
Code designated diagonal tyres (ply rating marked series) for agricultural tractors, trailers and machines —

**Part 2:
Tyre load ratings**

Pneumatiques diagonaux à désignation dimensionnelle par code (séries à marquage équivalent nappes "ply rating") pour tracteurs, remorques et machines agricoles —

Partie 2: Capacités de charge des pneumatiques



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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 ISO/TC 31, *Tyres, rims and valves*, SC 5, *Agricultural tyres and rims*.

This eighth edition cancels and replaces the seventh edition (ISO 4251-2:2017) which has been technically revised. The main changes compared to the previous edition are as follows:

- information already contained in other International Standards was removed and replaced with normative references to those standards;
- radial tyres marked with ply rating and with reference speed of 10 km/h were deleted since obsolete and this document was restricted to code designated diagonal tyres (marked with PR) for agricultural tractors trailers and machines;
- the title of this document was revised accordingly;
- the document was aligned with other International Standards developed by SC 5 and with existing regulations;
- equivalence of tyre load carrying capacities in case of tyre marked with speed symbol A6 (corresponding to previous load carrying capacities of tyres marked with PR only) and that of tyres marked with speed symbol A8 was introduced, together with the possibility of a double marking (supplementary service description);
- load variations with speed and for specific applications were added;
- some additional PR versions were added with the corresponding markings of the service description.

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.

Code designated diagonal tyres (ply rating marked series) for agricultural tractors, trailers and machines —

Part 2: Tyre load ratings

1 Scope

This document establishes the load ratings of the diagonal code designated (ply rating marked series) tyres for agricultural tractors, trailers and machines.

Tyre designation and dimensions, and approved rim contours are given in ISO 4251-1.

NOTE Code designated diagonal tyres (ply rating marked series) for construction applications (industrial tractors), identified by the classification code R-4, as specified in ISO 18805, or by suffix "IND" are part of ISO 13442.

Code designated diagonal tyres (ply rating marked series) for forestry machines, identified by the classification code LS, as specified in ISO 18805, are covered by ISO 18807.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Terms and definitions

For the purposes of this document the terms and definitions given in 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

ply rating

index of tyre strength

Note 1 to entry: It does not necessarily represent the number of cord plies in the tyre.

3.2

supplementary service description

additional service description marked within a circle, to identify a special type of service (load rating and speed category) to which the tyre size is also allowed in addition to the applicable load variation with speed

Note 1 to entry: [Tables A.2, A.4](#) and [A.6](#) shall not apply to the supplementary service description.

Note 2 to entry: See [Figure 1](#) for an example.

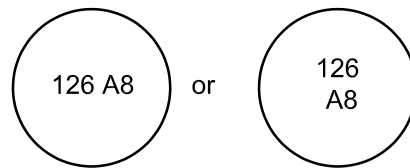


Figure 1 — Supplementary service description

3.3

cyclic loading application

condition that applies when the load on the tyre cycles between the unloaded and the fully loaded condition

Note 1 to entry: The vehicle shall be unloaded before off-field transport.

3.4

hillside combine

combine intended for service on slopes above 11° (20 %) lateral slope

Note 1 to entry: See [Figure 2](#).

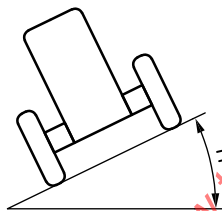


Figure 2 — Vehicle operating on a lateral slope of 11°

3.5

low torque

condition applying when the primary torque involved is that to propel the vehicle

Note 1 to entry: Vehicles pulling carts or trailers are considered to be operating in a low torque mode when operating on slopes up to 11° (20 %) lateral slope.

3.6

high and sustained torque

condition that occurs when high continuous tractive effort is applied to the drawbar or hitch

Note 1 to entry: Vehicles equipped with injectors, or any other ground engaging attachment (e.g. ploughing) or dragging objects, are considered to be operating in a high and sustained torque mode. Vehicles pulling carts or trailers are also considered to be operating in a high torque mode when operating on slopes greater than 11° (20 %) slope.

3.7

road transport

movement of a vehicle from one location to another under non-working conditions

Note 1 to entry: This movement occurs during transportation or transfer of equipment from site to site.

3.8

drive wheel tyre

tyre designed primarily for the equipment of driven axles of agricultural machinery, excluding sustained high torque services

Note 1 to entry: This is the generic term used in this document for implement drive wheel or traction tyres.

3.9**free rolling tyre**

tyre designed for the equipment of non-driven (trailed) axles of agricultural machinery or trailers

Note 1 to entry: This is the generic term used in this document for implement free rolling or trailer tyres.

3.10**mixed applications tyre**

tyre designed to be fitted to either driven and non-driven (trailed) axles of agricultural machinery or trailers

Note 1 to entry: This is the generic term used in this document for implement mixed application tyres.

4 Tyre markings**4.1 General**

Marking of code designated tyres in diagonal construction consists of the tyre size designation, the load rating, the service description and any other additional information.

4.2 Tyre size designation and additional information

For tyre size designation and additional information, see ISO 4251-1.

