



# TYRE DATA BOOKLET

**305/645-18 DHF**

**305/645-18 WH**

**2022**

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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 ( $\pi D$ )	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
<b>305/645-18</b> <b>DHF</b> <b>18"x11.0J</b>	10.3	307	2038	295

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



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

305/645-18x11.0J DHF

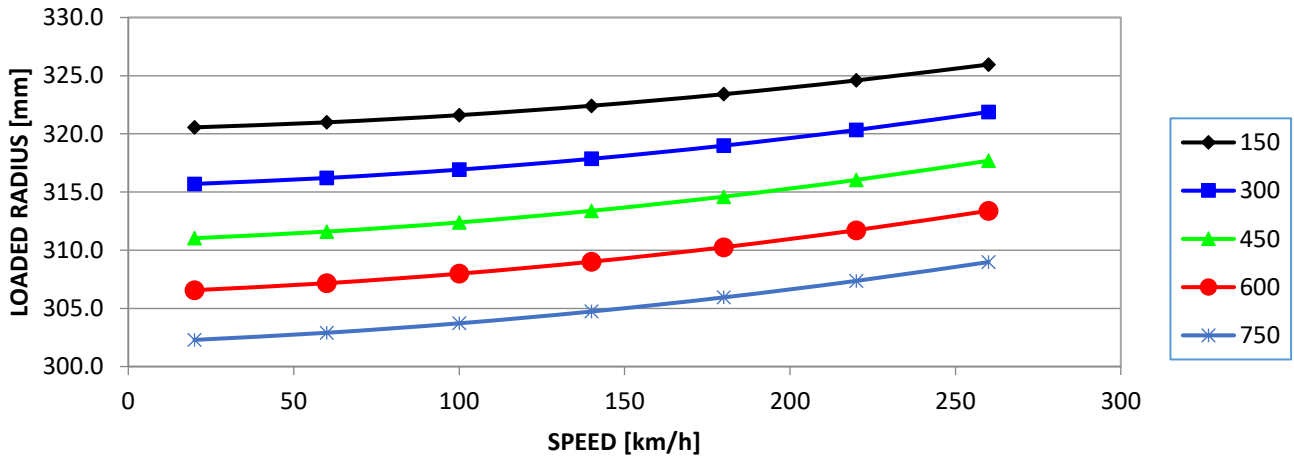
### LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	320.6	315.7	311.0	306.6	302.3
60	321.0	316.2	311.6	307.2	302.9
100	321.6	316.9	312.4	308.0	303.7
140	322.4	317.9	313.4	309.0	304.7
180	323.4	319.0	314.6	310.3	305.9
220	324.6	320.3	316.0	311.7	307.4
260	326.0	321.9	317.7	313.4	309.0
280					
300					

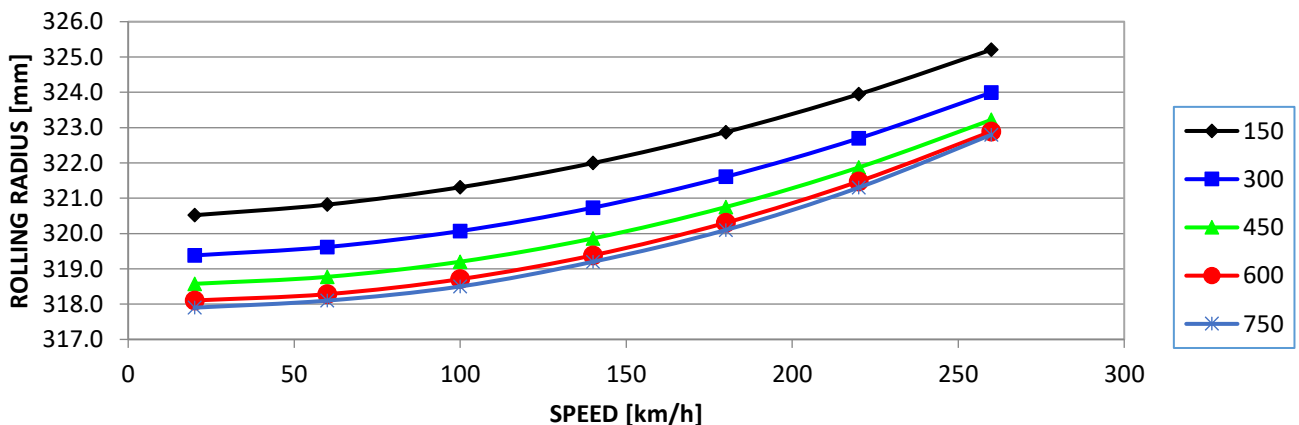
### ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	320.5	319.4	318.6	318.1	317.9
60	320.8	319.6	318.8	318.3	318.1
100	321.3	320.1	319.2	318.7	318.5
140	322.0	320.7	319.9	319.4	319.2
180	322.9	321.6	320.8	320.3	320.1
220	323.9	322.7	321.9	321.5	321.3
260	325.2	324.0	323.2	322.9	322.8
280					
300					

