

**Proposal for amendments to Regulation No. 106**

Paragraph 2.15.11, amend to read:

"2.15.11. The letters "IND" after the nominal rim diameter marking in case of tyres for construction application (industrial tractors).

The Letters "SS" or "NHS" after the nominal rim diameter marking in case of tyres for construction applications (skid-steers / mini-loaders)"

Insert new tables (and footnotes) within Annex 5, to read:

"Table [TBD] (1 of 2)

**Shallow-tread drive wheel tyres for agricultural tractors – Normal section sizes**

<i>Tyre size designation</i>	<i>Theoretical rim width code (AI)</i>	<i>Nominal section width (SI) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
8.3-16	7	211	766	406
8.3-24	7	211	969	610
9.5-16	8	241	820	406
9.5-22	8	241	973	559
9.5-24	8	241	1024	610
9.5-32	8	241	1227	813
9.5-36	8	241	1328	914
9.5-42	8	241	1481	1067
11.2-24	10	284	1079	610
11.2-28	10	284	1181	711
11.2-36	10	284	1384	914
11.2-38	10	284	1435	965
12.4-16	11	315	931	406
12.4-24	11	315	1134	610
12.4-28	11	315	1236	711
12.4-32	11	315	1388	813
12.4-36	11	315	1439	914
12.4-38	11	315	1490	965
12.4-42	11	315	1592	1067
13.6-16	12	345	982	406
13.6-24	12	345	1185	610
13.6-26	12	345	1236	660
13.6-28	12	345	1287	711
13.6-36	12	345	1490	914
13.6-38	12	345	1541	965
13.6-46	12	345	1744	1168
14.9-24	13	378	1241	610
14.9-26	13	378	1292	660
14.9-28	13	378	1343	711
14.9-30	13	378	1393	762

14.9-38	13	378	1597	965
15.5-38	14	394	1544	965
16.9-24	15	429	1309	610
16.9-26	15	429	1359	660
16.9-28	15	429	1410	762
16.9-30	15	429	1461	762
16.9-34	15	429	1563	864
16.9-38	15	429	1664	965
18.4-16.1	16	467	1113	409
18.4-24	16	467	1375	610

Table [TBD] (2 of 2)

**Shallow-tread drive wheel tyres for agricultural tractors – Normal section sizes**

<i>Tyre size designation</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (SI) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
18.4-26	16	467	1426	660
18.4-28	16	467	1477	711
18.4-30	16	467	1528	762
18.4-34	16	467	1629	864
18.4-38	16	467	1731	965
18.4-42	16	467	1832	1067
18.4-46	16	467	1934	1168
20.8-34	18	528	1708	864
20.8-38	18	528	1809	965
20.8-42	18	528	1911	1067
23.1-26	20	587	1581	660
23.1-30	20	587	1682	762
23.1-34	20	587	1784	864
24.5-32	21	622	1779	813

*Notes:*

1. Shallow-tread drive wheel tyres are identified by an “R-3” marking on the Tyre sidewalls
2. The Tyre size designation may be supplemented by an additional figure: ex: 23.1/18-26 instead of 23.1-26
3. Tyres of radial structure are identified by means of the letter “R” in place of “ - ” (e.g. 23.1R26)
4. Coefficient for the calculation of the overall width: +8 percent

Table [TBD] (1 of 1)

**Shallow-tread drive wheel tyres for agricultural tractors – Low section sizes**

<i>Tyre size designation</i>	<i>Theoretical rim width code (A1)</i>	<i>Nominal section width (SI) (mm)</i>	<i>Overall diameter (D) (mm)</i>	<i>Nominal rim diameter (d) (mm)</i>
17.5L-24	15	445	1241	610
19.5L-24	17	495	1314	610
21L-24	18	533	1378	610
21L-28	18	533	1479	711
28L-26	25	714	1591	660
30.5L-32	27	775	1794	813
35.5L-32	31	902	1957	813

*Notes:*

1. Shallow-tread drive wheel tyres are identified by an “R-3” marking on the Tyre sidewalls
2. The Tyre size designation may be supplemented by a rim contour prefix: ex: VA35.5L-32 instead of 35.5L-32
3. Tyres of radial structure are identified by means of the letter “R” in place of “ - ” (e.g. 23.1R26)
4. Coefficient for the calculation of the overall width: +8 percent”