4.3 Load rating

The marking of load rating comprises the ply rating (PR).

EXAMPLE 13.6 – 28 8PR

4.4 Service description**4.4.1 General**

The marking of the service description consists of a load index and a speed symbol. It is optional but can be required by regional regulations.

4.4.2 Agricultural tractor drive wheel tyres

When marked with the service description, the marking on the tyre sidewalls shall be as per one of the examples below thus granting equivalent load carrying capacities at the various speeds:

EXAMPLES

- 14.9-28 8PR 130A6, or
- 14.9-28 8PR 126A8, or
- 14.9-28 8PR 130A6 (126A8), or
- 14.9-28 8PR 126A8 (130A6)

The optional supplementary service description (shown in parentheses in the above examples) is to be marked inside a circle. Only one supplementary service description, if any, is allowed on the tyre sidewalls.

4.4.3 Agricultural tractor steering wheel tyres

When marked with the service description, the marking on the tyre sidewalls shall be as per one of the examples below:

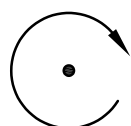
EXAMPLES

- 6.50-16 6PR 91A6, or
- 6.50-16 6PR 88A6, or
- 6.50-16 6PR 91A6 (88A8), or
- 6.50-16 6PR 88A8 (91A6)

The optional supplementary service description (shown in parentheses in the above examples) is to be marked inside a circle. Only one supplementary service description, if any, is allowed on the tyre sidewalls.

4.4.4 Agricultural implement tyres

When the basic tyre load refers to the type of service (free rolling or drive wheel), the relevant service description shall be supplemented by the following symbol:



for drive wheel/traction tyre

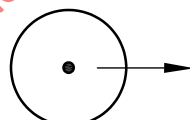


for free rolling/trailer tyre

EXAMPLES 10.5/80-18 10PR 119 A6



10.5/80-18 10PR 131 A6



In case of tyres suitable for “mixed applications” (i.e. both drive and free rolling wheels), both markings apply.

5 Tyre loads

5.1 Agricultural tractor drive wheel tyres

5.1.1 General

Basic tyre loads for tyres used as singles and relevant reference inflation pressures shall be as given in [Table A.1](#).

In the absence of the marking of the service description (load index and speed symbol), the basic tyre loads (BTL) for reference speed 30 km/h and the relevant load/speed relationship of [Table A.2](#) column A6 apply.

When used as duals, basic tyre loads shall be reduced: multiply values in the table by 0,88.

When used as triples, basic tyre loads shall be reduced: multiply values in table by 0,82.

Tyre loads at different speeds (load/speed relationship) shall be as given in [Table A.2](#).

5.1.2 Tyres marked with a supplementary service description

[Table 1](#) shows, as an example, the tyre load carrying capacities at various service speeds for tyre size 13.6 - 28 8PR at 190 kPa in the case where it is marked with a supplementary service description, compared to the case where no service description is marked on the tyre.

Table 1 — Tyre size 13.6- 28 8PR at 190 kPa

Service speed km/h	Service description			
	125 A6	122 A8	125 A6 (122 A8)	122 A8 (125 A6)
	Tyre load carrying capacities kg			
15	2 145	1 995	2 145	1 995
25	1 765	1 830	1 765	1 830
30	1 650	1 665	1 650	(1 650)
40	1 485	1 500	(1 500)	1 500

[Table A.2](#) does not apply to the supplementary service description.

Values shown in parentheses correspond to the supplementary service description.

5.1.3 Tractor drive wheel tyres on combine harvesters

On combine harvesters in cyclic loading application, except hillside combines, a load of up to 170 % of the basic tyre loads given in [Table A.1](#) is permitted for speeds up to 10 km/h with an inflation pressure increase of approximately 30 % (consult tyre manufacturers). This load increase shall include all possible field and user modifications that increase vehicle mass. The vehicle shall be unloaded before off-field transport.

The wheel and rim manufacturers shall be consulted concerning the strength of the wheels.

For tyre load and inflation pressure recommendations for combine harvesters in transport service, the tyre manufacturer shall be consulted.

5.2 Agricultural tractor steering wheel tyres

5.2.1 General

Basic tyre loads and their corresponding reference inflation pressures shall be as given in [Table A.3](#).

In the absence of the marking of the service description (load index and speed symbol), the basic tyre loads (BTL) for reference speed 30 km/h and the relevant load/speed relationship of [Table A.4](#) column A6 apply.

Tyre loads at different speeds (load speed relationship) shall be as given in [Table A.4](#),

5.2.2 Tyres marked with additional service description

[Table 2](#) shows, as an example, the tyre load carrying capacities at various service speeds for tyre size 6.00-16 6 PR at 340 kPa in the case where it is marked with a supplementary service description, compared to the case where no service description is marked on the tyre.

