

# INTERNATIONAL STANDARD

# ISO 4250-1

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## Earth-mover tyres and rims — Part 1: Tyre designation and dimensions

*Pneumatiques et jantes pour engins de terrassement —  
Partie 1: Désignation et cotes des pneumatiques*



Reference number  
ISO 4250-1:2006(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 4250-1 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 6, *Off-the-road tyres and rims*.

This fourth edition cancels and replaces the third edition (ISO 4250-1:1996), which has been technically revised.

ISO 4250 consists of the following parts, under the general title *Earth-mover tyres and rims*:

- *Part 1: Tyre designation and dimensions*
- *Part 2: Loads and inflation pressures*
- *Part 3: Rims*

# Earth-mover tyres and rims —

## Part 1: Tyre designation and dimensions

### 1 Scope

ISO 4250 consists of three parts (see the Foreword) laying down the technical elements relating to designation and dimensions of tyres and rims for earth-movers; it also gives load tables for these tyres.

This part of ISO 4250 specifies designations and dimensions for earth-mover tyres, and gives the recommended rims primarily intended for earth-moving machinery as defined in ISO 6165.

### 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*

ISO 4250-2:2006, *Earth-mover tyres and rims — Part 2: Loads and inflation pressures*

ISO 4250-3:2006, *Earth-mover tyres and rims — Part 3: Rims*

ISO 6165, *Earth-moving machinery — Basic types — Identification and terms and definitions*

### 3 Terms and definitions

For the purposes of this document, the definitions given in ISO 4223-1 and ISO 4250-2 apply.

NOTE For a list of equivalent terms, see ISO 3877-1 <sup>[1]</sup>.

### 4 Tyre designation

#### 4.1 General

The designation of the tyre shall be shown on its sidewall and shall include the following details:

- size and construction characteristics (see 4.2);
- index of tyre strength (see 4.3);

and may include:

- service condition characteristics (see 4.4).

The designation may also include the various use characteristics given in 4.5 as necessary.

## 4.2 Tyre size and construction

### 4.2.1 General

The tyre size and construction shall be indicated as specified in 4.2.2 to 4.2.6.

### 4.2.2 Nominal section width

The nominal section width shall be expressed by a code. In the case of 65, 70, 75, 80 and 90 series tyres, this is followed, separated by a slash (/), by the nominal aspect ratio.

### 4.2.3 Normal aspect ratio

The nominal aspect ratio may be expressed as a percentage as a multiple of 5.

### 4.2.4 Tyre construction code

The type construction code shall be as follows:

- (dash) for diagonal/bias construction
- R for radial construction

In addition, the word "RADIAL" may also appear on the tyre.

### 4.2.5 Nominal rim diameter code

The nominal rim diameter shall be expressed by a code as given in ISO 4250-3:2006, Table 7. The suffix "TG" shall be used to identify tyres mounted on rims with a rim diameter code of 24 but having a specified diameter ( $D$ ) of 614,4 mm. The suffix "K" shall be used to identify tyres mounted on rims with a rim diameter code of 15 but having a specified diameter ( $D$ ) of 380,2 mm.

### 4.2.6 Tubeless tyres

Tubeless tyres shall be marked "TUBELESS".

## 4.3 Index of tyre strength

### 4.3.1 General

The index of tyre strength is used to identify a given tyre with its maximum recommended load when used in a specific type of service. It shall be as specified in 4.3.2 or 4.3.3.

### 4.3.2 Diagonal tyres

The index of tyre strength of diagonal/bias tyres shall be expressed by a numerical code in conjunction with the letter "PR" (ply rating), e.g. "16 PR" or by service condition characteristics as given in 4.4 or by both the numerical code and service condition characteristics.

### 4.3.3 Radial tyres

The index of tyre strength of radial tyres shall be expressed by a symbol in the form of 1, 2 or 3 stars (symbol marking), e.g. "★" or by service condition characteristics as given in 4.4 or by the symbol and service condition characteristics.

## 4.4 Service condition characteristics

### 4.4.1 General

The service condition characteristics shall be indicated as follows:

| Load index | Speed symbol | Service description |
|------------|--------------|---------------------|
|------------|--------------|---------------------|

For the specific types of service, earth-mover tyres may be marked with several service condition characteristics, for example, those for earth-moving haulage service at 50 km/h, for low speed service at 10 km/h (loading cycle), or for grader service at 40 km/h.

NOTE Definitions of operating conditions are given in ISO 4250-2:2006, 3.2.

### 4.4.2 Load index

The load index is a numerical code associated with a maximum load a tyre can carry at the speed indicated by its speed symbol under service conditions specified by the tyre manufacturer.

The correlation between load indices and tyre load-carrying capacities shall be as given in Table 1.

