



## TYRE DATA BOOKLET

**285/645-18 DH**

**285/645-18 DHD2**

**285/645-18 WH**

**2020**

### ***CONTENTS:***

**1: INTRODUCTION**

**2: STATIC DIMENSIONS (DH/DHD2/WH)**

**3: DYNAMIC MEASUREMENTS (DH)**

**4: DYNAMIC MEASUREMENTS (DHD2)**

**5: DYNAMIC MEASUREMENTS (WH)**

**6: STATIC RADIAL DEFLECTION (DH)**

**7: STATIC RADIAL DEFLECTION (DHD2)**



# ***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>285/645-18</b> <b>DH</b> <b>18"x11J</b>	10.7	300	2037	280
<b>285/645-18</b> <b>DHD2</b> <b>18"x11.0J</b>	10.7	301.5	2038	280

Wet Tyres				
Size & Fitment	Nominal Weight	Max Width (C)	Circumference ( $\pi D$ )	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
<b>285/645-18</b> <b>WH</b> <b>18"x11.0J</b>	TBA	TBA	TBA	TBA



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

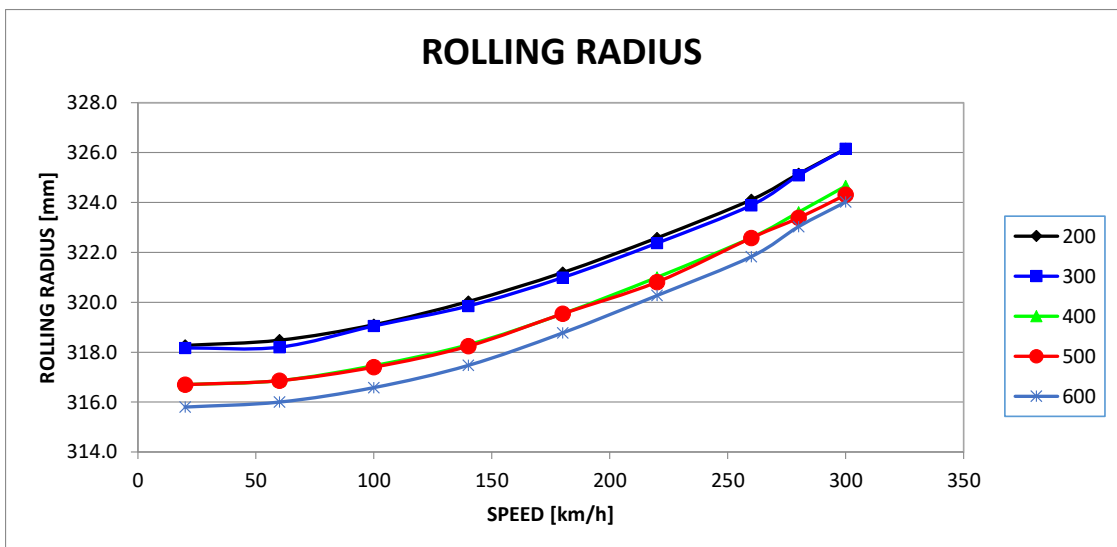
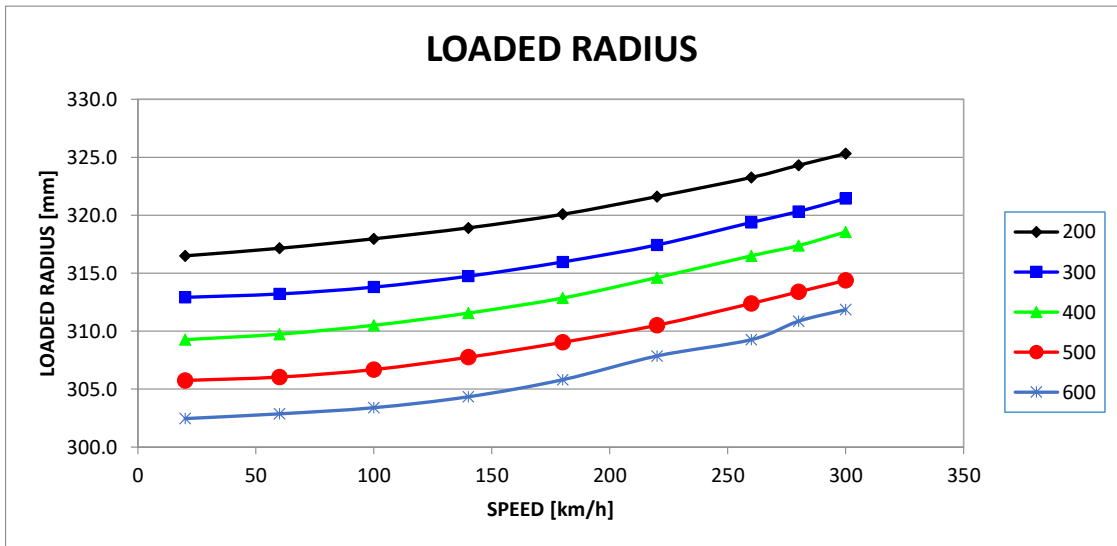
285/645-18x11.0J DH

