



TYRE DATA BOOKLET

245/645-18 DH

245/645-18 DHB

245/645-18 WH

2020

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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)
245/645-18 DH 18"x8.0J	10.2	240	2040	240
245/645-18 DHB 18"x9.0J	10.2	256	2034	240

Wet Tyres				
Size & Fitment	Nominal Weight	Max Width (C)	Circumference (πD)	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
245/645-18 WH 18"x9.0J	TBA	TBA	TBA	TBA



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

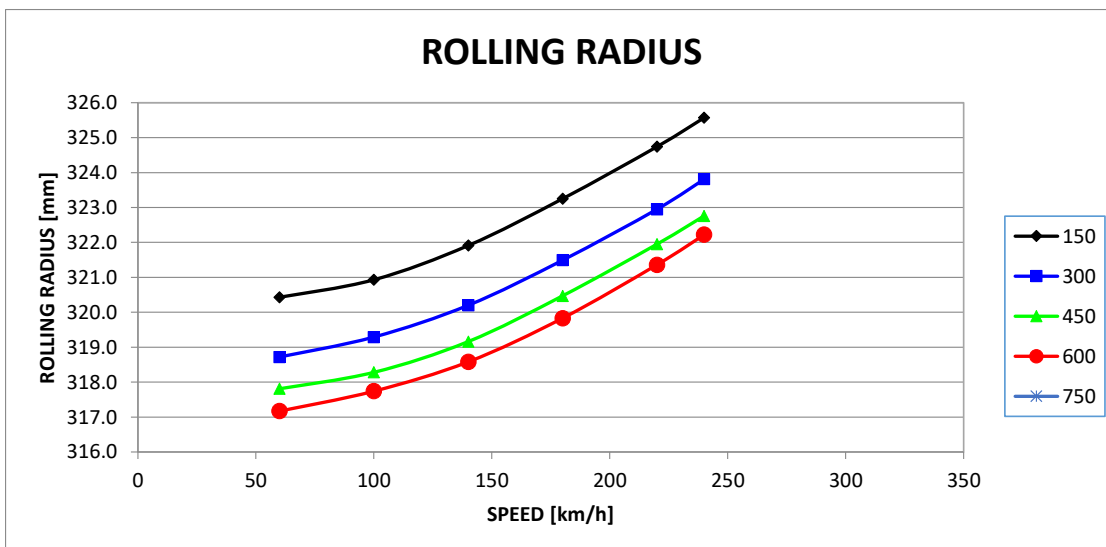
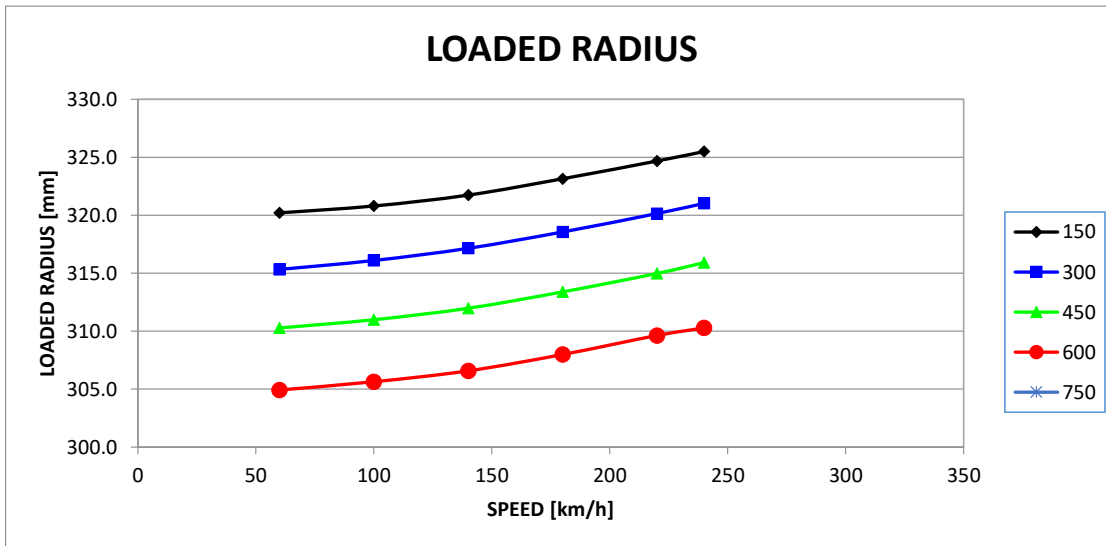
245/645-18x8.0J DH