Table 2 — Tyre size 6.00-16 6 PR at 340 kPa

Service speed km/h	Service description			
	88 A6	85 A8	88 A6 (85 A8)	85 A8 (88 A6)
	Tyre load carrying capacities kg			
15	800	775	800	775
20	755	715	755	715
25	645	660	645	660
30	560	570	560	(560)
40	450	515	(515)	515

Values shown in parentheses correspond to the supplementary service description.

[Table A.4](#) does not apply to the supplementary service description.

5.2.3 Tractor steering wheel tyres on combine harvesters

On combine harvesters in cyclic loading application, except hillside combines, a load of up to 150 % of the basic tyre loads given in [Table A.3](#) is permitted for speeds up to 10 km/h. This load increase shall include all possible field and user modifications that increase vehicle mass. The vehicle shall be unloaded before off-field transport.

The wheel and rim manufacturers shall be consulted concerning the strength of the wheel.

5.3 Agricultural implement tyres

Basic tyre loads at a maximum speed of 30 km/h and their corresponding reference inflation pressures shall be as given in [Table A.5](#).

In the absence of the marking of the service description (load index and speed symbol), the basic tyre loads (BTL) for reference speed 30 km/h and the relevant load/speed relationship of [Table A.6](#) column A6 apply.

When used as duals, basic tyre loads shall be reduced: multiply values in the table by 0,88.

Tyre loads at different speeds (load speed relationship) shall be as given in [Table A.6](#).

5.4 Other tyre types

Basic tyre loads of formerly standardized tyres with nominal rim diameter codes 15.3 or 16.1 and tyres for small tractors shall be as given in [Annex B](#).

Annex A (normative)

Basic tyre loads (BTL) for tyres used as singles at reference inflation pressures (IP) and Tyre loads at different speeds (load/speed relationship)

Table A.1 — Agricultural drive wheel tyres (road transport, low torque)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
8.3 - 16	4 PR	81	462	78	425	150
	6 PR	90	600	87	545	230
8.3 - 24	4 PR	92	630	88	560	160
	6 PR	100	800			230
8.3 - 36	6 PR	107	975			230
	8 PR	113	1 150			320
8.3 - 38	6 PR	108	1 000			230
	8 PR	114	1 180			320
8.3 - 42	6 PR	111	1 090			230
	8 PR	117	1 285			320
8.3 - 44	6 PR	111	1 090			230
	8 PR	117	1 285			320
9.5 - 16	4 PR	88	560	84	500	140
	6 PR	96	710	92	630	210
9.5 - 22	4 PR			92	630	140
	8 PR	106	950			280
9.5 - 24	4 PR	97	730	94	670	140
	6 PR	106	950	102	850	210
	8 PR			108	1 000	280
9.5 - 32	4 PR	102	850	98	750	140
	6 PR	110	1 060	106	950	210
	8 PR	116	1 250			280
9.5 - 36	4 PR	104	900	100	800	140
	6 PR	112	1 120	109	1 030	210
	8 PR	118	1 320			280
9.5 - 38	6 PR	113	1 150			210
	8 PR	119	1 360			280

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
9.5 - 42	6 PR	115	1 215	111	1 090	210
	8 PR	121	1 450			280
9.5 - 44	6 PR	116	1 250			210
	8 PR	122	1 500			280
9.5 - 48	6 PR	118	1 320			210
	8 PR	123	1 550			280
11.2 - 20	6 PR	105	925			180
	8 PR	112	1 120			250
11.2 - 24	4 PR	102	850	98	750	130
	6 PR	110	1 060	106	950	180
	8 PR	116	1 250	113	1 150	240
	10 PR	120	1 400			300
11.2 - 28	4 PR	104	900	100	800	130
	6 PR	112	1 120	108	1 000	180
	8 PR	118	1 320			240
11.2 - 36	4 PR	109	1 030	105	925	130
11.2 - 38	4 PR	110	1 060	106	950	130
	6 PR	117	1 285	108	1 000	180
11.2 - 42	6 PR	119	1 360			180
	8 PR	125	1 650			250
12.4 - 16	4 PR			93	650	110
	8 PR	111	1 090	107	975	220
	12 PR	119	1 360	116	1 250	330
12.4 - 24	4 PR	106	950	102	850	110
	6 PR	115	1 215	111	1 090	170
	8 PR	120	1 400	117	1 285	230
	12 PR	128	1 800	124	1 600	330
12.4 - 28	4 PR	109	1 030	104	900	110
	6 PR	117	1 285	113	1 150	170
	8 PR	123	1 550	119	1 360	230
12.4 - 32	4 PR	111	1 090			110
	6 PR	119	1 360	115	1 215	170
	8 PR	124	1 600			230
	10 PR	128	1 800			280