**LOADED RADIUS**

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	316.5	312.9	309.3	305.7	302.5
	60	317.1	313.2	309.7	306.0	302.9
	100	318.0	313.8	310.5	306.7	303.4
	140	318.9	314.7	311.6	307.7	304.3
	180	320.1	316.0	312.9	309.0	305.8
	220	321.6	317.4	314.6	310.5	307.9
	260	323.3	319.4	316.5	312.4	309.3
	280	324.3	320.3	317.4	313.4	310.9
	300	325.3	321.4	318.6	314.4	311.9

**ROLLING RADIUS**

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	318.3	318.2	316.7	316.7	315.8
	60	318.5	318.2	316.9	316.9	316.0
	100	319.1	319.0	317.5	317.4	316.6
	140	320.0	319.9	318.3	318.2	317.5
	180	321.2	321.0	319.5	319.5	318.8
	220	322.6	322.4	321.0	320.8	320.3
	260	324.1	323.9	322.6	322.6	321.8
	280	325.1	325.1	323.6	323.4	323.0
	300	326.1	326.1	324.7	324.3	324.0





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

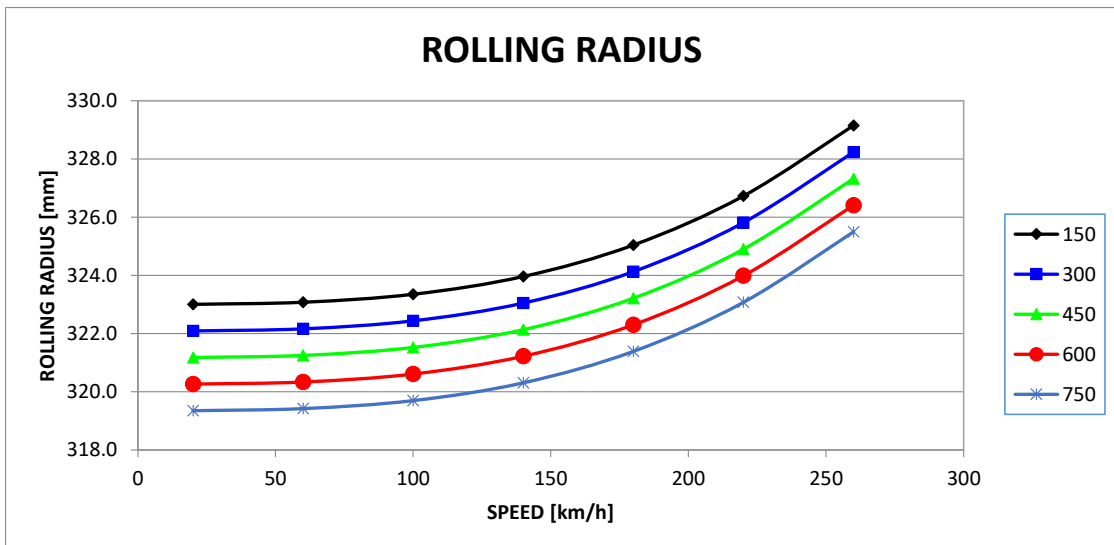
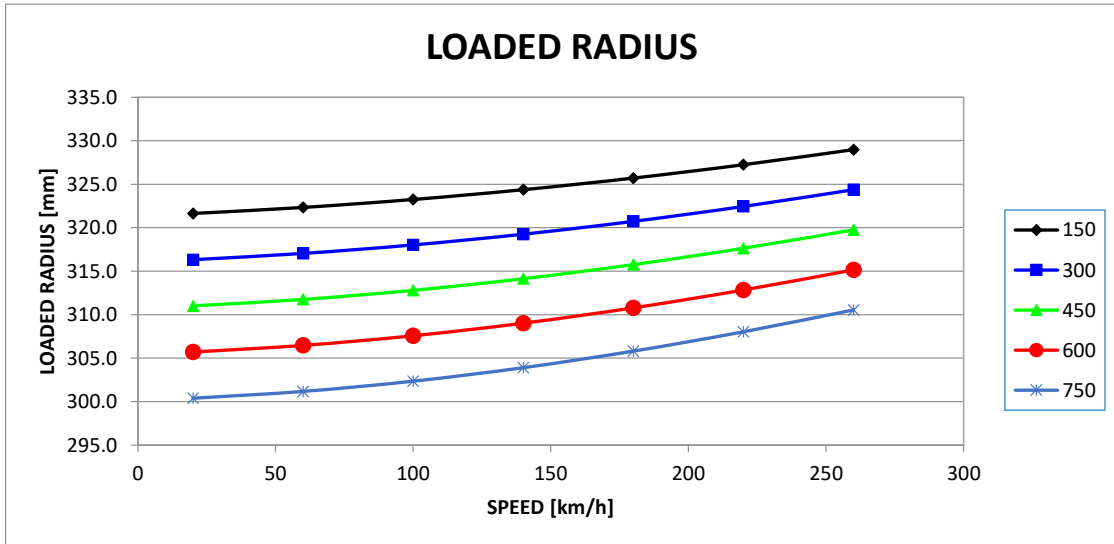
285/645-18x11.0J DHD2

