SRI LANKA STANDARD 1321: PART 2 : 2007
ISO 5751-2 :2004

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

PART 2: TYRE DIMENTIONS AND LOAD-CARRYING CAPACITIES

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SIZE DESIGNATION AND DIMENSIONS FOR MOTORCYCLE TYRES AND RIMS (METRIC SERIES)
PART 2: TYRE DIMENTIONS AND LOAD-CARRYING CAPACITIES

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

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This standard does not purport to include all the necessary provisions of a contract.

SRI LANKA STANDARD
SIZE DESIGNATION AND DIMENSIONS FOR MOTORCYCLE TYRES AND RIMS (METRIC SERIES)
PART 2: TYRE DIMENTIONS AND LOAD-CARRYING CAPACITIES

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 5751-2 : 2004 Motorcycle tyres and rims (metric series) Part 2- Tyre dimensions and load-carrying capacities, 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 4223-1 Definitions of some terms used in the tyre industry – Part 1: Pneumatic tyres	SLS 900 Definition of terms and nomenclature of automobile tyres and rims Part 1 Definitions of some terms used in the tyre industry pneumatic- tyres
ISO 5751-1 Motorcycle tyres and rims (metric series) – Part 1: Design guides	SLS 1321 Size designations and dimentions for 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	SLS 1321 Size designations and dimentions for motorcycle tyres and rims (metric series) – Part 3: Range of approved rim contours

INTERNATIONAL STANDARD

ISO 5751-2

Fifth edition
2004-11-15

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 5751-2:2004(E)

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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 fifth edition cancels and replaces the fourth edition (ISO 5751-2:2002), 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*

INTERNATIONAL STANDARD **ISO 5751-2:2004(E)**

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 5751-1:2004, *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,

— 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 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 11 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 configurations (see Clause 7) 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 rim chosen 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.

Allow the tyre to stand for 24 h at normal room temperature, then readjust the inflation pressures to those specified above, 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 11, shall be adjusted according to the formula:

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

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 12 to 23 show the standardized maximum tyre load-carrying capacity/capacities 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 12 to 23 may be modified by the percentages given in Table 24. This modification is possible when the motorcycle maximum speed 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.

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 speed symbol “Q”, “R” or “S” 250 kPa

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

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

   3) Extra-load version: increase the inflation pressures for the normal-load version by 50 kPa.

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
60/100 – 14 M/C	1.50	61	476	65	67	76	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	1.50	61	526	65	67	76	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
60/100 – 17 M/C	1.50	61	552	65	67	76	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	588	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
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

[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.

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
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
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.

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	1.50	61	514	65	67	76	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
60/90 – 17 M/C	1.50	61	540	65	67	76	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.

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	1.50	61	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	1.50	61	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	1.50	61	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.

Table 5 — Tyre dimensions (design and in-service) — 80 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
120/80 – 13 M/C	2.75	119	522	127	131	149	536	546
80/80 – 14 M/C	1.85	80	484	86	88	100	492	500
90/80 – 14 M/C	2.15	90	500	96	99	113	510	518
100/80 – 14 M/C	2.50	101	516	108	111	126	528	536
110/80 – 14 M/C	2.50	109	532	117	120	136	542	554
120/80 – 14 M/C	2.75	119	548	127	131	149	562	572
130/80 – 14 M/C	3.00	129	564	138	142	151	578	588
160/80 – 14 M/C	4.00	162	612	173	178	203	630	642
140/80 – 15 M/C	3.50	142	605	152	156	178	621	631
150/80 – 15 M/C	3.50	150	621	161	165	188	637	649
160/80 – 15 M/C	4.00	162	637	173	178	203	655	667
170/80 – 15 M/C	4.00	170	653	182	187	213	673	685
80/80 – 16 M/C	1.85	80	534	86	88	100	542	550
100/80 – 16 M/C	2.50	101	566	108	111	126	578	586
110/80 – 16 M/C	2.50	109	582	117	120	136	594	604
120/80 – 16 M/C	2.75	119	598	127	131	149	612	622
130/80 – 16 M/C	3.00	129	614	138	142	161	628	638
140/80 – 16 M/C	3.50	142	630	152	156	178	646	656
150/80 – 16 M/C	3.50	150	646	161	165	188	662	674
160/80 – 16 M/C	4.00	162	662	173	178	203	680	692
80/80 – 17 M/C	1.85	80	560	86	88	100	568	576
90/80 – 17 M/C	2.15	90	576	96	99	113	586	594
100/80 – 17 M/C	2.50	101	592	108	111	126	604	612
110/80 – 17 M/C	2.50	109	608	117	120	136	620	630
120/80 – 17 M/C	2.75	119	624	127	131	149	638	648
130/80 – 17 M/C	3.00	129	640	138	142	161	654	664
140/80 – 17 M/C	3.50	142	656	152	156	178	672	682
150/80 – 17 M/C	3.50	150	672	161	165	188	688	700
70/80 – 18 M/C	1.60	69	569	74	76	86	577	583
80/80 – 18 M/C	1.85	80	585	86	88	100	593	601
90/80 – 18 M/C	2.15	90	601	96	99	113	611	619
100/80 – 18 M/C	2.50	101	617	108	111	126	629	637
110/80 – 18 M/C	2.50	109	633	117	120	136	645	655
120/80 – 18 M/C	2.75	119	649	127	131	149	663	673
130/80 – 18 M/C	3.00	129	665	138	142	161	679	689
140/80 – 18 M/C	3.50	142	681	152	156	178	697	707
150/80 – 18 M/C	3.50	150	697	161	165	188	713	725
160/80 – 18 M/C	4.00	162	713	173	178	203	731	743
80/80 – 19 M/C	1.85	80	611	86	88	100	619	627
90/80 – 19 M/C	2.15	90	627	96	99	113	637	645
100/80 – 19 M/C	2.50	101	643	108	111	126	655	663
110/80 – 19 M/C	2.50	109	659	117	120	136	671	681
120/80 – 19 M/C	2.75	119	675	127	131	149	689	699
130/80 – 19 M/C	3.00	129	691	138	142	161	705	715
140/80 – 19 M/C	3.50	142	707	152	156	178	723	733
80/80 – 21 M/C	1.85	80	661	86	88	100	669	677
90/80 – 21 M/C	2.15	90	677	96	99	113	687	695
100/80 – 21 M/C	2.50	101	693	108	111	126	705	713

[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.