LOADED RADIUS

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20					
	60	320.2	315.3	310.3	304.9	
	100	320.8	316.1	311.0	305.6	
	140	321.7	317.1	312.0	306.6	
	180	323.1	318.6	313.4	308.0	
	220	324.7	320.1	315.0	309.6	
	240	325.5	321.0	315.9	310.3	
	280					
	300					

ROLLING RADIUS

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20					
	60	320.4	318.7	317.8	317.2	
	100	320.9	319.3	318.3	317.7	
	140	321.9	320.2	319.2	318.6	
	180	323.3	321.5	320.5	319.8	
	220	324.7	323.0	322.0	321.4	
	240	325.6	323.8	322.8	322.2	
	280					
	300					





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

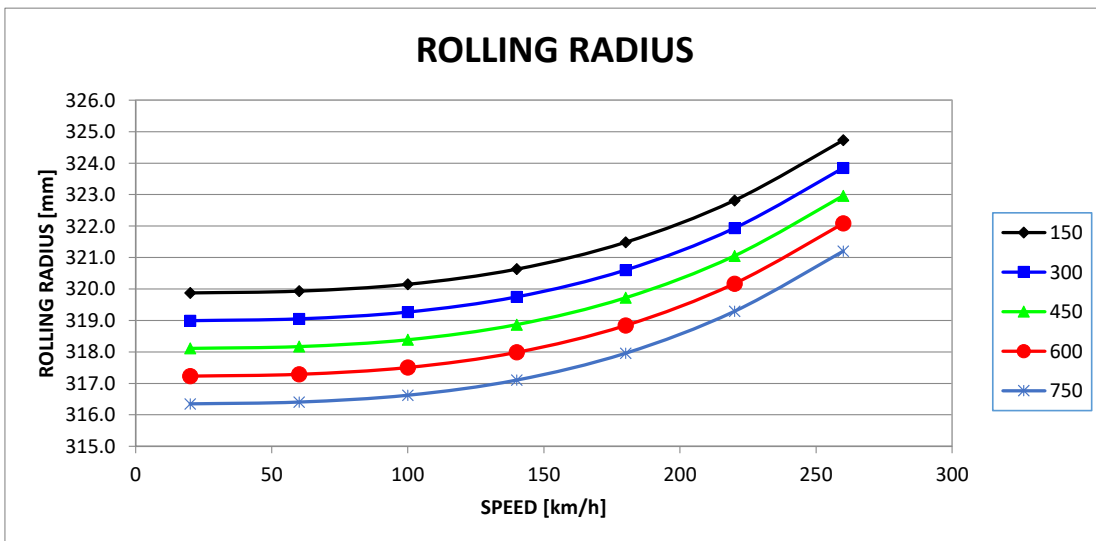
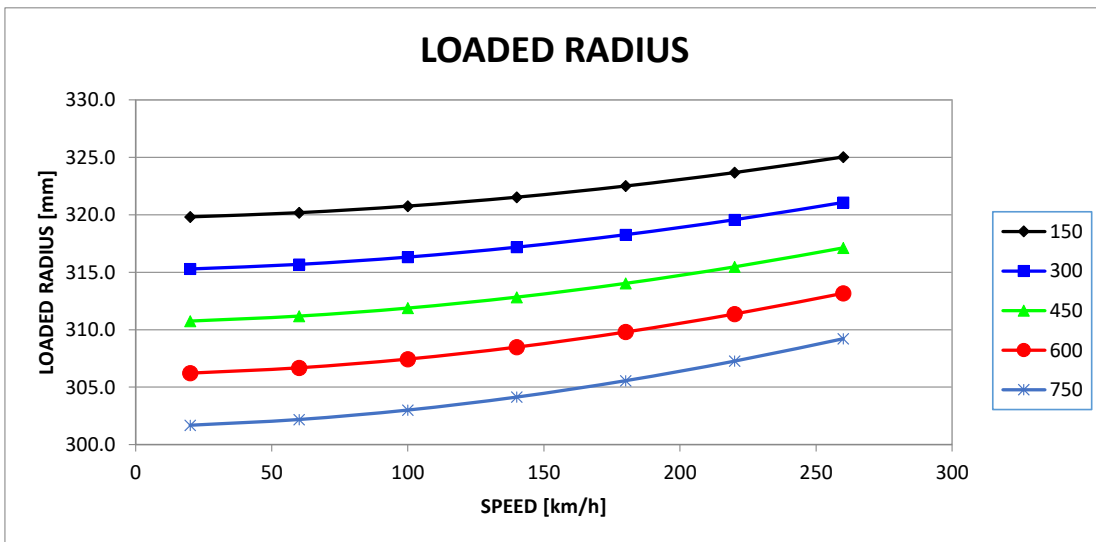
245/645-18x9.0J DHB