**LOADED RADIUS**

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20	321.6	316.3	311.0	305.7	300.4
	60	322.3	317.0	311.8	306.5	301.2
	100	323.2	318.0	312.8	307.6	302.4
	140	324.4	319.3	314.1	309.0	303.9
	180	325.7	320.7	315.8	310.8	305.8
	220	327.2	322.4	317.6	312.8	308.0
	260	329.0	324.4	319.8	315.2	310.5
	300					

**ROLLING RADIUS**

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20	323.0	322.1	321.2	320.3	319.3
	60	323.1	322.2	321.2	320.3	319.4
	100	323.3	322.4	321.5	320.6	319.7
	140	324.0	323.0	322.1	321.2	320.3
	180	325.0	324.1	323.2	322.3	321.4
	220	326.7	325.8	324.9	324.0	323.1
	260	329.2	328.2	327.3	326.4	325.5
	300					





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

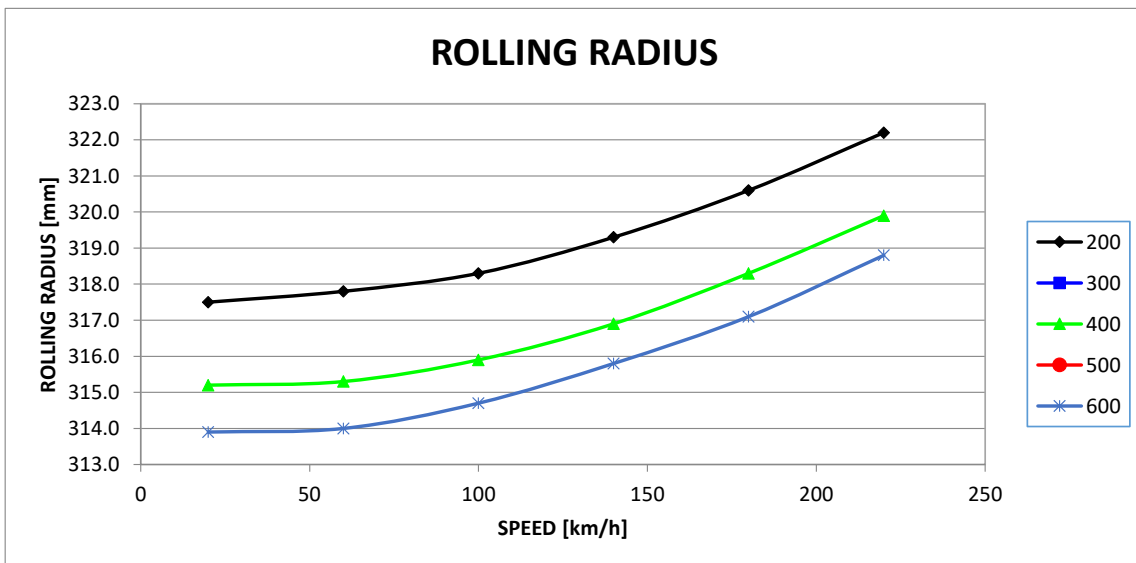
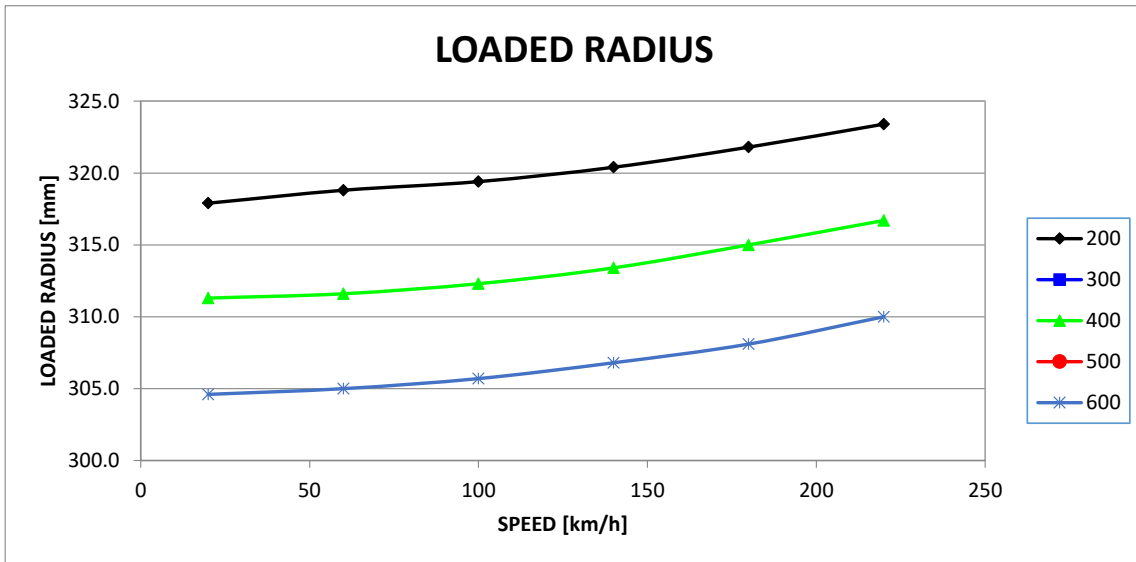
285/645-18x11.0J WH

