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ISO 4250-1

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AMENDMENT 1
1990-12-15

Narrow and wide base off-road tyres and rims —

Part 1:

Tyre designation and dimensions

AMENDMENT 1

Pneumatiques et jantes à base étroite et à base large pour engins de génie civil —

Partie 1: Désignation et cotes des pneumatiques

AMENDEMENT 1



Reference number
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Foreword

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Amendment 1 to International Standard ISO 4250-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Sub-Committee SC 6, *Off-the-road tyres and rims*.

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Narrow and wide base off-road tyres and rims —

Part 1: Tyre designation and dimensions

AMENDMENT 1

Page 2, clause 6

Add, in numerical order, the following references to tables:

Table 3a): Narrow base tyres on SDC rims.

Table 5a): 65 series tyres.

Page 2, clause 8

Add, in numerical order, the following references to tables:

Table 6a): Diagonal and radial tyres for road graders.

Table 9: Diagonal and radial 65 series tyres.

Page 3, table 3

Add the following values after the designation 36.00 — 51.

Tyre size designation	Measuring rim width Code	Design new tyre ¹⁾		In-service ²⁾	
		Section width	Overall diameter ³⁾	Maximum overall width	Maximum overall diameter ³⁾
37.00 — 57	27.00	1 016	3 370	1 118	3 524

Beneath the existing table 3, add the following table 3a).

Table 3a) – Tyre dimensions for narrow base tyres on SDC rims

Dimensions in millimetres

Tyre size designation ^{1), 2)}	Measuring rim width Code	Design new tyre ³⁾		In-service ⁵⁾	
		Section width	Overall diameter ⁴⁾	Maximum overall width	Maximum overall diameter ⁴⁾
10.00 – 24 TG	8.00	283	1 151	306	1 184
12.00 – 24 TG	8.00	312	1 226	337	1 263
13.00 – 24 TG	8.00	333	1 278	360	1 318
14.00 – 24 TG	8.00	362	1 348	391	1 392
16.00 – 24 TG	10.00	427	1 459	474	1 527

- 1) For radial tyres, replace the dash (–) in the size designation with "R".
 - 2) "TG" is a designation to be used to identify tyres mounted on SDC rims.
 - 3) Design new tyre dimensions quoted in the tables are used for tyre design purposes only.
 - 4) Figures are based on tyres with normal tread depth. The machine manufacturer should recognize that tyres with deep tread and corresponding increased overall diameter may be used.
 - 5) In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.
- Max. overall width = [design new tyre section width (S.W.)] × (1 + tolerance)
- Tolerances: S.W. < 380 mm: + 8 %
> 380 mm: + 11 %
- Max. overall diameter = (design new tyre overall diameter – rim diameter) × (1 + tolerance) + rim diameter
- Tolerances: S.W. < 380 mm: + 6 %
> 380 mm: + 8 %
- NOTE – See ISO 4250-3 for rim diameter values.

Beneath the existing table 5, add the following table 5a).

Table 5a) – Tyre dimensions for 65 series tyres

Dimensions in millimetres

Tyre size designation ¹⁾	Measuring rim width Code	Design new tyre ²⁾		In-service ⁴⁾	
		Section width	Overall diameter ³⁾	Maximum overall width	Maximum overall diameter ³⁾
25/65 – 25	20.00	635	1 486	705	1 554
30/65 – 25	24.00	762	1 656	846	1 738
30/65 – 29	24.00	762	1 758	846	1 840
35/65 – 33	28.00	889	2 029	987	2 124
40/65 – 39	32.00	1 016	2 352	1 128	2 461
45/65 – 45	36.00	1 143	2 675	1 269	2 798
50/65 – 51	40.00	1 270	2 997	1 410	3 133

- 1) For radial tyres, replace the dash (–) in the size designation with "R".
- 2) Design new tyre dimensions quoted in the tables are used for tyre design purposes only.
- 3) Figures are based on tyres with normal tread depth. The machine manufacturer should recognize that tyres with deep tread and corresponding increased overall diameter may be used.
- 4) In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.
- Max. overall width = [design new tyre section width (S.W.)] × (1 + tolerance)
- Tolerances: S.W. < 380 mm: + 8 %
 > 380 mm: + 11 %
- Max. overall diameter = (design new tyre overall diameter – rim diameter) × (1 + tolerance) + rim diameter
- Tolerances: S.W. < 380 mm: + 6 %
 > 380 mm: + 8 %
- NOTE – See ISO 4250-3 for rim diameter values.

Page 6, table 6

Add the following values after the designation 36.00 — 51:

Tyre size designation	Recommended rims
37.00 — 57	27.00/6.0

Page 6

Beneath the existing table 6, add the following table 6a).

Table 6a) — Recommended rims for diagonal and radial tyres for road graders ¹⁾

Tyre size designation ^{2), 3)}	Recommended rims ⁴⁾
10.00 — 24 TG	8.00 TG SDC
12.00 — 24 TG	8.00 TG SDC
13.00 — 24 TG	8.00 TG SDC 10.00 VA SDC
14.00 — 24 TG	8.00 TG SDC 10.00 VA SDC
16.00 — 24 TG	10.00 VA SDC

1) The tyre and rim/wheel manufacturer should be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service or for the use of alternative rims.

2) For radial tyres, replace the dash (—) in the size designation with "R".

3) "TG" is a designation to be used to identify tyres mounted on SDC rims.

4) See ISO 4250-3 for rim contours.

Page 6

Beneath the existing table 8, add the following table 9.

Table 9 — Recommended rims for diagonal and radial 65 series tyres

Tyre size designation ^{1), 2)}	Recommended rims
25/65 — 25	19.50/2.0 20.00/2.0
30/65 — 25	24.00/3.0
30/65 — 29	24.00/3.0
35/65 — 33	28.00/3.5
40/65 — 39	32.00/4.0
45/65 — 45	36.00/4.5
50/65 — 51	40.00/4.5

1) The tyre and rim/wheel manufacturer should be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service or for the use of alternative rims.

2) For radial tyres, replace the dash (—) in the size designation with "R".

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