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Passenger car tyres and rims —

Part 1: Tyres (metric series)

Pneumatiques et jantes pour voitures particulières —
Partie 1: Pneumatiques (série millimétrique)

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Foreword

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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 4000-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 3, *Passenger car tyres and rims*.

This tenth edition cancels and replaces the ninth edition (ISO 4000-1:2010), which has been technically revised.

ISO 4000 consists of the following parts, under the general title *Passenger car tyres and rims*:

— *Part 1: Tyres (metric series)*

— *Part 2: Rims*

Passenger car tyres and rims —

Part 1:
Tyres (metric series)

1 Scope

This part of ISO 4000 specifies the designation, dimensions and load ratings of metric-series tyres primarily intended for passenger cars.

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 3877-1, *Tyres, valves and tubes — List of equivalent terms — Part 1: Tyres*

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

ISO 16992, *Passenger car tyres — Spare unit substitutive equipment (SUSE)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 and ISO 3877-1[1)] and the following apply.

3.1
rim protector
feature incorporated into the lower sidewall area of the tyre, which is intended to protect the rim flange from damage

EXAMPLE A protruding circumferential rubber rib.

4 Designation

4.1 Size and construction

4.1.1 Characteristics

The tyre characteristics shall be designated as follows:

Nominal section width / Nominal aspect ratio Tyre construction code Nominal rim diameter code

4.1.2 Nominal section width

The nominal section width of the tyre shall be indicated in millimetres, and this part of the designation shall end in either the numeral of zero or five, so that in any single series of tyres with the same nominal aspect ratio, the values shall all end in 0 or they shall all end in 5.

1) ISO 3877-1 gives other terms used in this field, together with their equivalents in other languages.

For sizes mounted on 5° tapered (code-designated) rims, the nominal section width designation shall end in 5.

4.1.3 Nominal aspect ratio

The nominal aspect ratio (H/S) shall be expressed as a percentage and shall be a multiple of 5.

4.1.4 Tyre construction code

The tyre construction code shall be as follows:

— B for bias-belted construction;

— D for diagonal construction;

— R for radial-ply construction.

In the case of tyres designed for vehicles having a maximum speed capability exceeding 240 km/h, the code-letters ZR may be indicated with the dimensional and constructional characteristics for radial-ply tyres instead of the tyre construction code R (see 4.2).

The code-letters ZR shall be used in the dimensional and constructional characteristics associated with the speed symbol Y and the load index, both placed within parentheses, to identify performance up to 300 km/h for tyres suitable for speeds exceeding 300 km/h.

EXAMPLE **235/45 ZR 17 (97Y)**.

For maximum speed capability and load capacity of the tyre over 300 km/h, consult the manufacturer.

Use of any other code-letter (for example in the case of a new construction type) should first be submitted to ISO for acceptance.

4.1.5 Nominal rim diameter code

For tyres mounted on 5° tapered (code-designated) rims, the code shall be as given in Table 1.

Table 1 — Nominal rim diameter code

Nominal rim diameter code	Nominal rim diameter D_r mm
10	254
12	305
13	330
14	356
15	381
16	406
17	432
18	457
19	483
20	508
21	533
22	559
23	584
24	610
25	635
26	660
28	711
30	762

In the case of tyres requiring new-concept rims, for safety reasons, especially concerning mounting, the code-number shall be equal to the nominal rim diameter (D_r) expressed as a whole number in millimetres.

4.2 Service description

4.2.1 General

The service description shall be as follows:

Load index Speed symbol

In the special case of tyres designed for vehicles having a maximum speed capability exceeding 300 km/h, the service description need not be indicated. However, the tyre manufacturer shall be consulted as to the maximum speed capability and load capacity of such tyres.

4.2.2 Load index

The maximum tyre load-carrying capacity corresponding to the service conditions specified by the tyre manufacturer shall be indicated by a load index taken from Table 2, per tyre for a single mounting.

4.2.3 Speed categories

A speed category is assigned to a tyre according to the maximum speed for which its use is rated. The speed for each category shall be indicated by a letter-symbol, in accordance with Table 3.

4.3 Other service characteristics

4.3.1 The word “TUBELESS” shall appear on tyres without tubes.

4.3.2 The words “REINFORCED” or “EXTRA LOAD” shall appear on tyres designed for loads and inflation pressures higher than the standard version.

4.3.3 The letters “LL”, close to the tyre size designation, or the words “LIGHT LOAD” shall appear on the sidewalls of tyres designed for loads lower than the standard version.

4.3.4 The letter “T”, immediately preceding the tyre size designation, shall be used to characterize high-pressure, special, temporary-use spare tyres.

4.3.5 Specific indications, if required, may be added to indicate:

— the type of vehicle for which the tyre is primarily designed, using the symbol “P” for passenger cars (see 4.3.6);

— temporary use of certain spare tyres, using indications such as “TEMPORARY USE ONLY”;

— bias-belted construction, with the words “BIAS-BELTED”;

— radial-ply construction, with the word “RADIAL”;

— the direction of mounting;

— the direction of rotation;

— the type of tread pattern;

— other characteristics.

4.3.6 The optional marking “P” may be used where there could be ambiguity regarding the tyre type. It should be positioned such that confusion cannot result from its proximity to any other service condition marking.

4.3.7 The optional marking “F” shall be added after the construction code to identify self-supporting-type run-flat tyres that meet the requirements of ISO 16992.

EXAMPLE **235/45 RF 17**

Table 2 — Correlation between load index (LI) and tyre load-carrying capacity (TLCC)

LI	TLCC kg	LI	TLCC kg	LI	TLCC kg	LI	TLCC kg
50	190	70	335	90	600	110	1 060
51	195	71	345	91	615	111	1 090
52	200	72	355	92	630	112	1 120
53	206	73	365	93	650	113	1 150
54	212	74	375	94	670	114	1 180
55	218	75	387	95	690	115	1 215
56	224	76	400	96	710	116	1 250
57	230	77	412	97	730	117[a]	1 285
58	236	78	425	98	750	118[a]	1 320
59	243	79	437	99	775	119[a]	1 360
60	250	80	450	100	800	120[a]	1 400
61	257	81	462	101	825	—	—
62	265	82	475	102	850	—	—
63	272	83	487	103	875	—	—
64	280	84	500	104	900	—	—
65	290	85	515	105	925	—	—
66	300	86	530	106	950	—	—
67	307	87	545	107	975	—	—
68	315	88	560	108	1 000	—	—
69	325	89	580	109	1 030	—	—

[a] ISO tyre loads have a 116 load index maximum; some existing tyres may have a higher load index number.

The maximum tyre load capacity corresponding to the load index shall apply for speeds up to and including 210 km/h.

For tyres in the speed category V (between 210 km/h and 240 km/h), the maximum load capacity per tyre shall be reduced to 100 % at 210 km/h, 97 % at 220 km/h, 94 % at 230 km/h and 91 % at 240 km/h; linear interpolation is permitted.

In the case of speed categories W and Y, the maximum load capacity per tyre corresponding to the load index shall apply for speeds up to and including 240 km/h for W and 270 km/h for Y.

For tyres in the speed category W (between 240 km/h and 270 km/h), the maximum load capacity per tyre shall be reduced to 100 % at 240 km/h, 95 % at 250 km/h, 90 % at 260 km/h and 85 % at 270 km/h; linear interpolation is permitted.

For tyres in the speed category Y (between 270 km/h and 300 km/h), the maximum load capacity per tyre shall be reduced to 100 % at 270 km/h, 95 % at 280 km/h, 90 % at 290 km/h and 85 % at 300 km/h; linear interpolation is permitted.

See 4.2.3 and Table 3 for speed categories and their symbols.

For speeds of over 300 km/h or ZR-marked tyres or both, consult the tyre manufacturer for the maximum tyre load capacity permitted in relation to the maximum speed allowed for the tyre.

For vehicles with a design maximum speed capability of up to 60 km/h, the maximum load capacity corresponding to the load index may be exceeded, as shown below. However, an increase in the reference inflation pressure is necessary and should be determined in consultation with the tyre manufacturer. In the absence of such agreement, the following pressure increases are recommended:

— for 60 km/h, a 10 % load increase with a 10 kPa inflation pressure increase;

— for 50 km/h, a 15 % load increase with a 20 kPa inflation pressure increase;

— for 40 km/h, a 25 % load increase with a 30 kPa inflation pressure increase;

— for 30 km/h, a 35 % load increase with a 40 kPa inflation pressure increase;

— for 25 km/h, a 42 % load increase with a 50 kPa inflation pressure increase.

Table 3 — Speed symbols

Symbol	Category km/h
J	100
K	110
L	120
M	130
N	140
P	150
Q	160
R	170
S	180
T	190
U	200
H	210
V	240
W	270
Y[a]	300

NOTE This list is not exhaustive, and other categories and symbols might be added later.

[a] Radial-ply tyres designed for speeds exceeding 300 km/h shall be identified by the code-letters ZR with the dimensional and constructional characteristics in place of the tyre construction code. Consult the tyre manufacturer for the maximum speed capability.

5 Marking

The marking shall include designations of:

a) size and construction;

b) service condition characteristics (see 4.1.4 and 4.2 for special cases);

c) any other service characteristics (see 4.3).

The location of the marking of the load and speed characteristics shall be distinct, but near the marking of the size and construction.

No location is specified for the markings related to other service characteristics.

EXAMPLE A tubeless tyre having a nominal section width of 165 mm, a nominal aspect ratio of 80, a radial-ply construction and a nominal rim diameter code of 15, whose service description consists of a load index (LI) of 87 corresponding to a tyre load-carrying capacity of 545 kg, and which falls into the speed symbol H (210 km/h), is marked:

165/80 R 15 87 H

TUBELESS

NOTE See Annex D for other existing size markings.

6 Tyre dimensions

6.1 Rounding values

Except in the cases given in 6.2.1 and 6.2.2, round the formula-derived values for tyre dimensions to the nearest millimetre (see ISO 80000-1).

6.2 Calculation of design tyre dimensions

6.2.1 Theoretical rim width, R_{th}

$$R_{th} = K_1 \times S_N$$

where

K_1 is the rim/section width ratio;

S_N is the nominal section width.

For tyres mounted on 5° rims (code-designated) with nominal rim diameter expressed by a two-figure code:

— K_1 = 0,7 where the tyres have a nominal aspect ratio of 50 to 95;

— K_1 = 0,85 where this ratio is 20 to 45.

NOTE K_1 values for other tyre and rim types will be defined in a future revision.

6.2.2 Measuring rim width code, R_{mc}

$$R_{mc} = \frac{K_2 \times S_N}{25,4}$$

rounded to the nearest 0,5 rim width code, where K_2 is the rim/section width ratio coefficient.

For tyres mounted on 5° drop-centre rims with a nominal diameter expressed by a two-figure code:

— K_2 = 0,7 for nominal aspect ratios of 95 to 75;

— K_2 = 0,75 for nominal aspect ratios of 70 to 60;

— K_2 = 0,8 for nominal aspect ratios of 55 and 50;

— K_2 = 0,85 for a nominal aspect ratio of 45;

— K_2 = 0,9 for nominal aspect ratios of 40 to 30;

— K_2 = 0,92 for nominal aspect ratios of 20 and 25.

NOTE Other values of K_2 for other tyre and rim types will be defined in a future revision.

6.2.3 Design tyre section width, S

The design tyre section width, S, is the nominal section width, S_N, transferred from the theoretical rim width, R_{th}, to the measuring rim width code, R_{mc}, so that:

$$S = S_N + 0,4\left(25,4R_{mc} - R_{th}\right)$$

with R_{th} expressed in millimetres.

EXAMPLE **265/40 R17**

K_1 = 0,85 (see 6.2.1) and K_2 = 0,9 (see 6.2.2)

$R_{th} = K_1 \times S_N = 265 \times 0,85 = 225,25$ mm

$R_{mc} = K_2 \times S_N/25,4 = 0,9 \times 265/25,4 = 9,39$, rounded to 9,5

$25,4 \times R_{mc} = 25,4 \times 9,5 = 241,3$ mm

$S = S_N + 0,4\ (25,4\ R_{mc} - R_{th}) = 265 + 0,4\ (241,3 - 225,25) = 271,42$, rounded to 271 mm.