**LOADED RADIUS**

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	317.9		311.3		304.6
	60	318.8		311.6		305.0
	100	319.4		312.3		305.7
	140	320.4		313.4		306.8
	180	321.8		315.0		308.1
	220	323.4		316.7		310.0

**ROLLING RADIUS**

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	317.5		315.2		313.9
	60	317.8		315.3		314.0
	100	318.3		315.9		314.7
	140	319.3		316.9		315.8
	180	320.6		318.3		317.1
	220	322.2		319.9		318.8



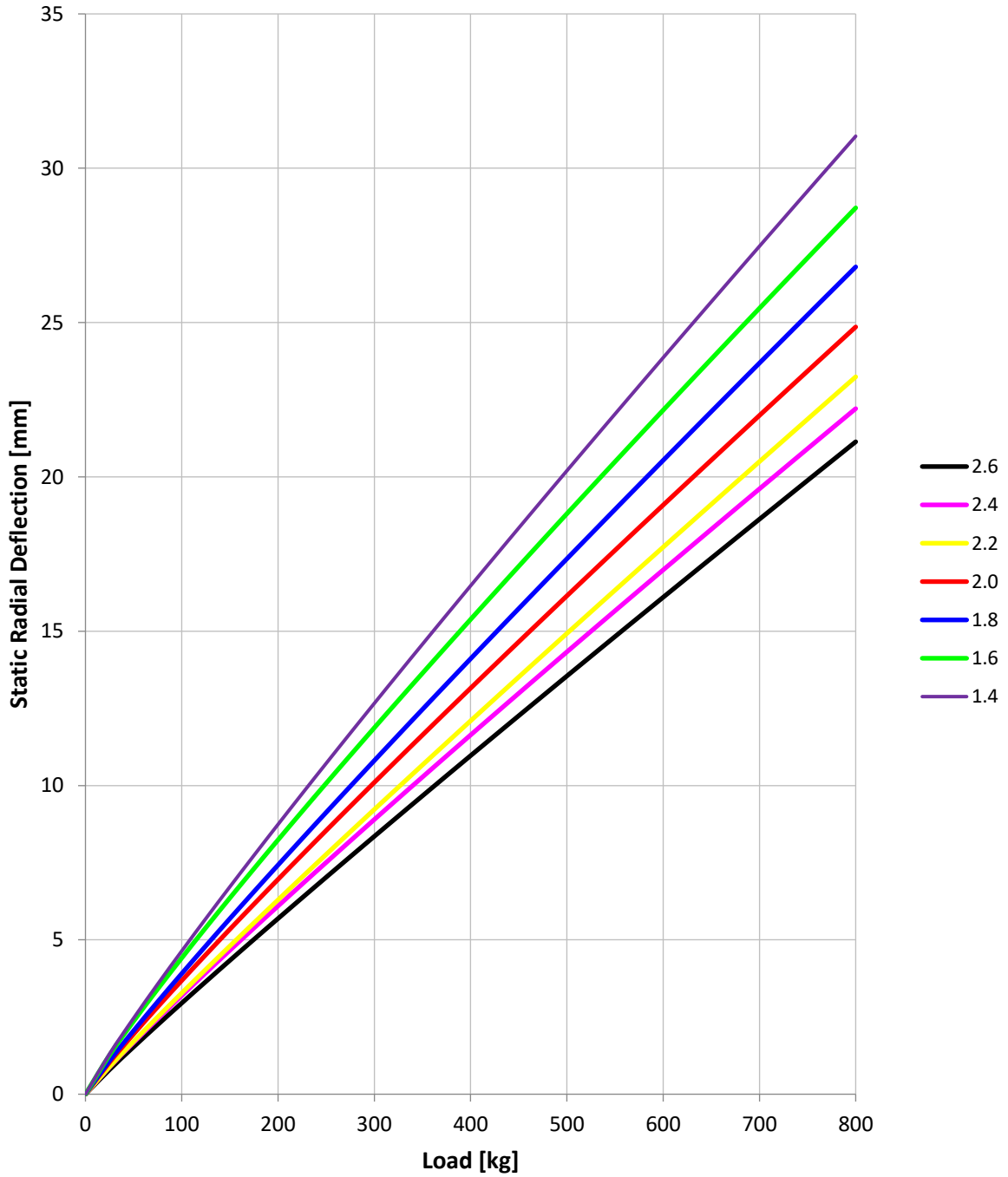


**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA 0.0 ° DH**

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	0.8	0.9	0.9	1.0	1.1	1.3	1.3
50	1.5	1.7	1.7	1.9	2.1	2.4	2.5
75	2.2	2.4	2.5	2.8	3.0	3.4	3.6
100	3.0	3.2	3.3	3.7	3.9	4.4	4.6
125	3.6	3.9	4.0	4.5	4.8	5.4	5.7
150	4.3	4.7	4.8	5.3	5.7	6.4	6.7
175	5.0	5.4	5.6	6.2	6.6	7.3	7.7
200	5.7	6.1	6.3	7.0	7.4	8.2	8.7
225	6.4	6.8	7.0	7.8	8.3	9.2	9.7
