INTERNATIONAL STANDARD

ISO 4251-1

Sixth edition 2005-09-15 **AMENDMENT 1** 2012-01-15

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

Part 1:

Tyre designation and dimensions, and approved rim contours

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

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AMENDEMENT 1



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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.

Amendment 1 to ISO 4251-1:2005 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 5, *Agricultural tyres and rims*.

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Part 1:

Tyre designation and dimensions, and approved rim contours

AMENDMENT 1

Page 2, 4.3.3

Replace entire wording with the following:

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" or SL suffix.

EXAMPLE	iTeh STANDARD PREVIEW	
4.00-12	(standards.iteh.ai)	
4.00-12	IMPLEMENT ISO 4251-1:2005/Amd 1:2012 https://standards.iteh.ai/catalog/standards/sist/3994baa2-3d41-43ea-b40	01-
4.00-12SL	IMPLEMENT469c84de5a3f/iso-4251-1-2005-amd-1-2012	71

Page 2, 4.5

Add the following subclause after 4.4:

4.5 Tyre maximum pressure bead seating pictogram (optional)

The inscription "XXX kPa MAX" inside the pictogram (Figure 1) indicates the cold inflation pressure that shall not be exceeded within the bead seating during tyre mounting. The value of inflation pressure is determined by the tyre manufacturer.

The pictogram shall be marked on both sidewalls of the tyre.



Figure 1 — Pictogram of maximum inflation pressure — Example

Page 4, Table 1

Add the following sizes:

Dimensions in millimetres

Tyre size	Measurement rim	Design dimensi	ons of new tyres	Dimensions in service		
designation	width code	Section width	Overall diameter ^a	Maximum overall width	Maximum overall diameter ^b	
1	1 1		1 1		1 1	
8.3 – 38	7.00	211	1 351	228	1 374	
8.3 – 44	7.00	211	1 503	220	1 526	
1	1		1			
9.5 – 22]		997		1 024	
			1			
9.5 – 38			1 404		1 430	
9.5 – 42	8.00	241	1 505	260	1 532	
9.5 – 44	0.00	241	1 556	260	1 582	
9.5 – 48			1 658		1 684	
1	!		!		1	
11.2 – 20			1 002		1 032	
1	10.00 iTe	h ST8AND	ARD PRE	307	1	
11.2 – 42		(24-2-1-	1 561	. —	1 591	
i !	! !	(Stanua	irus.iteii.ai	()		
12.4 – 46	11.00	315	1 718	340	1 751	
1	https://stan	dards.iteh.ai/catalog/st	andards/sist/3994baa2	-3d41-43ea-b401-	1	
13.6 – 26		469c84de5a3f/iso-	4251-1- 2285 -amd-1-	2012	1 311	
!	12.00	345		373	Î	
13.6 – 48			1 819		1 855	
	1		1			
18.4 – 46	16.00	467	1 958	504	2 006	
1	;		:		;	

Page 6, Table 2

Add footnote d to sizes 30.5L-32 and VA35.5L-32. Add sizes DH30.5L-32 and DH35.5L-32:

Dimensions in millimetres

Tura aine		Design dimensi	ons of new tyres	Dimensions in service	
Tyre size designation	Measurement rim width code	Section width	Overall diameter ^a	Maximum overall width	Maximum overall diameter ^b
1			1	 	
30.5L – 32 ^d	27.00	775	1 820	837	1 881
VA30.5L - 32	27.00	775	1 820	837	1 881
DH35.5L - 32	31.00	902	1 980	974	2 051
VA 35.5L – 32 ^d	31.00	902	1 980	974	2 051
1			i 1	 	i I

Page 6, Table 3

Delete Table 3 and renumber the subsequent tables.

