

# ISO 4000-1:2021 (E)

## Passenger car tyres and rims — Part 1: Tyres (metric series)

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Designation
4.1	Size and construction
4.1.1	Characteristics
4.1.2	Nominal section width
4.1.3	Nominal aspect ratio
4.1.4	Tyre construction code
4.1.5	Nominal rim diameter code
4.2	Service description
4.2.1	General
4.2.2	Load index
4.2.3	Speed symbol
4.2.4	Speed category
4.3	Other service characteristics
5	Marking
6	Tyre dimensions
6.1	Rounding values
6.2	Calculation of design tyre dimensions
6.2.1	Theoretical rim width, $R_{th}$
6.2.2	Measuring rim width code, $R_{mc}$
6.2.3	Design tyre section width, $S$
6.2.4	Design tyre section height, $H$
6.2.5	Design tyre overall diameter, $D_0$
6.2.6	Guidelines
6.3	Calculation of maximum overall (grown) tyre dimensions in service tyre mounted on their measuring rims
6.3.1	General
6.3.2	Maximum overall (grown) width in service, $W_{max}$
6.3.3	Maximum overall (grown) diameter in service, $D_{0,max}$
6.4	Calculation of minimum tyre dimensions for radial tyres mounted on their measuring rims
6.4.1	Minimum tyre section width, $S_{min}$
6.4.2	Minimum tyre overall diameter, $D_{0,min}$
6.5	Range of approved rims
7	Tyre dimension measurement procedure
8	Inflation pressures
9	Load carrying-capacities
10	Choice of tyre sizes
11	Camber angle

**Annex A (informative) Guideline values for metric-series tyres**

**Annex B (normative) Load indices for passenger car tyres**

**Annex C (normative) Minimum inflation pressure for intermediate load**

**Annex D (informative) Other existing size markings**

**Page count: 52**