6.2.4 Design tyre section height, H

The design tyre section height, H, is calculated by the following equation:

$$H = S_N \frac{H/S}{100}$$

6.2.5 Design tyre overall diameter, D_o

The design tyre overall diameter, D_o, is calculated by the following equation:

$$D_o = D_r + 2H$$

For those tyres having a nominal rim diameter code, use the corresponding value of D_r given in Table 1.

6.2.6 Guidelines

See Annex A for general guidelines on the tyre design dimensions for the metric series of passenger car tyres mounted on 5° rims (code-designated).

6.3 Calculation of maximum overall (grown) tyre dimensions in service tyres mounted on their measuring rims

6.3.1 General

The calculation of maximum overall (grown) tyre dimensions in service for tyres mounted on their measuring rims is for use by vehicle manufacturers in designing for tyre clearance.

Calculate these dimensions with the coefficient appropriate to the design tyre section width and design tyre section height (see Table 4).

Table 4 — Coefficients for calculation of tyre dimensions

Dimensions in millimetres

Structure	Construction code	Nominal aspect ratio H/S	Coefficient			
			a[a]	b	c	d
Diagonal	D	All	1,1	1,08	—	—
Bias-belted	B				—	—
Radial-ply	R	≤65	1,04	1,04	0,96	0,97
		70	1,04			
		≥75	1,06			

a The maximum overall section width includes elevations due to labelling, decorations, protection ribs or bands and excludes rim protectors.

6.3.2 Maximum overall (grown) width in service, W_{max}

The maximum overall (grown) width in service, W_{max}, is equal to the greater of the following values:

— the product of the design tyre section width, S, and the appropriate coefficient, a (see Table 4):

$$W_{max} = Sa$$

— the addition of 8 mm to the design tyre section width, S:

$$W_{max} = S + 8$$

6.3.3 Maximum overall (grown) diameter in service, $D_{o\,max}$

$$D_{o\,max} = D_r + 2Hb$$

See Table 4 for the value of coefficient b.

6.4 Calculation of minimum tyre dimensions for radial-ply tyres mounted on their measuring rims

6.4.1 Minimum tyre section width, S_{min}

$$S_{min} = Sc$$

See Table 4 for the value of coefficient c.

6.4.2 Minimum tyre overall diameter, $D_{o\,min}$

$$D_{o\,min} = D_r + 2Hd$$

See Table 4 for the value of coefficient d.

6.5 Range of approved rims

The range of approved rim width codes for the nominal aspect ratio of 35 and above is calculated as the product of the nominal section width, S_N, and the coefficients shown in Table 5, divided by 25,4. Round the values obtained to the nearest 0,5 rim width code. For tyre sizes with a nominal aspect ratio of 30 and below, the range of approved rim width codes is the measuring rim width code ± 0,5.

The maximum overall (grown) width in service, W_{max}, and the minimum tyre section width, S_{min}, will change by 40 % of the change in rim width code multiplied by 25,4, rounded to the nearest millimetre.

Table 5 — Approved rim width codes for passenger car tyres as a function of nominal aspect ratio

Dimensions in millimetres

Nominal aspect ratio H/S	Coefficients for calculation of approved rim width	
	min.	max.
$70 \leq H/S \leq 95$	0,65	0,85
$50 \leq H/S \leq 65$	0,7	0,9
$H/S = 45$	0,8	0,95
$35 \leq H/S \leq 40$	0,85	1
$H/S \leq 30$	Measuring rim width code − 0,5	Measuring rim width code + 0,5

7 Tyre dimension measurement procedure

The tyre dimension measurement procedure shall be as described below.

a) Prior to measurement, mount the tyre on an approved rim, inflated to the recommended pressure given in Table 6, and allow it to stand for a minimum of 24 h at normal room temperature.

b) Readjust the inflation pressure to the original value.

c) Calliper the section width and the overall width of the tyre at six points approximately equally spaced around the tyre circumference. Record the average of these measurements as section width and overall width.

d) Determine the tyre overall diameter by measuring its maximum circumference and dividing this by π (where π = 3,141 6).

Table 6 — Recommended pressures for measurement of tyre dimensions

Tyre	Pressure kPa
Standard load and P-type light load (LL) version	180
Extra load/reinforced version	220
T-type temporary-use spare tyre	420

8 Inflation pressures

Operating cold inflation pressures should be agreed between tyre and vehicle manufacturers, taking into account not only tyre load-carrying capacity (see Annex C), but also operating conditions such as maximum speed, camber angle and the position of the tyre on the vehicle, as well as service conditions and the construction and characteristics of the vehicle.

Unless otherwise specified by the tyre manufacturer, it is recommended that the cold inflation pressure of radial-ply tyres be limited in normal application to 350 kPa for all standard load version sizes on code-designated rims, irrespective of the speed symbol (see Table 3).

For normal road applications, the specified inflation pressure may not be less than

— 140 kPa for vehicle operating speeds ≤ 160 km/h, and

— 180 kPa for vehicle operating speeds > 160 km/h.

For special applications, consult the tyre manufacturer.

NOTE Cold inflation pressure is the pressure of the tyre at ambient temperature, and does not include pressure build-up due to tyre usage.

9 Load capacities

Load capacities for passenger car tyres are given in Annex B.

NOTE For sizes not included in Annex B, consult the national standardization organization.

See Annex C for the tyre load-carrying capacity at various inflation pressures.

10 Choice of tyre sizes

In selecting tyres for a vehicle, the vehicle maximum load on the tyre shall not be greater than the applicable maximum load-carrying capacity of the tyre. Vehicle maximum load on the tyre is the load on an individual tyre that is determined by distributing to each axle its share of the maximum loaded vehicle mass and dividing by the number of tyres on the axle.

The vehicle normal load on the tyre shall not be greater than 88 % of the maximum load-carrying capacity of the tyre. Vehicle normal load on the tyre is the load on an individual tyre that is determined by distributing (in accordance with Table 7) to each axle its share of the curb mass, accessory mass and normal occupant mass and dividing by the number of tyres on the axle. These and other relevant masses are defined below.

In specific local regulations, the vehicle normal load on the tyre shall not be greater than 94 % of the load rating at the vehicle manufacturer's recommended cold inflation pressure for the tyre.

The vehicle manufacturer may specify an inflation pressure less than that corresponding to the maximum tyre load. In this case, the load on the tyre (at the corresponding vehicle loading condition) shall not exceed the tyre load capacity at the specified inflation pressure.

Maximum loaded vehicle mass is the sum of:

a) curb mass;

b) accessory mass;

c) vehicle capacity mass; and

d) production option mass.

Curb mass is the mass of a motor vehicle with standard equipment, including the maximum capacity of fuel, oil and coolant, and, if so equipped, of air conditioning and the additional mass of an optional engine.

Accessory mass is the combined mass (in excess of those standard items that may be replaced) of automatic transmission, power steering, power brakes, power windows, power seats, radio and heater, to the extent that these items are available as factory-installed equipment (whether installed or not).

Normal occupant mass is equivalent to 68 kg multiplied by the number of occupants, as specified in Table 7. When local regulation includes a luggage mass, a mass of 7 kg per occupant, located in the luggage compartment, shall be used. Occupant distribution is the distribution of occupants in a vehicle as specified in Table 7.

Table 7 — Occupant loading and distribution for vehicle normal load for various designated seating capacities

Designated seating capacity, number of occupants	Vehicle normal load, number of occupants	Occupant distribution in a normally loaded vehicle
2 to 4	2	2 in front
5 and above	3	2 in front, 1 in second seat

Vehicle capacity mass is the rated cargo and luggage load plus 68 kg multiplied by the vehicle designated seating capacity.

Production option mass is the combined mass of those installed regular production options, weighing over 2,3 kg in excess of those standard items they replace, not previously considered in curb mass or accessory mass, and including heavy-duty brakes, ride levellers, roof rack, heavy-duty battery and special trim.

11 Camber angle

Vehicle camber angles, especially under severe driving conditions, have an influence on tyre performance. For low aspect ratio tyres, increasing the camber angle above 2° makes constraints on the tyre performance, e.g. mileage, uneven wear and other criteria. Consult the tyre manufacturer for more information.

Generally, it is recommended that the camber angles of vehicles should not be greater than 4, including any tolerance.

On vehicles with speeds in excess of 270 km/h, it is recommended that the camber angle should not be greater than 3°, including any tolerance.

Vehicle camber angles on a passenger car should not exceed the values for the different aspect ratios given in Table 8.

Table 8 — Maximum camber angle for different aspect ratios

Aspect ratio	Maximum camber angle	
	up to 270 km/h	above 270 km/h
80 to 50	4°	3°
45 to 30	4°	3°
25 to 20	2°	2°

The only way to compensate for camber angle is to increase the inflation pressure by multiplying it with the camber factor, as shown in Table 9. This shall be applied to tyres for all speeds.

The maximum inflation pressure of 350 kPa shall be observed. For a given size, if the calculated pressure exceeds the maximum, then this size is not suitable for this application.

For camber angle, γ, between 2° and 4°, the camber factor, K_S, is calculated as follows:

— for aspect ratio 50 and above:

$$K_S = 1/(1{,}1 - 0{,}05 \times \gamma)^{1{,}25}$$

— for aspect ratio, H/S, 45 to 30:

$$K_S = 1/[1 - (0{,}262\,5 - 0{,}003\,25 \times H/S) \times (\gamma / 2 - 1)]^{1{,}25}$$

See Table 9.

Table 9 — Compensation of camber angle, γ, by camber factor

Camber γ	Camber factor K_S				
	Aspect ratio 50 and above	Aspect ratio 45	Aspect ratio 40	Aspect ratio 35	Aspect ratio 30
2°	1	1	1	1	1
2° 15′	1,015 8	1,018 5	1,021 1	1,023 7	1,026 4
2° 30′	1,032 2	1,037 6	1,043 0	1,048 5	1,054 1
2° 45′	1,048 9	1,057 3	1,065 8	1,074 4	1,083 1
3°	1,066 2	1,077 7	1,089 5	1,101 4	1,113 6
3° 15′	1,084 0	1,098 9	1,114 1	1,129 7	1,145 7
3° 30′	1,102 4	1,120 8	1,139 8	1,159 4	1,179 5
3° 45′	1,121 3	1,143 5	1,166 5	1,190 4	1,215 2
4°	1,140 8	1,167 0	1,194 4	1,223 0	1,252 8

For the inflation pressure of sizes with aspect ratios of 25 and 20, consult the tyre manufacturer.

Annex A
(normative)

Guideline values for metric-series tyres

Guidelines for design dimensions for metric-series tyres mounted on 5 rims (code-designated), with a nominal rim diameter expressed by a two-figure code, are given in Tables A.1 to A.9 as a function of the nominal aspect ratio.

Table A.1 — Nominal aspect ratio (H/S) of 95 to 75 (K_1 = 0,7; K_2 = 0,7)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions						Approved rim width codes	
		mm							
		Section width S	Section height, H, at H/S (%) of						
mm			95	90	85	80	75	min.	max.
95	2,5	94	90	86	81	76	71	2,5	3,0
105	3,0	106	100	95	89	84	79	2,5	3,5
115	3,0	113	109	104	98	92	86	3,0	4,0
125	3,5	126	119	113	106	100	94	3,0	4,0
135	3,5	133	128	122	115	108	101	3,5	4,5
145	4,0	145	138	131	123	116	109	3,5	5,0
155	4,5	157	147	140	132	124	116	4,0	5,0
165	4,5	165	157	149	140	132	124	4,0	5,5
175	5,0	177	166	158	149	140	131	4,5	6,0
185	5,0	184	176	167	157	148	139	4,5	6,0
195	5,5	196	185	176	166	156	146	5,0	6,5
205	5,5	203	195	185	174	164	154	5,0	7,0
215	6,0	216	204	194	183	172	161	5,5	7,0
225	6,0	223	—	203	191	180	169	6,0	7,5
235	6,5	235	—	—	200	188	176	6,0	8,0
245	7,0	248	—	—	208	196	184	6,5	8,0
255	7,0	255	—	—	—	204	191	6,5	8,5
265	7,5	267	—	—	—	—	199	7,0	9,0
275	7,5	274	—	—	—	—	206	7,0	9,0
285	8,0	286	—	—	—	—	214	7,5	9,5
295	8,0	294	—	—	—	—	221	7,5	10,0
305	8,5	306	—	—	—	—	229	8,0	10,0
315	8,5	313	—	—	—	—	236	8,0	10,5
Rims outside the approved range in use from previous designs are not approved for new designs.									

