INTERNATIONAL STANDARD

ISO 4251-1

Sixth edition
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Tyres (ply rating marked series) and rims for agricultural tractors and machines —

Part 1:
Tyre designation and dimensions, and approved rim contours

Pneumatiques (série à marquage «équivalent nappes») et jantes pour tracteurs et machines agricoles —

Partie 1: Désignation et cotes des pneumatiques et profils de jantes approuvés

Reference number
ISO 4251-1:2005(E)

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 4251-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 5, *Agricultural tyres and rims*.

This sixth edition cancels and replaces the fifth edition (ISO 4251-1:1998), which has been technically revised.

ISO 4251 consists of the following parts, under the general title *Tyres (ply rating marked series) and rims for agricultural tractors and machines*:

— *Part 1: Tyre designation and dimensions, and approved rim contours*

— *Part 2: Tyre load ratings*

— *Part 3: Rims*

— *Part 4: Tyre classification and nomenclature*

— *Part 5: Logging and forestry service tyres*

Tyres (ply rating marked series) and rims for agricultural tractors and machines —

Part 1:
Tyre designation and dimensions, and approved rim contours

1 Scope

This part of ISO 4251 establishes the designation in use and the dimensions of the ply rating marked series of tyres for agricultural tractors and machines.

Tyre load ratings, rim dimensions, and tyre classification and nomenclature are given in ISO 4251-2, ISO 4251-3 and ISO 4251-4 respectively.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 4223-1 apply.

4 Marking

The marking of the ply rating marked series of tyres consists of the designation of tyre size and load rating, and any additional information. See 4.1 to 4.4.

4.1 Tyre size designation

The present size marking for the identification of tyres consists of the nominal tyre width code and the nominal rim diameter code.

EXAMPLE 1

Tyre 13.6 – 28

Tyre 6.50 – 16

For tyres of radial construction, the letter R replaces the dash.

EXAMPLE 2

Tyre 8.3 R 44

For low section height tyres, the letter L is added to the nominal tyre width code.

EXAMPLE 3

Tyre 9.5L – 15

For low section height tractor steering wheel tyres of diagonal construction, an optional marking may be used in the following manner:

Nominal tyre width code/nominal aspect ratio – nominal rim diameter

EXAMPLE 4

Tyre 9.5/85 – 15

4.2 Load rating

The present marking of load rating comprises the ply rating.

EXAMPLE

Tyre 13.6 – 28 8 PR

4.3 Categories of use

4.3.1 Agricultural drive wheels — Tractor tyres

The classification code R, as specified in ISO 4251-4, may be optionally marked on the tyre sidewall.

4.3.2 Agricultural steering wheels — Tractor tyres

The classification code F, as specified in ISO 4251-4, may be optionally marked on the tyre sidewall. In addition, the letters “front” or “SL” may be marked after the nominal rim diameter code on the tyre sidewall.

4.3.3 Agricultural implement tyres

The classification code I, as specified in ISO 4251-4, shall be marked on the tyre sidewall, along with an optional marking “IMP” or “IMPLEMENT”.

4.4 Additional information

Tubeless tyres may be marked with the word “TUBELESS”.

Additionally, classification code markings indicating tyre classifications may be used as described in ISO 4251-4, but they are not part of the type size designation of the tyre.

5 Dimensions and tolerances

5.1 Agricultural drive wheels — Tractor tyres

Tyre size designations, measurement rims, design dimensions of new tyres, and maximum tyre dimensions in service are given in

a) Table 1 for tyres of diagonal construction with normal section height;

b) Table 2 for tyres of diagonal construction with low section height;

c) Table 3 for tyres of diagonal construction for special cultivation work;

d) Table 4 for tyres of radial construction for special cultivation work.

5.2 Agricultural steering wheels — Tractor tyres

Tyre size designations, measurement rims, design dimensions of new tyres, and maximum tyre dimensions in service are given in

a) Table 5 for tyres of diagonal construction with normal section height;

b) Table 6 for tyres of diagonal construction with low section height.

