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Passenger car tyres and rims

Part 1: Tyres (metric series)

bsi.

National foreword

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Part 1: Tyres (metric series)

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Partie 1: Pneumatiques (série millimétrique)

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

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

This twelfth edition of ISO 4000-1 cancels and replaces the eleventh edition (ISO 4000-1:2015), which has been technically revised.

The main changes compared to the previous edition are as follows:

— some definitions have been aligned with ISO 4223-1;

— the text on inflation pressures in Clause 8 has been reworded;

— new internationally harmonized load indices has been added in Annex B.

A list of all parts in the ISO 4000 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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INTERNATIONAL STANDARD ISO 4000-1:2021(E)

Passenger car tyres and rims —

Part 1:
Tyres (metric series)

1 Scope

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

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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 3877-1, ISO 4223-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at http://www.electropedia.org/

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 Protruding circumferential rubber rib.

4 Designation

4.1 Size and construction

4.1.1 Characteristics

The tyre characteristics shall be designated:

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

EXAMPLE 235/45 R 17.

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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 all end in 5.

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

4.1.3 Nominal aspect ratio

The nominal aspect ratio (H/S, where H is the design tyre section height and S is the design tyre section width) 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:

— B for bias-belted construction;

— D for diagonal construction;

— R for radial construction;

— RF for radial run-flat construction (only applicable to run-flat or self-supporting tyres as defined in ISO 16992; radial extended mobility tyres as defined in ISO 16992 shall have the construction code R).

In the case of tyres having a maximum speed capability exceeding 240 km/h, the tyre construction code R can be replaced by ZR and the tyre construction code RF can be replaced by ZRF.

In the case of tyres having a maximum speed capability exceeding 300 km/h, the tyre construction code R shall be replaced by ZR and the tyre construction code RF shall be replaced by ZRF.

Use of any other code-letter (e.g. 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.

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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:

Load index Speed symbol

In the case of tyres having a maximum speed capability exceeding 300 km/h, the speed symbol Y and the load index shall be both placed within parentheses, to identify performance up to 300 km/h.

EXAMPLE 235/45 ZR 17 (97Y).

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

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 symbol

Alpha or alpha-numeric code which indicates the speed category (4.2.4) of the tyre.

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4.2.4 Speed category

A speed category is assigned to a tyre according to the maximum speed which the tyre can sustain. It is expressed by the speed symbol, in accordance with Table 3.

4.3 Other service characteristics

4.3.1 The word "TUBELESS" shall appear on the sidewalls of tyres without tubes.

4.3.2 The letters "XL", close to the tyre size designation, or the words "REINFORCED" or "EXTRA LOAD" shall appear on the sidewalls of 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 identify T-type temporary-use spare tyres.

4.3.5 Specific indications, if required, can 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 construction, with the word "RADIAL";

— direction of mounting;

— direction of rotation;

— type of tread pattern;

— other characteristics.

4.3.6 The optional marking "P" can 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.

EXAMPLE P295/45 R 17.

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Table 2 — Equivalence 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 according to this document have a 116 load index maximum: some existing tyres can have a higher load index number.

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

For tyres with the speed symbol V (between 210 km/h and 240 km/h), the maximum load carrying 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 symbols W and Y, the maximum load carrying 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 with the speed symbol W (between 240 km/h and 270 km/h), the maximum load carrying 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 with the speed symbol Y (between 270 km/h and 300 km/h), the maximum load carrying 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, 4.2.4 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 carrying 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 carrying capacity corresponding to the load index can 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.

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Table 3 — Speed symbols and corresponding speed

Speed symbol	Speed 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 can be added later.

[a] For tyres designed for speeds exceeding 300 km/h, see 4.2.1.

5 Marking

The marking shall include designations of the following:

a) size and construction;

b) service description (see 4.2.1);

c) any other service characteristics.

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

No location is specified for the markings related to other service characteristics (see 4.3).

EXAMPLE A tubeless tyre having a nominal section width of 165 mm, a nominal aspect ratio of 80, a radial construction and a nominal rim diameter code of 15, whose service description consists of a load index 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 80000-1:2009, B.3, rule B).