Table A.2 — Nominal aspect ratio (H/S) of 70 (K_1 = 0,7; K_2 = 0,75)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions		Approved rim width codes	
		Section width S	Section height H		
mm		mm		min.	max.
95	3,0	99	67	2,5	3,0
105	3,0	106	74	2,5	3,5
115	3,5	118	81	3,0	4,0
125	3,5	126	88	3,0	4,0
135	4,0	138	95	3,5	4,5
145	4,5	150	102	3,5	5,0
155	4,5	157	109	4,0	5,0
165	5,0	170	116	4,0	5,5
175	5,0	177	123	4,5	6,0
185	5,5	189	130	4,5	6,0
195	6,0	201	137	5,0	6,5
205	6,0	209	144	5,0	7,0
215	6,5	221	151	5,5	7,0
225	6,5	228	158	6,0	7,5
235	7,0	240	165	6,0	8,0
245	7,0	248	172	6,5	8,0
255	7,5	260	179	6,5	8,5
265	8,0	272	186	7,0	9,0
275	8,0	279	193	7,0	9,0
285	8,5	292	200	7,5	9,5
295	8,5	299	207	7,5	10,0
305	9,0	311	214	8,0	10,0
Rims outside the approved range in use from previous designs are not approved for new designs.					

Table A.3 — Nominal aspect ratio (H/S) of 65 and 60 (K_1 = 0,7; K_2 = 0,75)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions			Approved rim width codes	
		Section width S	Section height, H, at H/S (%) of			
			65	60		
mm		mm			min.	max.
105	3,0	106	68	—	3,0	3,5
115	3,5	118	75	69	3,0	4,0
125	3,5	126	81	75	3,5	4,5
135	4,0	138	88	81	3,5	5,0
145	4,5	150	94	87	4,0	5,0
155	4,5	157	101	93	4,5	5,5
165	5,0	170	107	99	4,5	6,0
175	5,0	177	114	105	5,0	6,0
185	5,5	189	120	111	5,0	6,5
195	6,0	201	127	117	5,5	7,0
205	6,0	209	133	123	5,5	7,5
215	6,5	221	140	129	6,0	7,5
225	6,5	228	146	135	6,0	8,0
235	7,0	240	153	141	6,5	8,5
245	7,0	248	159	147	7,0	8,5
255	7,5	260	166	153	7,0	9,0
265	8,0	272	172	159	7,5	9,5
275	8,0	279	179	165	7,5	9,5
285	8,5	292	185	171	8,0	10,0
295	8,5	299	192	177	8,0	10,5
305	9,0	311	198	183	8,5	11,0
315	9,5	323	205	189	8,5	11,0
325	9,5	331	—	195	9,0	11,5
335	10,0	343	—	201	9,0	12,0
345	10,0	350	—	207	9,5	12,0
Rims outside the approved range in use from previous designs are not approved for new designs.						

Table A.4 — Nominal aspect ratio (H/S) of 55 and 50 (K_1 = 0,7; K_2 = 0,8)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions			Approved rim width codes	
		Section width S	Section height, H, at H/S (%) of			
			55	50		
mm		mm			min.	max.
125	4,0	131	69	63	3,5	4,5
135	4,5	143	74	68	3,5	5,0
145	4,5	150	80	73	4,0	5,0
155	5,0	162	85	78	4,5	5,5
165	5,0	170	91	83	4,5	6,0
175	5,5	182	96	88	5,0	6,0
185	6,0	194	102	93	5,0	6,5
195	6,0	201	107	98	5,5	7,0
205	6,5	214	113	103	5,5	7,5
215	7,0	226	118	108	6,0	7,5
225	7,0	233	124	113	6,0	8,0
235	7,5	245	129	118	6,5	8,5
245	7,5	253	135	123	7,0	8,5
255	8,0	265	140	128	7,0	9,0
265	8,5	277	146	133	7,5	9,5
275	8,5	284	151	138	7,5	9,5
285	9,0	297	157	143	8,0	10,0
295	9,5	309	162	148	8,0	10,5
305	9,5	316	168	153	8,5	11,0
315	10,0	328	173	158	8,5	11,0
325	10,0	336	179	163	9,0	11,5
335	10,5	348	184	168	9,0	12,0
345	11,0	360	190	173	9,5	12,0
Rims outside the approved range in use from previous designs are not approved for new designs.						

Table A.5 — Nominal aspect ratio (H/S) of 45 (K_1 = 0,85; K_2 = 0,85)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions		Approved rim width codes	
		Section width S	Section height H		
mm		mm		min.	max.
155	5,0	153	70	5,0	6,0
165	5,5	165	74	5,0	6,0
175	6,0	176	79	5,5	6,5
185	6,0	183	83	6,0	7,0
195	6,5	195	88	6,0	7,5
205	7,0	206	92	6,5	7,5
215	7,0	213	97	7,0	8,0
225	7,5	225	101	7,0	8,5
235	8,0	236	106	7,5	9,0
245	8,0	243	110	7,5	9,0
255	8,5	255	115	8,0	9,5
265	9,0	266	119	8,5	10,0
275	9,0	273	124	8,5	10,5
285	9,5	285	128	9,0	10,5
295	10,0	296	133	9,5	11,0
305	10,0	303	137	9,5	11,5
315	10,5	315	142	10,0	12,0
325	11,0	326	146	10,0	12,0
335	11,0	333	151	10,5	12,5
345	11,5	345	155	11,0	13,0
355	12,0	356	160	11,0	13,5
365	12,0	363	164	11,5	13,5
Rims outside the approved range in use from previous designs are not approved for new designs.					

Table A.6 — Nominal aspect ratio (H/S) of 40 and 35 (K_1 = 0,85; K_2 = 0,9)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions			Approved rim width codes	
		Section width S	Section height, H, at H/S (%) of			
			40	35		
mm		mm			min.	max.
165	6,0	170	66	—	5,5	6,5
175	6,0	176	70	—	6,0	7,0
185	6,5	188	74	65	6,0	7,5
195	7,0	200	78	68	6,5	7,5
205	7,5	212	82	72	7,0	8,0
215	7,5	218	86	75	7,0	8,5
225	8,0	230	90	79	7,5	9,0
235	8,5	241	94	82	8,0	9,5
245	8,5	248	98	86	8,0	9,5
255	9,0	260	102	89	8,5	10,0
265	9,5	271	106	93	9,0	10,5
275	9,5	278	110	96	9,0	11,0
285	10,0	290	114	100	9,5	11,0
295	10,5	301	118	103	10,0	11,5
305	11,0	313	122	107	10,0	12,0
315	11,0	320	126	110	10,5	12,5
325	11,5	331	130	114	11,0	13,0
335	12,0	343	134	117	11,0	13,0
345	12,0	350	138	121	11,5	13,5
355	12,5	361	142	124	12,0	14,0
365	13,0	373	146	128	12,0	14,5
375	13,5	385	—	131	12,5	15,0
385	13,5	391	—	135	13,0	15,0
395	14,0	403	—	138	13,0	15,5
405	14,5	415	—	142	13,5	16,0
Rims outside the approved range in use from previous designs are not approved for new designs.						

Table A.7 — Nominal aspect ratio (H/S) of 30 (K_1 = 0,85; K_2 = 0,9)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions		Approved rim width codes	
		Section width S	Section height H		
mm		mm		min.	max.
185	6,5	188	56	6,0	7,0
195	7,0	200	59	6,5	7,5
205	7,5	212	62	7,0	8,0
215	7,5	218	65	7,0	8,0
225	8,0	230	68	7,5	8,5
235	8,5	241	71	8,0	9,0
245	8,5	248	74	8,0	9,0
255	9,0	260	77	8,5	9,5
265	9,5	271	80	9,0	10,0
275	9,5	278	83	9,0	10,0
285	10,0	290	86	9,5	10,5
295	10,5	301	89	10,0	11,0
305	11,0	313	92	10,5	11,5
315	11,0	320	95	10,5	11,5
325	11,5	331	98	11,0	12,0
335	12,0	343	101	11,5	12,5
345	12,0	350	104	11,5	12,5
355	12,5	361	107	12,0	13,0
365	13,0	373	110	12,5	13,5
375	13,5	385	113	13,0	14,0
385	13,5	391	116	13,0	14,0
395	14,0	403	119	13,5	14,5
405	14,5	415	122	14,0	15,0
415	14,5	421	125	14,0	15,0
Rims outside the approved range in use from previous designs are not approved for new designs.					

Table A.8 — Nominal aspect ratio (H/S) of 25 (K_1 = 0,85; K_2 = 0,92)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions		Approved rim width codes	
		Section width S	Section height H		
mm		mm		min.	max.
305	11,0	313	76	10,5	11,5
315	11,5	325	79	11,0	12,0
325	12,0	336	81	11,5	12,5
335	12,0	343	84	11,5	12,5
345	12,5	355	86	12,0	13,0
355	13,0	366	89	12,5	13,5
365	13,0	373	91	12,5	13,5
375	13,5	385	94	13,0	14,0
385	14,0	396	96	13,5	14,5
395	14,5	408	99	14,0	15,0
405	14,5	415	101	14,0	15,0
415	15,0	426	104	14,5	15,5
425	15,5	438	106	15,0	16,0
435	16,0	450	109	15,5	16,5
445	16,0	456	111	15,5	16,5
455	16,5	468	114	16,0	17,0
465	17,0	480	116	16,5	17,5
Rims outside the approved range in use from previous designs are not approved for new designs.					

Table A.9 — Nominal aspect ratio (H/S) of 20 (K_1 = 0,85; K_2 = 0,92)

Nominal section width S_N	Measuring rim width code R_{mc}	Design tyre dimensions		Approved rim width codes	
		Section width S	Section height H		
mm		mm		min.	max.
385	14,0	396	77	13,5	14,5
395	14,5	408	79	14,0	15,0
405	14,5	415	81	14,0	15,0
415	15,0	426	83	14,5	15,5
425	15,5	438	85	15,0	16,0
435	16,0	450	87	15,5	16,5
445	16,0	456	89	15,5	16,5
455	16,5	468	91	16,0	17,0
465	17,0	480	93	16,5	17,5
475	17,0	486	95	16,5	17,5
485	17,5	498	97	17,0	18,0
495	18,0	510	99	17,5	18,5
505	18,5	521	101	18,0	19,0
515	18,5	528	103	18,0	19,0
525	19,0	540	105	18,5	19,5
Rims outside the approved range in use from previous designs are not approved for new designs.					

Annex B
(normative)

Load indices for passenger car tyres

Table B.1 gives tyre load indices, grouped by nominal rim diameter and nominal aspect ratio, based on a reference pressure of 250 kPa for the standard-load version, and 290 kPa for the reinforced or extra-load version.

Table B.2 gives the load indices for T-type temporary spare tyres, for light load (LL) and standard load (SL) version, with a reference pressure of 420 kPa.

Table B.3 gives the load indices for P-type light load (LL) tyres with a reference pressure of 250 kPa.