Table 6 — Tyre dimensions (design and in-service) — 80 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 $D_{o,max}$
60/80 – 8	1.50	61	219	66	305
70/80 – 8	1.60	69	315	75	323
80/80 – 8	1.85	80	331	86	339
90/80 – 8	2.15	90	347	97	357
100/80 – 8	2.50	101	363	109	375
110/80 – 8	2.50	109	379	118	391
120/80 – 8	2.75	119	395	129	409
130/80 – 8	3.00	129	411	139	425
60/80 – 10	1.50	61	350	66	356
70/80 – 10	1.60	69	366	75	374
80/80 – 10	1.85	80	382	86	390
90/80 – 10	2.15	90	398	97	408
100/80 – 10	2.50	101	414	109	426
110/80 – 10	2.50	109	430	118	442
120/80 – 10	2.75	119	446	129	460
130/80 – 10	3.00	129	462	139	476
60/80 – 12	1.50	61	401	66	407
70/80 – 12	1.60	69	417	75	425
80/80 – 12	1.85	80	433	86	441
90/80 – 12	2.15	90	449	97	459
100/80 – 12	2.50	101	465	109	477
110/80 – 12	2.50	109	481	118	493
120/80 – 12	2.75	119	497	129	511
130/80 – 12	3.00	129	513	139	527

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

[b] Tread types A and B.

Table 7 — Tyre dimensions (design and in-service) — 70 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
80/70 – 16 M/C	2.15	79	518	85	87	526
100/70 – 16 M/C **100/70 – 17 M/C** **100/70 – 18 M/C** **100/70 – 19 M/C**	2.75	100	546 572 597 623	107	110	556 582 607 633
110/70 – 12	3.00	110	459	119	119	469
110/70 – 16 M/C **110/70 – 17 M/C** **110/70 – 18 M/C** **110/70 – 19 M/C**	3.00	110	560 586 611 637	118	121	570 596 621 647
120/70 – 10 **120/70 – 12**	3.50	122	422 473	132	132	434 485
120/70 – 13 M/C **120/70 – 14 M/C** **120/70 – 15 M/C** **120/70 – 16 M/C** **120/70 – 17 M/C** **120/70 – 18 M/C** **120/70 – 19 M/C** **120/70 – 21 M/C**	3.50	122	498 524 549 574 600 625 651 701	131	134	510 536 561 586 612 637 663 713
130/70 – 8 **130/70 – 10** **130/70 – 12**	3.50	129	385 436 487	139	139	397 448 499
130/70 – 13 M/C **130/70 – 16 M/C** **130/70 – 17 M/C** **130/70 – 18 M/C** **130/70 – 19 M/C**	3.50	129	512 588 614 639 665	138	142	524 600 626 651 677
140/70 – 8 **140/70 – 12**	3.75	139	399 501	150	150	413 515
140/70 – 14 M/C **140/70 – 16 M/C** **140/70 – 17 M/C** **140/70 – 18 M/C** **140/70 – 19 M/C**	3.75	139	552 602 628 653 679	149	153	566 616 642 667 693
150/70 – 13 M/C **150/70 – 14 M/C** **150/70 – 16 M/C** **150/70 – 17 M/C** **150/70 – 18 M/C** **150/70 – 19 M/C**	4.25	151	566 616 642 667 693	162	166	580 630 656 681 707
160/70 – 16 M/C **160/70 – 17 M/C** **160/70 – 18 M/C** **160/70 – 19 M/C**	4.50	161	630 656 681 707	172	177	646 672 697 723
170/70 – 15 M/C	4.50	168	619	180	185	635
180/70 – 15 M/C **180/70 – 16 M/C**	5.00	180	633 658	193	198	651 676
200/70 – 15 M/C	5.50	200	661	214	220	681

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

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

Table 8 — Tyre dimensions (design and in-service) — 65 and 60 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
65 series						
120/65 – 17 M/C	3.50	122	588	131	134	598
60 series						
110/60 – 16 M/C	3.00	110	538	118	121	548
110/60 – 17 M/C			564			574
110/60 – 18 M/C			589			599
110/60 – 19 M/C			615			625
120/60 – 16 M/C	3.50	122	550	131	134	560
120/60 – 17 M/C			576			586
120/60 – 18 M/C			601			611
120/60 – 19 M/C			627			637
130/60 – 13 M/C	3.50	129	486	138	142	496
130/60 – 16 M/C			562			572
130/60 – 17 M/C			588			598
130/60 – 18 M/C			613			623
130/60 – 19 M/C			639			649
140/60 – 12	4.00	141	473	152	152	485
140/60 – 13 M/C	3.75	139	498	149	153	510
140/60 – 16 M/C			574			586
140/60 – 17 M/C			600			612
140/60 – 18 M/C			625			637
140/60 – 19 M/C			651			663
150/60 – 13 M/C	4.25	151	510	162	166	522
150/60 – 14 M/C			536			548
150/60 – 16 M/C			586			598
150/60 – 17 M/C			612			624
150/60 – 18 M/C			637			649
150/60 – 19 M/C			663			657
160/60 – 14 M/C	4.50	161	548	172	177	562
160/60 – 15 M/C			573			587
160/60 – 16 M/C			598			612
160/60 – 17 M/C			624			638
160/60 – 18 M/C			649			663
160/60 – 19 M/C			675			689
170/60 – 16 M/C	4.50	168	610	180	185	624
170/60 – 17 M/C			636			650
170/60 – 18 M/C			661			675
170/60 – 19 M/C			687			701
180/60 – 16 M/C	5.00	180	622	193	198	638
180/60 – 17 M/C			648			664
190/60 – 17 M/C	5.00	188	660	201	207	676
200/60 – 16 M/C	5.50	200	646	214	220	662
210/60 – 16 M/C	6.00	212	658	227	233	676
230/60 – 15 M/C	6.25	229	657	245	252	677