Table 1 — Correlation between load index (LI) and tyre load-carrying capacity (TLCC)

| LI  | TLCC<br>kg | LI  | TLCC<br>kg | LI  | TLCC<br>kg | LI  | TLCC<br>kg | LI  | TLCC<br>kg |
|-----|------------|-----|------------|-----|------------|-----|------------|-----|------------|
| 120 | 1 400      | 160 | 4 500      | 200 | 14 000     | 240 | 45 000     | 280 | 140 000    |
| 121 | 1 450      | 161 | 4 625      | 201 | 14 500     | 241 | 46 250     | 281 | 145 000    |
| 122 | 1 500      | 162 | 4 750      | 202 | 15 000     | 242 | 47 500     | 282 | 150 000    |
| 123 | 1 550      | 163 | 4 875      | 203 | 15 500     | 243 | 48 750     | 283 | 155 000    |
| 124 | 1 600      | 164 | 5 000      | 204 | 16 000     | 244 | 50 000     | 284 | 160 000    |
| 125 | 1 650      | 165 | 5 150      | 205 | 16 500     | 245 | 51 500     | 285 | 165 000    |
| 126 | 1 700      | 166 | 5 300      | 206 | 17 000     | 246 | 53 000     | 286 | 170 000    |
| 127 | 1 750      | 167 | 5 450      | 207 | 17 500     | 247 | 54 500     | 287 | 175 000    |
| 128 | 1 800      | 168 | 5 600      | 208 | 18 000     | 248 | 56 000     | 288 | 180 000    |
| 129 | 1 850      | 169 | 5 800      | 209 | 18 500     | 249 | 58 000     | 289 | 185 000    |
| 130 | 1 900      | 170 | 6 000      | 210 | 19 000     | 250 | 60 000     | 290 | 190 000    |
| 131 | 1 950      | 171 | 6 150      | 211 | 19 500     | 251 | 61 500     | 291 | 195 000    |
| 132 | 2 000      | 172 | 6 300      | 212 | 20 000     | 252 | 63 000     | 292 | 200 000    |
| 133 | 2 060      | 173 | 6 500      | 213 | 20 600     | 253 | 65 000     | 293 | 206 000    |
| 134 | 2 120      | 174 | 6 700      | 214 | 21 200     | 254 | 67 000     | 294 | 212 000    |
| 135 | 2 180      | 175 | 6 900      | 215 | 21 800     | 255 | 69 000     | 295 | 218 000    |
| 136 | 2 240      | 176 | 7 100      | 216 | 22 400     | 256 | 71 000     | 296 | 224 000    |
| 137 | 2 300      | 177 | 7 300      | 217 | 23 000     | 257 | 73 000     | 297 | 230 000    |
| 138 | 2 360      | 178 | 7 500      | 218 | 23 600     | 258 | 75 000     | 298 | 236 000    |
| 139 | 2 430      | 179 | 7 750      | 219 | 24 300     | 259 | 77 500     | 299 | 243 000    |
| 140 | 2 500      | 180 | 8 000      | 220 | 25 000     | 260 | 80 000     | 300 | 250 000    |
| 141 | 2 575      | 181 | 8 250      | 221 | 25 750     | 261 | 82 500     | 301 | 257 500    |
| 142 | 2 650      | 182 | 8 500      | 222 | 26 500     | 262 | 85 000     | 302 | 265 000    |
| 143 | 2 725      | 183 | 8 750      | 223 | 27 250     | 263 | 87 500     | 303 | 272 500    |
| 144 | 2 800      | 184 | 9 000      | 224 | 28 000     | 264 | 90 000     |     |            |
| 145 | 2 900      | 185 | 9 250      | 225 | 29 000     | 265 | 92 500     |     |            |
| 146 | 3 000      | 186 | 9 500      | 226 | 30 000     | 266 | 95 000     |     |            |
| 147 | 3 075      | 187 | 9 750      | 227 | 30 750     | 267 | 97 500     |     |            |
| 148 | 3 150      | 188 | 10 000     | 228 | 31 500     | 268 | 100 000    |     |            |
| 149 | 3 250      | 189 | 10 300     | 229 | 32 500     | 269 | 103 000    |     |            |
| 150 | 3 350      | 190 | 10 600     | 230 | 33 500     | 270 | 106 000    |     |            |
| 151 | 3 450      | 191 | 10 900     | 231 | 34 500     | 271 | 109 000    |     |            |
| 152 | 3 550      | 192 | 11 200     | 232 | 35 500     | 272 | 112 000    |     |            |
| 153 | 3 650      | 193 | 11 500     | 233 | 36 500     | 273 | 115 000    |     |            |
| 154 | 3 750      | 194 | 11 800     | 234 | 37 500     | 274 | 118 000    |     |            |
| 155 | 3 875      | 195 | 12 150     | 235 | 38 750     | 275 | 121 000    |     |            |
| 156 | 4 000      | 196 | 12 500     | 236 | 40 000     | 276 | 125 000    |     |            |
| 157 | 4 125      | 197 | 12 850     | 237 | 41 250     | 277 | 128 500    |     |            |
| 158 | 4 250      | 198 | 13 200     | 238 | 42 500     | 278 | 132 000    |     |            |
| 159 | 4 375      | 199 | 13 600     | 239 | 43 750     | 279 | 136 000    |     |            |



#### 4.4.3 Speed symbol

The speed symbol is a symbol indicating the speed at which the tyre can carry a load corresponding to its load index under service conditions specified by the tyre manufacturer.

The correlation between speed symbols and reference speeds shall be as given in Table 2.

The speed symbol(s) marked on earth-mover tyres also indicate(s) the type of operating condition(s) for which the tyre is designed.

