



TYRE DATA BOOKLET

305/645-18 DHA

305/645-18 WH

2020 | 2021

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INTRODUCTION

INTRODUCTION

This document provides the user with technical information regarding several aspects of the tyre characteristics. The data was acquired using indoor testing methods on physical tyres.

For individual car fitments, usage guidelines and prescriptions for camber and pressure please refer to the relevant Pirelli Technical Booklet, which is included as part of this Pirelli Data Package.



STATIC MEASUREMENTS

Slick Tyres				
Size & Fitment	Nominal Weight	Max Width (C)	Circumference (πD)	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
305/645-18 DHA 18"x11.0J	10.4	305	2046	295

Wet Tyres				
Size & Fitment	Nominal Weight	Max Width (C)	Circumference (πD)	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
305/645-18 WH 18"x11.0J	11.6	303	2047	TBA



DYNAMIC MEASUREMENTS @ 2.0bar (29psi), CA 0.0°

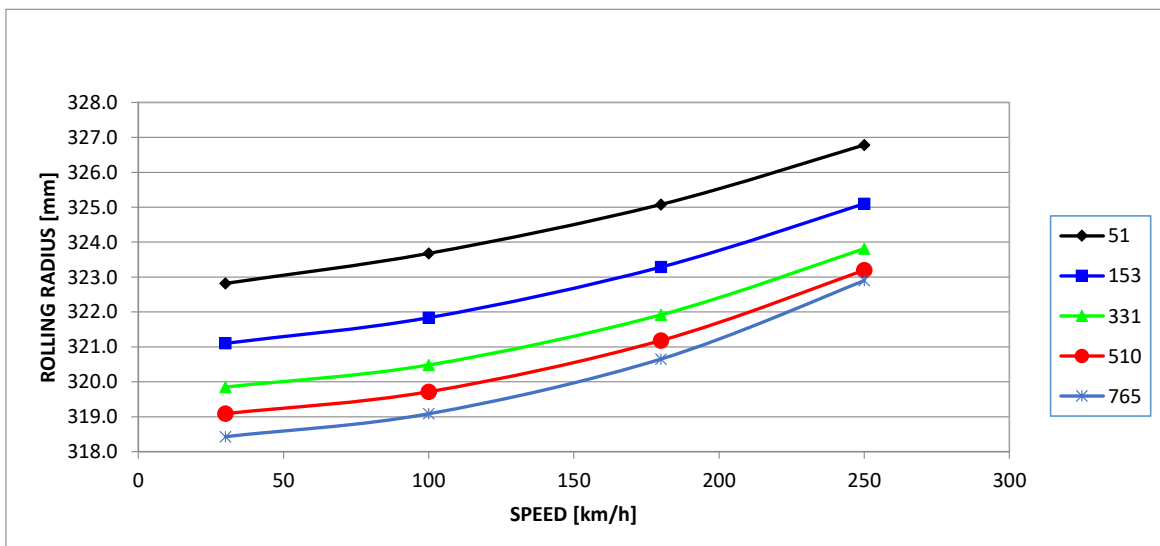
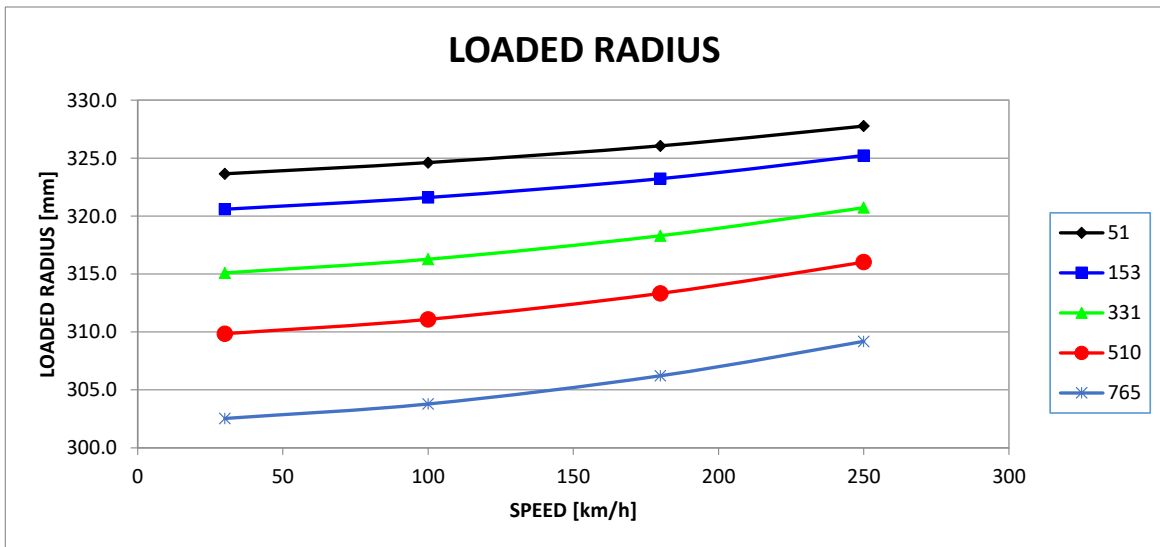
305/645-18x11.0J DHA