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
12.4 - 36	4 PR	113	1 150	109	1 030	110
	6 PR	121	1 450	117	1 285	170
	8 PR	126	1 700			230
	10 PR			127	1 750	280
	12 PR	135	2 180	131	1 950	330
12.4 - 38	4 PR	114	1 180	110	1 060	110
	6 PR	122	1 500	118	1 320	170
	8 PR	127	1 750	124	1 600	230
	14 PR			135	2 180	390
12.4 - 42	4 PR	115	1 215	112	1 120	110
	6 PR	123	1 550	120	1 400	170
	10 PR			130	1 900	280
12.4 - 46	6 PR	125	1 650			170
	8 PR	131	1 950			220
13.6 - 16	4 PR	100	800	96	710	100
	6 PR	109	1 030	105	925	150
	8 PR	114	1 180	110	1 060	190
13.6 - 24	4 PR	109	1 030	105	925	100
	6 PR	118	1 320	115	1 215	160
	8 PR	123	1 550	120	1 400	200
	10 PR	128	1 800			250
13.6 - 26	6 PR	120	1 400	116	1 250	160
13.6 - 28	4 PR	112	1 120	108	1 000	100
	6 PR	121	1 450	117	1 285	160
	8 PR	125	1 650	122	1 500	200
	10 PR	130	1 900	126	1 700	250
	12 PR	134	2 120	130	1 900	290
13.6 - 36	4 PR	116	1 250	112	1 120	100
	6 PR	125	1 650	121	1 450	160
	8 PR	129	1 850	125	1 650	200
	10 PR	134	2 120			250
13.6 - 38	4 PR	117	1 285	113	1 150	100
	6 PR	126	1 700	122	1 500	160
	8 PR	131	1 950	126	1 700	200
	10 PR	136	2 240			250
13.6 - 46	6 PR	129	1 850	125	1 650	150
	8 PR	134	2 120	130	1 900	190

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
13.6 - 48	6 PR	130	1 900			150
	8 PR	135	2 180			190
14.9 - 24	4 PR	112	1 120			80
	6 PR	123	1 550	119	1 360	140
	8 PR	128	1 800	124	1 600	180
	10 PR	132	2 000			230
	12 PR			132	2 000	260
14.9 - 26	6 PR	124	1 600	120	1 400	140
	8 PR	129	1 850			180
	10 PR	133	2 060	129	1 850	230
14.9 - 28	4 PR	115	1 215			110
	6 PR	125	1 650	121	1 450	140
	8 PR	130	1 900	126	1 700	180
	10 PR	134	2 120	130	1 900	230
	12 PR	138	2 360	134	2 120	260
14.9 - 30	6 PR	126	1 700	122	1 500	140
	8 PR	131	1 950	127	1 750	180
	10 PR	135	2 180	131	1 950	230
14.9 - 38	6 PR	129	1 850	126	1 700	140
	8 PR	135	2 180			180
	10 PR	139	2 430			230
	14 PR			143	2 725	320
15.5 - 38	6 PR	127	1 750	124	1 600	140
	8 PR	133	2 060	129	1 850	180
	10 PR	137	2 300			230
16.9 - 24	6 PR	126	1 700	123	1 550	130
	8 PR	133	2 060	129	1 850	170
	10 PR	136	2 240	132	2 000	200
	12 PR	140	2 500	136	2 240	230
16.9 - 26	6 PR	128	1 800	124	1 600	130
	8 PR	134	2 120			170
	10 PR	137	2 300	133	2 060	200
16.9 - 28	6 PR	129	1 850	125	1 650	130
	8 PR	135	2 180	131	1 950	170
	10 PR	139	2 430	134	2 120	200
	12 PR	143	2 725			240

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
16.9 - 30	6 PR	130	1 900	126	1 700	130
	8 PR	137	2 300	132	2 000	170
	10 PR	140	2 500	136	2 240	200
	12 PR	143	2 725	140	2 500	230
	14 PR			143	2 725	280
16.9 - 34	6 PR	133	2 060	128	1 800	130
	8 PR	139	2 430	134	2 120	170
	10 PR	142	2 650	138	2 360	200
16.9 - 38	6 PR	135	2 180	130	1 900	130
	8 PR	141	2 575	136	2 240	170
	10 PR	143	2 725			200
18.4 - 24	6 PR	131	1 950	127	1 750	110
	8 PR	135	2 180	132	2 000	140
	10 PR	141	2 575	137	2 300	180
	12 PR	145	2 900	141	2 575	220
18.4 - 26	6 PR	132	2 000	128	1 800	110
	8 PR	137	2 300	133	2 060	140
	10 PR	142	2 650	138	2 360	160
	10 PR	142	2 650	138	2 360	180
18.4 - 28	6 PR	133	2 060	129	1 850	110
	8 PR	138	2 360	134	2 120	140
	10 PR	143	2 725	139	2 430	180
	12 PR	147	3 075	144	2 800	220
18.4 - 30	6 PR	134	2 120	130	1 900	110
	8 PR	139	2 430	135	2 180	140
	10 PR	145	2 900	140	2 500	180
	12 PR	149	3 250	145	2 900	230
	14 PR			147	3 075	260
18.4 - 34	6 PR	137	2 300	132	2 000	110
	8 PR	142	2 650	137	2 300	140
	10 PR	146	3 000	143	2 725	180
	12 PR	151	3 450	147	3 075	230
	14 PR	153	3 650			260
18.4 - 38	6 PR	139	2 430	134	2 120	110
	8 PR	143	2 725	139	2 430	140
	10 PR	146	3 000	145	2 900	180
	12 PR	152	3 550	149	3 250	230
	14 PR			151	3 450	250