**Table 2 — Correlation between speed symbol, operating condition and reference speed**

| Speed symbol | Reference speed<br>km/h | Operating condition   |
|--------------|-------------------------|---|
| A2           | 10                      | Slow speed service (loading), loader, dozer, industrial application, etc. |
| A8           | 40                      | Grader service  |
| B            | 50                      | Earth-mover service (transport), haulage truck, dumper, scraper, etc.     |

#### 4.4.4 Service description

The word "CYCLIC" shall be used to indicate that a tyre cannot be used continuously at the load indicated by its load index and at the speed indicated by its speed symbol. It indicates that the tyre is designed for operations in a work cycle.

Examples of tyre designation/markings are given in Table 3.

**Table 3 — Examples of tyre designation/markings**

| Nominal section width code <sup>a</sup>                                   | Construction code | Nominal rim diameter code <sup>b</sup> | Index of tyre strength | Load index | Speed symbol | Service description |
|---|-------------------|--|------------------------|------------|--------------|---------------------|
| a) Symbol-marked radial tyres   |                   |  |                        |            |              |                     |
| 30.00   | R                 | 51                                     | ★★                     | 230        | B            | CYCLIC              |
|   |                   |  |                        | 248        | A2           | CYCLIC              |
| 17.5  | R                 | 25                                     | ★                      | 176        | A2           | CYCLIC              |
| 17.5  | R                 | 25                                     | ★★                     | 167        | B            | CYCLIC              |
| 40/65   | R                 | 39                                     | ★                      | 228        | A2           | CYCLIC              |
| b) Ply-rating-marked diagonal tyres                                       |                   |  |                        |            |              |                     |
| 20.5  | —                 | 25                                     | 20 PR                  | 160        | A8           | CYCLIC              |
|   |                   |  |                        | 170        | B            |                     |
| 37.5  | —                 | 51                                     | 44 PR                  | 238        | A2           | CYCLIC              |
|   |                   |  |                        | 223        | B            | CYCLIC              |
| 16.00   | —                 | 24 TG                                  | 16 PR                  | 160        | A8           |                     |
| 21.00   | —                 | 49                                     | 40 PR                  | 206        | B            | CYCLIC              |
| a Includes, as necessary, the nominal aspect ratio (see 4.2.2 and 4.2.3). |                   |  |                        |            |              |                     |
| b Includes, as necessary, the suffix code (see 4.2.5).                    |                   |  |                        |            |              |                     |

## 4.5 Other service characteristics

### 4.5.1 Preferred direction of rotation

In the case of a preferred direction of rotation, this direction shall be indicated by an arrow.

### 4.5.2 Code for usage

Tyres may be identified by a code for usage indicating their type of service and tread design as shown in Tables 4 and 5 respectively.

The use of these identification codes is at the discretion of the individual tyre manufacturer.

**Table 4 — Type of service**

| Code | Type of service                          |
|------|--|
| C    | Compactor                                |
| E    | Earth-mover (dumper and tractor-scraper) |
| G    | Grader                                   |
| L    | Loader                                   |

**Table 5 — Tread design**

| Code <sup>a, b</sup> | Tread type              |
|----------------------|-------------------------|
| C-1                  | Smooth                  |
| C-2                  | Grooved                 |
| E-1                  | Rib                     |
| E-2                  | Traction                |
| E-3                  | Rock                    |
| E-4                  | Rock (deep tread)       |
| E-7                  | Flotation               |
| G-1                  | Rib                     |
| G-2                  | Traction                |
| G-3                  | Rock                    |
| L-2                  | Traction                |
| L-3                  | Rock                    |
| L-4                  | Rock (deep tread)       |
| L-5                  | Rock (extra-deep tread) |

<sup>a</sup> Where smooth treads are used in the "L" series, this should be denoted by the suffix "S" (for example, L-5S).

<sup>b</sup> Code types 1, 2 and 3 are designated as normal tread depth.

## 5 Tyre dimensions

The designation of dimension, measuring rim, design tyre dimension and maximum overall dimensions in-service are given in

- a) Table 6 for narrow-base tyres;
- b) Table 7 for narrow-base tyres on SDC rims;
- c) Table 8 for narrow-base tyres on 15° rim contours;
- d) Table 9 for wide-base and 75 series tyres;
- e) Table 10 for 65 and 70 series tyres;
- f) Table 11 for 80 and 90 series tyres;
- g) Table 12 for compactor tyres.

## 6 Dual spacing

Recommended minimum dual spacing should be section width  $\times$  1,2.

## 7 Approved rims

Approved rims are given in

- a) Table 13 for narrow-base tyres;
- b) Table 14 for 80 and 90 series tyres;
- c) Table 15 for narrow-base tyres on SDC rims;
- d) Table 16 for narrow-base tyres on 15° rim contours;
- e) Table 17 for wide-base and 75 series tyres for earth-movers, mining and logging service, mobile cranes, shovels, mining cars, loaders and dozers;
- f) Table 18 for 65 and 70 series tyres;
- g) Table 19 for compactor tyres;
- h) Table 20 for tyres on 5° DC rims for graders.

## 8 Method of measurement of tyre dimensions

Before measuring, the tyre shall be mounted on a measuring rim, inflated to the recommended pressure, and allowed to stand for a minimum of 24 h at normal room temperature, after which the inflation pressure shall be readjusted to the original value.

