SRI LANKA STANDARD 1321: PART 3 : 2007
ISO 5751-3 :2004

SIZE DESIGNATION AND DIMENSIONS FOR MOTORCYCLE TYRES AND RIMS (METRIC SERIES)

PART 3: RANGE OF APPROVED RIM CONTOURS

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PART 3: RANGE OF APPROVED RIM CONTOURS

SLS 1321 : Part 3 : 2007
ISO 5751-3 :2004
(Superseding SLS 901 : Part 2: 1990 Section 3)

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SRI LANKA STANDARD
SIZE DESIGNATION AND DIMENSIONS FOR MOTORCYCLE TYRES AND RIMS (METRIC SERIES)
PART 3: RANGE OF APPROVED RIM CONTOURS

NATIONAL FOREWORD

This Sri Lanka Standard was approved by the Sectoral Committee on Chemical and Polymer Technology and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2007-11-28.

This Sri Lanka Standard is identical with ISO 5751-3 : 2004 Motorcycle tyres and rims (metric series) Part 3- Range of approved rim contours, published by the International Organization for Standardization (ISO).

The text of the International Standard has been accepted as suitable for publication without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards.

Attention is therefore drawn to the following :

TERMINOLOGY AND CONVENTIONS :

The text of the International Standard has been accepted as a suitable for publication, without deviation, as a Sri Lanka Standard. However, certain terminology and conventions are not identical with those used in Sri Lanka Standards, attention is therefore drawn to the following:

a) Wherever the words 'International Standard/Publication' appear referring to this standard they should be interpreted as "Sri Lanka Standard" .

b) The comma has been used throughout as a decimal marker. In Sri Lanka Standards it is the current practice to use the full point at the base line as the decimal marker.

c) Wherever page numbers are quoted, they are ISO/IEC page numbers.

Cross References

International Standard	Corresponding Sri Lanka Standard
ISO 4249-3 Motorcycle tyres and rims (code-designated series) – Part 3: Rims	SLS 1320 Size designation and dimentions for motorcycle tyres and rims (code-designated series) – Part 3: Rims
ISO 5751-2 Motorcycle tyres and rims (metric series) – Part 2: Tyre dimensions and load-carrying capacities	SLS 1321 Size designation and dimentions for motorcycle tyres and rims (metric series) – Part 2: Tyre dimensions and load-carrying capacities
ISO 6054-2 Motorcycle tyres and rims (code-designated series) – Diameter codes 4 to 12 –Part 2: Rims	SLS 1322 Size designation and dimentions for motorcycle tyres and rims (code-designated series) – Diameter codes 4 to 12 – Part 2: Rims

INTERNATIONAL STANDARD

ISO 5751-3

Fifth edition
2004-11-15

Motorcycle tyres and rims (metric series) —

Part 3: Range of approved rim contours

Pneumatiques et jantes pour motocycles (séries millimétriques) —

Partie 3: Gamme des profils de jante homologués

Reference number
ISO 5751-3:2004(E)

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Foreword

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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 5751-3 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 10, *Cycle, moped, motorcycle tyres and rims*.

This fifth edition cancels and replaces the fourth edition (ISO 5751-3:1999), which has been technically revised. It also incorporates the Amendment ISO 5751-3:1999/Amd 1:2002.

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*

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INTERNATIONAL STANDARD **ISO 5751-3:2004(E)**

Motorcycle tyres and rims (metric series) —

Part 3:
Range of approved rim contours

1 Scope

This part of ISO 5751 specifies the approved rim contours for motorcycle rims on which metric-series motorcycle tyres are mounted.

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 4249-3, *Motorcycle tyres and rims (code-designated series) — Part 3: Rims*

ISO 5751-2, *Motorcycle tyres and rims (metric series) — Part 2: Tyre dimensions and load-carrying capacities*

ISO 6054-2:1990, *Motorcycle tyres and rims (Code-designated series) — Diameter codes 4 to 12 — Part 2: Rims*

3 Approved rim contours

See Tables 1 and 2 for the range of permitted rims and approved rim contour codes, and for the coefficients and tyre nominal section widths used to calculate minimum and maximum rim widths.

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Table 1 — Coefficients for approved rims

Series	Tyre construction	Coefficient,	
		minimum, R_{min}	**maximum,** R_{max}
100 to 80	Diagonal and bias-belted	0,50	0,70
	Radial	0,60	0,70
70 to 60	Diagonal and bias-belted	0,60	0,80
	Radial	0,70	0,80
55 and 50	Diagonal and radial	0,75	0,85
45 and 40	Radial	0,85	0,95

Minimum rim width = $S_N \times R_{min}$

Maximum rim width = $S_N \times R_{max}$

where S_N is the tyre nominal section width (see Table 2).