### LOADED RADIUS



### ROLLING RADIUS





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

305/645-18x11.0J WH

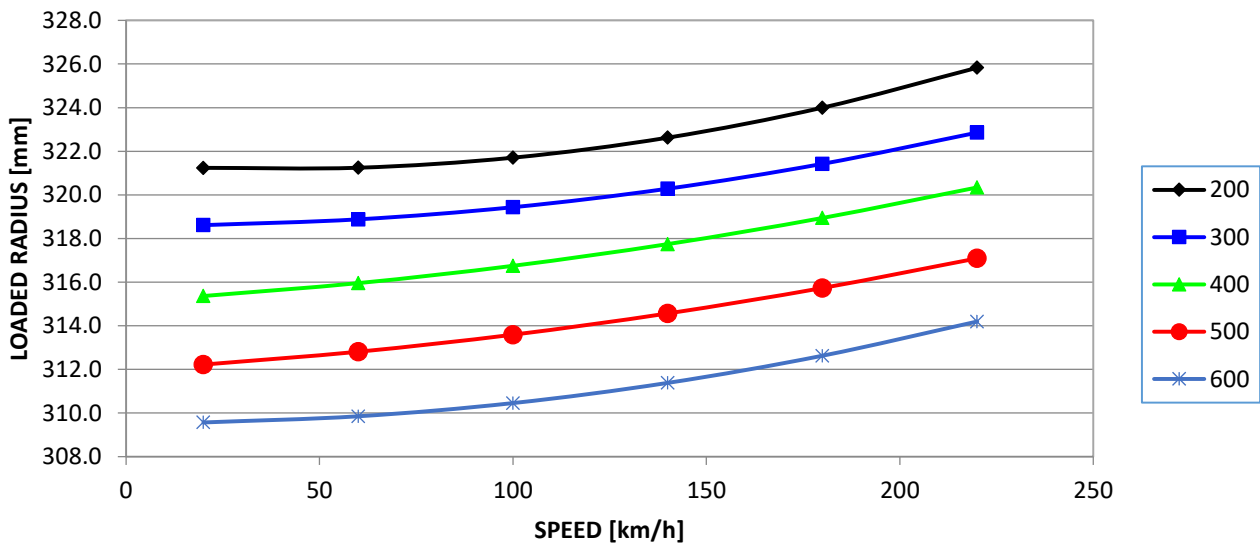
## LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	200	300	400	500	600
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

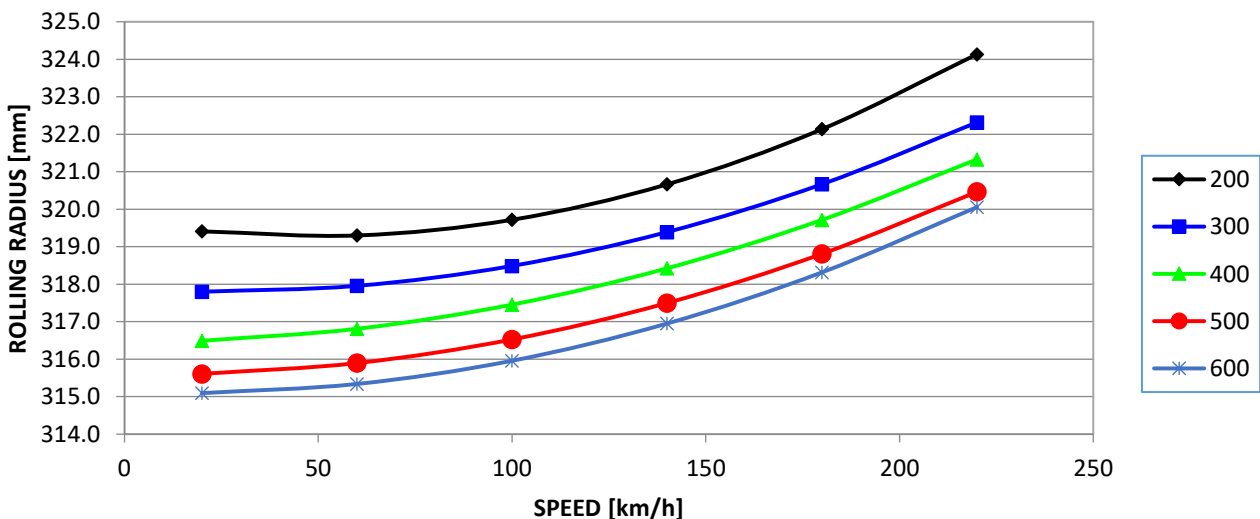
## ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	200	300	400	500	600
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