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
18.4 - 42	8 PR	145	2 900	141	2 575	140
	10 PR	150	3 350	146	3 000	180
	12 PR	154	3 750			230
	14 PR			153	3 650	250
18.4 - 46	6 PR	142	2 650			110
	8 PR	146	3 000			140
	14 PR			155	3 875	250
20.8 - 34	8 PR	145	2 900	142	2 650	130
	10 PR	149	3 250	146	3 000	160
	12 PR	154	3 750			200
20.8 - 38	8 PR	148	3 150	144	2 800	130
	10 PR	151	3 450	148	3 150	160
	12 PR	156	4 000	152	3 550	200
	14 PR			155	3 875	220
20.8 - 42	10 PR	153	3 650	150	3 350	160
	12 PR	156	4 000			200
	14 PR			157	4 125	220
23.1 - 26	8 PR	145	2 900	141	2 575	110
	10 PR	149	3 250	145	2 900	140
	12 PR	153	3 650	149	3 250	170
	14 PR	156	4 000	152	3 550	200
23.1 - 30	8 PR	146	3 000	143	2 725	110
	10 PR	151	3 450	147	3 075	140
	12 PR	155	3 875	151	3 450	170
23.1 - 34	8 PR	149	3 250	145	2 900	110
	10 PR	153	3 650	150	3 350	140
	12 PR	157	4 125			170
24.5 - 32	10 PR	156	4 000	152	3 550	140
	12 PR	159	4 375	156	4 000	170
	14 PR			159	4 375	190
	16 PR	165	5 150	160	4 500	210
Low section tyres						
17.5L - 24	6 PR	123	1 550	120	1 400	110
	8 PR	129	1 850	125	1 650	150
	10 PR	134	2 120	130	1 900	190
19.5L - 24	8 PR	134	2 120	130	1 900	140
	10 PR	138	2 360	134	2 120	170
	12 PR	142	2 650	138	2 360	210
^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies. ^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.						

Table A.1 (continued)

Tyre size designation	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^a		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^b kg	Load index (LI)	Basic tyre load (BTL) ^b kg	
21L - 24	10 PR	141	2 575	137	2 300	150
	12 PR	146	3 000	142	2 650	190
	16 PR			147	3 075	250
	18 PR	151	3 450			250
21L - 28	10 PR			140	2 500	150
	12 PR			145	2 900	190
	14 PR			147	3 075	220
28L - 26	10 PR	151	3 450	148	3 150	120
	12 PR	154	3 750	150	3 350	140
	14 PR	158	4 250	154	3 750	170
	16 PR	159	4 375	157	4 125	190
30.5L - 32	10 PR			154	3 750	110
	12 PR	162	4 750	158	4 250	140
	14 PR			160	4 500	150
	16 PR			164	5 000	180
VA30.5L - 32	16 PR			164	5 000	180
VA35.5L - 32	12 PR			164	5 000	110
	20 PR	179	7 750	175	6 900	190
DH35.5L - 32	16 PR			170	6 000	150

^a In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.2 — Agricultural tractor drive wheel tyres — Tyre loads at different speeds (load/speed relationship)

Maximum speed ^a km/h	Maximum tyre load ^b %	
	Speed symbol A6 ^c	Speed symbol A8
10 ^d	140	—
15	130	133
20	120	—
25	107	122
30 ^e	100	111
35	95	—
40	90	100

^a The values given for the maximum tyre load also apply when drive wheel traction tyres are fitted on the front axles (steering wheels).

^b Expressed as a percentage of the basic tyre loads given in Table A.1.

^c In case of tyres without the marking of the service description, this column A6 applies.

^d This applies to drive wheel tractor tyres fitted on front-end loaders used in intermittent service. Tyre inflation pressure shall be increased by 30 kPa for operating at these overloads.

^e These percentages apply also for field application with high and sustained torque.

Table A.3 — Agricultural tractor steering wheel tyres (road transport, low torque)

Tyre size designation ^a	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^b		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^c kg	Load index (LI)	Basic tyre load (BTL) ^c kg	
4.00 - 12	4 PR	60	250	56	224	340
4.00 - 15	4 PR	66	300	62	265	340
4.00 - 16	2 PR	69	325			340
4.00 - 19	2 PR	72	355			340
	4 PR			69	325	360
4.50 - 16	4 PR	73	365			310
	6 PR	81	462			450
4.50 - 19	4 PR	75	387			310
	6 PR	83	487			450
5.00 - 15	4 PR	73	365	69	325	280
	6 PR	81	462	76	400	420
	8 PR			82	475	550
5.00 - 16	4 PR	75	387			280
5.50 - 16	2 PR	78	425			250
	4 PR			75	387	280
	6 PR	85	515	82	475	370
6.00 - 14	6 PR	85	515	81	462	360
6.00 - 16	4 PR	80	450	77	412	230
	6 PR	88	560	85	515	340
	8 PR	94	670	91	615	450
6.00 - 19	4 PR	85	515			230
	6 PR	93	650	89	580	330
6.00 - 20	6 PR	94	670			330
6.50 - 16	4 PR	85	515	81	462	230
	6 PR	91	615	88	560	310
	8 PR	97	730			420
6.50 - 20	4 PR	90	600			230
	6 PR	97	730	93	650	310
	8 PR	103	875			420
7.50 - 16	4 PR	91	615			200
	6 PR	98	750	94	670	280
	8 PR	103	875	99	775	370
7.50 - 18	4 PR	94	670			200
	6 PR	101	825	97	730	280
	8 PR	106	950	102	850	370