LOADED RADIUS

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20	319.8	315.3	310.7	306.2	301.7
	60	320.2	315.7	311.2	306.7	302.2
	100	320.8	316.3	311.9	307.4	303.0
	140	321.5	317.2	312.8	308.5	304.1
	180	322.5	318.3	314.0	309.8	305.6
	220	323.7	319.6	315.5	311.4	307.3
	260	325.0	321.1	317.1	313.2	309.2
	280					
	300					

ROLLING RADIUS

		LOAD [kg]				
		150	300	450	600	750
SPEED [km/h]	20	319.9	319.0	318.1	317.2	316.3
	60	319.9	319.1	318.2	317.3	316.4
	100	320.1	319.3	318.4	317.5	316.6
	140	320.6	319.7	318.9	318.0	317.1
	180	321.5	320.6	319.7	318.8	318.0
	220	322.8	321.9	321.1	320.2	319.3
	260	324.7	323.8	323.0	322.1	321.2
	280					
	300					





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

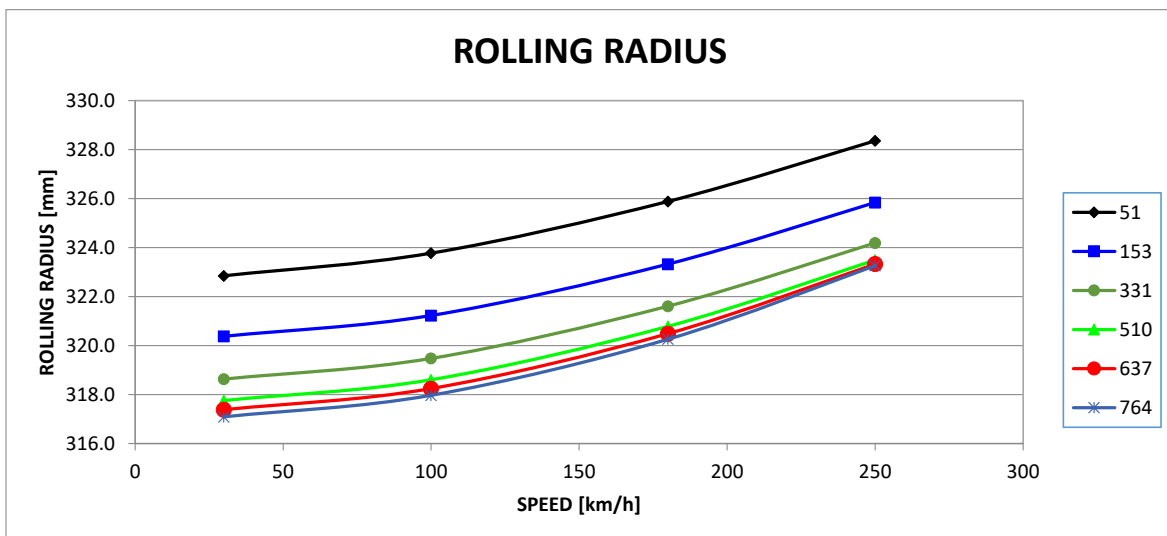
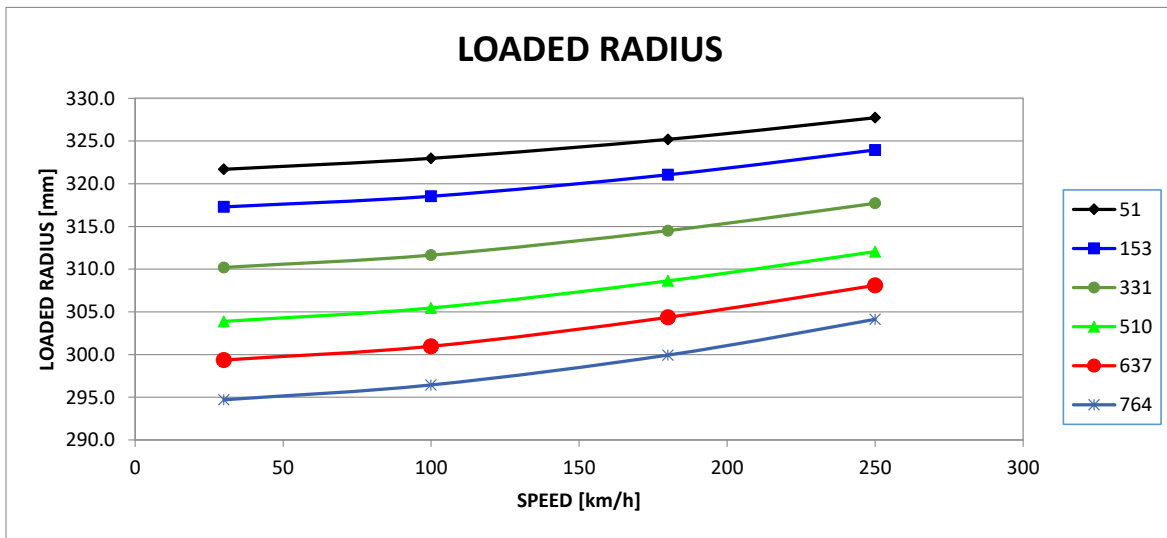
245/645-18x9.0J WH