5.3 Agricultural implement tyres

Tyre size designations, measurement rims, design dimensions of new tyres, and maximum tyre dimensions in service are given in

a) Table 8 for tyres of diagonal construction with normal section height;

b) Table 9 for tyres of diagonal construction with low section height.

6 Radius index

Radius indices are parameters which are used exclusively for the calculation of forward ground speed during homologation procedures (see for further information ISO 3965).

Values are given in Table 7 for tyres of diagonal and radial constructions with normal section height and for agricultural tractor drive wheel tyres of diagonal construction with low section height.

They apply to tyres inflated to the recommended inflation pressures given in ISO 4251-2 and having a load per tyre corresponding to 50 % of the maximum values at 30 km/h.

7 Tyre and rim coordination

Approved rim contours are given in

a) Table 10 for agricultural drive wheel tractor tyres;

b) Table 11 for agricultural steering wheel tractor tyres;

c) Table 12 for agricultural implement tyres with normal section height;

d) Table 13 for agricultural implement tyres with low section height.

8 Tubes

Whenever a tube is required, it should be identified by the same designation as the tyre size in which it is to be mounted.

Table 1 — Agricultural drive wheels — Tractor tyres (diagonal construction, normal section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
8.3 – 16	7.00	211	790	228	813
8.3 – 24			995		1 019
9.5 – 16	8.00	241	845	260	871
9.5 – 24			1 050		1 076
9.5 – 32			1 250		1 276
9.5 – 36			1 355		1 381
11.2 – 24	10.00	284	1 105	307	1 135
11.2 – 28			1 205		1 235
11.2 – 36			1 410		1 438
11.2 – 38			1 460		1 488
12.4 – 16	11.00	315	955	340	988
12.4 – 24			1 160		1 192
12.4 – 28			1 260		1 292
12.4 – 32			1 360		1 392
12.4 – 36			1 465		1 497
12.4 – 38			1 515		1 547
12.4 – 42			1 616		1 649
13.6 – 16	12.00	345	1 005	373	1 042
13.6 – 24			1 210		1 246
13.6 – 28			1 310		1 346
13.6 – 36			1 515		1 551
13.6 – 38			1 565		1 601
13.6 – 46			1 770		1 804
14.9 – 24	13.00	378	1 265	408	1 305
14.9 – 26			1 315		1 355
14.9 – 28			1 365		1 405
14.9 – 30			1 415		1 455
14.9 – 38			1 615		1 655
15.5 – 38	14.00	394	1 570	426	1 606

Table 1 (*continued*)

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
16.9 – 24	15.00	429	1 335	463	1 379
16.9 – 26			1 385		1 429
16.9 – 28			1 435		1 479
16.9 – 30			1 485		1 529
16.9 – 34			1 585		1 629
16.9 – 38			1 690		1 734
18.4 – 24	16.00	467	1 400	504	1 447
18.4 – 26			1 450		1 498
18.4 – 28			1 500		1 548
18.4 – 30			1 550		1 598
18.4 – 34			1 650		1 698
18.4 – 38			1 750		1 798
18.4 – 42			1 850		1 898
20.8 – 34	18.00	528	1 735	570	1 787
20.8 – 38			1 835		1 887
20-8 – 42			1 935		1 987
23.1 – 26	20.00	587	1 605	634	1 661
23.1 – 30			1 705		1 761
23.1 – 34			1 805		1 861
24.5 – 32	21.00	622	1 805	672	1 865

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

[b] Figures are based on tyres with classification code R – 1. The tractor manufacturer shall recognize that tyres with deep tread and related increased overall diameter may be used.

Table 2 — Agricultural drive wheels — Tractor tyres (diagonal construction, low section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
17.5L – 24	15.00	445	1 265	480	1 304
19.5L – 24	17.00	495	1 340	535	1 382
21L – 24	18.00	533	1 400	576	1 450
28L – 26 [c]	25.00	714	1 615	771	1 673
30.5L – 32	27.00	775	1 820	837	1 881
VA 35.5L – 32	31.00	902	1 980	974	2 051

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

[b] Figures are based on tyres with classification code R – 1. The tractor manufacturer shall recognize that tyres with deep tread and related increased overall diameter may be used.