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

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

Table 9 — Tyre dimensions (design and in-service) — 55 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
130/55 – 16 M/C	4.00	129	550	138	142	560
130/55 – 17 M/C			576			586
130/55 – 18 M/C			601			611
130/55 – 19 M/C			627			637
140/55 – 16 M/C	4.50	141	560	151	155	570
140/55 – 17 M/C			586			596
140/55 – 18 M/C			611			621
140/55 – 19 M/C			637			647
150/55 – 16 M/C	4.50	148	572	158	163	584
150/55 – 17 M/C			598			610
150/55 – 18 M/C			623			635
150/55 – 19 M/C			649			661
160/55 – 16 M/C	5.00	160	582	171	176	594
160/55 – 17 M/C			608			620
160/55 – 18 M/C			633			645
160/55 – 19 M/C			659			671
170/55 – 16 M/C	5.50	172	594	184	189	608
170/55 – 17 M/C			620			634
170/55 – 18 M/C			645			659
170/55 – 19 M/C			671			685
180/55 – 16 M/C	5.50	178	604	190	196	618
180/55 – 17 M/C			630			644
180/55 – 18 M/C			655			669
180/55 – 19 M/C			681			695
190/55 – 16 M/C	6.00	190	616	203	209	630
190/55 – 17 M/C			642			656
190/55 – 18 M/C			667			681
190/55 – 19 M/C			693			707
200/55 – 17 M/C	6.25	200	652	214	220	668
200/55 – 18 M/C			677			693
210/55 – 18 M/C	6.50	209	689	224	230	705

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

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

Table 10 — Tyre dimensions (design and in-service) — 50 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
160/50 – 16 M/C **160/50 – 17 M/C** **160/50 – 18 M/C** **160/50 – 19 M/C**	5.00	160	566 592 617 643	171	176	578 604 629 655
170/50 – 16 M/C **170/50 – 17 M/C** **170/50 – 18 M/C** **170/50 – 19 M/C**	5.50	172	576 602 627 653	184	189	588 614 639 665
180/50 – 16 M/C **180/50 – 17 M/C** **180/50 – 18 M/C** **180/50 – 19 M/C**	5.50	178	586 612 637 663	190	196	598 624 649 675
190/50 – 16 M/C **190/50 – 17 M/C** **190/50 – 18 M/C** **190/50 – 19 M/C**	6.00	190	596 622 647 673	203	209	610 636 661 687
200/50 – 17 M/C **200/50 – 18 M/C**	6.25	200	632 657	214	221	646 671
210/50 – 17 M/C	6.50	209	642	224	230	656
240/50 – 16 M/C	7.50	239	646	256	263	662

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 11 — Tyre dimensions (design and in-service) — 40 series tyres

Dimensions in millimetres

Tyre size designation [a]	Measuring rim width code	Design tyre		In-service — Tread types A and B		
		Section width S	Overall diameter D_o	Maximum overall width W_{max} Radial	Maximum overall width W_{max} Diagonal and bias-belted	Maximum overall diameter [b] $D_{o,max}$
240/40 – 18 M/C	8.50	240	649	257		663
250/40 – 18 M/C	9.00	251	657	269		671

[a] For appropriate tyre size designation, see Clause 4.
[b] Maximum overall diameters are related to service up to 150 km/h.

Table 12 — Maximum tyre load ratings — 100 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
60/100 – 14 M/C	29 [d]	103
70/100 – 14 M/C	37 [d]	128
	42 [c]	150
80/100 – 14 M/C	43 [d]	155
	49 [c]	185
90/100 – 14 M/C	49 [d]	185
	55 [c]	218
70/100 – 15 M/C	38 [d]	132
80/100 – 15 M/C	44 [d]	160
90/100 – 15 M/C	50 [d]	190
60/100 – 16 M/C	31 [d]	109
	38 [c]	132
70/100 – 16 M/C	39 [d]	136
	45 [c]	165
80/100 – 16 M/C	45 [d]	165
	51 [c]	195
90/100 – 16 M/C	51 [d]	195
	58 [c]	236
100/100 – 16 M/C	57 [d]	230
130/100 – 16 M/C	70 [d]	335
	76 [c]	400
140/100 – 16 M/C	74 [d]	375
	80 [c]	450
60/100 – 17 M/C	33 [d]	115
	39 [c]	136
70/100 – 17 M/C	40 [d]	140
	46 [c]	170
80/100 – 17 M/C	46 [d]	170
	53 [c]	206
90/100 – 17 M/C	53 [d]	206
	59 [c]	243
100/100 – 17 M/C	58 [d]	236
	64 [c]	280
110/100 – 17 M/C	63 [d]	272
	69 [c]	325
120/100 – 17 M/C	67 [d]	307
	73 [c]	365
130/100 – 17 M/C	71 [d]	345
	77 [c]	412
70/100 – 18 M/C	41 [d]	145
	47 [c]	175
80/100 – 18 M/C	47 [d]	175
	54 [c]	212
90/100 – 18 M/C	54 [d]	212
	60 [c]	250
100/100 – 18 M/C	59 [d]	243
	65 [c]	290
110/100 – 18 M/C	64 [d]	280
	70 [c]	335
120/100 – 18 M/C	68 [d]	315
	74 [c]	375
130/100 – 18 M/C	72 [d]	355
	78 [c]	425
70/100 – 19 M/C	42 [d]	150
	48 [c]	180
80/100 – 19 M/C	49 [d]	185
	55 [c]	218
90/100 – 19 M/C	55 [d]	218
	61 [c]	257
100/100 – 19 M/C	60 [d]	250
	66 [c]	300
110/100 – 19 M/C	65 [d]	290
	71 [c]	345
120/100 – 19 M/C	69 [d]	325
	75 [c]	387
130/100 – 19 M/C	73 [d]	365
	79 [c]	437
70/100 – 21 M/C	44 [d]	160
80/100 – 21 M/C	51 [d]	195