Table 6 — Tyre dimensions for narrow-base tyres

Dimensions in millimetres

| Tyre size designations <sup>a</sup> | Measuring rim width code | Design new tyre <sup>b</sup> |   | In-service <sup>c</sup>                         |   |
|-------------------------------------|--------------------------|------------------------------|---|---|---|
|                                     |                          | Section width<br><i>S</i>    | Overall diameter <sup>d</sup><br><i>D<sub>o</sub></i> | Maximum overall width<br><i>W<sub>max</sub></i> | Maximum overall diameter <sup>d</sup><br><i>D<sub>o,max</sub></i> |
| 12.00 — 20                          | 8.50                     | 315                          | 1 146   | 340   | 1 184   |
| 12.00 — 21                          |                          |                              | 1 146   |   | 1 184   |
| 12.00 — 24                          |                          |                              | 1 247   |   | 1 285   |
| 12.00 — 25                          |                          |                              | 1 247   |   | 1 285   |
| 13.00 — 24                          | 10.00                    | 351                          | 1 301   | 379   | 1 342   |
| 13.00 — 25                          |                          |                              | 1 301   |   | 1 342   |
| 14.00 — 20                          | 10.00                    | 375                          | 1 266   | 405   | 1 311   |
| 14.00 — 21                          |                          |                              | 1 266   |   | 1 311   |
| 14.00 — 24                          |                          |                              | 1 368   |   | 1 414   |
| 14.00 — 25                          |                          |                              | 1 368   |   | 1 414   |
| 16.00 — 20                          | 11.25                    | 432                          | 1 391   | 480   | 1 460   |
| 16.00 — 21                          |                          |                              | 1 391   |   | 1 460   |
| 16.00 — 24                          |                          |                              | 1 493   |   | 1 561   |
| 16.00 — 25                          |                          |                              | 1 493   |   | 1 561   |
| 18.00 — 24                          | 13.00                    | 498                          | 1 615   | 553   | 1 693   |
| 18.00 — 25                          |                          |                              | 1 615   |   | 1 693   |
| 18.00 — 33                          |                          |                              | 1 818   |   | 1 896   |
| 18.00 — 49                          |                          |                              | 2 227   |   | 2 306   |
| 21.00 — 24                          | 15.00                    | 571                          | 1 750   | 634   | 1 839   |
| 21.00 — 25                          |                          |                              | 1 750   |   | 1 839   |
| 21.00 — 35                          |                          |                              | 2 004   |   | 2 093   |
| 21.00 — 49                          |                          |                              | 2 360   |   | 2 449   |
| 24.00 — 25                          | 17.00                    | 653                          | 1 875   | 725   | 1 974   |
| 24.00 — 29                          |                          |                              | 1 975   |   | 2 074   |
| 24.00 — 35                          |                          |                              | 2 127   |   | 2 226   |
| 24.00 — 43                          |                          |                              | 2 331   |   | 2 430   |
| 24.00 — 49                          |                          |                              | 2 483   |   | 2 582   |
| 27.00 — 33                          | 22.00                    | 762                          | 2 242   | 846   | 2 354   |
| 27.00 — 49                          | 19.50                    | 737                          | 2 649   | 818   | 2 761   |
| 30.00 — 33                          | 22.00                    | 823                          | 2 389   | 914   | 2 513   |
| 30.00 — 51                          |                          |                              | 2 846   |   | 2 970   |
| 33.00 — 51                          | 24.00                    | 894                          | 2 997   | 992   | 3 133   |
| 36.00 — 51                          | 26.00                    | 988                          | 3 165   | 1 097   | 3 315   |
| 37.00 — 57                          | 27.00                    | 1 016                        | 3 370   | 1 118   | 3 524   |
| 40.00 — 57                          | 29.00                    | 1 097                        | 3 526   | 1 218   | 3 692   |

<sup>a</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>b</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>c</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

The maximum overall width in-service is given by the equation

$$W_{\max} = S (1 + a)$$

where

*S* is the design new tyre section width;

*a* = 0,08 for *S* < 380 mm;

*a* = 0,11 for *S* ≥ 380 mm.

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D) (1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

*b* = 0,06 for *S* < 380 mm

*b* = 0,08 for *S* ≥ 380 mm

<sup>d</sup> 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.

Table 7 — Tyre dimensions for narrow-base tyres on SDC rims

Dimensions in millimetres

| Tyre size designation <sup>a, b</sup> | Measuring rim width code | Design new tyre <sup>c</sup> |                               | In-service <sup>d</sup> |                                       |
|---------------------------------------|--------------------------|------------------------------|-------------------------------|-------------------------|---------------------------------------|
|                                       |                          | Section width                | Overall diameter <sup>e</sup> | Maximum overall width   | Maximum overall Diameter <sup>e</sup> |
|                                       |                          | <i>S</i>                     | <i>D<sub>o</sub></i>          | <i>W<sub>max</sub></i>  | <i>D<sub>o,max</sub></i>              |
| 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                                 |

<sup>a</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>b</sup> “TG” is a designation to be used to identify tyres mounted on rims with a specified diameter *D* of 614,4 mm.

<sup>c</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>d</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

The maximum overall width in-service is given by the equation

$$W_{\max} = S (1 + a)$$

where

*S* is the design new tyre section width;

*a* = 0,08 for *S* < 380 mm;

*a* = 0,11 for *S* ≥ 380 mm.

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D) (1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

*b* = 0,06 for *S* < 380 mm;

*b* = 0,08 for *S* ≥ 380 mm.