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6.2 Calculation of design tyre dimensions

6.2.1 Theoretical rim width, R_{th}

See Formula (1):

$$R_{th} = K_1 \times S_N \quad (1)$$

where

R_{th} is the theoretical rim width, expressed in millimetres;

K_1 is the theoretical rim/section width ratio coefficient;

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}

See Formula (2), where R_{mc} is rounded to the nearest 0.5 rim width code:

$$R_{mc} = \frac{K_2 \times S_N}{25,4} \quad (2)$$

where K_2 is the measuring 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 95 to 75;

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

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

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

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

— K_2 = 0,92 for nominal aspect ratios 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, R_{th}, to the measuring rim width code, R_{mc}, as shown in Formula (3):

$$S = S_N + 0,4 \times (25,4 \times R_{mc} - R_{th}) \quad (3)$$

EXAMPLE 265/40 R17.

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

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$R_{th} = K_1 \times S_N = 265 \times 0{,}85 = 225{,}25$ 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 using Formula (4):

$$H = S_N \times \frac{H/S}{100} \tag{4}$$

where H/S is the nominal aspect ratio.

6.2.5 Design tyre overall diameter, D_0

The design tyre overall diameter, D_0, is calculated using Formula (5):

$$D_0 = D_r + 2 \times H \tag{5}$$

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 tyre 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

Construction	Construction code	Coefficient			
		a	*b*	*c*	*d*
Diagonal	D	1,1	1,08	—	—
Bias-belted	B			—	—
Radial	R	1,04	1,04	0,96	0,97
Radial run-flat	RF				

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

The maximum overall (grown) width in service, W_{max}, includes elevation due to labelling, decorations, protective ribs or bands and rim protectors and 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), see Formula (6):

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$$W_{max} = S \times a \quad (6)$$

— the addition of 8 mm to the design tyre section width, S, see Formula (7):

$$W_{max} = S + 8 \quad (7)$$

If the overall (grown) width is measured at the rim protectors, an additional 8 mm is allowed. In this case, W_{max} equals to the greater of the following values ($S \times a + 8$) or ($S + 16$).

6.3.3 Maximum overall (grown) diameter in service, $D_{0,max}$

See Formula (8):

$$D_{0,max} = D_r + 2 \times H \times b \quad (8)$$

See Table 4 for the value of coefficient b. $H \times b$ shall be first rounded to the nearest integer before calculating the maximum overall diameter in service.

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

6.4.1 Minimum tyre section width, S_{min}

See Formula (9):

$$S_{min} = S \times c \quad (9)$$

See Table 4 for the value of coefficient c.

6.4.2 Minimum tyre overall diameter, $D_{0,min}$

See Formula (10):

$$D_{0,min} = D_r + 2 \times H \times d \quad (10)$$

See Table 4 for the value of coefficient d. $H \times d$ shall be first rounded to the nearest integer before calculating the minimum overall diameter.

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, SN, 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. However, this is not applicable to tyres which overall width is measured at the rim protectors, in which case, the change will be greater than 40 %.

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

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 type	420

8 Inflation pressures

Correct inflation pressures are of the highest importance for driving safety.

Over-inflation causes the tyre to be more susceptible to impact damage.

Under-inflation causes over-heating and can greatly shorten the life of a tyre. It affects vehicle stability and can cause irregular wear, internal damage and, ultimately, even tyre disablement.

The effects of under-inflation are not necessarily immediate. It may be a considerable time before they occur. The pressures (cold) recommended by the tyre manufacturers in their technical documents should be regarded as a minima.

The recommended cold tyre inflation pressure for each tyre position specified by the vehicle and/or the tyre manufacturer for the intended service condition of the given vehicle shall be equal or higher than the minimum cold tyre inflation pressure, given by the tyre manufacturer or the tyre standardization body for the given service conditions.

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The recommended cold tyre inflation pressure should take into account not only the tyre load-carrying capacity (see Annex C) and the high speed capability, but also the operating conditions such as maximum speed capability of the vehicle, camber angle, as well as the construction and characteristics of the vehicle.

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

For normal road applications, the specified inflation pressure cannot 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 carrying-capacities

Use the load indices for passenger car tyres given in Annex B.