[c] Optional size designation 28.1 – 26.

Table 3 — Agricultural drive wheels — Tractor tyres for special cultivation work (diagonal construction) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design new tyre dimensions		Dimensions in service	
		Section width	Overall diameter	Maximum overall width	Maximum overall diameter
7.2 – 36	6.00	183	1 250	198	1 270
7.2 – 40			1 350		1 370
8.3 – 36	7.00	211	1 300	228	1 320
8.3 – 38			1 350		1 370
8.3 – 42			1 450		1 475
8.3 – 44			1 500		1 525
9.5 – 36	8.00	241	1 355	260	1 380
9.5 – 38			1 405		1 430
9.5 – 44			1 555		1 580
9.5 – 48			1 655		1 680

Table 4 — Agricultural drive wheels — Tractor tyres for special cultivation work (radial construction) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter	Maximum overall width	Maximum overall diameter
8.3 R 36	7.00	211	1 290	228	1 315
8.3 R 38			1 340		1 365
8.3 R 42			1 440		1 465
8.3 R 44			1 495		1 520
9.5 R 36	8.00	241	1 345	260	1 365
9.5 R 44			1 550		1 575
9.5 R 48			1 650		1 675
11.2 R 42	10.00	284	1 557	307	1 577
12.4 R 46	11.00	315	1 705	340	1 730
13.6 R 48	12.00	345	1 804	373	1 827

Table 5 — Agricultural steering wheels — Tractor tyres (diagonal construction, normal section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
4.00 – 12	3.00	112	535	122	553
4.00 – 15			610		628
4.00 – 16			630		641
4.00 – 19			712		723
4.50 – 16		122	655	133	667
4.50 – 19			736		748
5.00 – 15	4.00	140	655	153	677
5.00 – 16			680		694
5.50 – 16		150	710	164	734
6.00 – 14	4.50	165	688	180	715
6.00 – 16			735		761
6.00 – 19			814		830
6.00 – 20			840		857
6.50 – 16		175	760	191	788
6.50 – 20			865		894

Table 5 (*continued*)

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
7.50 – 16	5.50	205	805	223	837
7.50 – 18			860		892
7.50 – 20			915		948
8.00 – 16		211	813	230	845
9.00 – 16	6.00	234	855	255	891
9.50 – 20	7.00	254	978	277	1 015
10.00 – 16	8.00	274	895	299	934
11.00 – 16	10.00	315	965	343	1 010
11.00 – 20			1 069		1 134
11.00 – 24			1 170		1 215

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

[b] Figures are based on tyres with classification code F – 2.

Table 6 — Agricultural steering wheels — Tractor tyres (diagonal construction, low section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Optional size marking	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
			Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
7.5L – 15	8.25/85 – 15	6.00	210	745	229	774
9.5L – 15	9.50/85 – 15	8.00	240	785	262	817
11L – 15	11.50/75 – 15		280	815	305	850
11L – 16	—			838		873

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

[b] Figures are based on tyres with classification code F – 2.

Table 7 — Radius indices for calculation of the forward ground speed

Tyre size designation	Radius indices [a, b] mm
8.3 – 24	470
8.3 – 36	620
8.3 – 38	645
8.3 – 44	720
9.5 – 24	495
9.5 – 32	595
9.5 – 36	645
9.5 – 38	670
9.5 – 44	745
9.5 – 48	795
11.2 – 20	465
11.2 – 24	515
11.2 – 28	565
11.2 – 36	665
11.2 – 38	690
11.2 – 42	750
12.4 – 24	540
12.4 – 28	590
12.4 – 32	640
12.4 – 36	690
12.4 – 38	720
12.4 – 46	820
13.6 – 24	560
13.6 – 28	610
13.6 – 36	715
13.6 – 38	740
13.6 – 48	875
14.9 – 24	590
14.9 – 26	615
14.9 – 28	640
14.9 – 30	665
14.9 – 38	765
15.5 – 38	745
16.9 – 24	620
16.9 – 26	645
16.9 – 28	670
16.9 – 30	695
16.9 – 34	745
16.9 – 38	795
18.4 – 26	670
18.4 – 30	720
18.4 – 34	770
18.4 – 38	820
18.4 – 42	870
20.8 – 34	810
20.8 – 38	855
20.8 – 42	905
23.1 – 26	730
23.1 – 30	790
23.1 – 34	840
24.5 – 32	835
28L – 26	730
30.5L – 32	845
VA 32.5L – 32	880

NOTE Designers are reminded that practical speed limits may be imposed by appropriate legislative bodies.