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

Table 13 — Maximum tyre load ratings — 100 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
70/100 – 8	26 [e]	95
	36 [d]	125
	41 [c]	145
80/100 – 8	34 [e]	118
	43 [d]	155
	48 [c]	180
90/100 – 8	40 [e]	140
	49 [d]	185
	54 [c]	212
100/10 – 8	45 [e]	165
	55 [d]	218
	60 [c]	250
110/100 – 8	50 [e]	190
	60 [d]	250
	65 [c]	290
120/100 – 8	55 [e]	218
	65 [d]	290
	70 [c]	335
130/100 – 8	60 [e]	250
	69 [d]	325
	74 [c]	375
70/100 – 10	30 [e]	106
	40 [d]	140
	45 [c]	165
80/100 – 10	38 [e]	132
	46 [d]	170
	52 [c]	200
90/100 – 10	43 [e]	155
	53 [d]	206
	58 [c]	236
100/100 – 10	49 [e]	185
	59 [d]	243
	64 [c]	280
110/100 – 10	54 [e]	212
	64 [d]	280
	69 [c]	325
120/100 – 10	59 [e]	243
	68 [d]	315
	73 [c]	365
130/100 – 10	64 [e]	280
	73 [d]	365
	78 [c]	425
70/100 – 12	34 [e]	118
	43 [d]	155
	48 [c]	180
80/100 – 12	41 [e]	145
	50 [d]	190
	55 [c]	218
90/100 – 12	46 [e]	170
	56 [d]	224
	61 [c]	257
100/100 – 12	52 [e]	200
	62 [d]	265
	67 [c]	307
110/100 – 12	58 [e]	236
	67 [d]	307
	72 [c]	355
120/100 – 12	62 [e]	265
	71 [d]	345
	76 [c]	400
130/100 – 12	66 [e]	300
	75 [d]	387
	80 [c]	450

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

Table 14 — Maximum tyre load ratings — 90 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
110/90 – 13 M/C	56 [d]	224
70/90 – 14 M/C	34 [d]	118
	40 [c]	140
80/90 – 14 M/C	40 [d]	140
90/90 – 15 M/C	47 [d]	175
100/90 – 15 M/C	53 [d]	206
110/90 – 15 M/C	58 [d]	236
120/90 – 15 M/C	62 [d]	265
130/90 – 15 M/C	66 [d]	300
140/90 – 15 M/C	70 [d]	335
	76 [c]	400
150/90 – 15 M/C	74 [d]	375
	80 [c]	450
60/90 – 16 M/C	29 [d]	103
	35 [c]	121
70/90 – 16 M/C	36 [d]	125
	42 [c]	150
80/90 – 16 M/C	43 [d]	155
	48 [c]	180
90/90 – 16 M/C	48 [d]	180
	55 [c]	218
100/90 – 16 M/C	54 [d]	212
110/90 – 16 M/C	59 [d]	243
120/90 – 16 M/C	63 [d]	272
130/90 – 16 M/C	67 [d]	307
	73 [c]	365
140/90 – 16 M/C	71 [d]	345
	77 [c]	412
150/90 – 16 M/C	75 [d]	387
	81 [c]	462
60/90 – 17 M/C	30 [d]	106
	36 [c]	125
70/90 – 17 M/C	38 [d]	132
	43 [c]	155
80/90 – 17 M/C	44 [d]	160
	50 [c]	190
90/90 – 17 M/C	49 [d]	185
	56 [c]	224
100/90 – 17 M/C	55 [d]	218
	61 [c]	257
110/90 – 17 M/C	60 [d]	250
	66 [c]	300
120/90 – 17 M/C	64 [d]	280
	70 [c]	335
130/90 – 17 M/C	68 [d]	315
	74 [c]	375
140/90 – 17 M/C	72 [d]	355
150/90 – 17 M/C	76 [d]	400
70/90 – 18 M/C	39 [d]	136
	44 [c]	160
80/90 – 18 M/C	45 [d]	165
	51 [c]	195
90/90 – 18 M/C	51 [d]	195
	57 [c]	230
100/90 – 18 M/C	56 [d]	224
	62 [c]	265
110/90 – 18 M/C	61 [d]	257
	67 [c]	307
120/90 – 18 M/C	65 [d]	290
	71 [c]	345
130/90 – 18 M/C	69 [d]	325
	75 [c]	387
140/90 – 18 M/C	73 [d]	365
70/90 – 19 M/C	40 [d]	140
	45 [c]	165
80/90 – 19 M/C	46 [d]	170
	52 [c]	200
90/90 – 19 M/C	52 [d]	200
	58 [c]	236
100/90 – 19 M/C	57 [d]	230
	63 [c]	272
110/90 – 19 M/C	62 [d]	265
	68 [c]	315
120/90 – 19 M/C	66 [d]	300
	72 [c]	355
130/90 – 19 M/C	70 [d]	355
	76 [c]	400
70/90 – 21 M/C	43 [d]	155
80/90 – 21 M/C	48 [d]	180
90/90 – 21 M/C	54 [d]	212
100/90 – 21 M/C	59 [d]	243