LOADED RADIUS

		LOAD [kg]					
		51	153	331	510	637	765
SPEED [km/h]	30	323.6	320.6	315.1	309.8	306.2	302.5
	100	324.6	321.6	316.3	311.1	307.4	303.8
	180	326.1	323.2	318.3	313.3	309.8	306.2
	250	327.8	325.2	320.7	316.0	312.6	309.2

ROLLING RADIUS

		LOAD [kg]					
		51	153	331	510	637	765
SPEED [km/h]	30	322.8	321.1	319.8	319.1	318.7	318.4
	100	323.7	321.8	320.5	319.7	319.3	319.1
	180	325.1	323.3	321.9	321.2	320.9	320.7
	250	326.8	325.1	323.8	323.2	323.0	322.9





DYNAMIC MEASUREMENTS @ 2.0bar (29psi), CA 0.0°

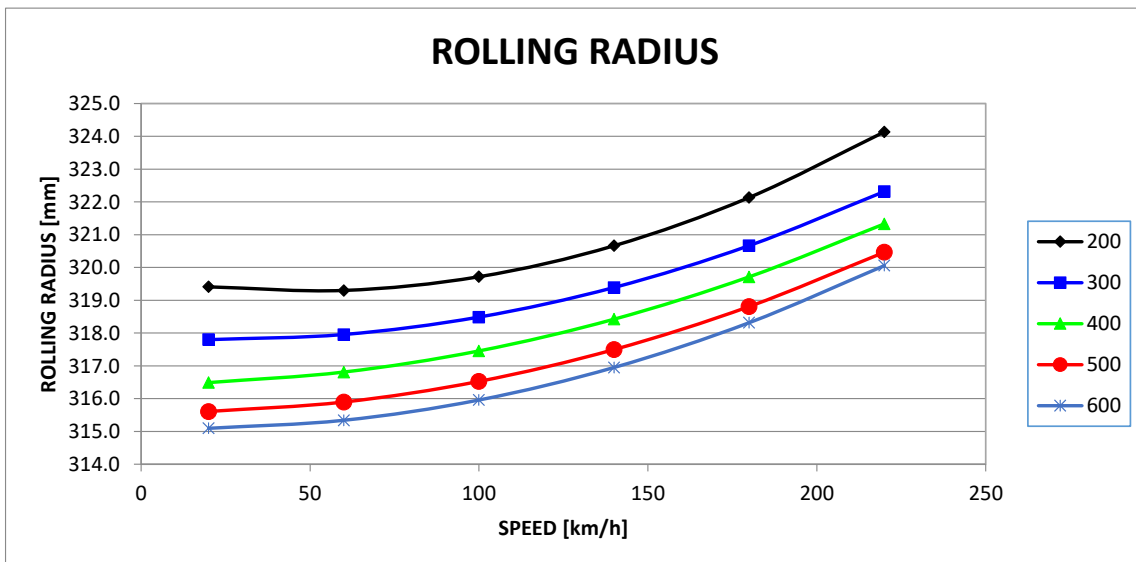
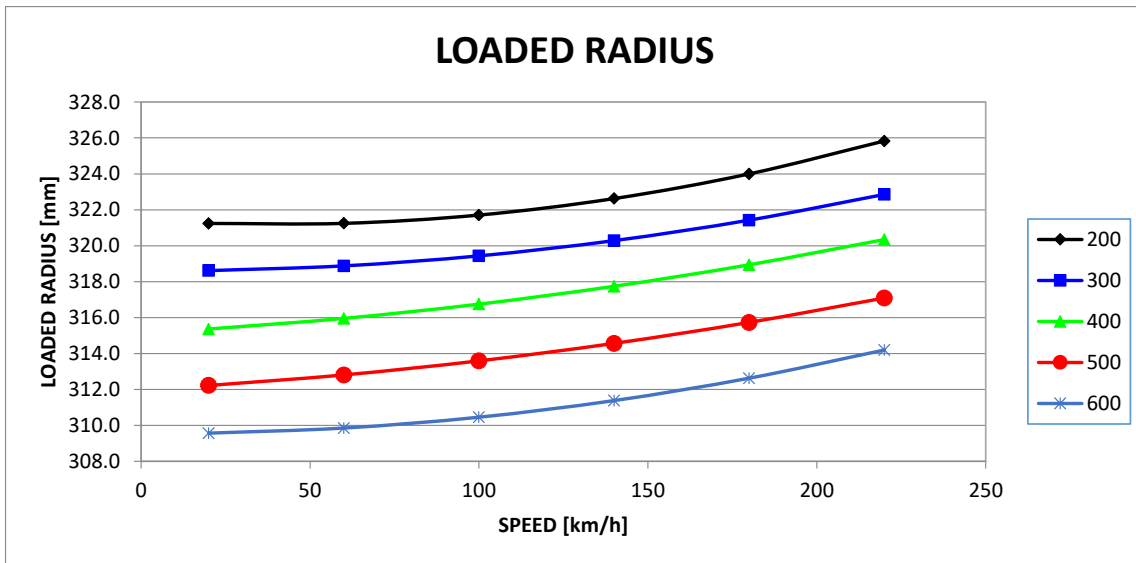
305/645-18x11.0J WH

LOADED RADIUS

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	321.2	318.6	315.4	312.2	309.6
	60	321.2	318.9	316.0	312.8	309.9
	100	321.7	319.4	316.7	313.6	310.5
	140	322.6	320.3	317.7	314.6	311.4
	180	324.0	321.4	318.9	315.7	312.6
	220	325.8	322.9	320.3	317.1	314.2

ROLLING RADIUS

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	319.4	317.8	316.5	315.6	315.1
	60	319.3	318.0	316.8	315.9	315.3
	100	319.7	318.5	317.5	316.5	316.0
	140	320.7	319.4	318.4	317.5	317.0
	180	322.1	320.7	319.7	318.8	318.3
	220	324.1	322.3	321.3	320.5	320.1