Table B.1 — Load indices

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
80 SERIES																														
125	64	68	65	69	67	71	69	73	70	74	71	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
135	c	c	c	c	72	76	73	77	75	79	76	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
145	c	c	c	c	76	80	77	81	79	83	80	84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
155	c	c	c	c	c	c	c	c	83	87	84	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
165	81	85	c	c	c	c	c	c	c	c	88	92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
175	85	89	c	c	c	c	c	c	c	c	92	96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	89	93	c	c	c	c	93	97	94	98	95	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
195	92	96	93	97	c	c	c	c	c	c	99	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
205	95	99	97	101	c	c	99	103	c	c	102	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
215	98	102	100	104	100	104	c	c	c	c	105	108	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
225	100	104	101	105	103	106	c	c	106	110	108	111	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
235	102	106	104	107	106	109	107	111	c	c	110	114	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
245	105	108	107	110	108	112	110	113	111	115	113	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
255	108	111	109	113	111	114	112	116	114	116	115	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
265	110	114	112	115	113	116	115	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
275	113	116	114	116	116	116	c	c	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
285	115	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
75 SERIES																														
125	63	67	64	68	66	70	68	72	69	73	70	74	72	76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
135	67	71	69	73	71	75	72	76	73	77	75	79	76	80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
145	72	76	74	78	75	79	76	80	78	82	79	83	80	84	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
155	76	80	77	81	79	83	80	84	82	86	83	87	85	89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
165	80	84	81	85	83	87	85	89	86	90	87	91	89	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
175	84	88	85	89	c	c	88	92	89	93	91	95	92	96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	87	91	89	93	c	c	92	96	93	97	94	98	95	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
195	90	94	92	96	c	c	c	c	96	100	97	101	99	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
205	94	98	95	99	c	c	c	c	99	103	100	104	101	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
215	97	101	98	102	c	c	c	c	c	c	102	106	104	107	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
225	99	103	100	104	c	c	c	c	c	c	105	109	107	110	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
235	100	104	102	105	103	107	c	c	c	c	c	c	109	113	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
245	102	106	104	108	106	109	c	c	c	c	c	c	112	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
255	105	109	107	110	108	112	c	c	111	115	c	c	114	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
265	108	111	109	113	111	114	c	c	c	c	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
275	110	114	112	115	113	116	115	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
285	112	116	114	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
295	115	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
70 SERIES																														
125	61	65	62	66	64	68	65	69	67	71	68	72	69	73	71	75	—	—	—	—	—	—	—	—	—	—	—	—	—	—
135	65	69	c	c	69	73	70	74	71	75	73	77	74	78	75	79	—	—	—	—	—	—	—	—	—	—	—	—	—	—
145	c	c	c	c	73	77	c	c	76	80	77	81	78	82	79	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—
155	c	c	c	c	77	81	78	82	80	84	81	85	82	86	84	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—
165	c	c	c	c	c	c	82	86	84	88	85	89	86	90	88	92	—	—	—	—	—	—	—	—	—	—	—	—	—	—
175	c	c	c	c	c	c	c	c	87	91	89	93	90	94	91	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	85	89	c	c	c	c	c	c	91	95	c	c	93	97	94	98	—	—	—	—	—	—	—	—	—	—	—	—	—	—
195	88	92	c	c	c	c	c	c	94	98	95	99	96	100	98	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—
205	91	95	c	c	c	c	c	c	c	c	98	102	99	103	100	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—
215	94	98	96	100	c	c	c	c	c	c	c	c	102	105	103	106	—	—	—	—	—	—	—	—	—	—	—	—	—	—
225	97	101	99	103	c	c	c	c	c	c	c	c	104	108	106	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—
235	99	103	100	104	101	104	c	c	c	c	c	c	107	110	108	112	—	—	—	—	—	—	—	—	—	—	—	—	—	—
245	100	104	102	105	c	c	c	c	c	c	c	c	110	113	111	114	—	—	—	—	—	—	—	—	—	—	—	—	—	—
255	102	106	104	108	106	109	c	c	c	c	c	c	c	c	113	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
265	105	108	107	110	108	112	c	c	c	c	c	c	c	c	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
275	107	111	109	113	111	114	c	c	c	c	115	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
285	110	113	111	115	113	116	c	c	116	116	c	c	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
295	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—
305	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
65 SERIES																														
125	58	62	60	64	62	66	63	67	65	69	66	70	67	71	69	73	70	74	—	—	—	—	—	—	—	—	—	—	—	—
135	63	67	65	69	66	70	68	72	69	73	71	75	72	76	73	77	75	79	—	—	—	—	—	—	—	—	—	—	—	—
145	67	71	c	c	c	c	c	c	74	78	75	79	76	80	77	81	78	82	—	—	—	—	—	—	—	—	—	—	—	—
155	c	c	c	c	c	c	c	c	77	81	79	83	80	84	81	85	83	87	—	—	—	—	—	—	—	—	—	—	—	—
165	75	79	c	c	c	c	c	c	81	85	83	87	84	88	85	89	86	90	—	—	—	—	—	—	—	—	—	—	—	—
175	79	83	c	c	c	c	84	88	85	89	87	91	88	92	89	93	90	94	—	—	—	—	—	—	—	—	—	—	—	—
185	82	86	84	88	c	c	c	c	c	c	90	94	91	95	92	96	93	97	—	—	—	—	—	—	—	—	—	—	—	—
195	86	90	c	c	c	c	c	c	92	96	93	97	94	98	95	99	97	101	—	—	—	—	—	—	—	—	—	—	—	—
205	89	93	90	94	c	c	c	c	c	c	96	100	97	101	98	102	99	103	—	—	—	—	—	—	—	—	—	—	—	—
215	92	96	94	98	c	c	c	c	c	c	c	c	100	104	101	104	102	105	—	—	—	—	—	—	—	—	—	—	—	—
225	95	99	96	100	98	102	c	c	c	c	c	c	c	c	103	107	104	108	—	—	—	—	—	—	—	—	—	—	—	—
235	98	102	99	103	99	103	c	c	c	c	c	c	c	c	106	109	107	111	—	—	—	—	—	—	—	—	—	—	—	—
245	99	103	100	104	101	104	c	c	104	107	c	c	107	110	108	112	110	113	—	—	—	—	—	—	—	—	—	—	—	—
255	100	104	102	105	103	107	c	c	c	c	c	c	c	c	111	114	112	116	—	—	—	—	—	—	—	—	—	—	—	—
265	102	106	104	108	106	109	107	111	c	c	c	c	c	c	113	116	114	116	—	—	—	—	—	—	—	—	—	—	—	—
275	105	108	106	110	108	112	110	113	c	c	c	c	c	c	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—
285	107	110	109	112	110	114	112	115	c	c	c	c	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—
295	109	113	111	114	113	116	c	c	c	c	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—
305	111	115	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—
315	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
60 SERIES																														
135	—	—	62	66	64	68	65	69	67	71	68	72	69	73	71	75	72	76	73	77	74	78	—	—	—	—	—	—	—	—
145	—	—	66	70	68	72	69	73	71	75	72	76	74	78	75	79	76	80	77	81	78	82	—	—	—	—	—	—	—	—
155	—	—	70	74	72	76	c	c	75	79	76	80	77	81	79	83	80	84	81	85	82	86	—	—	—	—	—	—	—	—
165	—	—	c	c	c	c	c	c	79	83	80	84	81	85	83	87	84	88	85	89	86	90	—	—	—	—	—	—	—	—
175	—	—	c	c	c	c	c	c	c	c	84	88	85	89	86	90	88	92	89	93	89	93	—	—	—	—	—	—	—	—
185	—	—	c	c	c	c	c	c	86	90	87	91	88	92	89	93	91	95	92	96	93	97	—	—	—	—	—	—	—	—
195	—	—	c	c	c	c	c	c	c	c	90	94	92	96	93	97	94	98	95	99	96	100	—	—	—	—	—	—	—	—
205	—	—	c	c	c	c	c	c	c	c	c	c	95	99	96	100	97	101	98	102	99	103	—	—	—	—	—	—	—	—
215	—	—	c	c	c	c	c	c	c	c	c	c	98	102	99	103	100	104	101	104	102	105	—	—	—	—	—	—	—	—
225	—	—	94	98	c	c	c	c	c	c	c	c	c	c	101	104	102	105	103	107	105	108	—	—	—	—	—	—	—	—
235	—	—	c	c	c	c	c	c	c	c	c	c	c	c	103	107	105	108	106	109	107	111	—	—	—	—	—	—	—	—
245	—	—	99	103	c	c	c	c	c	c	c	c	c	c	c	c	107	111	108	112	110	113	—	—	—	—	—	—	—	—
255	—	—	99	103	c	c	c	c	c	c	c	c	c	c	c	c	109	113	111	114	112	116	—	—	—	—	—	—	—	—
265	—	—	101	105	c	c	c	c	c	c	c	c	c	c	110	114	112	115	113	116	114	116	—	—	—	—	—	—	—	—
275	—	—	104	107	c	c	c	c	c	c	c	c	c	c	113	116	c	c	115	116	116	116	—	—	—	—	—	—	—	—
285	—	—	106	109	108	111	109	113	c	c	c	c	c	c	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
295	—	—	108	112	110	113	c	c	113	116	114	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
305	—	—	110	114	112	115	114	116	115	116	116	116	c	c	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
315	—	—	112	116	114	116	c	c	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
325	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
335	—	—	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
345	—	—	116	116	116	116	116	116	116	116	c	c	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
55 SERIES																														
155	—	—	—	—	c	c	71	75	72	76	74	78	75	79	76	80	77	81	79	83	80	84	—	—	—	—	—	—	—	—
165	—	—	—	—	c	c	c	c	76	80	78	82	79	83	80	84	81	85	83	87	84	88	—	—	—	—	—	—	—	—
175	—	—	—	—	77	81	c	c	80	84	81	85	82	86	84	88	85	89	86	90	87	91	—	—	—	—	—	—	—	—
185	—	—	—	—	c	c	c	c	83	87	85	89	86	90	87	91	88	92	89	93	91	95	—	—	—	—	—	—	—	—
195	—	—	—	—	c	c	c	c	c	c	88	92	89	93	90	94	91	95	93	97	94	98	—	—	—	—	—	—	—	—
205	—	—	—	—	c	c	c	c	c	c	c	c	c	c	93	97	95	99	96	100	97	101	—	—	—	—	—	—	—	—
215	—	—	—	—	90	94	c	c	c	c	c	c	c	c	96	100	97	101	98	102	99	103	—	—	—	—	—	—	—	—
225	—	—	—	—	c	c	c	c	c	c	c	c	c	c	99	103	100	104	101	104	102	105	—	—	—	—	—	—	—	—
235	—	—	—	—	95	99	c	c	c	c	c	c	c	c	c	c	102	105	103	107	104	108	—	—	—	—	—	—	—	—
245	—	—	—	—	98	102	99	103	100	104	c	c	c	c	103	107	104	108	106	109	107	110	—	—	—	—	—	—	—	—
255	—	—	—	—	c	c	c	c	c	c	c	c	c	c	c	c	107	110	108	112	109	113	—	—	—	—	—	—	—	—
265	—	—	—	—	100	104	102	105	103	107	c	c	c	c	c	c	109	113	110	114	112	115	—	—	—	—	—	—	—	—
275	—	—	—	—	102	106	c	c	106	109	c	c	c	c	c	c	c	c	113	116	114	116	—	—	—	—	—	—	—	—
285	—	—	—	—	105	108	106	110	108	111	109	113	c	c	c	c	c	c	115	116	116	116	—	—	—	—	—	—	—	—
295	—	—	—	—	107	110	109	112	110	114	111	115	113	116	114	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
305	—	—	—	—	109	113	111	114	112	116	114	116	115	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
315	—	—	—	—	111	115	113	116	114	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
325	—	—	—	—	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
335	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—
345	—	—	—	—	116	116	c	c	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																											
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
50 SERIES																														
165	—	—	—	—	70	74	c	c	c	c	75	79	76	80	77	81	78	82	80	84	81	85	82	86	83	87	—	—	—	—
175	—	—	—	—	74	78	75	79	77	81	78	82	79	83	81	85	82	86	83	87	85	89	86	90	87	91	—	—	—	—
185	—	—	—	—	77	81	79	83	c	c	82	86	83	87	84	88	86	90	87	91	88	92	89	93	90	94	—	—	—	—
195	—	—	—	—	80	84	c	c	c	c	85	89	86	90	88	92	89	93	90	94	91	95	92	96	93	97	—	—	—	—
205	—	—	—	—	c	c	c	c	c	c	c	c	89	93	90	94	92	96	93	97	94	98	95	99	96	100	—	—	—	—
215	—	—	—	—	87	91	c	c	c	c	c	c	92	96	93	97	94	98	96	100	97	101	98	102	99	103	—	—	—	—
225	—	—	—	—	c	c	c	c	c	c	c	c	c	c	96	100	97	101	98	102	99	103	100	104	102	105	—	—	—	—
235	—	—	—	—	92	96	94	98	c	c	c	c	c	c	99	103	100	104	101	104	102	105	103	107	104	108	—	—	—	—
245	—	—	—	—	c	c	c	c	c	c	c	c	c	c	c	c	102	105	103	106	104	108	105	109	107	110	—	—	—	—
255	—	—	—	—	97	101	99	103	c	c	c	c	c	c	c	c	c	c	c	c	107	110	108	111	109	113	—	—	—	—
265	—	—	—	—	c	c	c	c	c	c	102	105	103	107	c	c	c	c	108	111	109	112	110	114	111	115	—	—	—	—
275	—	—	—	—	100	104	c	c	c	c	c	c	c	c	c	c	c	c	110	113	111	115	112	116	114	116	—	—	—	—
285	—	—	—	—	102	105	c	c	105	108	106	110	c	c	109	113	c	c	112	115	c	c	114	116	116	116	—	—	—	—
295	—	—	—	—	104	107	c	c	c	c	109	112	110	114	111	115	c	c	114	116	115	116	116	116	116	116	—	—	—	—
305	—	—	—	—	106	110	c	c	110	113	111	114	112	116	114	116	c	c	116	116	116	116	116	116	116	116	—	—	—	—
315	—	—	—	—	108	112	110	113	111	115	113	116	114	116	115	116	116	116	116	116	c	c	116	116	116	116	—	—	—	—
325	—	—	—	—	110	114	c	c	113	116	115	116	116	116	116	116	c	c	116	116	116	116	116	116	116	116	—	—	—	—
335	—	—	—	—	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—
345	—	—	—	—	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
45 SERIES																														
185	—	—	—	—	74	78	75	79	76	80	78	82	79	83	80	84	82	86	83	87	84	88	85	89	86	90	—	—	—	—
195	—	—	—	—	77	81	78	82	c	c	81	85	83	87	84	88	85	89	86	90	88	92	89	93	89	93	—	—	—	—
205	—	—	—	—	80	84	81	85	c	c	c	c	86	90	87	91	88	92	89	93	90	94	91	95	92	96	—	—	—	—
215	—	—	—	—	83	87	c	c	c	c	c	c	c	c	90	94	91	95	92	96	93	97	94	98	95	99	—	—	—	—
225	—	—	—	—	c	c	87	91	89	93	c	c	c	c	92	96	94	98	95	99	96	100	97	101	98	102	—	—	—	—
235	—	—	—	—	88	92	c	c	91	95	c	c	c	c	c	c	c	c	97	101	99	103	99	103	100	104	—	—	—	—
245	—	—	—	—	91	95	92	96	c	c	c	c	c	c	98	102	99	103	100	104	101	104	102	105	103	106	—	—	—	—
255	—	—	—	—	93	97	c	c	96	100	c	c	c	c	c	c	c	c	c	c	103	107	104	108	105	109	—	—	—	—
265	—	—	—	—	96	100	97	101	98	102	100	104	101	104	102	105	c	c	104	108	105	109	107	110	108	111	—	—	—	—
275	—	—	—	—	98	102	99	103	101	104	c	c	c	c	c	c	c	c	107	110	c	c	109	113	110	114	—	—	—	—
285	—	—	—	—	100	104	101	105	103	106	104	108	c	c	c	c	c	c	c	c	c	c	111	115	112	116	—	—	—	—
295	—	—	—	—	102	106	104	107	105	109	107	110	c	c	c	c	c	c	111	115	c	c	114	116	115	116	—	—	—	—
305	—	—	—	—	104	108	106	109	107	111	c	c	110	113	111	115	c	c	113	116	c	c	115	116	c	c	—	—	—	—
315	—	—	—	—	107	110	108	112	109	113	c	c	112	116	113	116	114	116	116	116	116	116	116	116	116	116	—	—	—	—
325	—	—	—	—	109	112	110	114	111	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—
335	—	—	—	—	111	114	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—
345	—	—	—	—	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—
355	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
40 SERIES																														
205	—	—	—	—	76	80	77	81	c	c	c	c	82	86	83	87	84	88	86	90	87	91	88	92	89	93	90	94	91	95
215	—	—	—	—	79	83	80	84	82	86	c	c	c	c	86	90	87	91	88	92	89	93	90	94	92	96	93	97	93	97
225	—	—	—	—	82	86	83	87	85	89	86	90	c	c	c	c	90	94	91	95	92	96	93	97	94	98	95	99	96	100
235	—	—	—	—	84	88	86	90	87	91	c	c	c	c	c	c	92	96	94	98	95	99	96	100	97	101	98	102	99	103
245	—	—	—	—	87	91	88	92	90	94	c	c	c	c	c	c	95	99	96	100	97	101	98	102	99	103	100	104	101	104
255	—	—	—	—	89	93	91	95	92	96	c	c	c	c	c	c	97	101	98	102	99	103	100	104	101	105	102	106	103	107
265	—	—	—	—	92	96	93	97	95	99	96	100	97	101	98	102	100	104	c	c	c	c	103	106	104	107	105	108	106	109
275	—	—	—	—	94	98	95	99	97	101	c	c	99	103	c	c	c	c	c	c	104	107	105	109	106	110	107	110	108	111
285	—	—	—	—	96	100	c	c	99	103	c	c	c	c	c	c	c	c	105	109	c	c	107	111	108	112	109	113	110	114
295	—	—	—	—	98	102	100	104	101	104	c	c	c	c	105	108	c	c	107	111	c	c	109	113	c	c	111	115	112	116
305	—	—	—	—	100	104	102	105	103	107	104	108	106	109	107	110	108	112	109	113	c	c	c	c	c	c	114	116	114	116
315	—	—	—	—	102	106	104	107	105	109	106	110	108	111	c	c	110	114	111	115	112	116	c	c	115	116	c	c	c	c
325	—	—	—	—	104	108	106	109	107	111	109	112	110	113	111	115	112	116	113	116	c	c	115	116	116	116	116	116	116	116
335	—	—	—	—	106	110	108	111	109	113	110	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116
345	—	—	—	—	108	112	110	113	111	115	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
355	—	—	—	—	110	114	112	115	113	116	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
365	—	—	—	—	112	115	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
375	—	—	—	—	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
35 SERIES																														
235	—	—	—	—	—	—	81	85	83	87	84	88	86	90	87	91	88	92	89	93	90	94	91	95	93	97	93	97	94	98
245	—	—	—	—	—	—	84	88	86	90	87	91	88	92	c	c	91	95	92	96	93	97	94	98	95	99	96	100	97	101
255	—	—	—	—	—	—	86	90	88	92	89	93	c	c	92	96	c	c	94	98	95	99	96	100	97	101	98	102	99	103
265	—	—	—	—	—	—	89	93	90	94	92	96	93	97	94	98	95	99	97	101	98	102	99	103	100	104	101	104	101	105
275	—	—	—	—	—	—	91	95	92	96	94	98	95	99	96	100	c	c	99	103	100	104	101	104	102	105	102	106	103	107
285	—	—	—	—	—	—	93	97	95	99	96	100	97	101	c	c	100	104	c	c	c	c	c	c	c	c	105	108	106	109
295	—	—	—	—	—	—	95	99	97	101	98	102	99	103	100	104	101	105	c	c	c	c	105	108	c	c	107	110	108	111
305	—	—	—	—	—	—	97	101	99	103	100	104	101	105	c	c	104	107	c	c	c	c	c	c	c	c	109	113	110	114
315	—	—	—	—	—	—	99	103	100	104	c	c	103	107	104	108	c	c	c	c	108	111	109	112	c	c	111	115	112	115
325	—	—	—	—	—	—	101	104	102	106	104	107	105	109	106	110	108	111	109	112	110	114	111	115	112	116	113	116	114	116
335	—	—	—	—	—	—	103	106	104	108	c	c	107	110	108	112	109	113	111	114	112	115	113	116	114	116	115	116	116	116
345	—	—	—	—	—	—	c	c	106	110	108	111	c	c	c	c	111	115	113	116	114	116	115	116	116	116	116	116	116	116
355	—	—	—	—	—	—	107	110	108	111	109	113	111	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116
365	—	—	—	—	—	—	109	112	110	114	111	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116
375	—	—	—	—	—	—	110	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
385	—	—	—	—	—	—	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
395	—	—	—	—	—	—	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
405	—	—	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
30 SERIES																														
265	—	—	—	—	—	—	—	—	—	—	87	91	88	92	89	93	c	c	92	96	93	97	94	98	95	99	96	100	97	101
275	—	—	—	—	—	—	—	—	—	—	89	93	90	94	92	96	93	97	94	98	95	99	96	100	97	101	98	102	99	103
285	—	—	—	—	—	—	—	—	—	—	91	95	93	97	94	98	95	99	96	100	97	101	98	102	99	103	100	104	101	104
295	—	—	—	—	—	—	—	—	—	—	93	97	94	98	96	100	97	101	98	102	99	103	100	104	101	104	102	106	103	107
305	—	—	—	—	—	—	—	—	—	—	95	99	96	100	98	102	99	103	100	104	c	c	102	105	103	107	104	108	c	c
315	—	—	—	—	—	—	—	—	—	—	97	101	98	102	100	104	101	104	102	105	c	c	104	108	c	c	106	110	107	111
325	—	—	—	—	—	—	—	—	—	—	99	103	100	104	101	105	102	106	c	c	105	108	106	109	107	110	108	112	109	113
335	—	—	—	—	—	—	—	—	—	—	101	104	c	c	103	107	c	c	106	109	107	110	108	111	109	112	110	113	111	114
345	—	—	—	—	—	—	—	—	—	—	102	106	104	107	c	c	106	110	107	111	109	112	110	113	111	114	112	115	113	116
355	—	—	—	—	—	—	—	—	—	—	104	108	105	109	107	110	108	112	109	113	110	114	111	115	113	116	114	116	115	116
365	—	—	—	—	—	—	—	—	—	—	106	109	107	111	109	112	110	113	111	115	112	116	113	116	114	116	115	116	116	116
375	—	—	—	—	—	—	—	—	—	—	108	111	109	113	110	114	111	115	113	116	114	116	115	116	116	116	116	116	116	116
385	—	—	—	—	—	—	—	—	—	—	109	113	111	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116
395	—	—	—	—	—	—	—	—	—	—	111	115	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116
405	—	—	—	—	—	—	—	—	—	—	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
415	—	—	—	—	—	—	—	—	—	—	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
25 SERIES																														
325	—	—	—	—	—	—	—	—	—	—	93	97	94	98	95	99	97	101	98	102	99	103	100	104	101	104	102	105	103	106
335	—	—	—	—	—	—	—	—	—	—	95	99	96	100	98	102	99	103	100	104	c	c	102	105	103	106	104	107	105	108
345	—	—	—	—	—	—	—	—	—	—	96	100	98	102	99	103	100	104	101	104	102	106	103	107	104	108	105	109	106	110
355	—	—	—	—	—	—	—	—	—	—	98	102	100	104	c	c	102	105	103	107	104	108	105	109	106	110	107	111	108	112
365	—	—	—	—	—	—	—	—	—	—	100	104	101	104	102	106	103	107	104	108	106	109	107	110	108	111	109	112	110	114
375	—	—	—	—	—	—	—	—	—	—	101	105	103	106	104	108	105	109	106	110	108	111	109	112	110	113	111	114	112	115
385	—	—	—	—	—	—	—	—	—	—	103	106	104	108	105	109	107	110	108	111	109	113	110	114	111	115	112	116	113	116
395	—	—	—	—	—	—	—	—	—	—	105	108	106	109	107	111	109	112	110	113	111	114	112	115	113	116	114	116	115	116
405	—	—	—	—	—	—	—	—	—	—	106	110	107	111	109	112	110	113	111	115	112	116	113	116	114	116	115	116	116	116
415	—	—	—	—	—	—	—	—	—	—	108	111	109	113	110	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116
425	—	—	—	—	—	—	—	—	—	—	109	113	110	114	112	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116
435	—	—	—	—	—	—	—	—	—	—	111	114	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116
445	—	—	—	—	—	—	—	—	—	—	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
455	—	—	—	—	—	—	—	—	—	—	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
465	—	—	—	—	—	—	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.1 — *(continued)*