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

Table 15 — Maximum tyre load ratings — 90 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
60/90 – 8	16 [e]	71
	25 [d]	92,5
	30 [c]	106
70/90 – 8	24 [e]	90
	34 [d]	118
	39 [c]	136
80/90 – 8	31 [e]	109
	41 [d]	145
	46 [c]	170
90/90 – 8	38 [e]	132
	47 [d]	175
	52 [c]	200
100/90 – 8	43 [e]	155
	53 [d]	206
	58 [c]	236
110/90 – 8	48 [e]	180
	58 [d]	236
	63 [c]	272
120/90 – 8	52 [e]	200
	62 [d]	265
	67 [c]	307
130/90 – 8	57 [e]	230
	66 [d]	300
	71 [c]	345
60/90 – 10	20 [e]	80
	30 [d]	106
	35 [c]	121
70/90 – 10	28 [e]	100
	38 [d]	132
	43 [c]	155
80/90 – 10	35 [e]	121
	44 [d]	160
	49 [c]	185
90/90 – 10	41 [e]	145
	50 [d]	190
	55 [c]	218
100/90 – 10	46 [e]	170
	56 [d]	224
	61 [c]	257
110/90 – 10	51 [e]	195
	61 [d]	257
	66 [c]	300
120/90 – 10	57 [e]	230
	66 [d]	300
	71 [c]	345
130/90 – 10	61 [e]	257
	70 [d]	335
	75 [c]	387
60/90 – 12	24 [e]	90
	34 [d]	118
	39 [c]	136
70/90 – 12	31 [e]	109
	41 [d]	145
	46 [c]	170
80/90 – 12	39 [e]	136
	48 [d]	180
	53 [c]	206
90/90 – 12	44 [e]	160
	54 [d]	212
	59 [c]	243
100/90 – 12	49 [e]	185
	59 [d]	243
	64 [c]	280
110/90 – 12	54 [e]	212
	64 [d]	280
	69 [c]	325
120/90 – 12	60 [e]	250
	69 [d]	325
	74 [c]	375
130/90 – 12	64 [e]	280
	73 [d]	365
	78 [c]	425

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

Table 16 — Maximum tyre load ratings — 80 series tyres with nominal rim diameter codes 13 and above

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
120/80 – 13 M/C	56 [d]	224
	62 [c]	265
80/80 – 14 M/C	43 [c]	155
90/80 – 14 M/C	43 [d]	155
	49 [c]	185
100/80 – 14 M/C	48 [d]	180
	54 [c]	212
110/80 – 14 M/C	53 [d]	206
	59 [c]	243
120/80 – 14 M/C	58 [d]	236
130/80 – 14 M/C	62 [d]	265
160/80 – 14 M/C	72 [d]	355
140/80 – 15 M/C	67 [d]	307
	73 [c]	365
150/80 – 15 M/C	70 [d]	335
	76 [c]	400
160/80 – 15 M/C	74 [d]	375
170/80 – 15 M/C	77 [d]	412
	83 [c]	487
80/80 – 16 M/C	40 [d]	140
	45 [c]	165
90/80 – 16 M/C	45 [d]	165
	51 [c]	195
100/80 – 16 M/C	50 [d]	190
110/80 – 16 M/C	55 [d]	218
120/80 – 16 M/C	60 [d]	250
130/80 – 16 M/C	64 [d]	280
140/80 – 16 M/C	68 [d]	315
150/80 – 16 M/C	71 [d]	345
	77 [c]	412
160/80 – 16 M/C	75 [d]	387
	81 [c]	462
80/80 – 17 M/C	41 [d]	145
90/80 – 17 M/C	46 [d]	170
100/80 – 17 M/C	52 [d]	200
110/80 – 17 M/C	57 [d]	230
120/80 – 17 M/C	61 [d]	257
130/80 – 17 M/C	65 [d]	290
140/80 – 17 M/C	69 [d]	325
150/80 – 17 M/C	72 [d]	355
70/80 – 18 M/C	36 [d]	125
	41 [c]	145
80/80 – 18 M/C	42 [d]	150
	48 [c]	180
90/80 – 18 M/C	47 [d]	175
	54 [c]	212
100/80 – 18 M/C	53 [d]	206
	59 [c]	243
110/80 – 18 M/C	58 [d]	236
	64 [c]	280
120/80 – 18 M/C	62 [d]	265
	68 [c]	315
130/80 – 18 M/C	66 [d]	300
	72 [c]	355
140/80 – 18 M/C	70 [d]	335
	76 [c]	400
150/80 – 18 M/C	73 [d]	365
	79 [c]	437
160/80 – 18 M/C	83 [c]	487
80/80 – 19 M/C	43 [d]	155
90/80 – 19 M/C	49 [d]	185
100/80 – 19 M/C	54 [d]	212
110/80 – 19 M/C	59 [d]	243
120/80 – 19 M/C	63 [d]	272
130/80 – 19 M/C	67 [d]	307
140/80 – 19 M/C	71 [d]	345
80/80 – 21 M/C	45 [d]	165
90/80 – 21 M/C	51 [d]	195
100/80 – 21 M/C	56 [d]	224

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.