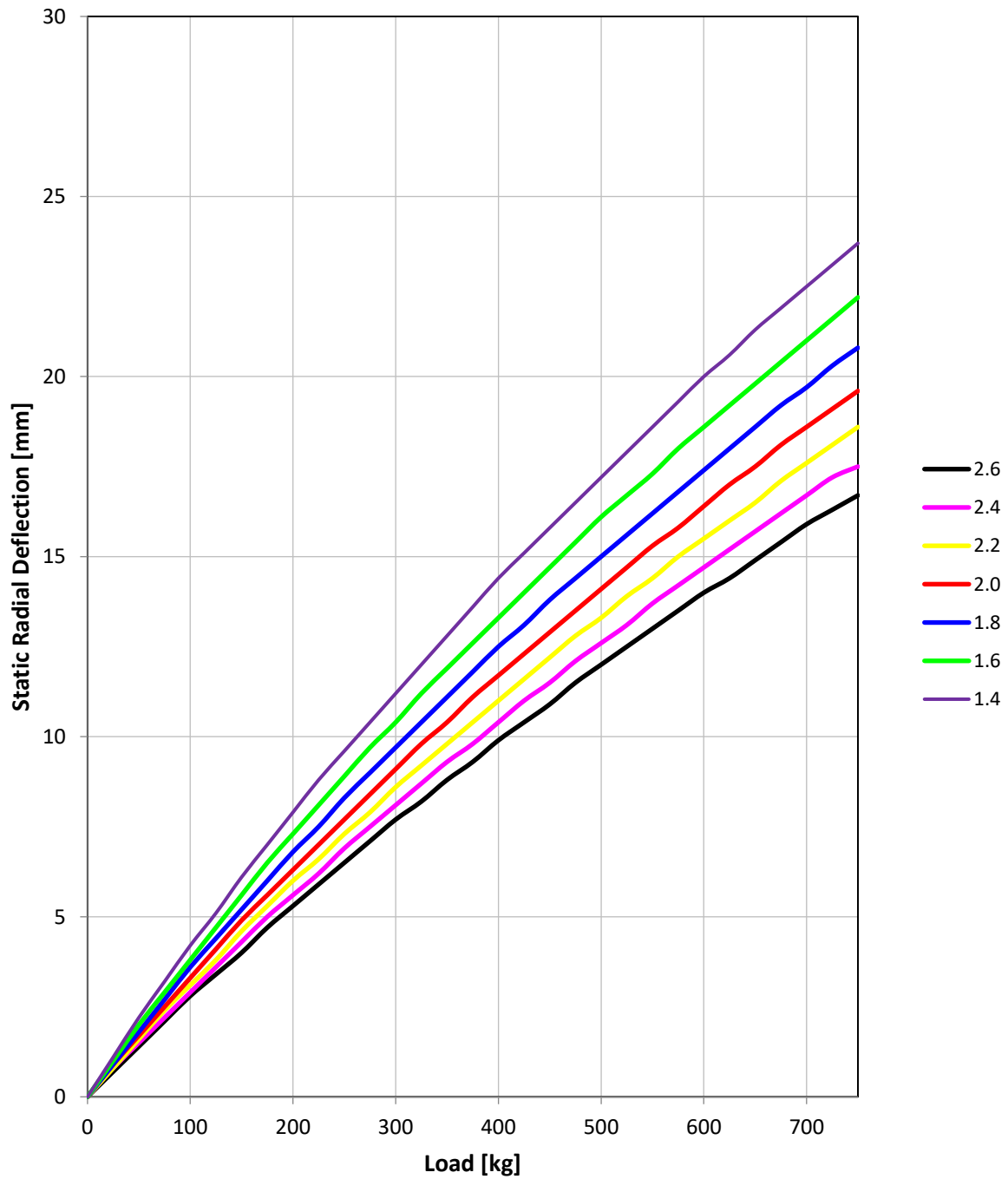


STATIC RADIAL DEFLECTION – 305/645-18x11.0J @ CA 0.0 ° DHA

Load [kg]	Inflation Pressure [bar]						
	2.6	2.4	2.2	2.0	1.8	1.6	1.4
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.7	0.8	0.8	0.9	0.9	1.0	1.1
50	1.4	1.5	1.6	1.7	1.8	2.0	2.2
75	2.1	2.2	2.4	2.5	2.7	2.9	3.2
100	2.8	2.9	3.1	3.3	3.6	3.8	4.2
125	3.4	3.6	3.8	4.1	4.4	4.7	5.1
150	4.0	4.3	4.6	4.9	5.2	5.6	6.1
175	4.7	5.0	5.3	5.6	6.0	6.5	7.0
200	5.3	5.6	6.0	6.3	6.8	7.3	7.9
225	5.9	6.2	6.6	7.0	7.5	8.1	8.8
250	6.5	6.9	7.3	7.7	8.3	8.9	9.6
275	7.1	7.5	7.9	8.4	9.0	9.7	10.4
300	7.7	8.1	8.6	9.1	9.7	10.4	11.2
325	8.2	8.7	9.2	9.8	10.4	11.2	12.0
350	8.8	9.3	9.8	10.4	11.1	11.9	12.8
375	9.3	9.8	10.4	11.1	11.8	12.6	13.6
400	9.9	10.4	11.0	11.7	12.5	13.3	14.4
425	10.4	11.0	11.6	12.3	13.1	14.0	15.1
450	10.9	11.5	12.2	12.9	13.8	14.7	15.8
475	11.5	12.1	12.8	13.5	14.4	15.4	16.5
500	12.0	12.6	13.3	14.1	15.0	16.1	17.2
525	12.5	13.1	13.9	14.7	15.6	16.7	17.9
550	13.0	13.7	14.4	15.3	16.2	17.3	18.6
575	13.5	14.2	15.0	15.8	16.8	18.0	19.3
600	14.0	14.7	15.5	16.4	17.4	18.6	20.0
625	14.4	15.2	16.0	17.0	18.0	19.2	20.6
650	14.9	15.7	16.5	17.5	18.6	19.8	21.3
675	15.4	16.2	17.1	18.1	19.2	20.4	21.9
700	15.9	16.7	17.6	18.6	19.7	21.0	22.5
725	16.3	17.2	18.1	19.1	20.3	21.6	23.1
750	16.7	17.5	18.6	19.6	20.8	22.2	23.7
775							
800							



STATIC RADIAL DEFLECTION – 305/645-18x11.0J @ CA 0.0° DHA