Nominal section width	Nominal rim diameter code																													
	12		13		14		15		16		17		18		19		20		21		22		23		24		25		26	
	SL[a]	XL[b]	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL	SL	XL
20 SERIES																														
405	—	—	—	—	—	—	—	—	—	—	99	103	100	104	101	105	103	106	104	107	105	109	106	110	107	111	108	112	109	113
415	—	—	—	—	—	—	—	—	—	—	100	104	101	105	103	106	104	108	105	109	106	110	108	111	109	112	110	113	111	114
425	—	—	—	—	—	—	—	—	—	—	102	105	103	106	104	108	105	109	107	110	108	111	109	113	110	114	111	115	112	116
435	—	—	—	—	—	—	—	—	—	—	103	107	104	108	106	109	107	110	108	112	109	113	110	114	112	115	113	116	114	116
445	—	—	—	—	—	—	—	—	—	—	104	108	106	109	107	111	108	112	110	113	111	114	112	115	113	116	114	116	115	116
455	—	—	—	—	—	—	—	—	—	—	106	109	107	111	109	112	110	113	111	115	112	116	113	116	114	116	115	116	116	116
465	—	—	—	—	—	—	—	—	—	—	107	111	109	112	110	113	111	115	112	116	114	116	115	116	116	116	116	116	116	116
475	—	—	—	—	—	—	—	—	—	—	109	112	110	113	111	115	112	116	114	116	115	116	116	116	116	116	116	116	116	116
485	—	—	—	—	—	—	—	—	—	—	110	113	111	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116
495	—	—	—	—	—	—	—	—	—	—	111	115	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116
505	—	—	—	—	—	—	—	—	—	—	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
515	—	—	—	—	—	—	—	—	—	—	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
525	—	—	—	—	—	—	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] SL: standard-load version; based on a reference pressure of 250 kPa.