Page 9, Table 7

Add the following sizes to the new Table 6:

	Ture size designation	Radius indicesa,b				
	Tyre size designation	mm				
	9.5 – 22	475				
	9.5 – 42	725				
	13.6 – 26	600				
	13.6 – 46	825				
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Page 13, Table 10

Delete tyre size 7.2, add tyre sizes VA30.5L and DH35.5L before the revised VA35.5L row, revise approved rim contour, and add footnote e to the new Table 9 as follows:

Table 9 — Agricultural drive wheels — Tractor tyres — Approved rim contours

Tyre section code	Rim diameter code	Approved rim contours ^a		
9.5	22, 24, 32, 36, 38, 44, 48	W11, W12		
13.6 42		W7, W8, W12A		
18.4	24, 26, 28, 36, 38, 48	W15A, W15L, W16A, W16L, DD16		
20.8	34, 38, 42	W16A, W16L, W17L, W18L, W18A, DD16, DD16		
23.1	26, 30, 34	DW18, DW18A, DW20A, DW20B, MW20A		
24.5 32		DW20A, DW20B, TW20, DW21A, DW21B, DH DH21H, TW21		
28L	26	DW23A, DW23B, TW23, DW25A, DW25, TW25		
30.5Le	32	DW27A, DW27B, DH27, DH27H, TW27		
VA30.5L ^e	32	27VA		
DH35.5L	32	DH31, DH31H, DH31B, DH31HB, 31DWM		
VA35.5Le	32	31VA		

VA rims are not interchangeable with DH or DH-H, DH-B, DH-HB or DWM rims.

Page 17

Replace the title and introductory sentence of Annex A with the following:

Tyres with nominal rim diameter codes 15.3, 16.1 and tyres for small tractors

The technical data of former standardized tyres with nominal rim diameter codes 15.3, 16.1 and tyres for small tractors are given in Tables A.1 to A.9.

Add a new Table A.2 and renumber the subsequent tables.

Table A.2 — Agricultural tractor drive wheel tyres (diagonal construction, normal section height) —

Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

Turo cizo	Ontional aiza	Measurement	tyr	nsions of new res	Dimensions	s in service
Tyre size designation	Optional size marking	rim width code		Overall diameter ^a	Maximum overall width	Maximum overall diameter ^b
18.4 – 16.1	_	16.00	467	1 137	505	1 181

Minimum new tyre overall diameter shall be calculated on the basis of tolerance of -3 % on design section height.

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Page 18, Table A.3

Add the following size to the new Table A.4.

Table A.4 — Agricultural implement tyres (diagonal construction, low section height) —

Tyre size designations, measurement rims and dimensions

Dimensions in millimetres

			Design dimensions of new tyres			Dimension in service		
Tyre Size rim width	Measurement rim width	Overall diametera		Maximum	Maximum ove	ximum overall diameter		
des	designation code		Section width	Non-traction pattern	Traction pattern	overall width	Non-traction pattern	Traction pattern
						·		
16.5	5L – 16.1	14.00	419	1 024	_	457	1 075	_

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.

Add a new Table A.5.

Table A.5 — Traction drive wheel tyres for small tractor

Dimensions in millimetres

Tyro cizo	Measurement rim	Design dimensi	ons of new tyres	Dimensions in service	
Tyre size designation	width code	Section width	Overall diameter ^a	Maximum overall width	Maximum overall diameter ^b
5 – 12	4.00	127	528	137	542
6 – 12	5.00	155	577	167	593
6 – 14	5.00	155	627	167	647
6 – 16	5.00	155	678	167	701
7 – 12	6.00	183	640	198	660
7 – 14	6.00	183	691	198	714
7 – 16	6.00	183	742	198	768
8 – 16	6.00	211	790	228	819
8 – 18	6.00	211	841	228	873

Minimum new tyre overall diameter shall be calculated on the basis of tolerance of -3 % on design section height.

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Page 18, Table A.4

Add the following sizes and footnote a to the new Table A.6. https://standards.itch.a/catalog/standards/sist/3994baa2-3d41-43ea-b401-

469c84de5a3f/iso-4251-1-2005-amd-1-2012

Table A.6 — Agricultural implement tyres (normal and low section height) — Approved rim contours

Tyre size designation	Approved rim contours ^a			
16.5L – 16.1	16.1xW14C, 16.1xW14C			
19L – 16.1	16.1xW16CH, 16.1xW16CH			
21.5L – 16.1	16.1xW16C, 16.1xW18C, 16.1xW16CH, 16.1xW18CH			
WC-Rim should only be applicable up to 16PR.				

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. NDARD PREVIEW