STATIC RADIAL DEFLECTION – 305/645-18x11.0J @ CA -3.0 ° DHA

Load [kg]	Inflation Pressure [bar]						
	2.6	2.4	2.2	2.0	1.8	1.6	1.4
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.0	1.1	1.1	1.2	1.3	1.4	1.5
50	1.9	2.1	2.2	2.3	2.5	2.7	2.9
75	2.8	3.0	3.2	3.4	3.6	3.9	4.2
100	3.7	3.9	4.1	4.4	4.7	5.0	5.4
125	4.5	4.8	5.0	5.3	5.7	6.1	6.5
150	5.3	5.6	5.9	6.2	6.6	7.1	7.6
175	6.1	6.4	6.7	7.1	7.6	8.1	8.7
200	6.8	7.1	7.5	8.0	8.5	9.0	9.7
225	7.5	7.9	8.3	8.8	9.3	9.9	10.6
250	8.2	8.6	9.1	9.6	10.1	10.8	11.5
275	8.8	9.3	9.8	10.3	10.9	11.6	12.4
300	9.5	10.0	10.5	11.1	11.7	12.5	13.3
325	10.1	10.6	11.2	11.8	12.5	13.3	14.1
350	10.7	11.3	11.6	12.5	13.2	14.0	15.0
375	11.3	11.9	12.5	13.2	13.9	14.8	15.8
400	11.9	12.5	13.1	13.9	14.6	15.5	16.5
425	12.5	13.1	13.8	14.5	15.3	16.2	17.3
450	13.1	13.7	14.4	15.1	16.0	16.9	18.0
475	13.6	14.3	15.0	15.8	16.6	17.6	18.8
500	14.2	14.8	15.6	16.4	17.3	18.3	19.5
525	14.7	15.4	16.2	17.0	17.9	19.0	20.2
550	15.3	15.9	16.7	17.6	18.5	19.6	20.9
575	15.8	16.5	17.3	18.2	19.1	20.3	21.5
600	16.3	17.0	17.8	18.7	19.7	20.9	22.2
625	16.8	17.5	18.4	19.3	20.3	21.5	22.8
650	17.3	18.0	18.9	19.8	20.9	22.1	23.5
675	17.8	18.5	19.4	20.4	21.5	22.7	24.1
700	18.2	19.0	19.9	20.9	22.0	23.3	24.7
725	18.7	19.5	20.4	21.5	22.6	23.9	25.3
750	19.2	20.0	20.9	22.0	23.1	24.4	25.9
775							
800							



STATIC RADIAL DEFLECTION – 305/645-18x11.0J @ CA -3.0° DHA