<sup>e</sup> 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.

Table 8 — Dimensions for narrow-base tyres on 15° rim contours

Dimensions in millimetres

| Tyre size designation | Measuring rim width code | Design new tyre <sup>a</sup> |                               | In-service <sup>c</sup> |                                       |
|-----------------------|--------------------------|------------------------------|-------------------------------|-------------------------|---------------------------------------|
|                       |                          | Section width                | Overall diameter <sup>b</sup> | Maximum overall width   | Maximum overall diameter <sup>b</sup> |
|                       |                          | <i>S</i>                     | <i>D<sub>o</sub></i>          | <i>W<sub>max</sub></i>  | <i>D<sub>o,max</sub></i>              |
| 27 — 56.5             | 20.00                    | 653                          | 2 483                         | 725                     | 2 582                                 |
| 30 — 56.5             | 22.00                    | 737                          | 2 649                         | 818                     | 2 761                                 |
| 33 — 59.5             | 23.50                    | 808                          | 2 846                         | 897                     | 2 970                                 |
| 36 — 59.5             | 27.00                    | 899                          | 2 997                         | 998                     | 3 133                                 |
| 39 — 59.5             | 27.00                    | 973                          | 3 165                         | 1 080                   | 3 315                                 |

<sup>a</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>b</sup> 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.

<sup>c</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

Table 9 — Tyre dimensions for wide-base and 75 series tyres

Dimensions in millimetres

| Tyre size Designations <sup>a</sup> | Measuring rim width code | Design new tyre <sup>b</sup> |   | In-service <sup>c</sup>                         |   |
|-------------------------------------|--------------------------|------------------------------|---|---|---|
|                                     |                          | Section width<br><i>S</i>    | Overall diameter <sup>d</sup><br><i>D<sub>o</sub></i> | Maximum overall width<br><i>W<sub>max</sub></i> | Maximum overall diameter <sup>d</sup><br><i>D<sub>o,max</sub></i> |
| 15.5 — 25                           | 12.00                    | 394                          | 1 277   | 437   | 1 328   |
| 17.5 — 25                           | 14.00                    | 445                          | 1 348   | 494   | 1 405   |
| 20.5 — 25                           | 17.00                    | 520                          | 1 492   | 577   | 1 561   |
| 23.5 — 25                           | 19.50                    | 597                          | 1 617   | 663   | 1 696   |
| 26.5 — 25                           | 22.00                    | 673                          | 1 750   | 747   | 1 839   |
| 26.5 — 29                           |                          |                              | 1 851   |   | 1 940   |
| 29.5 — 25                           | 25.00                    | 750                          | 1 873   | 833   | 1 972   |
| 29.5 — 29                           |                          |                              | 1 975   |   | 2 074   |
| 29.5 — 35                           |                          |                              | 2 127   |   | 2 226   |
| 33.25 — 29                          | 27.00                    | 845                          | 2 090   | 938   | 2 198   |
| 33.25 — 35                          |                          |                              | 2 242   |   | 2 350   |
| 33.5 — 33                           | 28.00                    | 850                          | 2 242   | 944   | 2 354   |
| 33.5 — 39                           |                          |                              | 2 395   |   | 2 507   |
| 37.25 — 35                          | 31.00                    | 946                          | 2 389   | 1 050   | 2 509   |
| 37.5 — 33                           | 32.00                    | 952                          | 2 389   | 1 057   | 2 513   |
| 37.5 — 39                           |                          |                              | 2 541   |   | 2 665   |
| 37.5 — 51                           | 32.00                    | 952                          | 2 846   | 1 057   | 2 970   |
| 40.5/75 — 39                        | 32.00                    | 1 029                        | 2 581   | 1 142   | 2 708   |

<sup>a</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>b</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>c</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.  
The maximum overall width in-service is given by the equation

$$W_{\max} = S(1 + a)$$

where

*S* is the design new tyre section width;

*a* = 0,08 for *S* < 380 mm

*a* = 0,11 for *S* ≥ 380 mm

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D)(1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

*b* = 0,06 for *S* < 380 mm

*b* = 0,08 for *S* ≥ 380 mm

<sup>d</sup> 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.

Table 10 — Tyre dimensions for 65 and 70 series tyres

Dimensions in millimetres

| Tyre size designation <sup>a</sup> | Measuring rim width code | Design new tyre <sup>b</sup> |   | In-service <sup>c</sup>                         |   |
|------------------------------------|--------------------------|------------------------------|---|---|---|
|                                    |                          | Section width<br><i>S</i>    | Overall diameter <sup>d</sup><br><i>D<sub>o</sub></i> | Maximum overall width<br><i>W<sub>max</sub></i> | Maximum overall diameter <sup>d</sup><br><i>D<sub>o,max</sub></i> |
| 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                         |                          |                              | 1 758   |   | 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 — 39                         | 36.00                    | 1 143                        | 2 522   | 1 269   | 2 645   |
| 45/65 — 45                         |                          |                              | 2 675   |   | 2 798   |
| 41.25/70 — 39                      | 32.00                    | 1 048                        | 2 452   | 1 163   | 2 569   |

<sup>a</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>b</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>c</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

The maximum overall width in-service is given by the equation

$$W_{\max} = S (1 + a)$$

where

*S* is the design new tyre section width;

*a* = 0,08 for *S* < 380 mm;

*a* = 0,11 for *S* ≥ 380 mm.