For sizes not included in Annex B, consult the National Standardization Organization.

The tyre load-carrying capacity at various inflation pressures given in Annex C shall be used.

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 can 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 carrying capacity at the specified inflation pressure.

Maximum loaded vehicle mass is the sum of the following:

a) curb mass;

b) accessory mass;

c) vehicle capacity mass;

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.

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Accessory mass is the combined mass (in excess of those standard items that can 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 different aspect ratios in Table 8.

Table 8 — Maximum camber angle for different aspect ratios

Aspect ratio H/S	Maximum camber angle	
	up to 270 km/h	above 270 km/h
80 to 25	4°	3°
20	3°	3°

The only way to compensate for camber angle is by increasing 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 static camber angle, γ, between 2° and 4°, the camber factor, K_S, is calculated as follows:

— for aspect ratio 50 and above, see Formula (11):

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$$K_s = 1/(1{,}1 - 0{,}05 \times \gamma)^{1{,}25} \quad (11)$$

— for aspect ratio, H/S, 45 to 25, see Formula (12):

$$K_s = 1/(1 + (0{,}2625 - 0{,}00325 \times H/S) \times (1 - \gamma/2))^{1{,}25} \quad (12)$$

— for aspect ratio 20, see Formula (13):

$$K_s = 1/(1 + 0{,}3 \times (1 - \gamma/2))^{1{,}25} \quad (13)$$

See Table 9.

Table 9 — Compensation of camber angle by camber factor

Camber γ	Camber factor K_s						
	$H/S \geq 50$	$H/S = 45$	$H/S = 40$	$H/S = 35$	$H/S = 30$	$H/S = 25$	$H/S = 20$
2°	1	1	1	1	1	1	1
2° 15′	1,015 8	1,018 5	1,021 1	1,023 7	1,026 4	1,029 1	1,048 9
2° 30′	1,032 2	1,037 6	1,043 0	1,048 5	1,054 1	1,059 7	1,102 4
2° 45′	1,048 9	1,057 3	1,065 8	1,074 4	1,083 1	1,092 0	1,160 9
3°	1,066 2	1,077 7	1,089 5	1,101 4	1,113 6	1,126 1	1,225 3
3° 15′	1,084 0	1,098 9	1,114 1	1,129 7	1,145 7	1,162 2	
3° 30′	1,102 4	1,120 8	1,139 8	1,159 4	1,179 5	1,200 4	
3° 45′	1,121 3	1,143 5	1,166 5	1,190 4	1,215 2	1,240 9	
4°	1,140 8	1,167 0	1,194 4	1,223 0	1,252 8	1,284 0	

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Annex A
(informative)

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.

These tables are provided for convenience. The values shown are calculated from the formulae given in Clause 6. The formulae always prevail in the case of a contradiction.

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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm						Approved rim width codes	
		Section width S	Section height H at H/S (%) of						
			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

NOTE Rims outside the approved range in use from previous designs are not approved for new designs.

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

Nominal section width S_N mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	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
NOTE Rims outside the approved range in use from previous designs are not approved for new designs.					

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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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm			Approved rim width codes	
		Section width S	Section height H at H/S (%) of			
			65	60	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

NOTE Rims outside the approved range in use from previous designs are not approved for new designs.

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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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm			Approved rim width codes	
		Section width S	Section height H at H/S (%) of			
			55	50	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

NOTE Rims outside the approved range in use from previous designs are not approved for new designs.

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

Nominal section width S_N mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	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

NOTE Rims outside the approved range in use from previous designs are not approved for new designs.

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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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm			Approved rim width codes	
		Section width S	Section height H at H/S (%) of			
			40	35	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

NOTE Rims outside the approved range in use from previous designs are not approved for new designs.

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

Nominal section width S_N mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	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

NOTE 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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	min.	max.
265	9,5	271	66	9,0	10,0
275	10,0	283	69	9,5	10,5
285	10,5	295	71	10,0	11,0
295	10,5	301	74	10,0	11,0
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

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Table A.8 *(continued)*

Nominal section width S_N mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	min.	max.
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
NOTE 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 mm	Measuring rim width code R_{mc}	Design tyre dimensions mm		Approved rim width codes	
		Section width S	Section height H	min.	max.
375	13,5	385	75	13,0	14,0
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
NOTE Rims outside the approved range in use from previous designs are not approved for new designs.					