Calculated values shall be rounded to the nearest standardized rim widths as specified in ISO 4249-3.

The dimensions of rim contours, diameter details and complete marking of rims of nominal rim diameter shall be in accordance with

— ISO 4249-3 for codes 13 and above, and

— ISO 6054-2 for codes 12 and below.

The recommended rims correspond to the measuring rim widths (R_m) specified in ISO 5751-2.

The design new tyre section width, S, and the maximum overall width in service, W_{max}, specified in ISO 5751-2 will change 1 mm for each 0.1 code (2,5 mm) change in rim width from the recommended (measuring) rim width.

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Table 2 — Approved rim contours

Tyre nominal section width S_N	Approved rims [a, b, c]
40 and 45 series	
240	MT8.00; MT8.50; MT9.00
250	MT8.50; MT9.00; MT9.50
55 and 50 series	
130	MT3.75; MT4.00
140	MT4.00; MT4.25; MT4.50
150	MT4.50; MT5.00
160	MT4.50; MT5.00
170	MT5.00; MT5.50
180	MT5.50; MT6.00
190	MT5.50; MT6.00
200	MT6.00; MT6.25; MT6.50
210	MT6.25; MT6.50; MT7.00
240	MT7.00; MT7.50; MT8.00
60, 65 and 70 series	
80	(MT1.85); (1.85); 2.15; MT2.15; 2.50; MT2.50
100	(2.50); (MT2.50); 2.75; MT2.75; MT3.00
110	(2.50); (MT2.50); (2.75); (MT2.75); MT3.00; MT3.50
120	(2.75); (MT2.75); (MT3.00); MT3.50; MT3.75
130	(MT3.00); MT3.50; MT3.75; MT4.00
140	(MT3.50); MT3.75; MT4.00; MT4.25; MT4.50
150	(MT3.50); (MT3.75); MT4.00; MT4.25; MT4.50
160	(MT3.75); (MT4.00); MT4.25; MT4.50; MT5.00
170	(MT4.00); MT4.25; MT4.50; MT5.00; MT5.50
180	(MT4.25); (MT4.50); MT5.00; MT5.50
200	(MT4.75); (MT5.00); MT5.50; MT6.00; MT6.25
210	(MT5.00); (MT5.50); MT6.00; MT6.25; MT6.50
230	(MT5.50); (MT6.00); MT6.25; MT6.50; MT7.00

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Table 2 (*Continued*)

Tyre nominal section width	Approved rims [a, b, c]
80, 90 and 100 series	
60	(1.20); 1.40; 1.50; MT1.50; 1.60; MT1.60
70	(1.40); (1.50); (MT1.50); 1.60; MT1.60; 1.85; MT1.85
80	(1.60); (MT1.60); 1.85; 2.15; MT1.85; MT2.15
90	(1.85); 2.15; 2.50; (MT1.85); MT2.15; MT2.50
100	(2.15); 2.50; 2.75; (MT2.15); MT2.50; MT2.75
110	(2.15); 2.50; 2.75; 3.00; (MT2.15); MT2.50; MT2.75; MT3.00
120	(2.50); 2.75; 3.00; (MT2.50); MT2.75; MT3.00
130 [d]	(2.50); (2.75); (MT2.50); (MT2.75); 3.00; MT3.00; MT3.50
140 [d]	(2.75); (MT2.75); (3.00); (MT3.00); MT3.50; MT3.75
150 [d]	(3.00); (MT3.00); MT3.50; MT3.75; MT4.00; MT4.25
160	(MT3.50); MT3.75; MT4.00; MT4.25; MT4.50
170	(MT3.50); (MT3.75); MT4.00; MT4.25; MT4.50

[a] Recommended rims are the measuring rims.

[b] Care should be taken, especially when both or either tyres or rims are not marked with suffix M/C, not to fit motorcycle tyres to rims designed for tyres for other types of service (e.g. passenger car or agricultural tyres). Cylindrical bead seat rims are for tube-type tyres only.

[c] Rims within parentheses are permitted for diagonal-ply and bias-belted tyres only.

[d] For tyre sizes 130/90-16, 140/90-16 and 150/80-16, a 3.00D rim with a specified rim diameter of 405,6 mm ± 0,4 mm and with humps is permitted (see ISO 6054-2 for contour dimensions).

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Bibliography

[1] ISO 4249-1:1985, *Motorcycle tyres and rims (Code designated series) — Part 1: Tyres*

[2] ISO 4249-2:1990, *Motorcycle tyres and rims (Code-designated series) — Part 2: Tyre load ratings*

[3] ISO 6054-1:1994, *Motorcycle tyres and rims (code-designated series) — Diameter codes 4 to 12 — Part 1: Tyres*

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