[a] The values listed do not include the manufacturing tolerances of the tyres.

[b] In no case shall the Radius Index be used as, or converted into, an actual measurable value of rolling circumference.

Table 8 — Agricultural implement tyres (diagonal construction, normal section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter
2.50 – 8	1.50	68	338	71	345
3.00 – 4	2.50	90	265	95	270
3.00 –8		90	367	95	374
3.50 – 6		100	343	105	350
3.50 – 8		100	393	105	401
4.00 – 4	3.00	114	313	122	319
4.00 – 8		112	418	122	429
4.00 – 9		112	443	122	460
4.00 – 10		114	465	120	474
4.00 – 12		112	519	122	536
4.00 – 15		112	595	122	612
4.00 – 18		112	672	122	689
4.50 – 19		124	720	130	734
5.00 – 12	4.00	145	567	152	578
5.00 – 14		145	618	152	630
5.00 – 15		145	644	152	657
5.50 – 16		150	685	162	707
5.90 – 15		150	665	163	688
6.00 – 9	4.50	169	543	172	554
6.00 – 16	4.00	158	712	172	736
6.40 – 15	4.50	163	684	178	708
6.50 – 16		173	735	188	761
6.70 – 15		170	704	185	729
7.00 – 12	5.00	187	652	204	680
7.00 – 16	5.50	200	769	210	784
7.00 – 19		200	845	210	862
7.50 – 10	6.00	214	634	225	647
7.50 – 14	5.50	194	686	212	713
7.50 – 16		202	785	220	809
7.50 – 18		202	836	220	866
7.50 – 20		202	887	220	917
7.50 – 24		202	989	220	1 020
7.60 – 15		193	734	210	763

Table 8 (*continued*)

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter
8.25 – 16	6.00	229	832	240	849
9.00 – 10		234	696	255	732
9.00 – 16		234	848	254	883
9.00 – 24	8.00	272	1 094	296	1 132
10.00 – 12	6.50	262	790	275	806
10.00 – 15	8.00	274	853	299	891
11.00 – 16	10.00	315	965	343	999
11.25 – 24		325	1 171	354	1 216
11.25 – 28		325	1 273	354	1 318

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

Table 9 — Agricultural implement tyres (diagonal construction, low section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres			Dimensions in service		
		Section width	Overall diameter [a]		Maximum overall width	Maximum overall diameter	
			Non-traction pattern	Traction pattern		Non-traction pattern	Traction pattern
5.5/85 – 9	4.00	145	475	493	152	495	506
13.5/85 – 28	11.00	345	1 293	1 315	362	1 322	1 344
16.5/85 – 24	13.00	417	1 322	1 344	438	1 358	1 380
16.5/85 – 28	13.00	417	1 423	1 445	438	1 454	1 481
6.5/80 – 12	5.00	163	569	588	171	577	597
6.5/80 – 15	5.00	163	645	663	171	658	677
10.0/80 – 12	9.00	264	710	730	277	730	751
10.5/80 – 18	9.00	274	885	907	288	906	930
12.5/80 – 18	9.00	308	965	987	323	990	1 014
15.5/80 – 24	13.00	394	1 240	1 262	414	1 271	1 293
19.5/80 – 20	16.00	499	1 300	1 322	524	1 340	1 362
21.0/80 – 20	16.00	525	1 362	1 384	551	1 405	1427

Table 9 (*continued*)