[b] XL: reinforced or extra-load version; based on a reference pressure of 290 kPa.

[c] Not internationally harmonized. See published local standards.

Table B.2 — Load indices for light load (LL) and standard load (SL) T-type tyres, based on a reference pressure of 420 kPa

Nominal section width	Nominal rim diameter code																					
	12		13		14		15		16		17		18		19		20		21		22	
	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL
95 SERIES																						
95	66	76	68	77	69	79	71	81	72	82	74	84	75	85	76	86	77	88	78	89	79	90
105	72	82	74	84	75	86	77	87	78	89	80	90	81	91	82	92	84	94	85	95	86	96
115	78	88	79	89	81	91	82	93	84	94	85	95	87	96	88	98	89	99	90	100	91	101
125	83	93	85	95	86	96	88	98	89	99	90	100	92	101	93	103	94	104	95	105	96	106
135	88	98	89	99	91	101	93	102	94	103	95	105	96	106	98	108	99	109	100	110	101	111
145	93	102	94	104	96	105	97	107	98	108	100	110	101	111	102	112	103	113	104	114	105	116
155	97	107	98	108	100	110	101	111	102	113	103	114	105	115	106	116	107	116	108	116	109	116
165	101	111	102	113	104	114	105	116	106	116	108	116	109	116	110	116	111	116	112	116	113	116
175	104	115	106	116	108	116	109	116	110	116	111	116	113	116	114	116	115	116	116	116	116	116
185	109	116	110	116	111	116	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116
195	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
205	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
90 SERIES																						
95	64	74	66	76	68	78	69	79	71	81	72	82	74	84	75	85	76	86	77	87	78	88
105	71	80	72	82	74	84	75	85	77	87	78	88	79	89	81	91	82	92	83	93	84	94
115	76	86	a	a	79	89	81	91	82	92	84	94	85	95	86	96	88	97	89	98	89	99
125	a	a	83	93	85	95	86	96	a	a	89	99	90	100	91	101	92	102	93	103	95	104
135	86	96	88	98	89	99	a	a	92	102	a	a	95	104	96	106	97	107	98	108	99	109
145	91	101	92	102	94	104	95	105	97	106	98	108	99	109	100	110	101	111	102	113	103	114
155	95	105	97	106	98	108	99	109	a	a	a	a	103	113	104	115	105	116	106	116	108	116
165	99	109	100	111	102	112	103	114	104	115	a	a	107	116	a	a	109	116	110	116	111	116
175	103	113	104	115	106	116	107	116	108	116	a	a	a	a	112	116	113	116	114	116	115	116
185	106	116	108	116	109	116	111	116	112	116	113	116	115	116	116	116	116	116	116	116	116	116
195	110	116	111	116	113	116	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
205	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] Not internationally harmonized. See published local standards.

Table B.2 — *(continued)*

Nominal section width	Nominal rim diameter code																					
	12		13		14		15		16		17		18		19		20		21		22	
	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL
85 SERIES																						
95	66	76	68	77	69	79	71	81	72	82	74	84	75	85	76	86	77	88	79	89	80	90
105	72	82	74	84	75	85	77	87	78	88	79	89	81	91	a	a	83	93	85	94	86	96
115	77	88	79	89	81	91	82	92	84	94	85	95	87	96	88	98	89	99	90	100	91	101
125	83	93	84	94	86	96	88	97	89	99	90	100	91	101	93	102	94	104	95	105	96	106
135	88	98	89	99	91	101	92	102	94	103	95	105	96	106	98	108	99	109	100	110	101	111
145	92	102	94	103	95	105	97	106	98	108	99	109	100	111	101	112	103	113	104	114	105	115
155	96	106	98	108	99	110	101	111	102	112	103	114	104	115	106	116	107	116	108	116	109	116
165	100	110	102	112	103	114	104	115	106	116	107	116	109	116	110	116	111	116	112	116	113	116
175	104	115	106	116	107	116	109	116	110	116	111	116	112	116	114	116	115	116	116	116	116	116
185	108	116	109	116	111	116	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116
195	111	116	113	116	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
205	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
80 SERIES																						
95	64	74	66	76	67	77	69	79	70	80	72	82	73	83	75	85	76	86	77	87	78	88
105	70	80	72	82	74	84	75	85	a	a	78	88	a	a	a	a	82	92	83	93	84	94
115	76	86	77	87	79	89	80	90	82	92	83	93	85	95	86	96	87	97	88	98	89	99
125	81	91	a	a	84	94	a	a	87	97	a	a	90	100	91	101	92	102	93	103	94	104
135	86	96	87	97	a	a	a	a	92	101	93	103	94	104	96	105	97	107	98	108	99	109
145	90	100	92	101	93	103	95	104	a	a	97	107	99	109	100	110	101	111	102	112	103	114
155	94	104	96	106	98	107	99	109	a	a	a	a	a	a	104	114	105	115	106	116	107	116
165	98	108	100	110	101	112	103	113	a	a	a	a	107	116	108	116	109	116	110	116	111	116
175	102	112	103	114	105	115	106	116	108	116	109	116	a	a	a	a	113	116	114	116	115	116
185	106	116	107	116	109	116	110	116	111	116	113	116	114	116	115	116	116	116	116	116	116	116
195	109	116	111	116	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116
205	113	116	114	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

a Not internationally harmonized. See published local standards.

Table B.2 — *(continued)*

Nominal section width	Nominal rim diameter code																					
	12		13		14		15		16		17		18		19		20		21		22	
	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL
75 SERIES																						
95	63	73	65	75	67	76	68	78	70	79	71	81	73	82	74	84	75	85	76	86	77	88
105	69	79	71	81	73	83	74	84	76	86	77	87	78	89	80	90	81	91	82	92	84	93
115	75	85	76	87	78	88	79	90	81	91	83	93	84	94	85	95	86	96	88	98	89	99
125	80	90	82	92	84	93	85	95	86	96	88	98	89	99	90	100	92	101	93	102	94	103
135	85	95	87	96	88	98	89	99	91	101	92	102	94	103	95	105	96	106	97	107	98	108
145	89	99	91	101	93	102	94	104	95	105	97	107	98	108	99	109	100	110	101	112	102	113
155	93	103	95	105	97	106	98	108	99	109	101	111	102	112	103	113	104	115	105	116	106	116
165	98	108	99	109	100	111	102	112	103	114	104	115	106	116	107	116	108	116	109	116	111	116
175	101	111	102	113	104	115	105	116	107	116	108	116	109	116	111	116	112	116	113	116	114	116
185	105	115	106	116	108	116	109	116	111	116	112	116	113	116	115	116	116	116	116	116	116	116
195	108	116	110	116	111	116	113	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116
205	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
70 SERIES																						
95	63	73	65	75	66	76	68	78	69	79	71	81	72	82	74	84	75	85	76	86	77	87
105	69	78	71	80	a	a	a	a	a	a	77	87	78	88	79	89	80	90	82	92	83	93
115	74	84	76	86	78	88	a	a	a	a	82	92	84	93	85	95	86	96	87	97	88	98
125	79	89	81	91	83	93	a	a	86	96	a	a	a	a	90	100	91	101	92	102	93	103
135	84	94	86	96	88	97	89	99	a	a	a	a	a	a	a	a	95	105	97	107	98	108
145	89	99	90	100	92	102	93	103	95	104	a	a	97	107	99	109	100	110	101	111	102	112
155	93	102	94	104	96	106	97	107	99	109	100	110	101	112	102	113	a	a	105	115	106	116
165	97	107	98	108	100	110	101	111	102	113	104	114	105	116	106	116	a	a	109	116	110	116
175	100	110	102	112	103	114	105	115	106	116	108	116	109	116	110	116	111	116	112	116	114	116
185	104	114	105	116	107	116	108	116	110	116	111	116	112	116	114	116	115	116	116	116	116	116
195	107	116	109	116	110	116	112	116	113	116	115	116	116	116	116	116	116	116	116	116	116	116
205	111	116	112	116	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116

[a] Not internationally harmonized. See published local standards.

Table B.2 — *(continued)*

Nominal section width	Nominal rim diameter code																					
	12		13		14		15		16		17		18		19		20		21		22	
	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL
65 SERIES																						
95	58	68	60	70	62	71	63	73	65	75	66	76	68	77	69	79	70	80	71	81	72	82
105	64	74	65	75	67	77	69	79	70	80	72	82	73	83	75	85	76	86	77	87	78	88
115	69	79	71	81	73	83	75	85	76	86	77	88	79	89	80	90	81	91	82	92	84	94
125	74	84	76	86	78	88	79	89	81	91	82	92	84	93	85	95	86	96	87	97	88	98
135	79	89	81	91	83	93	84	94	86	96	87	97	88	98	89	99	91	101	92	102	93	103
145	84	93	85	95	87	97	88	98	90	100	91	101	a	a	94	103	95	105	96	106	97	107
155	88	98	89	99	91	101	93	102	94	104	95	105	a	a	98	108	a	a	100	110	101	111
165	92	101	93	103	95	105	96	106	98	108	99	109	100	110	101	112	102	113	103	114	105	115
175	95	105	97	107	99	109	100	110	101	111	102	113	104	114	105	116	106	116	107	116	109	116
185	99	109	100	110	102	112	103	114	104	115	106	116	107	116	109	116	110	116	111	116	112	116
195	102	112	104	114	105	116	107	116	108	116	109	116	111	116	112	116	113	116	114	116	115	116
205	105	116	107	116	108	116	110	116	111	116	113	116	114	116	115	116	116	116	116	116	116	116
60 SERIES																						
95	—	64	56	66	58	68	60	70	61	71	63	73	64	74	65	75	67	77	68	78	69	79
105	61	70	62	72	64	74	65	75	67	77	69	78	70	80	71	81	73	82	74	84	75	85
115	66	76	68	77	69	79	71	81	73	82	74	84	75	85	77	87	78	88	79	89	80	90
125	71	81	73	83	74	85	76	86	77	88	79	89	a	a	81	92	a	a	84	94	85	95
135	76	86	77	88	79	89	80	90	82	92	84	93	a	a	86	96	88	97	89	98	90	100
145	80	90	82	92	83	93	85	95	87	96	88	98	89	99	90	100	a	a	93	102	94	104
155	84	94	86	96	88	97	89	99	90	100	92	102	a	a	94	104	96	105	97	107	98	108
165	88	98	90	100	91	101	93	103	94	104	96	105	97	107	98	108	99	109	100	111	101	112
175	92	101	93	103	95	105	96	106	98	108	99	109	100	111	101	112	103	113	104	114	105	115
185	95	105	97	107	98	108	100	110	101	111	102	113	104	114	105	115	a	a	107	116	108	116
195	99	109	100	110	101	112	103	113	104	115	106	116	107	116	108	116	109	116	111	116	112	116
205	101	112	103	114	105	115	106	116	108	116	109	116	110	116	111	116	113	116	114	116	115	116

[a] Not internationally harmonized. See published local standards.