LOADED RADIUS

		LOAD [kg]					
		51	153	331	510	637	764
SPEED [km/h]	30	321.7	317.3	310.2	303.9	299.4	294.7
	100	323.0	318.5	311.6	305.5	301.0	296.4
	180	325.2	321.0	314.5	308.6	304.4	299.9
	250	327.7	324.0	317.7	312.1	308.1	304.1

ROLLING RADIUS

		LOAD [kg]					
		51	153	331	510	637	764
SPEED [km/h]	30	322.8	320.4	318.6	317.8	317.4	317.1
	100	323.8	321.2	319.5	318.6	318.2	318.0
	180	325.9	323.3	321.6	320.8	320.5	320.3
	250	328.4	325.8	324.2	323.5	323.3	323.3



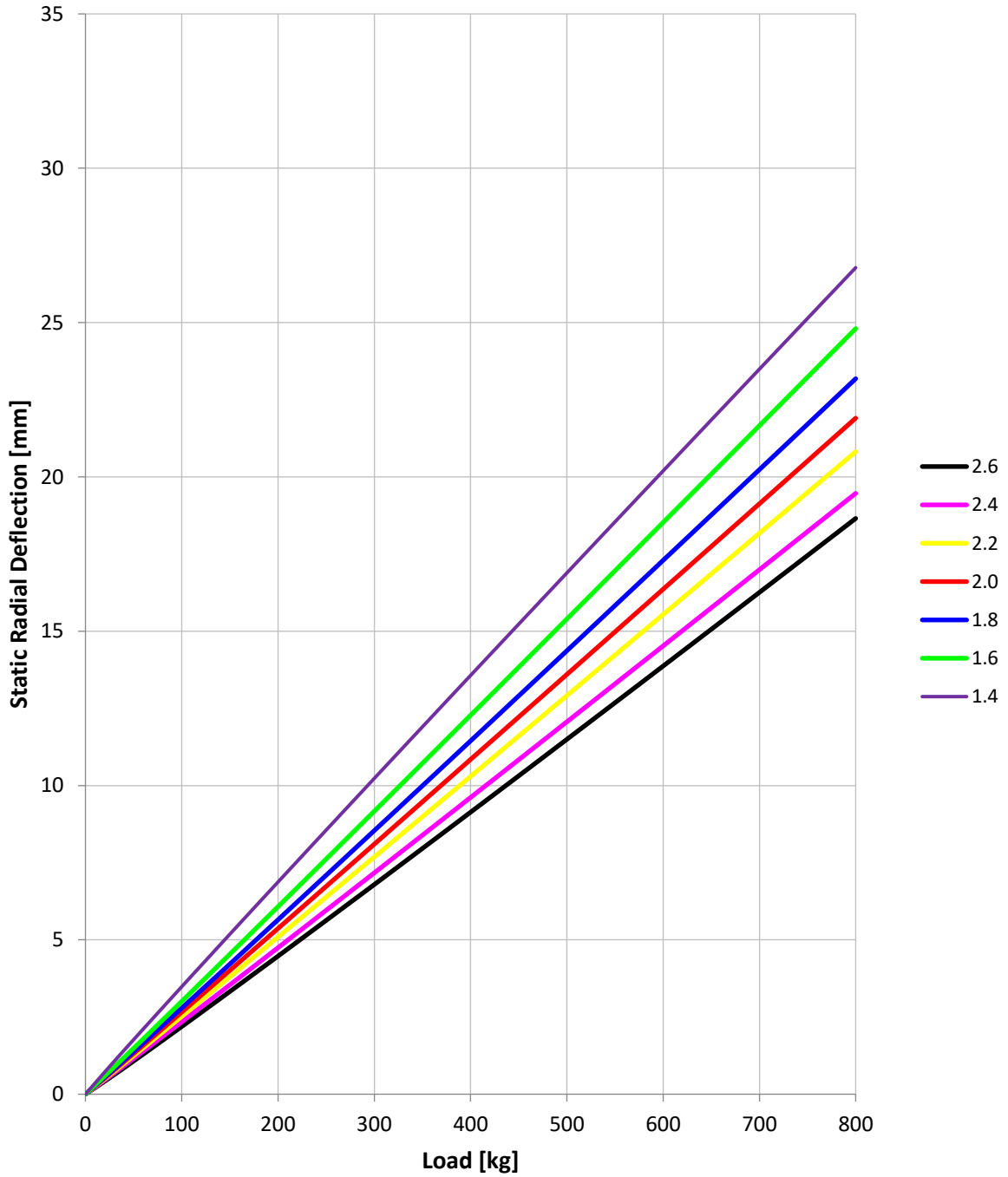


STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA 0.0 ° DH

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	0.5	0.6	0.6	0.7	0.7	0.7	0.9
50	1.1	1.2	1.2	1.3	1.4	1.5	1.8
75	1.6	1.7	1.9	2.0	2.1	2.2	2.6
100	2.2	2.3	2.5	2.7	2.8	3.0	3.5
125	2.8	2.9	3.2	3.3	3.5	3.8	4.3
150	3.3	3.5	3.8	4.0	4.2	4.5	5.2
175	3.9	4.1	4.4	4.7	4.9	5.3	6.0
200	4.5	4.7	5.1	5.4	5.7	6.1	6.9