Table 17 — Maximum tyre load ratings — 80 series tyres with nominal rim diameter codes 12 and below

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
60/80 – 8	13 [e]	65
	22 [d]	85
	27 [c]	97,5
70/80 – 8	20 [e]	80
	30 [d]	106
	35 [c]	121
80/80 – 8	27 [e]	97,5
	37 [d]	128
	42 [c]	150
90/80 – 8	34 [e]	118
	43 [d]	155
	48 [c]	180
100/80 – 8	40 [e]	140
	49 [d]	185
	54 [c]	212
110/80 – 8	44 [e]	160
	54 [d]	212
	59 [c]	243
120/80 – 8	49 [e]	185
	59 [d]	243
	64 [c]	280
130/80 – 8	53 [e]	206
	63 [d]	272
	68 [c]	315
60/80 – 10	17 [e]	73
	26 [d]	95
	31 [c]	109
70/80 – 10	25 [e]	92,5
	35 [d]	121
	40 [c]	140
80/80 – 10	31 [e]	109
	41 [d]	145
	46 [c]	170
90/80 – 10	38 [e]	132
	47 [d]	175
	52 [c]	200
100/80 – 10	43 [e]	155
	53 [d]	206
	58 [c]	236
110/80 – 10	48 [e]	180
	58 [d]	236
	63 [c]	272
120/80 – 10	52 [e]	200
	62 [d]	265
	67 [c]	307
130/80 – 10	57 [e]	230
	66 [d]	300
	71 [c]	345
60/80 – 12	20 [e]	80
	30 [d]	106
	35 [c]	121
70/80 – 12	28 [e]	100
	38 [d]	132
	43 [c]	155
80/80 – 12	35 [e]	121
	44 [d]	160
	49 [c]	185
90/80 – 12	41 [e]	145
	50 [d]	190
	55 [c]	218
100/80 – 12	46 [e]	170
	56 [d]	224
	61 [c]	257
110/80 – 12	51 [e]	195
	61 [d]	257
	66 [c]	300
120/80 – 12	55 [e]	218
	65 [d]	290
	70 [c]	335
130/80 – 12	60 [e]	250
	69 [d]	325
	74 [c]	375

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[e] Light-load version.

Table 18 — Maximum tyre load ratings for 70 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
80/70 – 16 M/C	43 [c]	155
100/70 – 16 M/C	47 [d]	175
100/70 – 17 M/C	49 [d]	185
100/70 – 18 M/C	50 [d]	190
100/70 – 19 M/C	51 [d]	195
110/70 – 12	47 [d]	175
110/70 – 16 M/C	52 [d]	200
110/70 – 17 M/C	54 [d]	212
110/70 – 18 M/C	55 [d]	218
110/70 – 19 M/C	56 [d]	224
120/70 – 10	48 [d]	180
120/70 – 10	54 [c]	212
120/70 – 12	44 [e]	160
120/70 – 12	51 [d]	195
120/70 – 12	58 [c]	236
120/70 – 13 M/C	53 [d]	206
120/70 – 14 M/C	55 [d]	218
120/70 – 14 M/C	61 [c]	257
120/70 – 15 M/C	56 [d]	224
120/70 – 16 M/C	57 [d]	230
120/70 – 17 M/C	58 [d]	236
120/70 – 18 M/C	59 [d]	243
120/70 – 19 M/C	60 [d]	250
120/70 – 21 M/C	62 [d]	265
130/70 – 8	42 [c]	150
130/70 – 10	52 [d]	200
130/70 – 10	59 [c]	243
130/70 – 12	49 [e]	185
130/70 – 12	56 [d]	224
130/70 – 12	62 [c]	265
130/70 – 13 M/C	57 [d]	230
130/70 – 13 M/C	63 [c]	272
130/70 – 16 M/C	61 [d]	257
130/70 – 17 M/C	62 [d]	265
130/70 – 18 M/C	63 [d]	272
130/70 – 19 M/C	64 [d]	280
140/70 – 8	53 [d]	206
140/70 – 12	60 [d]	250
140/70 – 12	65 [c]	290
140/70 – 14 M/C	62 [d]	265
140/70 – 14 M/C	68 [c]	315
140/70 – 16 M/C	65 [d]	290
140/70 – 17 M/C	66 [d]	300
140/70 – 18 M/C	67 [d]	307
140/70 – 19 M/C	68 [d]	315
150/70 – 13 M/C	64 [d]	280
150/70 – 14 M/C	66 [d]	300
150/70 – 14 M/C	72 [c]	355
150/70 – 16 M/C	68 [d]	315
150/70 – 17 M/C	69 [d]	325
150/70 – 18 M/C	70 [d]	335
150/70 – 19 M/C	71 [d]	345
160/70 – 16 M/C	71 [d]	345
160/70 – 17 M/C	73 [d]	365
160/70 – 18 M/C	74 [d]	375
160/70 – 19 M/C	75 [d]	387
170/70 – 15 M/C	73 [d]	365
180/70 – 15 M/C	76 [d]	400
180/70 – 16 M/C	77 [d]	412
200/70 – 15 M/C	82 [d]	475

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load version.
[d] Normal-load version.
[c] Light-load version.

Table 19 — Maximum tyre load ratings for 65 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
120/65 – 17 M/C	56 [c]	224

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Normal-load version.