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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-use spare tyres, for light load and standard load (SL) version, with a reference pressure of 420 kPa.

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

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Table B.1 — Load indices for standard load version with a reference pressure of 250 kPa and for reinforced or extra load version with a reference pressure of 290 kPa

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
Nominal aspect ratio 85																														
125	66	70	67	71	69	73	70	74	72	76	73	77	74	78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
135	71	75	72	76	74	78	75	79	76	80	78	82	79	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
145	75	79	76	80	78	82	79	83	81	85	82	86	84	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
155	79	83	81	85	82	86	84	88	85	89	87	91	88	92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
165	83	87	85	89	86	90	88	92	89	93	90	94	91	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
175	87	91	89	93	90	94	92	96	93	97	94	98	95	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	91	95	92	96	94	98	95	99	96	100	97	101	99	103	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
195	94	98	96	100	97	101	98	102	99	103	101	104	102	106	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
205	97	101	99	103	100	104	101	104	103	106	104	108	105	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
215	100	104	101	104	102	106	104	107	105	109	107	111	109	112	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
225	102	105	103	107	105	109	107	110	108	112	110	113	111	115	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
235	104	108	106	110	108	111	110	113	111	115	113	116	114	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
245	107	111	109	112	111	114	112	116	114	116	115	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
255	110	113	112	115	113	116	115	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
265	112	116	114	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
275	115	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
285	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nominal aspect ratio 80																														
115	59	63	60	64	62	66	64	68	65	69	66	70																		
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[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
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	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
285	115	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nominal aspect ratio 75																														
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[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.

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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
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	108	111	[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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nominal aspect ratio 70																														
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	74	78	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]	86	90	87	91	89	93	90	94	91	95	—	—	—	—	—	—	—	—	—	—	—	—	—	—
185	85	89	[c]	[c]	[c]	[c]	89	93	91	95	92	96	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	103	107	[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	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[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.

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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
275	107	111	109	113	111	114	112	116	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Nominal aspect ratio 65																														
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	99	103	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	102	106	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	—	—	—	—	—	—	—	—	—	—	—	—

[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.

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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
315	114	116	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	—	—	—	—	—	—	—	—	—	—	—	—
Nominal aspect ratio 60																														
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	—	—	91	95	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	—	—	96	100	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	101	104	c	c	c	c	c	c	c	c	c	c	109	113	111	114	112	116	—	—	—	—	—	—	—	—
265	—	—	101	105	103	106	105	108	c	c	c	c	c	c	110	114	112	115	113	116	114	116	—	—	—	—	—	—	—	—
275	—	—	104	107	105	109	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	116	116	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	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.

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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
Nominal aspect ratio 55																														
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	—	—	—	—	80	84	82	86	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	—	—	—	—	100	104	[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]	112	116	114	116	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	—	—	—	—	—	—	—	—
Nominal aspect ratio 50																														
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	—	—	—	—

[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.

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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
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	—	—	—	—	84	88	[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	—	—	—	—	89	93	[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]	104	108	[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	113	116	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	116	116	116	116	116	116	—	—	—	—
325	—	—	—	—	110	114	[c]	[c]	113	116	115	116	116	116	116	116	116	116	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	—	—	—	—
Nominal aspect ratio 45																														
165	—	—	—	—	67	71	68	72	70	74	71	75	73	77	74	78	75	79	76	80	77	81	78	82	79	83	—	—	—	—
175	—	—	—	—	70	74	72	76	73	77	75	79	76	80	77	81	78	82	80	84	81	85	82	86	83	87	—	—	—	—
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	—	—	—	—

[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.

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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
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	90	94	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	95	99	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	102	105	[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	111	114	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	—	—	—	—
Nominal aspect ratio 40																														
185	—	—	—	—	70	74	71	75	73	77	74	78	76	80	77	81	78	82	79	83	80	84	81	85	83	87	84	88	85	89
195	—	—	—	—	73	77	75	79	76	80	77	81	79	83	80	84	81	85	82	86	84	88	85	89	86	90	87	91	88	92
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

[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.