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres			Dimensions in service		
		Section width	Overall diameter [a]		Maximum overall width	Maximum overall diameter	
			Non-traction pattern	Traction pattern		Non-traction pattern	Traction pattern
12.0/75 – 18	9.00	299	915	937	314	938	961
13.0/75 – 16	11.00	336	900	922	353	925	948
14.5/75 – 20	12.00	372	1 060	1 082	390	1 087	1 111
9.0/70 – 16	7.00	226	725	745	237	741	762
11.5/70 – 16	9.00	290	815	837	305	835	858
11.5/70 – 18	9.00	290	865	887	305	885	908
15.0/70 – 18	13.00	391	990	1 012	411	1 017	1 040
16.0/70 – 20	14.00	418	1 075	1 097	439	1 105	1 126
20.5/70 – 20	16.00	508	1 220	1 242	533	1 255	1 279
10.5/65 – 16	9.00	274	755	777	288	774	797
11.0/65 – 12	9.00	281	670	692	295	688	711
13.0/65 – 18	11.00	336	890	912	353	912	935
14.0/65 – 16	11.00	353	870	892	371	893	916
15.0/55 – 17	13.00	391	850	872	411	871	894
19.0/45 – 17	16.00	491	866	—	516	888	—
7.5L – 15	6.00	210	745	765	220	763	783
8.5L – 14	6.00	216	721	—	235	750	—
9.5L – 14	7.00	241	741	—	263	772	—
9.5L – 15			767	782		786	802
11L – 14	8.00	279	752	—	305	783	—
11L – 15			777	796		797	816
11L – 16			803	821		822	842
12.5L – 15	10.00	318	823	—	346	859	—
12.5L – 16			848			884	

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

Table 10 — Agricultural drive wheels — Tractor tyres — Approved rim contours

Tyre section code	Rim diameter code	Approved rim contours [a]
7.2	36, 40	W6
8.3	16, 24, 36, 38, 42, 44	W6, W7
9.5	16	W7, W8, W8L, 8LB
9.5	24, 32, 36, 38, 44, 48	W7, W8
11.2	24, 28, 36, 38, 42	W9, W10, W10H
12.4	16	W10L, 10LB
12.4	24, 28, 32, 36, 38, 46	W9, W10, W10A, W10H, W11, W11A
12.4	42	W10, W10H, W11
13.6	16	W10L, W12L
13.6	24, 28, 36, 38	W11, W12, W12A
13.6	46	W12A
13.6	48	W11, W12, W12A
14.9	24, 26, 28, 30, 38	W11, W12, W12A, W13, W13A
15.5	38	W14A, W14L
16.9	24, 26, 28, 30, 34, 38	W14A, W14L, W15A, W15L
18.4	24, 26, 28, 30, 34, 38, 42	W15A, W15L, W16L, W16A, DD16
20.8	34, 38, 42	W16A, W16L, W17L, W18L, W18A, DD16
23.1	26, 30, 34	DW18, DW18A, DW20A, MW20A
24.5	32	DW20A, DW21A, DH21
17.5L	24	W15L
19.5L	24	W15L [b], W16L, DW 16A
19.5L	24	DW16A [c]
21L	24	W18L [b], DW18A
21L	24	DW18A [d]
28L	26	DW23A, DW25A
30.5L	32	DW27A, DH27
VA35.5L	32	31VA

[a] DW and DW-A rims with equivalent flanges are also permitted where W and W-A rims are shown, respectively. Consult the tyre manufacturer for the preferred rim contours.

[b] For tyres up to 10 PR only.

[c] For 12 PR tyres only.

[d] For tyres of 12 PR or higher, only.