^a Regional regulations impose the marking of either the word "FRONT" (e.g. 8.00-16 FRONT) or the classification codes F-1 or F-2.

^b In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^c Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.3 (continued)

Tyre size designation ^a	Ply rating	Reference speed 30 km/h (Speed symbol A6) ^b		Reference speed 40 km/h (Speed symbol A8)		Inflation pressure (IP) kPa
		Load index (LI)	Basic tyre load (BTL) ^c kg	Load index (LI)	Basic tyre load (BTL) ^c kg	
7.50 - 20	4 PR			92	630	220
	6 PR	103	875	99	775	280
	8 PR	109	1 030	105	925	340
8.00 - 16	10 PR			109	1 030	470
	6 PR	99	775	95	690	280
9.00 - 16	10 PR	109	1 030	105	925	440
	6 PR	104	900			230
	8 PR	111	1 090			310
9.50 - 20	10 PR	116	1 250	111	1 090	390
10.00 - 16	6 PR	107	975	103	875	200
	8 PR	115	1 215	110	1 060	280
	10 PR	119	1 360			340
11.00 - 16	6 PR	113	1 150	109	1 030	200
	8 PR	118	1 320	114	1 180	250
	10 PR	122	1 500			310
	12 PR			123	1 550	410
11.00 - 20	8 PR	122	1 500	119	1 360	280
	10 PR	126	1 700	123	1 550	330
	12 PR	131	1 950	127	1 750	410
11.00 - 24	8 PR	126	1 700	123	1 550	280
	10 PR			127	1 750	330
	12 PR	131	1 950	132	2 000	410
Low section tyres						
7.5L - 15	6 PR	96	710	93	650	300
9.5L - 15	6 PR	99	775	95	690	250
	8 PR	105	925	102	850	330
11L - 15	6 PR	103	875	99	775	220
	8 PR	112	1 120	106	950	300
	10 PR			110	1 060	360
11L - 16	8 PR			108	1 000	300
	10 PR	116	1 250	112	1 120	360
	12 PR	120	1 400	116	1 250	440

^a Regional regulations impose the marking of either the word "FRONT" (e.g. 8.00-16 FRONT) or the classification codes F-1 or F-2.

^b In case of tyres without the marking of the service description basic tyre load for reference speed 30 km/h applies.

^c Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.4 — Agricultural steering wheels — Tyre loads at different speeds (load/speed relationship)

Maximum speed km/h	Maximum tyre load ^a %	
	Speed symbol A6 ^b	Speed symbol A8
With front-end loaders: 10 ^c	200	200
10	150	167
15	143	150
20	135	139
25	115	128
30	100	111
35	90	104
40	80	100

^a Expressed as a percentage of the basic tyre loads given in [Table A.3](#).

^b In case of tyres without the marking of the service description, this column A6 applies.

^c This applies to steering wheel tractor tyres of 6 PR and more fitted on front axles when front-end loaders are used in agricultural intermittent service for short distances (100 m maximum). Tyre inflation pressure shall be increased by 30 kPa for operating at these overloads.

Table A.5 — Agricultural implement tyres — Basic tyre loads (BTL) at a reference speed of 30 km/h (Speed symbol A6) (road transport, low torque)

Tyre size designation ^a	Ply rating	Free rolling		Drive wheel		Inflation pressure (IP) kPa
		LI	BTL ^b kg	LI	BTL ^b kg	
2.50 – 8	2 PR	28	100	16	71	225
3.00 – 4	2 PR	16	71	4	50	175
3.00 – 8	2 PR	32	112	20	80	200
3.50 – 6	2 PR	32	112	20	80	150
	4 PR	45	165	33	115	300
3.50 – 8	2 PR	38	132	25	93	150
4.00 – 4	2 PR	30	106	18	75	150
	4 PR	43	155	31	109	275
4.00 – 8	2 PR	43	155	31	109	150
	4 PR	57	230	44	160	275
	6 PR	65	290	53	206	425
4.00 – 9	4 PR	65	290	53	206	300
4.00 – 10	2 PR	49	185	37	128	150
	4 PR	62	265	49	185	275
4.00 – 12	2 PR	54	212	42	150	150
	4 PR	66	300	54	212	275
	6 PR	75	387	63	272	425
4.00 – 15	4 PR	72	355	60	250	275
4.00 – 18	2 PR	67	307	55	218	170
	4 PR	81	462	69	325	300
4.50 – 19	2 PR	66	300	54	212	125

^a Regional regulations impose the marking of either a suffix "IMP" (e.g. 8.25-16 IMP) or of the word "IMPLEMENT".