Table 20 — Maximum tyre load ratings for 60 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
110/60 – 16 M/C	49 [d]	185
110/60 – 17 M/C	50 [d]	190
110/60 – 18 M/C	51 [d]	195
110/60 – 19 M/C	53 [d]	206
120/60 – 16 M/C	53 [d]	206
120/60 – 17 M/C	55 [d]	218
120/60 – 18 M/C	56 [d]	224
120/60 – 19 M/C	57 [d]	230
130/60 – 13 M/C	53 [d]	206
130/60 – 13 M/C	60 [c]	250
130/60 – 16 M/C	58 [d]	236
130/60 – 17 M/C	59 [d]	243
130/60 – 18 M/C	60 [d]	250
130/60 – 19 M/C	61 [d]	257
140/60 – 12	56 [d]	224
140/60 – 12	62 [c]	265
140/60 – 13 M/C	57 [d]	230
140/60 – 13 M/C	63 [c]	272
140/60 – 16 M/C	61 [d]	257
140/60 – 17 M/C	63 [d]	272
140/60 – 18 M/C	64 [d]	280
140/60 – 19 M/C	65 [d]	290
150/60 – 13 M/C	61 [d]	257
150/60 – 13 M/C	66 [c]	300
150/60 – 14 M/C	62 [d]	256
150/60 – 16 M/C	65 [d]	290
150/60 – 17 M/C	66 [d]	300
150/60 – 18 M/C	67 [d]	307
150/60 – 19 M/C	68 [d]	315
160/60 – 14 M/C	65 [d]	290
160/60 – 15 M/C	67 [d]	307
160/60 – 16 M/C	68 [d]	315
160/60 – 17 M/C	69 [d]	325
160/60 – 18 M/C	70 [d]	335
160/60 – 19 M/C	71 [d]	345
170/60 – 16 M/C	71 [d]	345
170/60 – 17 M/C	72 [d]	355
170/60 – 18 M/C	73 [d]	365
170/60 – 19 M/C	74 [d]	375
180/60 – 16 M/C	74 [d]	375
180/60 – 17 M/C	75 [d]	387
190/60 – 17 M/C	78 [d]	425
200/60 – 16 M/C	79 [d]	437
210/60 – 16 M/C	82 [d]	475
230/60 – 15 M/C	86 [d]	530

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8.
[c] Extra-load/reinforced version.
[d] Normal-load version.

Table 21 — Maximum tyre load ratings for 55 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
130/55 – 16 M/C	55	218
130/55 – 17 M/C	57	230
130/55 – 18 M/C	58	236
130/55 – 19 M/C	59	243
140/55 – 16 M/C	59	243
140/55 – 17 M/C	60	250
140/55 – 18 M/C	61	257
140/55 – 19 M/C	62	265
150/55 – 16 M/C	63	272
150/55 – 17 M/C	64	280
150/55 – 18 M/C	65	290
150/55 – 19 M/C	66	300
160/55 – 16 M/C	65	290
160/55 – 17 M/C	67	307
160/55 – 18 M/C	68	315
160/55 – 19 M/C	69	325
170/55 – 16 M/C	69	325
170/55 – 17 M/C	70	335
170/55 – 18 M/C	71	345
170/55 – 19 M/C	72	355
180/55 – 16 M/C	71	345
180/55 – 17 M/C	73	365
180/55 – 18 M/C	74	375
180/55 – 19 M/C	75	387
190/55 – 16 M/C	74	375
190/55 – 17 M/C	75	387
190/55 – 18 M/C	76	400
190/55 – 19 M/C	77	412
200/55 – 17 M/C	78	425
200/55 – 18 M/C	79	437
210/55 – 18 M/C	82	462

[a] The full designation shall be as given in Clause 4.

[b] See Clause 8. Normal-load version.

Table 22 — Maximum tyre load ratings for 50 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
160/50 – 16 M/C	63	272
160/50 – 17 M/C	64	280
160/50 – 18 M/C	65	290
160/50 – 19 M/C	66	300
170/50 – 16 M/C	66	300
170/50 – 17 M/C	67	307
170/50 – 18 M/C	68	315
170/50 – 19 M/C	69	325
180/50 – 16 M/C	69	325
180/50 – 17 M/C	70	335
180/50 – 18 M/C	71	345
180/50 – 19 M/C	72	355
190/50 – 16 M/C	72	355
190/50 – 17 M/C	73	365
190/50 – 18 M/C	74	375
190/50 – 19 M/C	75	387
200/50 – 17 M/C	75	387
200/50 – 18 M/C	76	400
210/50 – 17 M/C	78	425
240/50 – 16 M/C	84	500

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

Table 23 — Maximum tyre load ratings for 40 series tyres

Tyre size designation [a]	Load index	Maximum load capacity [b] kg
240/40 – 18 M/C	79	437
250/40 – 18 M/C	81	462

[a] The full designation shall be as given in Clause 4.
[b] See Clause 8. Normal-load version.

Table 24 — Variation of maximum load capacities of tyres according to maximum speed of motorcycle
(see 7.2)

Maximum speed (km/h)	Maximum load variation (%) at various maximum speeds for tyres with speed symbol:					
	J	**K**	**L**	**M**	**N**	**P and above**
50	+ 30	+ 30	+ 30			
60	+ 23	+ 23	+ 23			
70	+ 16	+ 16	+ 16			
80	+ 10	+ 10	+ 10			+ 14
90	+ 5	+ 5	+ 7,5			+ 12
100	[0]	0	+ 5			+ 10
110	N/A	[0]	+ 2,5			+ 8
120	N/A	N/A	[0]	0	0	+ 6
130	N/A	N/A	N/A	[0]	0	+ 4
140	N/A	N/A	N/A	N/A	[0]	0

Square brackets identify the maximum speed for the speed symbol.
N/A Not applicable.

Annex A
(informative)

Harmonized load indices

The following load indices (Tables A.1 to A.8) are given for reference purposes and refer to standard load tyres. They conform to the load indices given in Tables 12 to 23.

The reference pressure is 225 kPa, except for 80 series and above tyres with rim diameter codes 12 and below for which the reference pressure is 250 kPa.