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D) (1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

*b* = 0,06 for *S* < 380 mm;

*b* = 0,08 for *S* ≥ 380 mm.

<sup>d</sup> 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.



Table 11 — Tyre dimensions for 80 and 90 series tyres

Dimensions in millimetres

| Tyre size<br>Designation | Measuring rim<br>width code | Design new tyre <sup>a</sup> |   | In-service <sup>b</sup>                            |  |
|--------------------------|-----------------------------|------------------------------|---|--|--|
|                          |                             | Section width<br><i>S</i>    | Overall diameter <sup>c</sup><br><i>D<sub>o</sub></i> | Maximum overall<br>width<br><i>W<sub>max</sub></i> | Maximum overall<br>diameter <sup>c</sup><br><i>D<sub>o,max</sub></i> |
| 21/90R33                 | 13.00                       | 533                          | 1 798   | 587  | 1 826  |
| 31/80R49                 | 22.00                       | 790                          | 2 750   | 835  | 2 543  |
| 31/90R49                 | 19.50                       | 787                          | 2 662   | 866  | 2 705  |
| 42/90R57                 | 27.00                       | 1 067                        | 3 368   | 1 173  | 3 426  |
| 46/90R57                 | 29.00                       | 1 168                        | 3 526   | 1 285  | 3 588  |
| 50/80R57                 | 34.00                       | 1 270                        | 3 480   | 1 342  | 3 541  |
| 50/90R57                 | 32.00                       | 1 270                        | 3 761   | 1 397  | 3 831  |
| 53/80R63                 | 36.00                       | 1 346                        | 3 713   | 1 481  | 3 780  |
| 55/80R63                 | 41.00                       | 1 397                        | 3 835   | 1 537  | 3 904  |
| 58/80R63                 | 44.00                       | 1 473                        | 3 830   | 1 621  | 3 897  |
| 59/80R63 <sup>d</sup>    | 44.00                       | 1 499                        | 3 998   | 1 648  | 4 070 <sup>d</sup>   |

<sup>a</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>b</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

The maximum overall width in-service is given by the equation

$$W_{\max} = S (1 + a)$$

where

*S* is the design new tyre section width;

$$a = 0,10$$

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D) (1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

$$b = 0,03.$$

<sup>c</sup> 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.

<sup>d</sup> If the grown tyre exceeds 4 028 mm, the tyre may not fit existing vehicles.

Table 12 — Tyre dimensions for compactor tyres

Dimensions in millimetres

| Tyre size Designations <sup>a</sup> | Measuring rim width code | Design new tyre <sup>b</sup> |   | In-service <sup>c</sup>                         |   |
|-------------------------------------|--------------------------|------------------------------|---|---|---|
|                                     |                          | Section width<br><i>S</i>    | Overall diameter <sup>d</sup><br><i>D<sub>o</sub></i> | Maximum overall width<br><i>W<sub>max</sub></i> | Maximum overall diameter <sup>d</sup><br><i>D<sub>o,max</sub></i> |
| 8.5/90 — 15K <sup>e</sup>           | 6.00                     | 220                          | 782   | 237   | 806   |
| 7.50 — 15                           | 6.00                     | 215                          | 782   | 232   | 806   |
| 7.50 — 16                           |                          |                              | 808   |   | 832   |
| 8.25 — 15                           | 6.50                     | 236                          | 845   | 255   | 873   |
| 8.25 — 20                           |                          |                              | 972   |   | 1 000   |
| 9.00 — 20                           | 7.00                     | 259                          | 1 016   | 280   | 1 046   |
| 10.00 — 20                          | 7.50                     | 278                          | 1 051   | 300   | 1 083   |
| 11.00 — 20                          | 8.00                     | 293                          | 1 083   | 316   | 1 117   |
| 12.00 — 16                          | 8.50                     | 315                          | 1 021   | 340   | 1 058   |
| 12.00 — 20                          |                          |                              | 1 122   |   | 1 159   |
| 13.00 — 24                          | 10.00                    | 351                          | 1 276   | 379   | 1 316   |
| 14.00 — 24                          | 10.00                    | 375                          | 1 340   | 405   | 1 383   |
| 10.5/80 — 16                        | 8.00                     | 263                          | 812   | 284   | 836   |
| 11/80 — 20                          | 8.00                     | 282                          | 922   | 305   | 982   |
| 13/80 — 20                          | 9.00                     | 326                          | 1 048   | 352   | 1 080   |
| 17/80 — 20                          | 10.00                    | 412                          | 1 340   | 457   | 1 406   |

<sup>a</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>b</sup> Design new tyre dimensions quoted are used for tyre design purposes only.

<sup>c</sup> In-service dimensions are the maximum dimensions for grown tyres in-service for use by machine manufacturers in designing for tyre clearances.

The maximum overall width in-service is given by the equation

$$W_{\max} = S (1 + a)$$

where

*S* is the design new tyre section width;

*a* = 0,08 for *S* < 380 mm;

*a* = 0,11 for *S* ≥ 380 mm.

The maximum overall diameter in-service is given by the equation

$$D_{o, \max} = (D_o - D) (1 + b) + D$$

where

*D* is the rim diameter specified in ISO 4250-3;

*b* = 0,06 for *S* < 380 mm;

*b* = 0,08 for *S* ≥ 380 mm.

