

DIN ISO 4000-1:2022-11 (E)

Passenger car tyres and rims - Part 1: Tyres (metric series) (ISO 4000-1:2021)

Contents		Page
National foreword		4
National Annex NA (informative) Bibliography		5
Foreword		6
1	Scope	7
2	Normative references	7
3	Terms and definitions	7
4	Designation	7
4.1	Size and construction	7
4.1.1	Characteristics	7
4.1.2	Nominal section width	8
4.1.3	Nominal aspect ratio	8
4.1.4	Tyre construction code	8
4.1.5	Nominal rim diameter code	8
4.2	Service description	9
4.2.1	General	9
4.2.2	Load index	9
4.2.3	Speed symbol	9
4.2.4	Speed category	10
4.3	Other service characteristics	10
5	Marking	12
6	Tyre dimensions	12
6.1	Rounding values	12
6.2	Calculation of design tyre dimensions	13
6.2.1	Theoretical rim width, R_{th}	13
6.2.2	Measuring rim width code, R_{mc}	13
6.2.3	Design tyre section width, S	13
6.2.4	Design tyre section height, H	14
6.2.5	Design tyre overall diameter, D_0	14
6.2.6	Guidelines	14
6.3	Calculation of maximum overall (grown) tyre dimensions in service tyre mounted on their measuring rims	14
6.3.1	General	14
6.3.2	Maximum overall (grown) width in service, W_{max}	14
6.3.3	Maximum overall (grown) diameter in service, $D_{0,max}$	15
6.4	Calculation of minimum tyre dimensions for radial tyres mounted on their measuring rims	15
6.4.1	Minimum tyre section width, S_{min}	15
6.4.2	Minimum tyre overall diameter, $D_{0,min}$	15
6.5	Range of approved rims	15
7	Tyre dimension measurement procedure	16
8	Inflation pressures	16
9	Load carrying-capacities	17
10	Choice of tyre sizes	17
11	Camber angle	18

Annex A (informative) Guideline values for metric-series tyres	20
Annex B (normative) Load indices for passenger car tyres	28
Annex C (normative) Minimum inflation pressure for intermediate load	48
Annex D (informative) Other existing size markings	56
Bibliography	58