225	5.1	5.4	5.7	6.1	6.4	6.8	7.7
250	5.6	6.0	6.4	6.7	7.1	7.6	8.6
275	6.2	6.6	7.0	7.4	7.8	8.4	9.4
300	6.8	7.2	7.7	8.1	8.5	9.2	10.2
325	7.4	7.8	8.3	8.8	9.3	9.9	11.1
350	8.0	8.4	9.0	9.5	10.0	10.7	11.9
375	8.5	9.0	9.6	10.2	10.7	11.5	12.7
400	9.1	9.6	10.3	10.8	11.4	12.3	13.6
425	9.7	10.2	10.9	11.5	12.2	13.1	14.4
450	10.3	10.8	11.6	12.2	12.9	13.8	15.2
475	10.9	11.5	12.3	12.9	13.6	14.6	16.1
500	11.5	12.1	12.9	13.6	14.4	15.4	16.9
525	12.1	12.7	13.6	14.3	15.1	16.2	17.7
550	12.7	13.3	14.2	15.0	15.8	17.0	18.5
575	13.3	13.9	14.9	15.7	16.6	17.7	19.4
600	13.9	14.5	15.5	16.4	17.3	18.5	20.2
625	14.5	15.1	16.2	17.1	18.0	19.3	21.0
650	15.1	15.8	16.9	17.7	18.8	20.1	21.8
675	15.7	16.4	17.5	18.4	19.5	20.9	22.7
700	16.3	17.0	18.2	19.1	20.2	21.7	23.5
725	16.9	17.6	18.8	19.8	21.0	22.4	24.3
750	17.5	18.2	19.5	20.5	21.7	23.2	25.1
775	18.1	18.8	20.2	21.2	22.4	24.0	26.0
800	18.7	19.5	20.8	21.9	23.2	24.8	26.8



STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA 0.0° DH



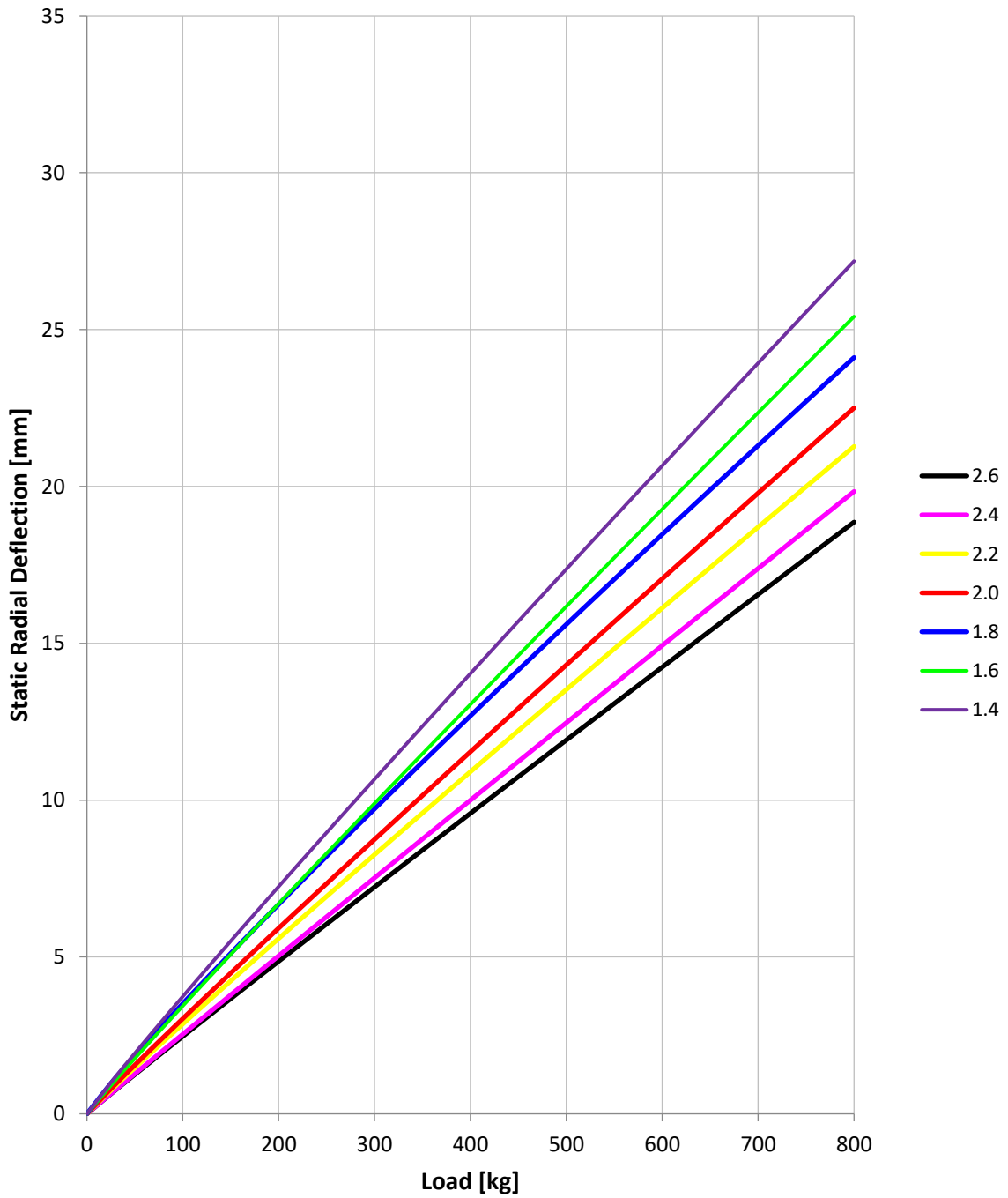


STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA -3.0 ° DH

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	0.6	0.6	0.8	0.8	1.0	0.9	1.0
50	1.3	1.3	1.5	1.6	1.9	1.8	1.9
75	1.9	1.9	2.2	2.3	2.7	2.6	2.8
100	2.5	2.5	2.9	3.0	3.5	3.4	3.7
125	3.1	3.2	3.6	3.8	4.3	4.3	4.6
150	3.7	3.8	4.2	4.5	5.1	5.1	5.5
175	4.3	4.4	4.9	5.2	5.9	5.9	6.4
200	4.9	5.0	5.6	5.9	6.7	6.7	7.2
225	5.5	5.7	6.3	6.6	7.4	7.5	8.1
250	6.1	6.3	6.9	7.3	8.2	8.3	9.0
275	6.6	6.9	7.6	8.0	9.0	9.1	9.8
300	7.2	7.5	8.3	8.8	9.7	9.9	10.7
325	7.8	8.1	8.9	9.5	10.5	10.7	11.5
350	8.4	8.8	9.6	10.2	11.2	11.5	12.4
375	9.0	9.4	10.2	10.8	12.0	12.3	13.2
400	9.6	10.0	10.9	11.5	12.7	13.1	14.0
425	10.2	10.6	11.6	12.2	13.4	13.8	14.9
450	10.7	11.2	12.2	12.9	14.2	14.6	15.7
475	11.3	11.9	12.9	13.6	14.9	15.4	16.5
500	11.9	12.5	13.5	14.3	15.6	16.2	17.4
525	12.5	13.1	14.2	15.0	16.3	17.0	18.2
550	13.1	13.7	14.8	15.7	17.0	17.7	19.0
575	13.7	14.3	15.5	16.4	17.8	18.5	19.8
600	14.2	14.9	16.1	17.1	18.5	19.3	20.7
625	14.8	15.5	16.8	17.7	19.2	20.0	21.5
650	15.4	16.2	17.4	18.4	19.9	20.8	22.3
675	16.0	16.8	18.1	19.1	20.6	21.6	23.1
700	16.6	17.4	18.7	19.8	21.3	22.4	23.9
725	17.1	18.0	19.3	20.5	22.0	23.1	24.7
750	17.7	18.6	20.0	21.1	22.7	23.9	25.6
775	18.3	19.2	20.6	21.8	23.4	24.7	26.4
800	18.9	19.8	21.3	22.5	24.1	25.4	27.2



STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA -3.0° DH



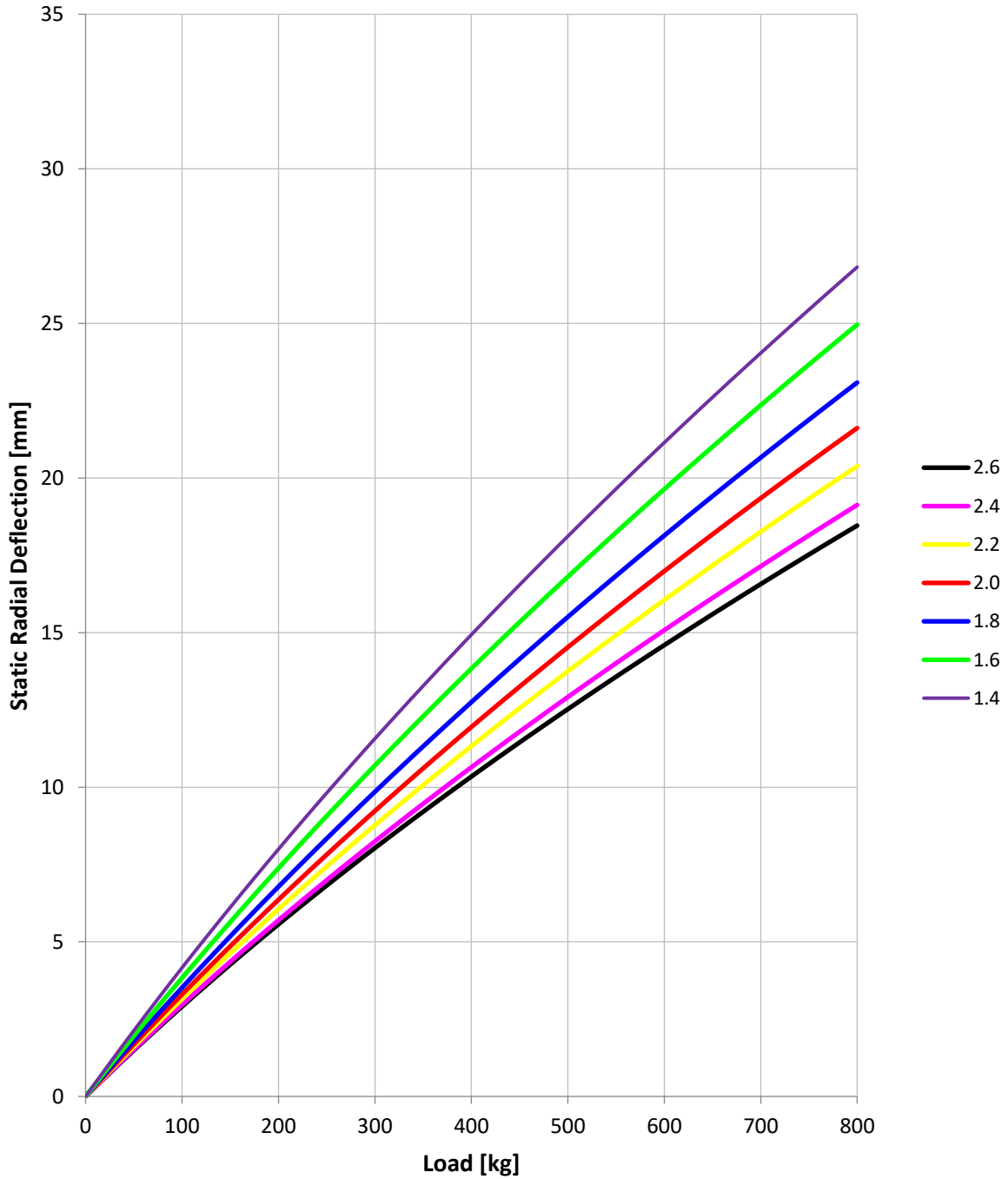


STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA 0.0 ° DHB

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	0.8	0.8	0.8	0.9	1.0	1.1
50	1.5	1.5	1.6	1.7	1.8	2.0	2.1
75	2.2	2.2	2.4	2.5	2.7	2.9	3.2
100	2.9	3.0	3.1	3.3	3.5	3.8	4.2
125	3.6	3.7	3.9	4.1	4.4	4.7	5.1
150	4.3	4.4	4.6	4.9	5.2	5.6	6.1
175	4.9	5.0	5.4	5.6	6.0	6.5	7.1
200	5.6	5.7	6.1	6.4	6.8	7.4	8.0
225	6.2	6.4	6.8	7.1	7.6	8.2	8.9
250	6.8	7.0	7.4	7.8	8.3	9.1	9.8
275	7.4	7.6	8.1	8.5	9.1	9.9	10.7
300	8.0	8.2	8.8	9.2	9.9	10.7	11.6
325	8.6	8.9	9.4	9.9	10.6	11.5	12.4
350	9.2	9.5	10.1	10.6	11.3	12.3	13.3
375	9.8	10.1	10.7	11.3	12.0	13.1	14.1
400	10.3	10.6	11.3	11.9	12.8	13.8	14.9
425	10.9	11.2	11.9	12.6	13.5	14.6	15.7
450	11.5	11.8	12.6	13.3	14.1	15.3	16.5
475	12.0	12.4	13.2	13.9	14.8	16.1	17.3
500	12.5	12.9	13.8	14.5	15.5	16.8	18.1
525	13.1	13.5	14.3	15.2	16.2	17.5	18.9
550	13.6	14.0	14.9	15.8	16.8	18.2	19.6
575	14.1	14.5	15.5	16.4	17.5	18.9	20.4
600	14.6	15.1	16.1	17.0	18.1	19.6	21.1
625	15.1	15.6	16.6	17.6	18.8	20.3	21.9
650	15.6	16.1	17.2	18.2	19.4	21.0	22.6
675	16.1	16.6	17.7	18.8	20.0	21.7	23.3
700	16.6	17.1	18.3	19.3	20.7	22.4	24.0
725	17.1	17.6	18.8	19.9	21.3	23.0	24.7
750	17.5	18.1	19.3	20.5	21.9	23.7	25.4
775	18.0	18.6	19.9	21.1	22.5	24.3	26.1
800	18.5	19.1	20.4	21.6	23.1	25.0	26.8



STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA 0.0° DHB





STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA -3.0 ° DHB

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	1.1	1.2
50	1.7	1.8	1.9	2.0	2.1	2.2	2.4
75	2.6	2.6	2.8	2.9	3.1	3.3	3.5
100	3.3	3.5	3.7	3.8	4.0	4.3	4.6
125	4.1	4.3	4.5	4.7	4.9	5.3	5.7
150	4.9	5.0	5.3	5.5	5.8	6.3	6.7
175	5.6	5.8	6.1	6.3	6.7	7.2	7.7
200	6.3	6.5	6.9	7.1	7.6	8.1	8.7
225	7.0	7.2	7.6	7.9	8.4	9.0	9.6
250	7.6	7.9	8.3	8.7	9.2	9.9	10.6
275	8.3	8.6	9.0	9.4	10.1	10.8	11.5
300	8.9	9.2	9.7	10.2	10.8	11.6	12.4
325	9.6	9.9	10.4	10.9	11.6	12.4	13.3
350	10.2	10.5	11.1	11.6	12.4	13.3	14.2
375	10.8	11.1	11.7	12.3	13.1	14.1	15.0
400	11.4	11.7	12.4	13.0	13.8	14.8	15.8
425	11.9	12.3	13.0	13.6	14.6	15.6	16.7
450	12.5	12.9	13.6	14.3	15.3	16.4	17.5
475	13.1	13.5	14.2	14.9	16.0	17.1	18.3
500	13.6	14.0	14.8	15.6	16.7	17.9	19.1
525	14.2	14.6	15.4	16.2	17.3	18.6	19.8
550	14.7	15.1	16.0	16.8	18.0	19.3	20.6
575	15.2	15.7	16.5	17.4	18.7	20.0	21.3
600	15.7	16.2	17.1	18.0	19.3	20.7	22.1
625	16.2	16.7	17.6	18.6	19.9	21.4	22.8
650	16.7	17.3	18.2	19.2	20.6	22.1	23.5
675	17.2	17.8	18.7	19.8	21.2	22.7	24.2
700	17.7	18.3	19.3	20.3	21.8	23.4	24.9
725	18.2	18.8	19.8	20.9	22.4	24.0	25.6
750	18.7	19.3	20.3	21.4	23.0	24.7	26.3
775	19.2	19.8	20.8	22.0	23.6	25.3	27.0
800	19.6	20.2	21.3	22.5	24.2	25.9	27.7



STATIC RADIAL DEFLECTION – 245/645-18x9.0J @ CA -3.0° DHB