<sup>d</sup> 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.

<sup>e</sup> The suffix “K” shall be used to identify tyres mounted on rims with a rim diameter code of 15 but having special diameter (*D*) of 380,2 mm.

**Table 13 — Approved rims for diagonal and radial narrow-base tyres for earth-movers, mobile cranes, shovels, mining cars, loaders and dozers**

| Tyre size designation <sup>a, b</sup>  | Approved rims <sup>c</sup>       |
|--|----------------------------------|
| 12.00 — 20   | 8.00V, 8.5, 8.50V, 8.5V5°, 9.00V |
| 12.00 — 21   | 8.50/1.3                         |
| 12.00 — 24   | 8.00V, 8.5, 8.50V, 8.5V5°, 9.00V |
| 12.00 — 25   | 8.50/1.3                         |
| 13.00 — 24   | 8.50V, 9.00V, 10.00W, 10.00WI    |
| 13.00 — 25   | 10.00/1.5                        |
| 14.00 — 20   | 9.00V, 10.00W, 10.00WI           |
| 14.00 — 21   | 10.00/1.5                        |
| 14.00 — 24   | 9.00V, 10.00W, 10.00WI           |
| 14.00 — 25   | 10.00/1.5                        |
| 16.00 — 20   | 11.25/2.0                        |
| 16.00 — 21   | 11.25/2.0                        |
| 16.00 — 24   | 11.25/2.0                        |
| 16.00 — 25   | 11.25/2.0                        |
| 18.00 — 24   | 13.00/2.5                        |
| 18.00 — 25   | 13.00/2.5                        |
| 18.00 — 33   | 13.00/2.5                        |
| 18.00 — 49   | 13.00/2.75                       |
| 21.00 — 24   | 15.00/3.0                        |
| 21.00 — 25   | 15.00/3.0                        |
| 21.00 — 35   | 15.00/3.0                        |
| 21.00 — 49   | 15.00/3.0                        |
| 24.00 — 25   | 17.00/3.5                        |
| 24.00 — 29   | 17.00/3.5                        |
| 24.00 — 35   | 17.00/3.5                        |
| 24.00 — 43   | 17.00/3.5                        |
| 24.00 — 49   | 17.00/3.5                        |
| 27.00 — 33   | 22.00/4.0                        |
| 27.00 — 49   | 19.50/4.0                        |
| 30.00 — 33   | 22.00/4.5                        |
| 30.00 — 51   | 22.00/4.5                        |
| 33.00 — 51   | 24.00/5.0                        |
| 36.00 — 51   | 26.00/5.0                        |
| 37.00 — 57   | 27.00/6.0                        |
| 40.00 — 57   | 29.00/6.0                        |
| <p><sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.</p> <p><sup>b</sup> For radial tyres, replace the dash (—) in the size designation with “R”.</p> <p><sup>c</sup> See ISO 4250-3 for rim contours.</p> |                                  |

**Table 14 — Approved rims for radial 80 and 90 series tyres**

| Tyre size designation <sup>a</sup> | Approved rims <sup>b</sup> |
|------------------------------------|----------------------------|
| 31/80R49                           | 22.00/3.5                  |
| 50/80R57                           | 34.00/5.0                  |
| 53/80R63                           | 36.00/5.0                  |
| 55/80R63                           | 41.00/5.0                  |
| 58/80R63                           | 44.00/5.0                  |
| 59/80R63                           | 44.00/5.0                  |
| 21/90R33                           | 13.00/2.5                  |
| 31/90R49                           | 19.50/4.0                  |
| 42/90R57                           | 27.00/6.0                  |
| 46/90R57                           | 29.00/6.0, 32.00/6.0       |
| 50/90R57                           | 32.00/6.5                  |

<sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> See ISO 4250-3 for rim contours.

**Table 15 — Approved rims for diagonal and radial narrow-base tyres on SDC rims for road graders**

| Tyre size designation <sup>a, b, c</sup> | Approved rims <sup>d</sup> |
|--|----------------------------|
| 10.00 — 24 TG                            | 8.00 TG                    |
| 12.00 — 24 TG                            | 8.00 TG                    |
| 13.00 — 24 TG                            | 8.00 TG<br>10.00 VA        |
| 14.00 — 24 TG                            | 8.00 TG<br>10.00 VA        |
| 16.00 — 24 TG                            | 10.00 VA                   |

<sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> For radial tyres, replace the dash (—) in the size designation with “R”.

<sup>c</sup> “TG” is a designation to be used to identify tyres mounted on SDC rims.

<sup>d</sup> See ISO 4250-3 for rim contours.

**Table 16 — Approved rims for diagonal and radial narrow-base tyres on 15° rim contours**

| Tyre size designation <sup>a</sup> | Approved rims <sup>b</sup> |
|------------------------------------|----------------------------|
| 27 — 56.5                          | 20.0, 21.0                 |
| 30 — 56.5                          | 22.0, 21.0                 |
| 33 — 59.5                          | 23.5                       |
| 36 — 59.5                          | 27.0                       |
| 39 — 59.5                          | 27.0                       |

<sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> See ISO 4250-3 for rim contours.