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.5 (continued)

Tyre size designation ^a	Ply rating	Free rolling		Drive wheel		Inflation pressure (IP) kPa
		LI	BTL ^b kg	LI	BTL ^b kg	
5.00 – 12	2 PR	61	257	48	180	125
	4 PR	74	375	62	265	225
5.00 – 14	4 PR	73	365	61	257	225
5.00 – 15	2 PR	68	315	55	218	125
	4 PR	79	437	67	307	225
	6 PR	88	560	75	387	350
5.50 – 16	4 PR	84	500	72	355	200
5.90 – 15	4 PR	83	487	71	345	200
6.00 – 9	2 PR	63	272	50	190	100
6.00 – 16	2 PR	80	450	68	315	125
	4 PR	89	580	77	412	200
	6 PR	95	690	83	487	275
	8 PR	103	875	91	615	400
6.40 – 15	4 PR	88	560	76	400	200
	6 PR	94	670	82	475	275
6.50 – 16	2 PR	84	500	72	355	125
	4 PR	93	650	80	450	200
	6 PR	99	775	87	545	275
	8 PR	105	925	93	650	375
6.70 – 15	4 PR	94	670	82	475	220
	6 PR	101	825	89	580	300
7.00 – 12	4 PR	88	560	75	387	175
	6 PR	95	690	83	487	250
7.00 – 16	4 PR	95	690	83	487	175
	6 PR	101	825	89	580	250
	8 PR	108	1 000	96	710	350
7.00 – 19	6 PR	103	875	91	615	250
7.50 – 10	4 PR	94	670	82	475	250
	6 PR	107	975	95	690	400
	8 PR	111	1 090	99	775	500
7.50 – 14	4 PR	96	710	84	500	190
7.50 – 16	2 PR	88	560	75	387	100
	4 PR	96	710	84	500	150
	6 PR	104	900	92	630	225
	8 PR	112	1 120	99	775	325
	10 PR	116	1 250	103	875	400
	12 PR	121	1 450	109	1 030	500
7.50 – 18	2 PR	89	580	77	412	100
	4 PR	97	730	85	515	150
	6 PR	106	950	94	670	225

^a Regional regulations impose the marking of either a suffix "IMP" (e.g. 8.25-16 IMP) or of the word "IMPLEMENT".

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.5 (continued)

Tyre size designation ^a	Ply rating	Free rolling		Drive wheel		Inflation pressure (IP) kPa
		LI	BTL ^b kg	LI	BTL ^b kg	
7.50 – 20	4 PR	99	775	87	545	150
	6 PR	107	975	95	690	225
	8 PR	116	1 250	103	875	325
	10 PR	120	1 400	107	975	400
7.50 – 24	4 PR	101	825	89	580	160
	8 PR	117	1 285	104	900	325
7.60 – 15	4 PR	97	730	85	515	190
	6 PR	105	925	93	650	280
	8 PR	111	1 090	99	775	360
8.25 – 16	4 PR	103	875	91	615	160
	6 PR	110	1 060	98	750	230
9.00 – 10	4 PR	99	775	87	545	170
	10 PR	117	1 285	104	900	360
9.00 – 16	8 PR	118	1 320	105	925	275
	10 PR	121	1 450	109	1 030	325
9.00 – 24	6 PR	121	1 450	109	1 030	190
	8 PR	129	1 850	117	1 265	280
10.00 – 12	6 PR	107	975	95	690	200
10.00 – 15	8 PR	121	1 450	109	1 030	240
11.00 – 16	6 PR	122	1 500	110	1 060	175
11.25 – 24	8 PR	129	1 850	117	1 285	200
11.25 – 28	8 PR	131	1 950	119	1 360	200
	10 PR	136	2 240	123	1 550	260
Low section tyres						
5.5/85 – 9	8 PR	93	650	—	—	500
13.5/85 – 28	10 PR	151	3 450	139	2 430	280
16.5/85 – 24	8 PR	154	3 750	142	2 650	190
	14 PR	165	5 150	153	3 650	330
16.5/85 – 28	10 PR	159	4 375	147	3 075	230
6.5/80 – 12	2 PR	71	345	59	243	120
	4 PR	82	500	72	355	240
	6 PR	93	650	80	450	360
6.5/80 – 15	2 PR	76	400	64	280	120
	4 PR	90	600	78	425	240
10.0/80 – 12	4 PR	101	825	89	580	150
	6 PR	110	1 060	98	750	230
	8 PR	116	1 250	103	875	310
10.5/80 – 18	6 PR	121	1 450	109	1 030	220
	8 PR	127	1 750	115	1 215	300
	10 PR	131	1 950	119	1 360	370

^a Regional regulations impose the marking of either a suffix "IMP" (e.g. 8.25-16 IMP) or of the word "IMPLEMENT".