Annex 5, Table 1, amend the following entries:

“Table 1 (1 of 2)

**Agricultural steering wheels – Normal and low section sizes**

Tyre size designation	Theoretical rim width code (A1)	Nominal width (s1) (mm)	Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
				(*)	
4.00-12	3	112	535	526	305
4.00-15	3	112	610	602	381
4.00-19	3	112	712	704	483
5.00-15	4	140	655	649	381
5.50-16	4	150	710	694	406
6.00-14	5	169	688	669	356
6.00-16	4.5	165	735	720	406
6.00-19	4.5	165	814	796	483
6.50-16	4.5	175	760	739	406
6.50-20	4.5	175	865	841	508
7.50-16	5.5	205	805	782	406
7.50-18	5.5	205	860	833	457
7.50-20	5.5	205	915	883	508
8.00-16	5.5	211	813	813	406
9.00-16	6	234	855	827	406
11.00-16	10	315	965	935	406
11.00-24	10	315	1170	1138	610

Table 1 (2 of 2)

**Agricultural steering wheels – Normal and low section sizes**

Tyre size designation	Theoretical rim width code (A1)	Nominal width (s1) (mm)	Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
				(*)	
Low section					
11L-15	8	280	815	783	381
11L-16	8	279	840	808	406
14L-16.1	11	360	985	950	409
14.5/75-16.1	11	373	940	904	409
16.5L-16.1	14	419	1072	1031	409

Notes:

1. Agricultural steering wheel tyres are identified either by suffix “Front” placed after the Tyre size designation ( e.g. 4.00-9 Front) or by one of the following additional markings added to the Tyre sidewalls: “F-1”, “F-2”, or “F-3”
2. Tyres of radial structure are identified by means of the letter “R” in place of “ - ” (e.g. 4.00R9)
3. Overall diameters (D) in column (\*) apply to tyres marked with classification code “F-3” – see paragraph 3.1.7 of this Regulation”

Annex 5, Table 2, insert the following entries:

“Table 2 (1 of 5)

**Drive wheel tyres for agricultural tractors – Normal section sizes**

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)		Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
		Radial	Diagonal	Radial	Diagonal	
7.00-18	6		183		792	457

Table 2 (3 of 5)

**Drive wheel tyres for agricultural tractors – Normal section sizes**

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)		Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
		Radial	Diagonal	Radial	Diagonal	
13.6-46	12		345		1768	1168

Notes:

1. The Tyre size designation may be supplemented by a rim contour prefix: ex: VA35.5L-32 instead of 35.5L-32 or by an additional figure: ex: 23.1/18-26 instead of 23.1-26
2. Tyres of radial structure are identified by means of the letter “R” in place of “-” (e.g. 23.1R26)
3. Coefficient for the calculation of the overall width: +8 percent”

Annex 5, Table 5, insert the following entries:

“Table 5 (1 of 3)

#### Agricultural implement tyres – Normal section sizes

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
				(*)	
36x16-17.5 IMP	10.5	406	914		445
40x19-19.5 IMP	15	495	1003	1019	495

Annex 5, Table 6, amend the following entry and the footnotes to read:

“Table 6 (1 of 3)

#### Agricultural implement tyres – Low section sizes

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)		Nominal rim diameter (d) (mm)
				(*)	
21.5L-16.1 IMP	18	546	1130	1162	409

Notes:

1. The suffix “IMP” may be replaced by the wording “IMPLEMENT” on the tyre sidewall
2. Tyres of radial structure are identified by means of the letter “R” in place of “-” (e.g. 7.5LR15)
3. Overall diameters (D) in column (\*) apply to tyres marked with classification code “I-3” – see paragraph 3.1.8.2 of this Regulation

Annex 5, Table 7, amend the headers, the following entries and the footnotes to read:

“Table 7 (1 of 4)

#### Agricultural high-flotation tyres

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)			Nominal rim diameter (d) (mm)
				(*)	(**)	

Table 7 (2 of 4)

#### Agricultural high-flotation tyres

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)			Nominal rim diameter (d) (mm)
				(*)	(**)	
25x12.50-15	10	310	640	656		381
27x8.50-15	7	214	680	690		381
27x9.50-15	7	229	686	699		381
27x10.50-15	8.5	259	691	705		381