Table 11 — Agricultural steering wheels — Tractor tyres – Approved rim contours

Tyre size designation	Approved rim contours
4.00 – 12	2.50C, 3.00D
4.00 – 15	3.00D, 4J
4.00 – 16	3.00D
4.00 – 19	3.00D
4.50 – 16	3.00D
4.50 – 19	3.00D
5.00 – 15	3.00D, 4.00E, 4J
5.00 – 16	3.00D, 4.00E, 4J, 41/2J
5.50 – 16	4.00E, 4.25KA, 4.50E
6.00 – 14	5KB
6.00 – 16	4.00E, 4.25KA, 4.50E, 5.00F, 5K
6.00 – 19	4.00E, 4.50E, 5.00F
6.00 – 20	4.50E, 5.00F
6.50 – 16	4.00E, 4.25KA, 4.50E, 5.00F, 5K, 5.50F
6.50 – 20	5.00F, 5.50F
7.50 – 16	5.00F, 5K, 5.50F, 6.00F, 6LB
7.50 – 18	5.00F, 5.50F
7.50 – 20	5.00F, 5.50F
8.00 – 16	5.50F
9.00 – 16	6.00F, 6LB, W7, W8, W8L, 8LB
9.50 – 20	W7L
10.00 – 16	W8, W8 L, 8LB
11.00 – 16	W8, W8L, 8LB, W10L, 10LB
11.00 – 20	W10H
11.00 – 24	W10, W10H
7.5L – 15 (8.25/85 – 15)	5K, 5KB, 51/2J, 51/2K, 6L, 6LB
9.5L – 15 (9.50/85 – 15)	8LB
11L – 15 (11.50/75 – 15)	W8L, 8LB, 10LB
11L – 16	W8L, 8LB, 10LB, W10L

Table 12 — Agricultural implement tyres (normal section height) — Approved rim contours

Tyre size designation	Approved rim contours
2.50 – 8	1.50
3.00 – 4	2.10
3.00 – 8	2.10
3.50 – 6	2.50A, 2.50C
3.50 – 8	2.10, 2.15, 2.50A, 2.50C
4.00 – 4	2.50C, 3.00D
4.00 – 8	2.50A, 3.00D, 3.75I
4.00 – 9	3.00D
4.00 – 10	2.50A, 2.50C, 3.00B, 3.00D
4.00 – 12	2.50C, 3.00B, 3.00D
4.00 – 15	3.00D, 4J
4.00 – 18	3.00D
4.50 – 19	3.00D, 3.50D
5.00 – 12	3.00D, 3.50D, 4.00E, 4J
5.00 – 14	3.00D, 3.50D, 4.00E, 4J
5.00 – 15	3.00D, 4.00E, 4J, 4 1/2J
5.50 – 16	3.50D, 4.00E, 4.25KA, 4.50E
5.90 – 15	41/2K, 41/2KB, 5K, 5KB
6.00 – 9	4.00E
6.00 – 16	4.00E, 4.25KA, 4.50E, 5.00F, 5K
6.40 – 15	4.00E, 41/2K, 41/2KB, 5K, 5KB, 5.50F
6.50 – 16	4.00E, 4.25KA, 4.50E, 5.00F, 5K, 5.50F
6.70 – 15	41/2KB, 5KB
7.00 – 12	5.00F, 5JA, 5.50F
7.00 – 19	4.50E, 5.00F, 5.50F
7.50 – 10	5.00F, 5.50F, 6.00F
7.50 – 14	5KB, 6KB
7.50 – 16	5.00F, 5K, 5.50F, 6.00F, 6LB
7.50 – 18	5.00F, 5.50F
7.50 – 20	5.00F, 5.50F
7.50 – 24	W7
7.60 – 15	6LB
8.25 – 16	5.00F, 5.50F, 6.00F
9.00 – 10	5.50F, 6.00F
9.00 – 16	5.50F, 6.00F, 6LB, 8LB, W8L
9.00 – 24	W7 [a], W8 [a], W8H, W8H [b]
10.00 – 12	7.00
10.00 – 15	8 LB
11.00 – 16	W8, W8L, W10L, 10LB
11.25 – 24	W8, W8H, W10, W10H
11.25 – 28	W10, W10H

[a] For 6 PR tyres only.

[b] For 8 PR tyres only.