250	7.0	7.5	7.8	8.5	9.1	10.1	10.7
275	7.7	8.2	8.5	9.3	10.0	11.0	11.7
300	8.4	8.9	9.2	10.1	10.8	11.9	12.7
325	9.0	9.6	9.9	10.9	11.6	12.8	13.6
350	9.7	10.3	10.7	11.6	12.5	13.6	14.6
375	10.3	11.0	11.4	12.4	13.3	14.5	15.5
400	11.0	11.6	12.1	13.2	14.1	15.4	16.5
425	11.6	12.3	12.8	13.9	14.9	16.2	17.4
450	12.3	13.0	13.5	14.7	15.7	17.1	18.3
475	12.9	13.7	14.2	15.4	16.5	18.0	19.3
500	13.5	14.3	14.9	16.1	17.3	18.8	20.2
525	14.2	15.0	15.6	16.9	18.1	19.7	21.1
550	14.8	15.7	16.3	17.6	18.9	20.5	22.0
575	15.5	16.3	17.0	18.4	19.7	21.3	23.0
600	16.1	17.0	17.7	19.1	20.5	22.2	23.9
625	16.7	17.6	18.4	19.8	21.3	23.0	24.8
650	17.4	18.3	19.1	20.5	22.1	23.8	25.7
675	18.0	19.0	19.8	21.3	22.9	24.6	26.6
700	18.6	19.6	20.5	22.0	23.7	25.5	27.5
725	19.3	20.3	21.2	22.7	24.5	26.3	28.4
750	19.9	20.9	21.9	23.4	25.2	27.1	29.3
775	20.5	21.6	22.6	24.1	26.0	27.9	30.1
800	21.1	22.2	23.2	24.9	26.8	28.7	31.0



STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA 0.0° DH





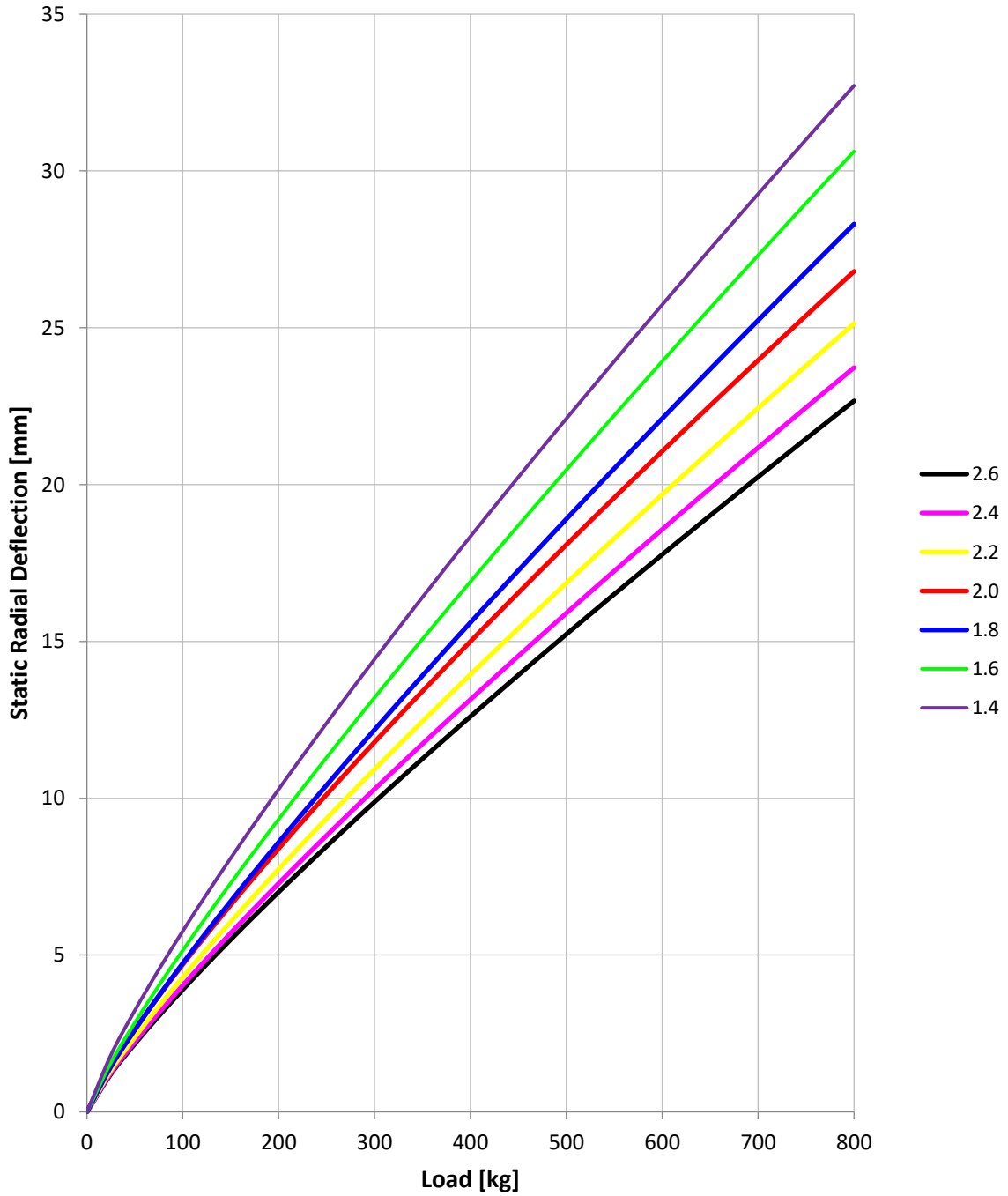


**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA -3.0 ° DH**

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	1.2	1.2	1.3	1.5	1.4	1.6	1.8
50	2.2	2.2	2.4	2.6	2.6	2.8	3.2
75	3.1	3.2	3.4	3.7	3.7	4.0	4.5
100	3.9	4.0	4.3	4.7	4.7	5.2	5.8
125	4.7	4.9	5.2	5.7	5.7	6.2	7.0
150	5.5	5.7	6.1	6.6	6.7	7.3	8.1
175	6.3	6.5	6.9	7.5	7.7	8.3	9.2
200	7.0	7.3	7.7	8.4	8.6	9.3	10.3
225	7.7	8.1	8.6	9.3	9.5	10.3	11.4
250	8.5	8.8	9.4	10.1	10.4	11.3	12.4
275	9.2	9.6	10.1	11.0	11.3	12.3	13.4
300	9.9	10.3	10.9	11.8	12.2	13.2	14.4
325	10.6	11.0	11.7	12.6	13.1	14.2	15.4
350	11.3	11.7	12.5	13.4	13.9	15.1	16.4
375	11.9	12.4	13.2	14.2	14.8	16.0	17.4
400	12.6	13.1	13.9	15.0	15.6	16.9	18.3
425	13.3	13.8	14.7	15.8	16.4	17.8	19.3
450	13.9	14.5	15.4	16.6	17.3	18.7	20.2
475	14.6	15.2	16.1	17.3	18.1	19.6	21.2
500	15.2	15.9	16.9	18.1	18.9	20.5	22.1
525	15.9	16.6	17.6	18.8	19.7	21.3	23.0
550	16.5	17.2	18.3	19.6	20.5	22.2	23.9
575	17.1	17.9	19.0	20.3	21.3	23.1	24.8
600	17.8	18.6	19.7	21.1	22.1	23.9	25.7
625	18.4	19.2	20.4	21.8	22.9	24.8	26.6
650	19.0	19.9	21.1	22.5	23.7	25.6	27.5
675	19.6	20.5	21.8	23.2	24.5	26.5	28.4
700	20.2	21.2	22.4	24.0	25.2	27.3	29.3
725	20.9	21.8	23.1	24.7	26.0	28.1	30.1
750	21.5	22.5	23.8	25.4	26.8	29.0	31.0
775	22.1	23.1	24.5	26.1	27.5	29.8	31.9
800	22.7	23.7	25.1	26.8	28.3	30.6	32.7