## LOADED RADIUS



## ROLLING RADIUS



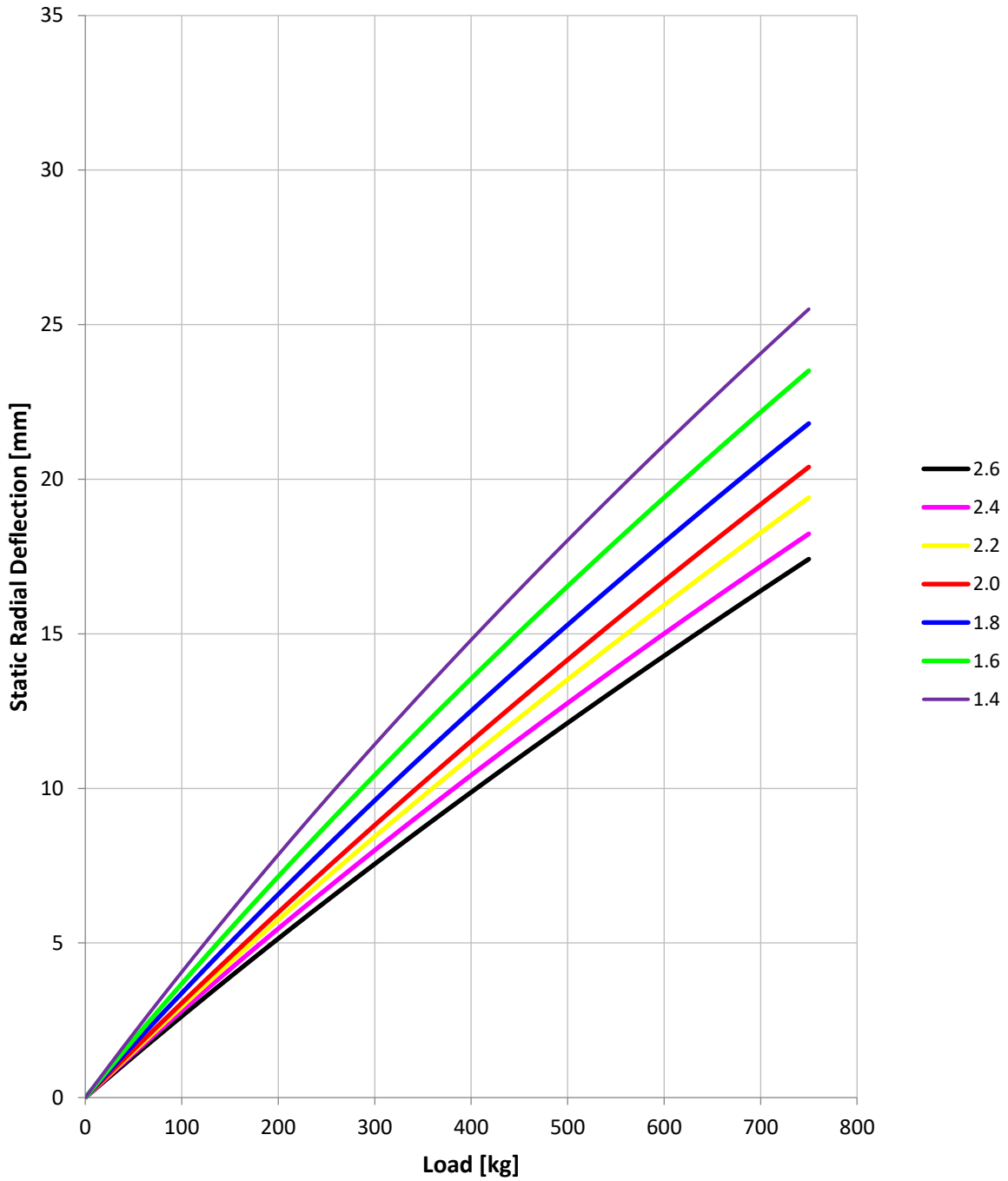


**STATIC RADIAL DEFLECTION – 305/645-18x11.0J @ CA 0.0 ° DHF**

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	0.7	0.7	0.8	0.9	0.9	1.0
50	1.3	1.4	1.5	1.5	1.7	1.9	2.1
75	2.0	2.1	2.2	2.3	2.6	2.8	3.1
100	2.6	2.8	2.9	3.1	3.4	3.7	4.1
125	3.3	3.5	3.7	3.8	4.2	4.6	5.0
150	3.9	4.2	4.4	4.5	5.0	5.4	6.0
175	4.5	4.8	5.1	5.3	5.8	6.3	6.9
200	5.1	5.5	5.8	6.0	6.6	7.1	7.9
225	5.8	6.1	6.4	6.7	7.3	8.0	8.8
250	6.4	6.7	7.1	7.4	8.1	8.8	9.7
275	7.0	7.4	7.8	8.1	8.9	9.6	10.5
300	7.6	8.0	8.4	8.8	9.6	10.4	11.4
325	8.1	8.6	9.1	9.5	10.3	11.2	12.3
350	8.7	9.2	9.7	10.2	11.1	12.0	13.1
375	9.3	9.8	10.4	10.9	11.8	12.8	14.0
400	9.9	10.4	11.0	11.5	12.5	13.6	14.8
425	10.4	11.0	11.7	12.2	13.2	14.3	15.6
450	11.0	11.6	12.3	12.9	13.9	15.1	16.4
475	11.6	12.2	12.9	13.5	14.6	15.8	17.2
500	12.1	12.8	13.5	14.2	15.3	16.5	18.0
525	12.7	13.3	14.1	14.8	16.0	17.3	18.8
550	13.2	13.9	14.7	15.4	16.6	18.0	19.6
575	13.8	14.5	15.3	16.1	17.3	18.7	20.3
600	14.3	15.0	15.9	16.7	18.0	19.4	21.1
625	14.8	15.6	16.5	17.3	18.6	20.1	21.9
650	15.3	16.1	17.1	18.0	19.3	20.8	22.6
675	15.9	16.6	17.7	18.6	19.9	21.5	23.3
700	16.4	17.2	18.3	19.2	20.5	22.2	24.1
725	16.9	17.7	18.8	19.8	21.2	22.8	24.8
750	17.4	18.2	19.4	20.4	21.8	23.5	25.5
775							
800							



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