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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
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	114	116	115	116	[c]	[c]	[c]	[c]
325	—	—	—	—	104	108	106	109	107	111	109	112	110	113	111	115	112	116	113	116	114	116	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
Nominal aspect ratio 35																														
215	—	—	—	—	—	—	76	80	77	81	79	83	80	84	81	85	83	87	84	88	85	89	86	90	87	91	88	92	89	93
225	—	—	—	—	—	—	79	83	80	84	82	86	83	87	85	89	86	90	87	91	88	92	89	93	90	94	91	95	92	96
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

[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.

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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
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
				Nominal aspect ratio 30																										
245	—	—	—	—	—	—	—	—	—	—	82	86	84	88	85	89	86	90	87	91	88	92	89	93	90	94	92	96	93	97
255	—	—	—	—	—	—	—	—	—	—	85	89	86	90	87	91	88	92	89	93	91	95	92	96	93	97	94	98	95	99
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

[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.

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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
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
Nominal aspect ratio 25																														
265	—	—	—	—	—	—	—	—	—	—	c	c	c	c	c	c	c	c	c	c	c	c	88	92	c	c	c	c	c	c
275	—	—	—	—	—	—	—	—	—	—	c	c	c	c	c	c	c	c	c	c	c	c	c	c	92	96	c	c	94	98
285	—	—	—	—	—	—	—	—	—	—	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c	c
295	—	—	—	—	—	—	—	—	—	—	87	91	89	93	90	94	91	95	92	96	93	97	95	99	96	100	97	101	98	102
305	—	—	—	—	—	—	—	—	—	—	89	93	90	94	92	96	93	97	94	98	95	99	96	100	97	101	98	102	99	103
315	—	—	—	—	—	—	—	—	—	—	91	95	93	97	94	98	95	99	96	100	97	101	98	102	99	103	100	104	101	105
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

[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.

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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
465	—	—	—	—	—	—	—	—	—	—	115	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
Nominal aspect ratio 20																														
375	—	—	—	—	—	—	—	—	—	—	94	98	96	100	97	101	98	102	99	103	100	104	101	105	102	106	103	107	104	108
385	—	—	—	—	—	—	—	—	—	—	96	100	97	101	99	103	100	104	101	104	102	105	103	106	104	108	105	109	106	110
395	—	—	—	—	—	—	—	—	—	—	97	101	99	103	100	104	101	104	102	106	103	107	104	108	106	109	107	110	108	111
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.

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Table B.2 — Load indices for T-type temporary-use spare tyres, for light load and standard load version, with 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
Nominal aspect ratio 95																						
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
Nominal aspect ratio 90																						
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
Nominal aspect ratio 85																						
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

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

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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
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
Nominal aspect ratio 80																						
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
Nominal aspect ratio 75																						
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
Nominal aspect ratio 70																						
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.

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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
Nominal aspect ratio 65																						
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
Nominal aspect ratio 60																						
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
Nominal aspect ratio 55																						
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
Nominal aspect ratio 50																						
95	—	—	—	57	—	59	—	61	—	63	—	64	—	65	57	67	58	68	59	69	61	71

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

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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
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 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
Nominal aspect ratio 45													
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	1008	110	111	113	114	115	116	116	116	116	—	—
Nominal aspect ratio 40													
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

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Table B.3 *(continued)*

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
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	104	105	107	108	109	111	113	114
335	100	101	103	104	106	107	107	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
Nominal aspect ratio 35													
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
Nominal aspect ratio 30													
255	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	87	[a]	[a]
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

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Table B.3 *(continued)*

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
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
Nominal aspect ratio 25													
265	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	85	[a]	[a]	[a]
275	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	88	[a]	90
285	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
295	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
305	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
315	—	—	—	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]	[a]
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
Nominal aspect ratio 20													
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

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Table B.3 *(continued)*

Nominal section width	Nominal rim diameter code												
	14	15	16	17	18	19	20	21	22	23	24	25	26
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.

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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
84	385	400	420	435	450	470	485	500
85	395	415	430	450	465	480	500	515

NOTE 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.

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