Table A.1 — Harmonized load indices — 50 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16M/C	17 M/C	18 M/C	19 M/C	21 M/C
160	63	64	65	66	68
170	66	67	68	69	71
180	69	70	71	72	74
190	72	73	74	75	77
200	74	75	76	77	79
210	77	78	79	80	82
220	79	80	81	82	84
230	81	82	84	85	87
240	84	85	86	87	89

Table A.2 — Harmonized load indices — 55 series tyres

Nominal section width S_N	Nominal rim diameter code				
	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
130	55	57	58	59	
140	59	60	61	62	
150	63	64	65	66	
160	65	67	68	69	71
170	69	70	71	72	74
180	71	73	74	75	77
190	74	75	76	77	79
200	77	78	79	80	82
210	79	80	82	83	85

Table A.3 — Harmonized load indices — 60 series tyres

Nominal section width S_N	Nominal rim diameter code								
	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
110		45	46	47	49	50	51	53	
120		49	51	52	53	55	56	57	
130	52	53	55	56	58	59	60	61	
140	56	57	59	60	61	63	64	65	
150	59	61	62	64	65	66	67	68	70
160	63	64	65	67	68	69	70	71	73
170	66	67	69	70	71	72	73	74	76
180	69	70	72	73	74	75	76	77	79
190				75	77	78	79	80	82
200				78	79	80	81	82	84
210				81	82	83	84	85	87
220				83	84	85	86	88	89
230				86	87	88	89	90	91

Table A.4 — Harmonized load indices — 65 series tyres

Nominal section width S_N	Nominal rim diameter code			
	16 M/C	17 M/C	18 M/C	19 M/C
100	45	47	48	49
110	50	52	53	54
120	55	56	57	58
130	59	60	61	63
140	63	64	65	66
150	66	67	69	70
160	69	70	72	73
170	73	74	75	76
180	75	76	77	78
190	78			

Table A.5 — Harmonized load indices — 70 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
80				33	34	36	37				
90				39	40	41	42				
100				43	45	46	47	49	50	51	53
110	40	43	47	48	50	51	52	54	55	56	58
120	44	48	51	53	55	56	57	58	59	60	62
130	48	52	56	57	59	60	61	62	63	64	66
140	53	56	60	61	62	64	65	66	67	68	70
150				64	66	67	68	69	70	71	73
160						70	71	73	74	75	76
170						73	75	76	77	78	79
180						76	77	78	79	80	82
190						79	80	81	82	83	85
200						82	83	84	85	86	88

Table A.6 — Harmonized load indices — 80 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
60	22	26	30								
70	30	35	38	29	30	32	33	35	36	37	
80	37	41	44	36	37	39	40	41	42	43	45
90	43	47	50	41	43	44	45	46	47	49	51
100	49	53	56	46	48	49	50	52	53	54	56
110	54	58	61	51	53	54	55	57	58	59	61
120	59	62	65	56	58	59	60	61	62	63	65
130	63	66	69		62	63	64	65	66	67	69
140					65	67	68	69	70	71	73
150					69	70	71	72	73	75	76
160					72	74	75	76	77	78	79
170					75	77	78	79	80	81	83
180					78	79	81	82	83	84	

Table A.7 — Harmonized load indices — 90 series tyres

Nominal section width S_N	Nominal rim diameter code										
	8"	10"	12"	13 M/C	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
60	25	30	34	24	26	27	29	30			
70	34	38	41	32	34	35	36	38	39	40	43
80	41	44	48	39	40	41	43	44	45	46	48
90	47	50	54	44	46	47	48	49	51	52	54
100	53	56	59	50	51	53	54	55	56	57	59
110	58	61	64		56	58	59	60	61	62	64
120	62	66	69			62	63	64	65	66	68
130	66	70	73			66	67	68	69	70	72
140						70	71	72	73	74	76
150						74	75	76	77	78	79

Table A.8 — Harmonized load indices — 100 series tyres

Nominal section width S_N	Nominal rim diameter code									
	8"	10"	12"	14 M/C	15 M/C	16 M/C	17 M/C	18 M/C	19 M/C	21 M/C
60				29	30	31	33			
70	36	40	43	37	38	39	40	41	42	44
80	43	46	50	43	44	45	46	47	49	51
90	49	53	56	49	50	51	53	54	55	57
100	55	59	62			57	58	59	60	62
110	60	64	67			62	63	64	65	67
120	65	68	71			66	67	68	69	71
130	69	73	75			70	71	72	73	75
140						74	75	76	77	79

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

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

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

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SRI LANKA STANDARDS INSTITUTION

The Sri Lanka Standards Institution (SLSI) is the National Standards Organization of Sri Lanka established under the Sri Lanka Standards Institution Act No. 6 of 1984 which repealed and replaced the Bureau of Ceylon Standards Act No. 38 of 1964. The Institution functions under the Ministry of Science & Technology.

The principal objects of the Institution as set out in the Act are to prepare standards and promote their adoption, to provide facilities for examination and testing of products, to operate a Certification Marks Scheme, to certify the quality of products meant for local consumption or exports and to promote standardization and quality control by educational, consultancy and research activity.

The Institution is financed by Government grants, and by the income from the sale of its publications and other services offered for Industry and Business Sector. Financial and administrative control is vested in a Council appointed in accordance with the provisions of the Act.

The development and formulation of National Standards is carried out by Technical Experts and representatives of other interest groups, assisted by the permanent officers of the Institution. These Technical Committees are appointed under the purview of the Sectoral Committees which in turn are appointed by the Council. The Sectoral Committees give the final Technical approval for the Draft National Standards prior to the approval by the Council of the SLSI.

All members of the Technical and Sectoral Committees render their services in an honorary capacity. In this process the Institution endeavours to ensure adequate representation of all view points.

In the International field the Institution represents Sri Lanka in the International Organization for Standardization (ISO), and participates in such fields of standardization as are of special interest to Sri Lanka.

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