Table B.2 — *(continued)*

Nominal section width	Nominal rim diameter code																					
	12		13		14		15		16		17		18		19		20		21		22	
	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL	LL	SL
55 SERIES																						
95	—	61	—	63	—	64	56	66	58	68	59	69	61	70	62	72	63	73	64	74	65	75
105	57	67	59	69	61	70	62	72	64	74	65	75	67	76	68	78	69	79	70	80	72	81
115	62	72	64	74	66	76	67	77	69	79	70	80	72	82	73	83	74	84	75	86	76	87
125	67	77	69	79	71	81	73	82	74	84	75	86	77	87	78	88	79	89	80	90	82	92
135	72	82	74	84	75	85	77	87	78	88	80	90	81	91	82	93	84	94	85	95	86	96
145	76	86	78	88	80	90	81	91	83	93	84	94	86	96	87	97	88	98	89	99	90	100
155	80	90	82	92	84	94	85	95	87	97	88	98	89	99	91	100	92	102	93	103	94	104
165	84	94	86	96	88	98	89	99	90	100	92	102	93	103	95	104	96	106	97	107	98	108
175	88	98	89	99	91	101	93	102	94	104	95	105	97	107	98	108	99	109	100	110	101	112
185	91	101	93	103	95	104	96	106	98	108	99	109	[a]	[a]	101	112	102	113	103	114	105	115
195	95	104	96	106	98	108	99	109	100	111	102	112	103	114	104	115	105	116	107	116	108	116
205	98	108	99	110	101	111	102	113	104	114	105	116	106	116	108	116	109	116	110	116	111	116
50 SERIES																						
95	—	—	—	57	—	59	—	61	—	63	—	64	—	65	57	67	58	68	59	69	61	71
105	—	62	—	63	—	65	57	67	58	68	60	70	61	71	63	73	64	74	65	75	66	76
115	57	67	59	69	61	70	62	72	64	74	65	75	66	76	68	78	69	79	70	80	72	81
125	62	72	64	74	65	75	67	77	69	78	70	80	71	81	73	83	74	84	75	85	76	86
135	66	76	68	78	70	80	72	81	73	83	75	85	76	86	77	87	78	89	79	90	81	91
145	71	81	73	82	74	84	76	86	77	87	79	89	80	90	81	91	83	93	84	94	85	95
155	75	85	76	87	78	88	80	90	81	91	83	93	84	94	86	95	87	97	88	98	89	99
165	78	89	80	90	82	92	84	94	85	95	87	96	88	98	89	99	90	100	91	101	93	102
175	82	92	84	94	86	96	87	97	89	99	90	100	91	101	93	102	94	103	95	105	96	106
185	86	96	88	97	89	99	90	100	92	102	93	103	95	104	96	106	97	107	98	108	99	109
195	89	99	90	100	92	102	94	103	95	105	97	106	98	108	99	109	100	110	101	111	102	113
205	92	102	94	103	95	105	97	107	98	108	99	110	101	111	102	112	103	114	104	115	105	116

[a] Not internationally harmonized. See published local standards.

Table B.3 — Load indices for P-type light load (LL) tyres with a reference pressure of 250 kPa

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
45 SERIES													
185	68	70	72	73	75	76	78	79	80	82	83	—	—
195	71	73	75	76	78	79	81	82	83	85	86	—	—
205	74	76	a	79	80	82	84	85	86	88	89	—	—
215	77	78	80	82	83	85	86	88	89	90	91	—	—
225	a	a	83	a	86	87	89	90	91	93	94	—	—
235	82	84	85	a	a	90	91	92	94	95	96	—	—
245	85	86	a	a	91	92	93	95	96	97	98	—	—
255	87	89	90	a	a	a	96	97	98	99	100	—	—
265	89	91	a	94	95	97	98	99	100	101	102	—	—
275	91	93	94	96	97	99	100	101	102	103	105	—	—
285	93	95	96	98	99	101	102	103	104	105	107	—	—
295	95	97	99	100	a	102	104	105	106	108	109	—	—
305	98	99	100	a	103	104	106	107	108	110	111	—	—
315	99	101	102	a	105	106	108	109	110	111	113	—	—
325	101	103	104	106	107	108	110	111	112	113	115	—	—
335	103	104	106	108	109	110	112	113	114	115	116	—	—
345	105	106	108	109	111	112	113	115	116	116	116	—	—
355	107	108	110	111	113	114	115	116	116	116	116	—	—
40 SERIES													
205	71	73	a	a	78	79	80	82	83	85	86	87	88
215	74	75	77	a	a	82	83	85	86	87	88	89	91
225	76	78	80	81	a	85	86	87	88	90	91	92	93
235	79	80	82	a	a	87	88	89	91	92	93	94	95
245	81	83	85	a	a	89	a	92	93	94	95	97	98
255	84	85	87	a	a	a	93	94	95	97	98	99	100
265	86	88	89	a	a	94	95	96	98	99	100	101	102
275	88	90	91	a	a	a	97	98	99	101	102	103	104
285	90	92	93	a	a	98	99	100	101	102	104	105	106
295	92	94	95	97	98	100	a	102	103	104	106	107	108
305	94	96	97	99	100	101	103	104	105	106	108	109	110
315	96	98	99	101	a	a	105	106	107	108	110	111	112
325	98	100	101	102	104	105	107	108	109	110	111	113	114
335	100	101	103	104	106	107	108	110	111	112	113	114	115
345	102	103	105	106	108	109	110	111	113	114	115	116	116
355	103	105	106	108	109	111	112	113	114	116	116	116	116
365	105	107	108	110	111	112	114	115	116	116	116	116	116
375	107	108	110	111	113	114	115	116	116	116	116	116	116

[a] Not internationally harmonized. See published local standards.

Table B.3 — *(continued)*

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
35 SERIES													
215	—	68	70	71	a	a	76	77	78	80	81	82	83
235	—	73	75	76	78	79	81	82	83	85	86	87	88
245	—	75	77	79	a	82	83	85	86	87	88	89	90
255	—	78	79	81	a	84	85	87	88	89	90	92	93
265	—	80	82	83	a	86	88	89	90	91	93	94	95
275	—	82	84	85	a	88	a	91	92	93	94	96	97
285	—	84	86	a	a	a	92	93	94	95	96	98	99
295	—	86	88	89	a	92	94	95	96	97	98	99	100
305	—	88	90	91	93	94	95	97	98	99	100	101	102
315	—	90	92	a	95	96	97	99	100	101	102	103	104
325	—	92	94	95	96	98	99	100	101	102	104	105	106
335	—	94	95	a	98	99	101	102	103	104	105	107	108
345	—	96	97	99	100	101	102	103	105	106	107	108	109
355	—	97	99	100	101	103	104	105	107	108	109	110	111
365	—	99	100	102	103	104	106	107	108	109	111	112	113
375	—	100	102	103	105	106	107	109	110	111	112	113	114
385	—	102	103	105	106	108	109	110	111	113	114	115	116
395	—	104	105	107	108	109	111	112	113	114	115	116	116
405	—	105	107	108	110	111	112	113	115	116	116	116	116
30 SERIES													
265	—	—	—	80	81	83	84	86	87	88	89	90	92
275	—	—	—	82	84	85	86	88	89	90	91	92	94
285	—	—	—	84	86	87	88	89	91	92	93	94	95
295	—	—	—	86	88	89	90	92	93	94	95	96	97
305	—	—	—	88	89	91	92	93	95	96	97	98	99
315	—	—	—	90	a	93	94	95	96	98	99	100	101
325	—	—	—	92	93	a	96	97	98	99	100	101	102
335	—	—	—	93	a	96	98	99	100	101	102	103	104
345	—	—	—	95	a	a	99	100	101	103	104	105	106
355	—	—	—	97	98	99	101	102	103	104	105	107	108
365	—	—	—	98	100	101	102	103	105	106	107	108	109
375	—	—	—	100	101	102	104	105	106	108	109	110	111
385	—	—	—	101	103	104	105	107	108	109	110	111	112
395	—	—	—	103	104	106	107	108	109	111	112	113	114
405	—	—	—	104	106	107	109	110	111	112	113	114	115
415	—	—	—	106	107	109	110	111	112	114	115	116	116

a Not internationally harmonized. See published local standards.

Table B.3 — *(continued)*

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
25 SERIES													
325	—	—	—	88	89	91	92	94	95	96	97	98	99
335	—	—	—	90	91	93	94	95	96	98	99	100	101
345	—	—	—	92	93	94	96	97	98	99	100	101	102
355	—	—	—	93	95	96	97	99	100	101	102	103	104
365	—	—	—	95	96	98	99	100	101	102	103	104	106
375	—	—	—	96	98	99	100	101	103	104	105	106	107
385	—	—	—	98	99	100	102	103	104	105	107	108	109
395	—	—	—	99	101	102	103	104	106	107	108	109	110
405	—	—	—	101	102	103	105	106	107	108	110	111	112
415	—	—	—	102	104	105	106	108	109	110	111	112	113
425	—	—	—	104	105	106	108	109	110	111	112	114	115
435	—	—	—	105	106	108	109	110	112	113	114	115	116
445	—	—	—	107	108	109	110	112	113	114	115	116	116
455	—	—	—	108	109	111	112	113	114	115	116	116	116
465	—	—	—	109	111	112	113	114	116	116	116	116	116
20 SERIES													
405	—	—	—	97	98	100	101	102	103	104	106	107	108
415	—	—	—	99	100	101	102	103	105	106	107	108	109
425	—	—	—	100	101	102	104	105	106	107	109	110	111
435	—	—	—	101	102	104	105	106	108	109	110	111	112
445	—	—	—	102	104	105	106	108	109	110	111	112	113
455	—	—	—	104	105	107	108	109	110	111	113	114	115
465	—	—	—	105	107	108	109	110	112	113	114	115	116
475	—	—	—	107	108	109	110	112	113	114	115	116	116
485	—	—	—	108	109	111	112	113	114	115	116	116	116
495	—	—	—	109	110	112	113	114	115	116	116	116	116
505	—	—	—	110	112	113	114	115	116	116	116	116	116
515	—	—	—	112	113	114	116	116	116	116	116	116	116
525	—	—	—	113	114	116	116	116	116	116	116	116	116

[a] Not internationally harmonized. See published local standards.

Annex C
(normative)

Minimum inflation pressure for intermediate load

Table C.1 applies to tyre sizes given in Table B.1; the reference pressure is 250 kPa.

Table C.1 — Tyre load-carrying capacity at various inflation pressures for standard load (kg)

Tyre load index LI	Tyre inflation pressure kPa							
	180	**190**	**200**	**210**	**220**	**230**	**240**	**250**
55	170	175	180	190	195	205	210	218
56	170	180	185	195	200	210	215	224
57	175	185	190	200	210	215	225	230
58	180	190	195	205	215	220	230	236
59	185	195	205	210	220	225	235	243
60	190	200	210	215	225	235	240	250
61	200	205	215	225	230	240	250	257
62	205	215	220	230	240	250	255	265
63	210	220	230	235	245	255	265	272
64	215	225	235	245	255	260	270	280
65	225	235	245	250	260	270	280	290
66	230	240	250	260	270	280	290	300
67	235	245	255	265	275	285	295	307
68	240	255	265	275	285	295	305	315
69	250	260	270	285	295	305	315	325
70	260	270	280	290	300	315	325	335
71	265	275	290	300	310	325	335	345
72	275	285	295	310	320	330	345	355
73	280	295	305	315	330	340	355	365
74	290	300	315	325	340	350	365	375
75	300	310	325	335	350	360	375	387
76	310	320	335	350	360	375	385	400
77	315	330	345	360	370	385	400	412
78	325	340	355	370	385	400	410	425
79	335	350	365	380	395	410	425	437
80	345	360	375	390	405	420	435	450
81	355	370	385	400	415	430	445	462
82	365	380	395	415	430	445	460	475
83	375	390	405	425	440	455	470	487

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

Table C.1 *(continued)*

Tyre load index LI	Tyre inflation pressure kPa							
	180	**190**	**200**	**210**	**220**	**230**	**240**	**250**
84	385	400	420	435	450	470	485	500
85	395	415	430	450	465	480	500	515
86	410	425	445	460	480	495	515	530
87	420	440	455	475	490	510	525	545
88	430	450	470	485	505	525	540	560
89	445	465	485	505	525	545	560	580
90	460	480	500	520	540	560	580	600
91	475	495	515	535	555	575	595	615
92	485	505	525	550	570	590	610	630
93	500	520	545	565	585	610	630	650
94	515	540	560	585	605	625	650	670
95	530	555	575	600	625	645	670	690
96	545	570	595	620	640	665	685	710
97	560	585	610	635	660	685	705	730
98	575	600	625	650	675	700	725	750
99	595	620	650	675	700	725	750	775
100	615	640	670	695	720	750	775	800
101	665	690	715	735	760	780	805	825
102	685	710	735	760	780	805	830	850
103	705	730	755	780	805	830	850	875
104	725	755	780	805	830	855	875	900
105	745	775	800	825	850	875	900	925
106	765	795	820	850	875	900	925	950
107	790	815	845	870	895	925	950	975
108	810	835	865	895	920	945	975	1 000
109	830	860	890	920	950	975	1 005	1 030
110	855	885	915	945	975	1 005	1 030	1 060
111	880	910	945	975	1 005	1 030	1 060	1 090
112	905	935	970	1 000	1 030	1 060	1 090	1 120
113	930	960	995	1 025	1 060	1 090	1 120	1 150
114	955	985	1 020	1 055	1 085	1 120	1 150	1 180
115	980	1 015	1 050	1 085	1 120	1 150	1 185	1 215
116	1 010	1 045	1 080	1 115	1 150	1 185	1 215	1 250

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

Table C.2 applies to tyre sizes given in Table B.1; the reference pressure is 290 kPa.