**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA -3.0° DH**



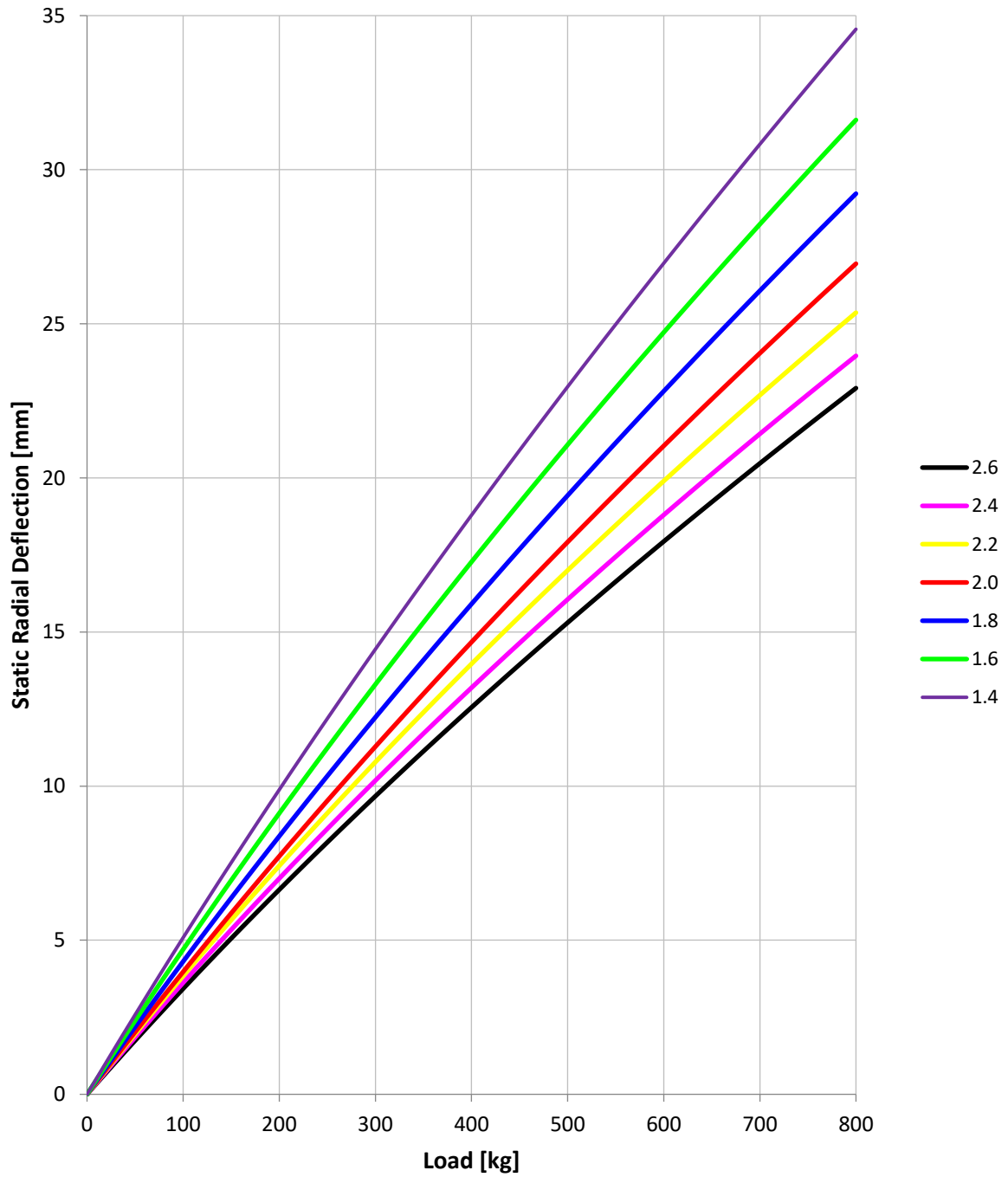


**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA 0.0 ° DHD2**

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	0.9	1.0	1.0	1.1	1.2	1.3
50	1.7	1.8	2.0	2.0	2.2	2.4	2.6
75	2.6	2.7	2.9	3.0	3.3	3.6	3.8
100	3.4	3.6	3.8	4.0	4.3	4.7	5.1
125	4.2	4.5	4.8	4.9	5.3	5.8	6.3
150	5.1	5.3	5.7	5.9	6.4	6.9	7.5
175	5.9	6.2	6.5	6.8	7.4	8.0	8.7
200	6.6	7.0	7.4	7.7	8.4	9.1	9.9
225	7.4	7.8	8.3	8.6	9.4	10.2	11.0
250	8.2	8.6	9.1	9.5	10.3	11.2	12.2
275	8.9	9.4	10.0	10.4	11.3	12.3	13.3
300	9.7	10.2	10.8	11.3	12.2	13.3	14.4
325	10.4	10.9	11.6	12.1	13.2	14.3	15.5
350	11.1	11.7	12.4	13.0	14.1	15.3	16.6
375	11.8	12.5	13.2	13.8	15.0	16.3	17.7
400	12.6	13.2	14.0	14.7	15.9	17.3	18.8
425	13.3	13.9	14.7	15.5	16.8	18.2	19.8
450	13.9	14.6	15.5	16.3	17.7	19.2	20.9
475	14.6	15.4	16.3	17.1	18.6	20.1	21.9
500	15.3	16.1	17.0	17.9	19.4	21.1	23.0
525	16.0	16.8	17.7	18.7	20.3	22.0	24.0
550	16.6	17.4	18.5	19.5	21.1	22.9	25.0
575	17.3	18.1	19.2	20.3	22.0	23.8	26.0
600	17.9	18.8	19.9	21.0	22.8	24.7	27.0
625	18.6	19.5	20.6	21.8	23.6	25.6	27.9
650	19.2	20.1	21.3	22.6	24.5	26.5	28.9
675	19.8	20.8	22.0	23.3	25.3	27.4	29.9
700	20.5	21.4	22.7	24.0	26.1	28.2	30.8
725	21.1	22.1	23.4	24.8	26.9	29.1	31.8
750	21.7	22.7	24.0	25.5	27.7	29.9	32.7
775	22.3	23.3	24.7	26.2	28.4	30.8	33.6
800	22.9	24.0	25.4	27.0	29.2	31.6	34.6