Table 7 (3 of 4)

#### Agricultural high-flotation tyres

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)			Nominal rim diameter (d) (mm)
				(*)	(**)	

29x12.50-15	10	310	742	758		381
31x12.50-15	10	310	792	809		381
31x13.50-15	10	351	782	800		381
31x15.50-15	13	391	792	812		381
33x12.50-15	10	310	843	860		381
36x13.50-15	10	351	909	927		381
38x14.00-20	11	356	991	1026	1057	508
38x18.00-20	14	457	991	1026	1057	508
38x20.00-16.1	16	488	991	1026	1057	409
41x14.00-20	11	356	1067	1102	1133	508
42x25.00-20	20.5	622	1080	1111	1149	508
44x18.00-20	14	457	1143	1175	1213	508
44x41.00-20	36	991	1143	1175	1213	508
48x20.00-24	15	457	1245	1276	1314	610
48x25.00-20	20.5	635	1245	1276	1314	508
48x31.00-20	26	775	1245	1276	1314	508
54x31.00-26	26	775	1397	1429	1467	660
54x37.00-25	32	940	1397	1429	1467	635
57x31.00-26	26	775	1473	1505	1543	660
66x43.00-25	36	1054	1702	1740	1797	635
66x43.00-26	36	1054	1702	1740	1797	660
66x44.00-25	36	1118	1702	1740	1797	635
67x34.00-25	30	864	1727	1765	1822	635
67x34.00-26	30	864	1727	1765	1822	660
67x34.00-30	30	864	1727	1765	1822	762
68x50.00-32	44	1270	1753	1791	1848	813
73x44.00-32	36	1118	1880	1911	1981	813

Table 7 (4 of 4)

### Agricultural high-flotation tyres

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)			Nominal rim diameter (d) (mm)
				(*)	(**)	
73x50.00-32	44	1270	1880	1911	1981	813
76x50.00-32	44	1270	1956	1988	2057	813

*Notes:*

1. These Tyres may be classified in categories of use “Tractor Drive Wheels”, “Implement”, or “Forestry Machines”
2. Implement Tyres are identified either by suffix “IMP” placed after the Tyre size designation (e.g. 11x4.00-4 IMP) or by the word “IMPLEMENT” marked on the Tyre sidewalls
3. Tyres of radial structure are identified by means of the letter “R” in place of “-” (e.g. 11x4.00R4)
4. The Tyre size designation may be supplemented by a rim contour prefix: ex: VA73x44.00-32 instead of 73x44.00-32
5. Overall diameters (D) in column (\*) apply to tyres marked with classification code “HF-3”
6. Overall diameters (D) in column (\*\*) apply to tyres marked with classification code “HF-4”
7. Coefficient “a” for the calculation of the Overall diameter Dmin: 0.96
8. Coefficient “b” for the calculation of the Overall diameter Dmax: 1.07 (Diagonal), 1.04 (Radial)”

Annex 5, Table 8, insert the following entries and amend the footnotes to read:

“Table 8 (1 of 1)

### Forestry Tyres – Code-Designated sizes

Tyre size designation	Theoretical rim width code (A1)	Nominal section width (S1) (mm)	Overall Diameter (D) (mm)	Nominal rim diameter (d) (mm)
16.9-30 LS	15	429	1511	762
18.4-26 LS	16	467	1476	660

18.4-30 LS	16	467	1577	762
18.4-34 LS	16	467	1679	864

*Notes:*

1. Forestry Tyres are identified by suffix “LS-2” or “LS-3” placed after the Tyre size designation (e.g. 30.5L-32 LS-2)
2. The Tyre size designation may be supplemented by a rim contour prefix: ex: DH35.5L-32 LS-2 instead of 35.5L-32 LS-2
3. Tyres of radial structure are identified by means of the letter “R” in place of “ - ” (e.g. 30.5LR32 LS)”

Annex 5, Table 9, insert the following entries:

“Table 9 (1 of 1)

**Tyres for construction applications (industrial tractors)**

Tyre size designation	Theoretical rim width code (AI)	Nominal section width (S1) (mm)		Overall diameter (D) mm		Nominal rim diameter (d) (mm)
		Radial	Diagonal	Radial	Diagonal	
21L-28	18		533		1479	711