Table C.2 — Tyre load-carrying capacity at various inflation pressures for extra load (kg)

Tyre load index LI	Tyre inflation pressure kPa			
	260	**270**	**280**	**290**
55	200	205	210	218
56	205	210	220	224
57	210	215	225	230
58	215	225	230	236
59	225	230	235	243
60	230	235	245	250
61	235	245	250	257
62	245	250	260	265
63	250	255	265	272
64	255	265	270	280
65	265	275	280	290
66	275	285	290	300
67	280	290	300	307
68	290	295	305	315
69	300	305	315	325
70	305	315	325	335
71	315	325	335	345
72	325	335	345	355
73	335	345	355	365
74	345	355	365	375
75	355	365	375	387
76	365	380	390	400
77	380	390	400	412
78	390	400	415	425
79	400	415	425	437
80	410	425	440	450
81	425	435	450	462
82	435	450	460	475
83	445	460	475	487
84	460	470	485	500
85	470	485	500	515
86	485	500	515	530
87	500	515	530	545
88	515	530	545	560
89	530	550	565	580

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

[a] To be used if load index for standard load is 100.

[b] To be used if load index for standard load is 101.

Table C.2 *(continued)*

Tyre load index LI	Tyre inflation pressure kPa			
	260	**270**	**280**	**290**
90	550	565	585	600
91	565	580	600	615
92	575	595	615	630
93	595	615	630	650
94	615	635	650	670
95	630	650	670	690
96	650	670	690	710
97	670	690	710	730
98	685	710	730	750
99	710	730	755	775
100	735	755	780	800
101	755	780	800	825
102	780	805	825	850
103	800	825	850	875
104[a]	825	850	875	900
104[b]	840	860	880	900
105	860	885	905	925
106	885	905	930	950
107	910	930	955	975
108	930	955	975	1 000
109	960	985	1 005	1 030
110	985	1 010	1 035	1 060
111	1 015	1 040	1 065	1 090
112	1 045	1 070	1 095	1 120
113	1 070	1 100	1 125	1 150
114	1 100	1 125	1 155	1 180
115	1 130	1 160	1 190	1 215
116	1 165	1 195	1 220	1 250

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

[a] To be used if load index for standard load is 100.

[b] To be used if load index for standard load is 101.

For inflation pressures 250 kPa and below, use standard load values for specific tyre size, e.g. for 195/50 R17 tyre, standard load = 85 LI and extra load = 89.

For intermediate loads for the extra load version of this tyre, at inflation pressures 260 kPa through 290 kPa, use values in Table C.2 for LI 89.

For loads at pressures 250 kPa and below, use standard load 85 LI values in Table C.1.

Table C.3 applies to tyre sizes given in Table B.3; the reference pressure is 250 kPa.

Table C.3 — Tyre load-carrying capacity at various inflation pressures for light load (LL) (kg)

Tyre load index LI	Tyre inflation pressure kPa							
	180	**190**	**200**	**210**	**220**	**230**	**240**	**250**
55	175	180	190	195	200	205	210	218
56	180	185	195	200	205	210	220	224
57	185	190	200	205	210	220	225	230
58	190	195	205	210	215	225	230	236
59	195	205	210	215	225	230	235	243
60	200	210	215	225	230	235	245	250
61	210	215	220	230	235	245	250	257
62	215	220	230	235	245	250	260	265
63	220	230	235	245	250	260	265	272
64	225	235	240	250	260	265	275	280
65	235	245	250	260	265	275	280	290
66	240	250	260	270	275	285	290	300
67	250	255	265	275	285	290	300	307
68	255	265	270	280	290	300	305	315
69	265	270	280	290	300	310	315	325
70	270	280	290	300	310	315	325	335
71	280	290	300	310	315	325	335	345
72	285	295	305	315	325	335	345	355
73	295	305	315	325	335	345	355	365
74	305	315	325	335	345	355	365	375
75	315	325	335	345	355	365	375	387
76	325	335	345	355	370	380	390	400
77	335	345	355	370	380	390	400	412
78	345	355	370	380	390	405	415	425
79	355	365	380	390	400	415	425	437
80	365	375	390	400	415	425	440	450
81	375	385	400	410	425	440	450	462
82	385	395	410	425	435	450	465	475
83	395	405	420	435	450	460	475	487
84	405	420	430	445	460	475	485	500
85	415	430	445	460	475	490	500	515
86	430	445	460	475	490	500	515	530
87	440	455	470	485	500	515	530	545
88	450	470	485	500	515	530	545	560
89	470	485	500	520	535	550	565	580
90	485	500	520	535	550	570	585	600
91	495	515	530	550	565	585	600	615

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

Table C.3 *(continued)*

Tyre load index LI	**Tyre inflation pressure** kPa							
	180	**190**	**200**	**210**	**220**	**230**	**240**	**250**
92	510	525	545	560	580	595	615	630
93	525	545	560	580	600	615	635	650
94	540	560	580	600	615	635	650	670
95	555	575	595	615	635	655	670	690
96	575	595	615	635	655	675	690	710
97	590	610	630	650	670	690	710	730
98	605	625	650	670	690	710	730	750
99	625	650	670	690	715	735	755	775
100	645	670	690	715	735	760	780	800
101	665	690	715	735	760	780	805	825
102	685	710	735	760	780	805	830	850
103	705	730	755	780	805	830	850	875
104	725	755	780	805	830	855	875	900
105	745	775	800	825	850	875	900	925
106	765	795	820	850	875	900	925	950
107	790	815	845	870	895	925	950	975
108	810	835	865	895	920	945	975	1 000
109	830	860	890	920	950	975	1 005	1 030
110	855	885	915	945	975	1 005	1 030	1 060
111	880	910	945	975	1 005	1 030	1 060	1 090
112	905	935	970	1 000	1 030	1 060	1 090	1 120
113	930	960	995	1 025	1 060	1 090	1 120	1 150
114	955	985	1 020	1 055	1 085	1 120	1 150	1 180
115	980	1 015	1 050	1 085	1 120	1 150	1 185	1 215
116	1 010	1 045	1 080	1 115	1 150	1 185	1 215	1 250

This table only applies to speeds up to 160 km/h. For speeds over 160 km/h, refer to Table C.4 or consult the tyre manufacturer.

Table C.4 applies to speeds over 160 km/h.

Table C.4 — Inflation pressure adjustment for vehicle speed for tyre load-carrying capacity for speeds over 160 km/h

Vehicle operating speed km/h	Speed symbol						
	S	T	U	H	V	W	Y
170	+10 kPa	+10 kPa	+10 kPa	+10 kPa	+10 kPa	—	—
180	+10 kPa	+10 kPa	+10 kPa	+10 kPa	+10 kPa	—	—
190	—	+20 kPa	+20 kPa	+20 kPa	+20 kPa	—	—
200	—	—	+20 kPa	+20 kPa	+20 kPa	+10 kPa	—
210	—	—	—	+30 kPa	+30 kPa	+20 kPa	—
220	—	—	—	—	+30 kPa	+30 kPa	—
230	—	—	—	—	+30 kPa	+40 kPa	+10 kPa
240	—	—	—	—	+30 kPa	+50 kPa	+20 kPa
250	—	—	—	—	—	+50 kPa	+30 kPa
260	—	—	—	—	—	+50 kPa	+40 kPa
270	—	—	—	—	—	+50 kPa	+50 kPa
280	—	—	—	—	—	—	+50 kPa
290	—	—	—	—	—	—	+50 kPa
300	—	—	—	—	—	—	+50 kPa

NOTE 1 Adjustment is made to the pressure required for the application load.

NOTE 2 The calculated inflation pressure is based on the load and speed, and it is not less than the following:

— for speeds of 160 km/h or less, inflation pressure is ≥ 140 kPa;

— for speeds greater than 160 km/h, inflation pressure is ≥ 180 kPa.

The following is an example of calculation of minimum required inflation pressure for **heavily loaded conditions**.

a) **Tyre: 325/40R17 109Y**

b) Vehicle speed capability: 270 km/h

c) Maximum vehicle load on tyre: 1 030 kg (100 % of load index)

d) Required inflation pressure based on load: 250 kPa.

e) Increase in inflation pressure based on speed: + 50kPa (see adjustment in Table C.4 for Y-rated tyre at 270 km/h).

f) Calculated inflation pressure based on load and speed: 250 kPa + 50 kPa = 300 kPa.

g) Minimum inflation pressure for speed: 270 km/h = 180 kPa.

h) Minimum required inflation pressure: 300 kPa.

In the heavily loaded condition, the inflation pressure based on load and speed adjustment is selected.

The following is an example of calculation of minimum required inflation pressure for **lightly loaded conditions**.

a) **Tyre: 325/40R17 109Y**

b) Vehicle speed capability: 270 km/h

c) Maximum vehicle load on tyre: 618 kg (60 % of load index)

d) Required inflation pressure based on load: 114 kPa using the following method:

1) (actual load/maximum load based on load index)^{1,538} × pressure corresponding to the maximum load of the tyre (LI);

NOTE 1,538 is the reciprocal of the ISO pressure coefficient of 0,65.

2) (618 kg/1 030 kg)^{1,538} × 250 kPa = 114 kPa.

e) Increase in inflation pressure based on speed: + 50kPa (see adjustment in Table C.4 for Y-rated tyre at 270 km/h).

f) Calculated inflation pressure based on load and speed: 114 kPa + 50 kPa = 164 kPa.

g) Minimum inflation pressure for speed: 270 km/h = 180 kPa.

h) Minimum required inflation pressure: 180 kPa.

In the lightly loaded condition, the minimum inflation value is selected.

Annex D
(informative)

Other existing size markings

A series of tyres for radial-ply construction, whose identification is not in accordance with the tyre size designation defined in this part of ISO 4000, is currently marketed in various countries.

In particular, this tyre size designation does not include the nominal aspect ratio. These radial tyres were in existence long before publication of the first edition of this part of ISO 4000 and traditionally, they pertain to the metric series. Although sometimes quoted as 82-series tyres, they have sizes similar to those of tyres identified by a nominal aspect ratio of 80.

Their size designation and relevant dimensions are shown in Table D.1.

Table D.1 — Metric-series radial tyres with other markings

Dimensions in millimetres

Designation of size and construction	Measuring rim width code	Design tyre dimensions		Maximum tyre dimensions in service (grown)	
		Section width S	Overall diameter D_o	Overall width W_{max}	Overall diameter $D_{o\,max}$
125 R 12	3½	127	510	132	518
125 R 15			588		596
135 R 12	4	137	522	142	531
135 R 13			548		557
135 R 14			574		583
135 R 15			600		609
145 R 10	4	147	492	153	501
145 R 12			542		551
145 R 13			566		575
145 R 14			590		599
145 R 15			616		625
155 R 12	4½	157	550	163	560
155 R 13			578		588
155 R 14			604		614
155 R 15			630		640
165 R 13	4½	167	596	174	607
165 R 14			622		633
165 R 15			646		657
175 R 13	5	178	608	185	619
175 R 14			634		645
175 R 15			660		671
175 R 16			686		696
185 R 13	5½	188	624	196	636
185 R 14			650		662
185 R 15			674		686
195 R 14	5½	198	666	206	678
195 R 15			690		702
205 R 14	6	208	686	216	699
205 R 15			710		723
205 R 16			736		749

Bibliography

[1] ISO 80000-1, *Quantities and units — Part 1: General*

[2] ISO 4000-2, *Passenger car tyres and rims — Part 2: Rims*

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Price based on 55 pages