**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA 0.0° DHD2**





**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA -3.0 ° DHD2**

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	1.2	1.2	1.3	1.4	1.4	1.5	1.6
50	2.3	2.4	2.6	2.7	2.8	3.0	3.2
75	3.4	3.5	3.8	3.9	4.1	4.4	4.8
100	4.4	4.6	4.9	5.1	5.4	5.8	6.2
125	5.4	5.7	6.0	6.3	6.7	7.1	7.7
150	6.4	6.7	7.1	7.4	7.9	8.4	9.1
175	7.3	7.7	8.1	8.5	9.0	9.7	10.4
200	8.2	8.6	9.1	9.5	10.2	10.9	11.8
225	9.1	9.5	10.1	10.6	11.3	12.1	13.1
250	10.0	10.4	11.0	11.6	12.3	13.3	14.3
275	10.8	11.3	12.0	12.6	13.4	14.4	15.6
300	11.6	12.1	12.9	13.5	14.4	15.5	16.8
325	12.4	13.0	13.8	14.5	15.4	16.6	18.0
350	13.2	13.8	14.6	15.4	16.4	17.7	19.2
375	13.9	14.6	15.5	16.3	17.4	18.7	20.3
400	14.7	15.3	16.3	17.2	18.3	19.8	21.4
425	15.4	16.1	17.1	18.0	19.3	20.8	22.5
450	16.1	16.9	17.9	18.9	20.2	21.8	23.6
475	16.8	17.6	18.7	19.7	21.1	22.7	24.7
500	17.5	18.3	19.4	20.5	22.0	23.7	25.7
525	18.2	19.0	20.2	21.4	22.8	24.7	26.8
550	18.9	19.7	20.9	22.2	23.7	25.6	27.8
575	19.5	20.4	21.7	22.9	24.5	26.5	28.8
600	20.2	21.1	22.4	23.7	25.4	27.4	29.8
625	20.8	21.7	23.1	24.5	26.2	28.3	30.8
650	21.4	22.4	23.8	25.2	27.0	29.2	31.7
675	22.1	23.0	24.5	26.0	27.8	30.1	32.7
700	22.7	23.7	25.2	26.7	28.6	30.9	33.6
725	23.3	24.3	25.8	27.4	29.4	31.8	34.6
750	23.9	24.9	26.5	28.1	30.1	32.6	35.5
775	24.4	25.6	27.2	28.8	30.9	33.5	36.4
800	25.0	26.2	27.8	29.5	31.6	34.3	37.3



**STATIC RADIAL DEFLECTION – 285/645-18x11.0J @ CA -3.0° DHD2**