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.5 (continued)

Tyre size designation ^a	Ply rating	Free rolling		Drive wheel		Inflation pressure (IP) kPa
		LI	BTL ^b kg	LI	BTL ^b kg	
12.5/80 – 18	6 PR	128	1 800	116	1 250	190
	8 PR	134	2 120	122	1 500	250
	10 PR	139	2 430	126	1 700	310
	12 PR	142	2 650	129	1 850	370
	14 PR	146	3 000	134	2 120	430
	16 PR	148	3 150	135	2 180	490
15.5/80 – 24	10 PR	154	3 750	142	2 650	250
	12 PR	157	4 125	145	2 900	300
	14 PR	160	4 500	148	3 150	350
19.5/80 – 20	12 PR	163	4 875	151	3 450	240
21.0/80 – 20	8 PR	158	4 250	146	3 000	150
	12 PR	167	5 450	155	3 875	220
13.0/75 – 16	10 PR	135	2 180	123	1 550	300
14.5/75 – 20	8 PR	140	2 500	127	1 750	220
9.0/70 – 16	10 PR	119	1 360	106	950	440
11.5/70 – 16	14 PR	135	2 180	123	1 550	480
11.5/70 – 18	14 PR	138	2 360	125	1 650	480
15.0/70 – 18	8 PR	137	2 300	124	1 600	210
	10 PR	141	2 575	128	1 800	260
	12 PR	145	2 900	133	2 060	310
	14 PR	148	3 150	135	2 180	360
16.0/70 – 20	8 PR	142	2 650	129	1 850	200
	10 PR	147	3 075	135	2 180	250
	12 PR	151	3 450	139	2 430	300
	14 PR	154	3 750	142	2 650	350
	16 PR	156	4 000	144	2 800	400
20.0/70 – 20	12 PR	160	4 500	148	3 150	230
	16 PR	166	5 300	154	3 750	320
	20 PR	170	6 000	158	4 250	390
10.5/65 – 16	8 PR	119	1 360	106	950	300
	10 PR	123	1 550	111	1 090	380
	12 PR	126	1 700	114	1 180	450
	14 PR	130	1 900	118	1 320	530
12.0/75 – 18	6 PR	123	1 550	111	1 090	190
	8 PR	130	1 900	118	1 320	260
	10 PR	135	2 180	123	1 550	330
11.0/65 – 12	4 PR	99	775	87	545	140
	6 PR	114	1 180	141	825	190
	10 PR	119	1 360	106	950	360

^a Regional regulations impose the marking of either a suffix "IMP" (e.g. 8.25-16 IMP) or of the word "IMPLEMENT".

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.

Table A.5 (continued)

Tyre size designation ^a	Ply rating	Free rolling		Drive wheel		Inflation pressure (IP) kPa
		LI	BTL ^b kg	LI	BTL ^b kg	
13.0/65 – 18	6 PR	123	1 550	111	1 090	180
	8 PR	129	1 850	117	1 285	240
	10 PR	134	2 120	122	1 500	300
	12 PR	138	2 360	125	1 650	360
	14 PR	141	2 575	128	1 800	430
	16 PR	144	2 800	131	1 950	490
14.0/65 – 16	8 PR	130	1 900	118	1 320	230
	10 PR	134	2 120	122	1 500	280
	14 PR	142	2 650	129	1 850	400
15.0/55 – 17	6 PR	124	1 600	112	1 120	160
	8 PR	129	1 850	117	1 285	210
	10 PR	134	2 120	122	1 500	260
	12 PR	138	2 360	125	1 650	310
19.0/45 – 17	10 PR	138	2 360	125	1 650	225
	14 PR	144	2 800	131	1 950	280
7.5L – 15	8 PR	113	1 150	100	800	370
8.5L – 14	6 PR	107	975	95	690	250
9.5L – 14	4 PR	101	825	89	580	170
	6 PR	108	1 000	96	710	220
	8 PR	116	1 250	103	875	300
9.5L – 15	6 PR	104	900	92	630	190
	8 PR	111	1 090	99	775	280
11L – 14	6 PR	110	1 060	98	750	190
11L – 15	6 PR	106	950	94	670	170
	8 PR	112	1 120	100	800	220
	10 PR	117	1 285	104	900	280
11 L – 16	6 PR	108	1 000	90	710	170
	8 PR 10 PR	114	1 180	101	825	220
		119	1 360	105	925	280
12.5L – 15	6 PR	118	1 320	105	925	190
	8 PR	123	1 550	111	1 090	250
	10 PR	128	1 800	116	1 250	300
	12 PR	132	2 000	120	1 400	360
12.5L – 16	8 PR	125	1 650	113	1 150	250
	12 PR	133	2 060	121	1 450	360
	14 PR	135	2 180	123	1 550	390

^a Regional regulations impose the marking of either a suffix "IMP" (e.g. 8.25-16 IMP) or of the word "IMPLEMENT".

^b Basic tyre loads are maximum values and are valid for the reference speed and inflation pressures indicated.