*Notes:*

1. These tyres are identified either by suffix “IND”, placed after the Tyre size designation (e.g. 14.9-24 IND), or by the following marking added to the tyre sidewalls: “R-4”
2. Tyres of radial structure are identified by means of the letter “R” in place of “ - ” (e.g. 14.9R24)
3. Coefficient for the calculation of the overall width of radial tyres: +8%”

Insert new table to Annex 5, Table 10, to read:

“Table 10 (1 of 1)

**Tyres for construction applications (skid-steers / mini-loaders)**

Tyre size designation	Theoretical rim width code (AI)	Nominal section width (S1) (mm)	Overall diameter (D) (mm)	Nominal rim diameter (d) (mm)
7.00–15 SS	5.50	201	762	381
8.25–15 SS	6.00	231	848	381
5.70–12 NHS	4.50	146	570	305
5.70–15 NHS	4.50	146	647	381
23x8.50–12 SS	7.00	213	574	305
23x8.50–14 SS	7.00	218	584	356
23x10.50–12 SS	8.50	264	579	305
25x8.50–14 SS	7.00	218	635	356
26x12.00–12 SS	10.50	307	648	305
10–16.5 NHS	8.25	264	773	419
12–16.5 NHS	9.75	307	831	419
14–17.5 NHS	10.50	349	921	445
15–19.5 NHS	11.75	389	1019	495
15–22.5 NHS	11.75	389	1095	572
18–19.5 NHS	14	457	1096	495
18–22.5 NHS	14	457	1172	572

*Notes:*

1. Tyres of radial structure are identified by means of the letter “R” in place of “-”

Annex 7, Part E, amend to read:

"Part E: Tyres for construction applications (industrial tractors or skid-steers / mini-loaders)

Applicable to tyres classified with categories of use: "Construction Applications" (see paragraph 2.42.)

Variation of load carrying capacity (per cent) (see paragraphs 2.30. and 2.31. of this Regulation)

Speed (km/h)	Speed Category Symbol		
	A2	A8	
		Constant load	Cyclic applications (+)
5	+ 11	+ 45	+ 67 (1)
10	[0]	+ 25	+ 50 (2)
15	- 21	+ 13	+ 34
20	- 24	+ 9	+ 23
25	- 28	+ 6	+ 11
30	- 32	+ 4	+ 7
35	-33	+ 2	+ 3
40	-34	[0]	[0]
45	- 35	- 4	- 4
50	- 37	- 9	- 9

(+) Cyclic means applications where tyres are used one way laden and return unladen (e.g loaders).

(1) One way distance 150 m, fully loaded.

(2) One way distance 600 m, fully loaded."

Annex 10, Table, amend to read:

### “Tyre classification code

(optional marking)

Classification Code	Nomenclature
F-1	Agricultural tractor steering wheel tyres: single rib tread
F-2	Agricultural tractor steering wheel tyres: multiple rib tread
F-3	Steering wheel tyres: industrial service (construction application)
G-1	Garden tractor tyres (implement tyres): traction service
G-2	Garden tractor tyres (implement tyres): flotation traction service
G-3	Garden tractor tyres (implement tyres): maximum flotation service
HF-1	High-flotation tyres: shallow rib tread
HF-2	High-flotation tyres: regular lug tread
HF-3	High-flotation tyres: deep lug tread
HF-4	High-flotation tyres: extra deep lug tread
I-1	Agricultural implement tyres: multi-rib tread
I-2	Agricultural implement tyres: moderate traction service
I-3	Agricultural implement tyres: traction tread
I-4	Agricultural implement tyres: plough tail wheel service
I-5	Agricultural implement tyres: steering service
I-6	Agricultural implement tyres: Smooth tread
LS-1	Logging and forestry service tyres: regular tread
LS-2	Logging and forestry service tyres: intermediate tread
LS-3	Logging and forestry service tyres: deep tread
LS-4	Logging and forestry service tyres: shallow tread
R-1	Agricultural tractor drive wheel tyres: regular tread
R-2	Agricultural tractor drive wheel tyres: cane and rice service (deep tread)
R-3	Agricultural tractor drive wheel tyres: flotation service (shallow tread)
R-4	Drive wheel tyres: industrial service (construction application)