**Table 17 — Approved rims for diagonal and radial wide-base and 75 series tyres for earth-movers, mining and logging service, mobile cranes, shovels, mining cars, loaders and dozers**

| Tyre size designation <sup>a, b</sup> | Approved rims <sup>c</sup>  |
|---------------------------------------|---|
| 15.5 — 25                             | 12.00/1.3, 12.00(DC) <sup>d</sup><br>12.00/1.3 (SDC), 13.00/1.4             |
| 17.5 — 25                             | 13.00/1.4, 13.00/1.3, 13.00(DC) <sup>d</sup> , 14.00/1.5<br>14.00/1.3 (SDC) |
| 20.5 — 25                             | 17.00/2.0<br>17.00/1.7  |
| 23.5 — 25                             | 19.50/2.5   |
| 26.5 — 25                             | 22.00/3.0   |
| 26.5 — 29                             | 22.00/3.0   |
| 29.5 — 25                             | 25.00/3.5   |
| 29.5 — 29                             | 24.00/3.5, 25.00/3.5, 26.00/3.5   |
| 29.5 — 35                             | 25.00/3.5   |
| 33.25 — 29                            | 26.00/3.5, 27.00/3.5  |
| 33.25 — 35                            | 27.00/3.5, 29.00/3.5  |
| 33.5 — 33                             | 28.00/4.0   |
| 33.5 — 39                             | 28.00/4.0   |
| 37.25 — 35                            | 29.00/3.5 <sup>e</sup> , 31.00/4.0  |
| 37.5 — 33                             | 32.00/4.5   |
| 37.5 — 39                             | 32.00/4.5   |
| 37.5 — 51                             | 32.00/4.5   |
| 40.5/75 — 39                          | 32.00/4.5   |

<sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> For radial tyres, replace the dash in the size designation with "R".

<sup>c</sup> See ISO 4250-3 for rim contours.

<sup>d</sup> Maximum 16 PR or one star (★).

<sup>e</sup> For earth-mover service only.

Table 18 — Approved rims for diagonal and radial 65 and 70 series tyres

| Tyre size designation <sup>a, b</sup> | Approved rims <sup>c</sup> |
|---------------------------------------|----------------------------|
| 25/65 — 25                            | 19.50/2.0<br>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 — 39                            | 36.00/4.5                  |
| 45/65 — 45                            | 36.00/4.5                  |
| 50/65 — 51                            | 40.00/4.5                  |
| 41.25/70 — 39                         | 32.00/4.5                  |

<sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> For radial tyres, replace the dash (—) in the size designation with "R".

<sup>c</sup> See ISO 4250-3 for rim contours.

Table 19 — Approved rims for diagonal and radial compactor tyres

| Tyre size designation <sup>a, b</sup> | Approved rims <sup>c</sup>              |
|---------------------------------------|---|
| 8.5/90 — 15K <sup>d</sup>             | 5.50F                                   |
| 7.50 — 15 <sup>d</sup>                | 6.0, 6.00 GS, 6.5                       |
| 7.50 — 16                             | 5.50F, 6LB, 6.0, 6.00 GS                |
| 8.25 — 15                             | 6.0, 6.5, 6.50T, 7.0                    |
| 8.25 — 20                             | 6.0, 6.00S, 6.5, 6.50T, 7.0, 7.00T      |
| 9.00 — 20                             | 6.5, 6.50T, 7.00, 7.00T, 7.5            |
| 10.00 — 20                            | 7.0, 7.5, 8.0                           |
| 11.00 — 20                            | 7.5, 7.50V, 8.0, 8.00V, 8.5, 8.50V, 9.0 |
| 12.00 — 16                            | 8.50V                                   |
| 12.00 — 20                            | 8.00V, 8.50V, 9.00V                     |
| 13.00 — 24                            | 8.50V, 9.0, 9.00V, 10.00W, 10.00WI      |
| 14.00 — 24                            | 10.0, 10.00W                            |
| 10.5/80 — 16                          | 8 LB                                    |
| 11/80 — 20                            | 8.00                                    |
| 13/80 — 20                            | 9.0, 10.0                               |
| 17/80 — 24                            | 10.0, 10.00W                            |

<sup>a</sup> The tyre and rim/wheel manufacturers shall be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.

<sup>b</sup> For radial tyres, replace the dash (—) in the size designation with "R".

<sup>c</sup> See ISO 4250-3 or ISO 4251-3 for rim contours.

<sup>d</sup> Tyres are designed for fitment on a specific rim only. They are not interchangeable. The tyre manufacturer shall be consulted to assure correct tyre/rim combination.

Table 20 — Approved rims for diagonal and radial tyres on 5° DC rims for graders

| Tyre size designations <sup>a, b, c</sup>   | Approved rims <sup>d</sup> |
|---|----------------------------|
| 13.00 — 24 TG   | 9.00/1.5, 10.00/1.3        |
| 14.00 — 24 TG   | 9.00/1.5, 10.00/1.3        |
| 16.00 — 24 TG   | 9.00/1.5, 10.00/1.3        |
| <p><sup>a</sup> The tyre and rim/wheel manufacturers shall however be consulted for confirmation of the suitability of the tyre/wheel assembly for the intended service.</p> <p><sup>b</sup> For radial tyres, replace the dash in the size designation with "R".</p> <p><sup>c</sup> Maximum 16 PR or one star "★".</p> <p><sup>d</sup> See ISO 4250-3 for rim contours.</p> |                            |

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