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

Part 4:

**Tyre classification and nomenclature**

*Pneumatiques (série à marquage «équivalent nappe») et jantes pour  
tracteurs et machines agricoles*

*Partie 4: Nomenclature et classification des pneumatiques*

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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 4251-4 was prepared by Technical Committee ISO/TC 31, *Tyres, rims and valves*, Subcommittee SC 5, *Agricultural tyres and rims*.

This third edition cancels and replaces the second edition (ISO 4251-4:1992) 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*

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

## Part 4: Tyre classification and nomenclature

### 1 Scope

This part of ISO 4251 specifies the classification codes and nomenclature of the ply rating marked series of tyres for agricultural tractors and machines.

Tyre designation and dimensions, load ratings, and specific log skidder tyres are given in ISO 4251-1, ISO 4251-2 and ISO 4251-5, 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.

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ISO 4223-1:2002, *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 Tyre classification and tyre nomenclature

Definitions of tyres, depending on their purpose, are given in Table 1.

Nomenclature and classification code markings are given in Table 2.

The classification code is not part of the size marking and its use is optional. When used, the code shall be clearly separated from the size marking on the tyres.

**Table 1 — Definition of tyres depending on their purpose**

Tractor-drive wheel tyre	A tyre designed to be fitted to driven axles of agricultural and forestry tractors suitable for sustained high torque service
Tractor-steering wheel tyre	A tyre designed to be fitted to non-driven axles of agricultural and forestry tractors
Implement tyre	A tyre designed primarily for agricultural machines or implements or for agricultural trailers which is not suitable for sustained high torque service
Traction tyre	A tyre designed primarily for the equipment of driven (trailed) axles of implements or agricultural machinery, excluding sustained high torque services
Trailer tyre	A tyre designed for the equipment of non driven (trailed) axles of implements agricultural machinery or trailers
Logging service tyre	Special design agricultural tyre suitable for forestry application
High flotation tyres	A class of tyres designed with larger volume that may provide lower surface contact pressure than tyres with similar overall diameters typically with a 3-part size designation: (nominal overall diameter × nominal section width) – rim diameter code

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Table 2 — Tyre classification code and tyre nomenclature

Classification code	Tyre nomenclature
<b>R</b> Agricultural tractor drive wheel tyres	
R-1	Regular service (tread)
R-1W	Wet traction service
R-1S	Sprayer/spreader service
R-2	Cane and rice service (deep tread)
R-3	Flotation service (shallow tread)
R-4	Industrial service (construction application)
<b>F</b> Agricultural tractor steering wheel tyres (non-traction pattern)	
F-1	Single rib tread
F-2	Multiple rib tread
F-3	Flotation multi-rib (construction application)
<b>I</b> Agricultural implement tyres	
I-1	Multi-rib tread
I-2	Moderate traction service
I-3	Traction tread
I-4	Plough tail wheel service
I-5	Steering service
I-6	Smooth tread
<b>G</b> Garden tractor tyres	
G-1	Traction service
G-2	Flotation traction service
G-3	Maximum flotation service
<b>LS</b> Logging service tyres	
LS-1	Regular tread
LS-2	Intermediate tread
LS-3	Deep tread
LS-4	Shallow tread
<b>HF</b> Tread	
HF-1	Shallow tread
HF-2	Regular tread
HF-3	Deep tread
HF-4	Extra deep tread

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