Table 13 — Agricultural implement tyres (low section height) — Approved rim contours

Tyre size designation	Approved rim contours
5.5/85 – 9	4.00E
13.5/85 – 28	W11, W12
16.5/85 – 24	W13, W14L, W15L
16.5/85 – 28	W13, W14L, W15L
6.5/80 – 12	5J, 5JA
6.5/80 – 15	41/2K, 5.0, 5J, 5K
10.0/80 – 12	7.00, 9.00
10.5/80 – 18	9, 9.00, W9
12.5/80 – 18	9 [a], W9, 11
15.5/80 – 24	W12, W13, W14L
19.5/80 – 20	W16L
21.0/80 – 20	16SDC
12.0/75 – 18	9 [b], W9, 11
13.0/75 – 16	9, W9, 11, W11
14.5/75 – 20	11, 11SDC, 12SDC, 13, 13SDC
10.0/65 – 16	W8L, W9
11.0/65 – 12	9.00
13.0/65 – 18	9 [a], 11
14.0/65 – 16	11
9.0/70 – 16	W 7
11.5/70 – 16	W8, W8L, W9
11.5/70 – 18	9, W9
15.0/70 – 18	13.00, W13
16.0/70 – 20	12SDC, 13, 13SDC, 14
20.0/70 – 20	16
15.0/55 – 17	13.00, 13
19.0/45 – 17	16.00
7.5L – 15	5K, 51/2, 51/2K, 6LB
8.5L – 14	6KB, 8KB
9.5L – 14	8KB
9.5L – 15	8LB
11L – 14	8KB
11L – 15	8LB, 10LB
11L – 16	8LB, W8L, 10LB, W10L
12.5L – 15	10LB
12.5L – 16	W10L, 10LB

[a] For tyres up to 10 PR only.

[b] For tyres up to 8 PR only.

Annex A
(informative)

Tyres with nominal rim diameter codes 15.3 and 16.1

The technical data of the former standardized tyres with nominal rim diameter codes 15.3 and 16.1 are given in Tables A.1, A.2, A.3 and A.4.

Table A.1 — Agricultural tractor steering wheel tyres (diagonal construction, low section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Optional size marking	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
			Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter [b]
14L – 16.1	14.0/80-16.1	11.00	360	985	392	1 031
16.5L – 16.1	—	14.00	419	1 072	457	1 133
14.5/75 – 16.1	—	11.00	373	940	407	982

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

[b] Figures are based on tyres with classification code F – 2.

Table A.2 — Agricultural implement tyres (diagonal construction, normal section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres		Dimensions in service	
		Section width	Overall diameter [a]	Maximum overall width	Maximum overall diameter
13.50 – 16.1	11.00	353	1 021	385	1 070

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

Table A.3 — Agricultural implement tyres (diagonal construction, low section height) — Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Tyre size designation	Measurement rim width code	Design dimensions of new tyres			Dimensions in service		
		Section width	Overall diameter [a]		Maximum overall width	Maximum overall diameter	
			Non-traction pattern	Traction pattern		Non-traction pattern	Traction pattern
10.0/75 – 15.3	9.00	264	760	780	277	779	800
11.5/80 – 15.3	9.00	290	845	867	305	868	891
12.5/80 – 15.3	9.00	307	889	911	322	915	937
10.5/85 – 15.3	9.00	274	792	814	288	812	834
14L – 16.1	11.00	356	940	—	388	966	—
19L – 16.1	16.00	483	1 087	—	526	1 141	—
21.5L – 16.1	18.00	546	1 130	—	595	1 188	—

[a] Minimum new tyre overall diameter shall be calculated on the basis of a tolerance of –3 % on design section height.

Table A.4 — Agricultural implement tyres (low section height) — Approved rim contours

Tyre size designation	Approved rim contours
10.5/85 – 15.3	9.00
11.5/80 – 15.3	9.00
12.5/80 – 15.3	9.00
10.0/75 – 15.3	9.00
14L – 16.1	16.1 – W11C
13.50 – 16.1	16.1 – W11C

Bibliography

[1] ISO 3965, *Agricultural wheeled tractors — Maximum speeds — Method of determination*

[2] ISO 4251-2, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 2: Tyre load ratings*

[3] ISO 4251-3, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 3: Rims*

[4] ISO 4251-4, *Tyres (ply rating marked series) and rims for agricultural tractors and machines — Part 4: Tyre classification and nomenclature*

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