 120 | 136 | 669 | 679 |
| **120/90 – 18 M/C** | 2.75 | 119 | 673 | 127 | 131 | 149 | 689 | 699 |
| **130/90 – 18 M/C** | 3.00 | 129 | 691 | 138 | 142 | 161 | 707 | 719 |
| **140/90 – 18 M/C** | 3.50 | 142 | 709 | 152 | 156 | 178 | 727 | 739 |
| **70/90 – 19 M/C** | 1.60 | 69 | 609 | 74 | 76 | 86 | 617 | 625 |
| **80/90 – 19 M/C** | 1.85 | 80 | 627 | 86 | 88 | 100 | 637 | 645 |
| **90/90 – 19 M/C** | 2.15 | 90 | 645 | 96 | 99 | 113 | 657 | 665 |
| **100/90 – 19 M/C** | 2.50 | 101 | 663 | 108 | 111 | 126 | 675 | 685 |
| **110/90 – 19 M/C** | 2.50 | 109 | 681 | 117 | 120 | 136 | 695 | 705 |
| **120/90 – 19 M/C** | 2.75 | 119 | 699 | 127 | 131 | 149 | 715 | 725 |
| **130/90 – 19 M/C** | 3.00 | 129 | 717 | 138 | 142 | 161 | 733 | 745 |
| **70/90 – 21 M/C** | 1.60 | 69 | 659 | 74 | 76 | 86 | 667 | 675 |
| **80/90 – 21 M/C** | 1.85 | 80 | 677 | 86 | 88 | 100 | 687 | 695 |
| **90/90 – 21 M/C** | 2.15 | 90 | 695 | 96 | 99 | 113 | 707 | 715 |
| **100/90 – 21 M/C** | 2.50 | 101 | 713 | 108 | 111 | 126 | 725 | 735 |

a For appropriate tyre size designation, see Clause 4.
b Maximum overall diameters are related to service up to 150 km/h.
c Radial-ply tyres.
d Diagonal-ply and bias-belted tyres.

© ISO 2010 – All rights reserved

Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010

**Table 4 — Tyre dimensions (design and in-service) — 90 series tyres with nominal rim diameter codes 12 and below**

Dimensions in millimetres

| Tyre size designation[a] | Measuring rim width code | Design tyre | | In-service[b] | |
|---|---|---|---|---|---|
| | | Section width $S$ | Overall diameter $D_o$ | Maximum overall width $W_{max}$ | Maximum overall diameter $D_{o,max}$ |
| **60/90 – 8** | 1.40 | 60 | 311 | 66 | 319 |
| **70/90 – 8** | 1.60 | 69 | 329 | 75 | 337 |
| **80/90 – 8** | 1.85 | 80 | 347 | 86 | 357 |
| **90/90 – 8** | 2.15 | 90 | 365 | 97 | 377 |
| **100/90 – 8** | 2.50 | 101 | 383 | 109 | 395 |
| **110/90 – 8** | 2.50 | 109 | 401 | 118 | 415 |
| **120/90 – 8** | 2.75 | 119 | 419 | 129 | 435 |
| **130/90 – 8** | 3.00 | 129 | 437 | 139 | 453 |
| **60/90 – 10** | 1.40 | 60 | 362 | 66 | 370 |
| **70/90 – 10** | 1.60 | 69 | 380 | 75 | 388 |
| **80/90 – 10** | 1.85 | 80 | 398 | 86 | 408 |
| **90/90 – 10** | 2.15 | 90 | 416 | 97 | 428 |
| **100/90 – 10** | 2.50 | 101 | 434 | 109 | 446 |
| **110/90 – 10** | 2.50 | 109 | 452 | 118 | 466 |
| **120/90 – 10** | 2.75 | 119 | 470 | 129 | 486 |
| **130/90 – 10** | 3.00 | 129 | 488 | 139 | 504 |
| **60/90 – 12** | 1.40 | 60 | 413 | 66 | 421 |
| **70/90 – 12** | 1.60 | 69 | 431 | 75 | 439 |
| **80/90 – 12** | 1.85 | 80 | 449 | 86 | 459 |
| **90/90 – 12** | 2.15 | 90 | 467 | 97 | 479 |
| **100/90 – 12** | 2.50 | 101 | 485 | 109 | 497 |
| **110/90 – 12** | 2.50 | 109 | 503 | 118 | 517 |
| **120/90 – 12** | 2.75 | 119 | 521 | 129 | 537 |
| **130/90 – 12** | 3.00 | 129 | 539 | 139 | 555 |

[a] For appropriate tyre size designation, see Clause 4.

[b] Tread types A and B.



© ISO 2010 – All rights reserved

Documents
Document Sharing Hub
Full document details: ISO 5751-2-2010