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

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	0.9	1.0	1.0	1.1	1.2	1.2	1.3
50	1.8	2.0	2.0	2.2	2.3	2.4	2.6
75	2.7	2.9	3.0	3.2	3.3	3.5	3.8
100	3.5	3.8	3.9	4.1	4.3	4.6	4.9
125	4.3	4.6	4.7	5.0	5.3	5.6	6.0
150	5.1	5.4	5.6	5.9	6.2	6.6	7.1
175	5.8	6.2	6.4	6.8	7.1	7.6	8.1
200	6.5	6.9	7.1	7.6	7.9	8.5	9.1
225	7.2	7.6	7.9	8.4	8.8	9.4	10.1
250	7.9	8.3	8.6	9.1	9.6	10.2	11.0
275	8.5	9.0	9.3	9.9	10.4	11.1	11.9
300	9.2	9.7	10.0	10.6	11.2	11.9	12.8
325	9.8	10.3	10.7	11.3	11.9	12.7	13.7
350	10.4	11.0	11.4	12.0	12.7	13.5	14.5
375	11.0	11.6	12.0	12.7	13.4	14.3	15.3
400	11.6	12.2	12.7	13.3	14.1	15.0	16.1
425	12.1	12.8	13.3	14.0	14.8	15.8	16.9
450	12.7	13.4	13.9	14.6	15.5	16.5	17.7
475	13.3	13.9	14.5	15.2	16.1	17.2	18.5
500	13.8	14.5	15.1	15.8	16.8	17.9	19.2
525	14.3	15.0	15.6	16.4	17.4	18.6	19.9
550	14.8	15.6	16.2	17.0	18.1	19.2	20.7
575	15.4	16.1	16.8	17.6	18.7	19.9	21.4
600	15.9	16.6	17.3	18.1	19.3	20.5	22.1
625	16.3	17.1	17.9	18.7	19.9	21.2	22.8
650	16.8	17.6	18.4	19.3	20.5	21.8	23.4
675	17.3	18.1	18.9	19.8	21.1	22.4	24.1
700	17.8	18.6	19.4	20.3	21.7	23.1	24.8
725	18.3	19.1	19.9	20.9	22.3	23.7	25.4
750	18.7	19.6	20.4	21.4	22.8	24.3	26.1
775	19.2	20.1	20.9	21.9	23.4	24.8	26.7
800	19.6	20.5	21.4	22.4	23.9	25.4	27.3





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

