



TYRE DATA BOOKLET

325/680-18 DHF
315/680-18 WHA
2022 | 2023

CONTENTS:

- 1: INTRODUCTION
- 2: STATIC DIMENSIONS (**DHF/WHA**)
- 3: DYNAMIC MEASUREMENTS (**DHF**)
- 4: DYNAMIC MEASUREMENTS (**WHA**)
- 5: STATIC RADIAL DEFLECTION (**DHF**)
- 6: STATIC RADIAL DEFLECTION (**WHA**)



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)
325/680-18 DHF 18"x12J	11.0	329	2152	300
325/680-18 DHF 18"x12.5J	11.0	336	2151	300

Wet Tyres				
Size & Fitment	Nominal Weight	Max Width (C)	Circumference (πD)	Tread Width (Cb)
	(kilograms)	(mm)	(mm)	(mm)
315/680-18 WHA 18"x12J	12.7	323	2155	283



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

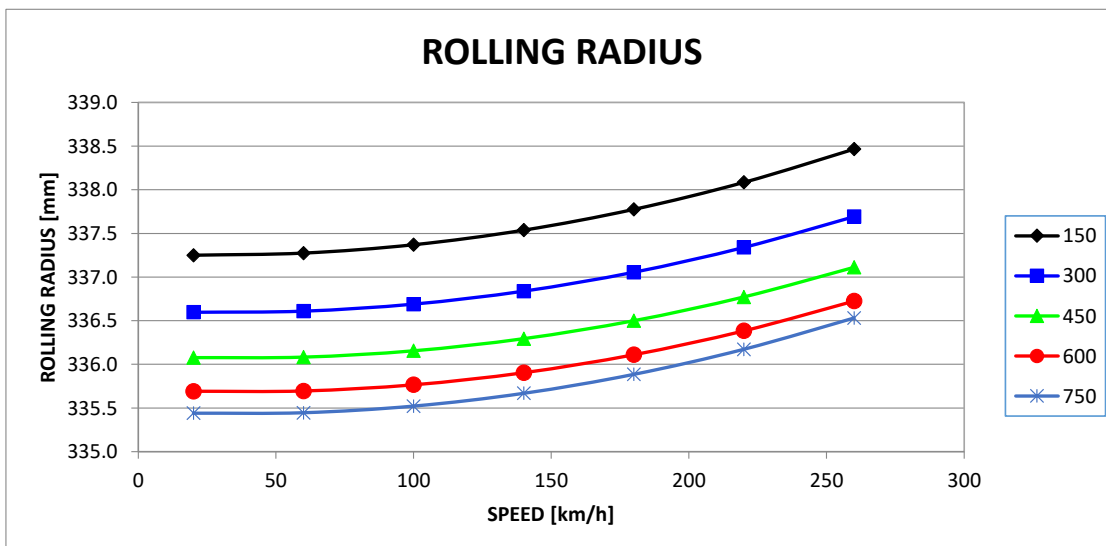
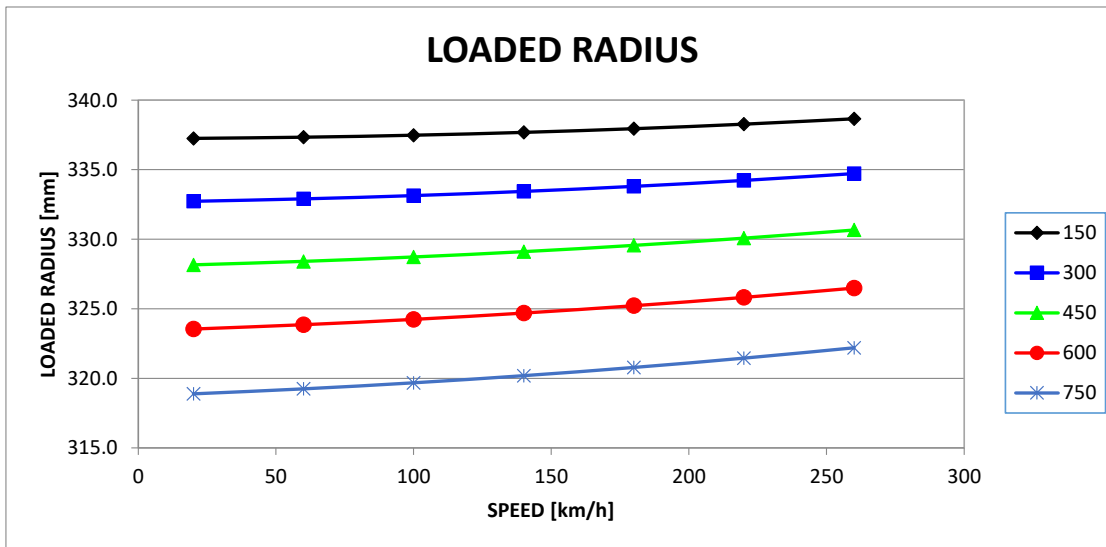
325/680-18x12.0J DHF

LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.3	332.7	328.2	323.5	318.9
60	337.3	332.9	328.4	323.9	319.2
100	337.5	333.1	328.7	324.2	319.7
140	337.7	333.4	329.1	324.7	320.2
180	337.9	333.8	329.6	325.2	320.8
220	338.3	334.2	330.1	325.8	321.5
260	338.7	334.7	330.7	326.5	322.2

ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.3	336.6	336.1	335.7	335.4
60	337.3	336.6	336.1	335.7	335.4
100	337.4	336.7	336.2	335.8	335.5
140	337.5	336.8	336.3	335.9	335.7
180	337.8	337.1	336.5	336.1	335.9
220	338.1	337.3	336.8	336.4	336.2
260	338.5	337.7	337.1	336.7	336.5





DYNAMIC MEASUREMENTS @ 1.8bar (26psi), CA 0.0°

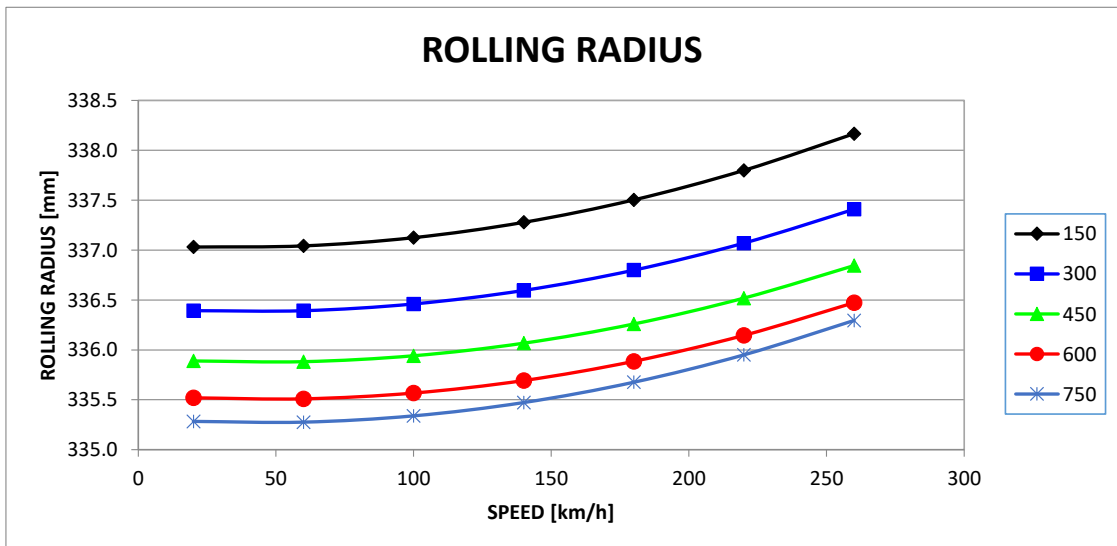
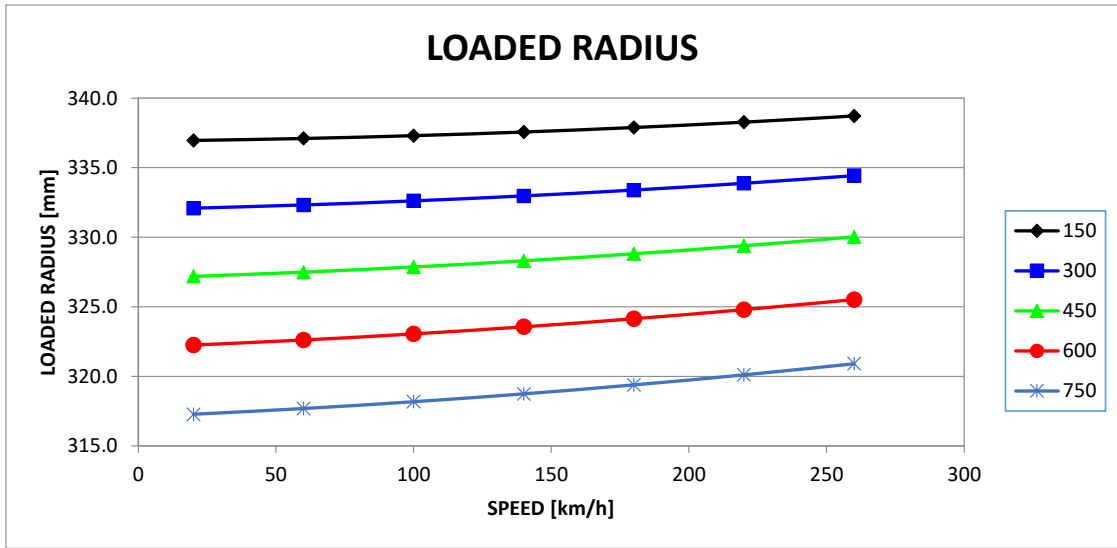
325/680-18x12.0J DHF

LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.0	332.1	327.2	322.2	317.3
60	337.1	332.3	327.5	322.6	317.7
100	337.3	332.6	327.9	323.1	318.2
140	337.6	333.0	328.3	323.6	318.7
180	337.9	333.4	328.8	324.1	319.4
220	338.3	333.9	329.4	324.8	320.1
260	338.7	334.4	330.0	325.5	320.9

ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.0	336.4	335.9	335.5	335.3
60	337.0	336.4	335.9	335.5	335.3
100	337.1	336.5	335.9	335.6	335.3
140	337.3	336.6	336.1	335.7	335.5
180	337.5	336.8	336.3	335.9	335.7
220	337.8	337.1	336.5	336.1	336.0
260	338.2	337.4	336.8	336.5	336.3





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

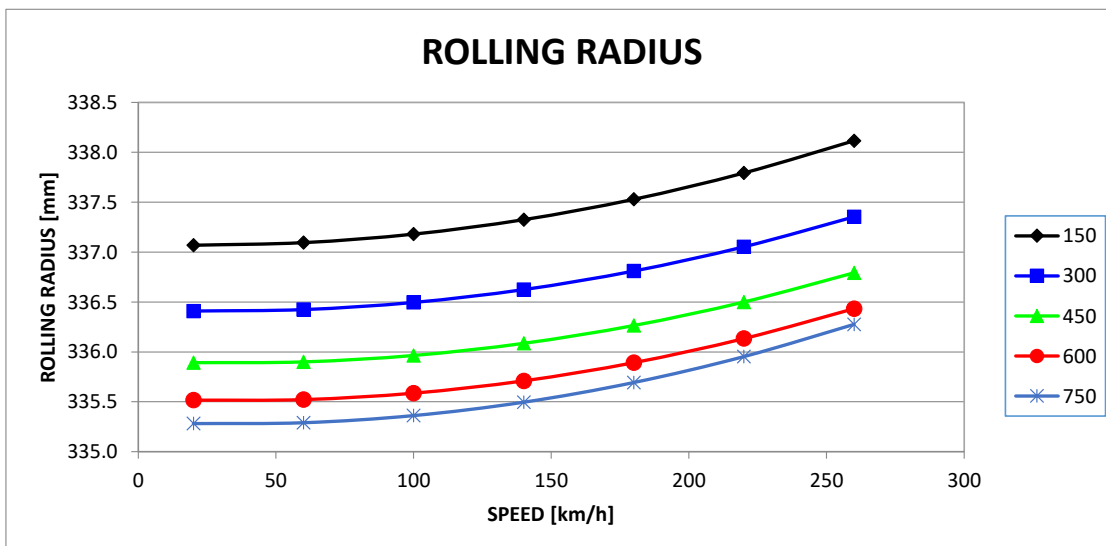
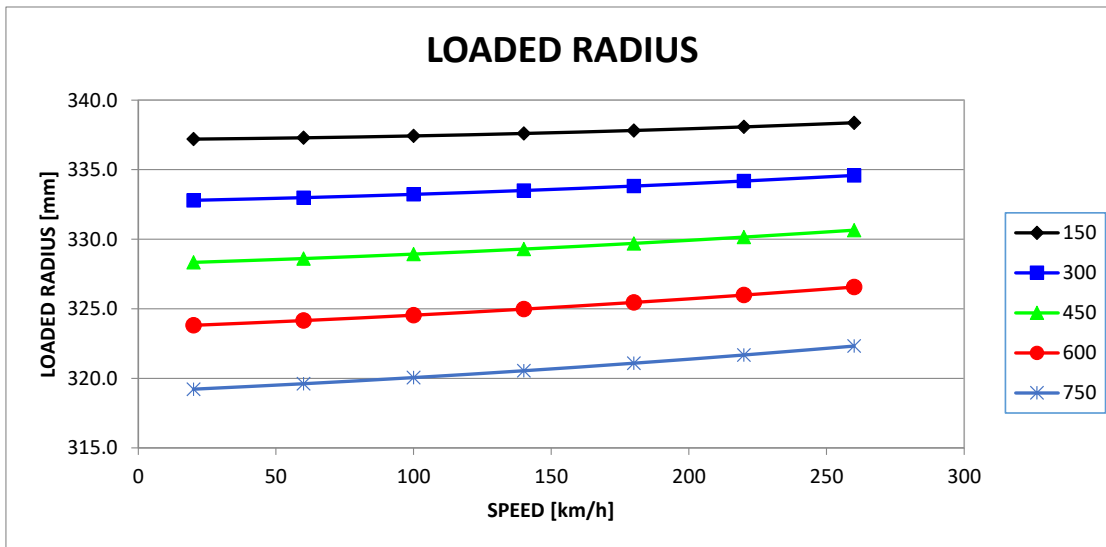
325/680-18x12.5J DHF

LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.2	332.8	328.3	323.8	319.2
60	337.3	333.0	328.6	324.2	319.6
100	337.4	333.2	328.9	324.5	320.1
140	337.6	333.5	329.3	325.0	320.5
180	337.8	333.8	329.7	325.5	321.1
220	338.1	334.2	330.2	326.0	321.7
260	338.4	334.6	330.7	326.6	322.3

ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	337.1	336.4	335.9	335.5	335.3
60	337.1	336.4	335.9	335.5	335.3
100	337.2	336.5	336.0	335.6	335.4
140	337.3	336.6	336.1	335.7	335.5
180	337.5	336.8	336.3	335.9	335.7
220	337.8	337.1	336.5	336.1	336.0
260	338.1	337.4	336.8	336.4	336.3





DYNAMIC MEASUREMENTS @ 1.8bar (26psi), CA 0.0°

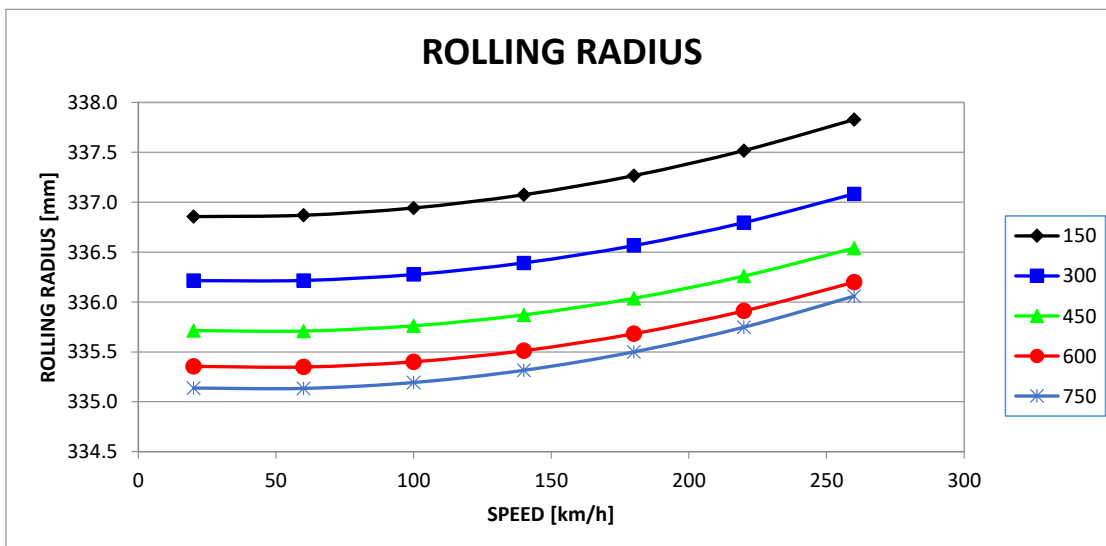
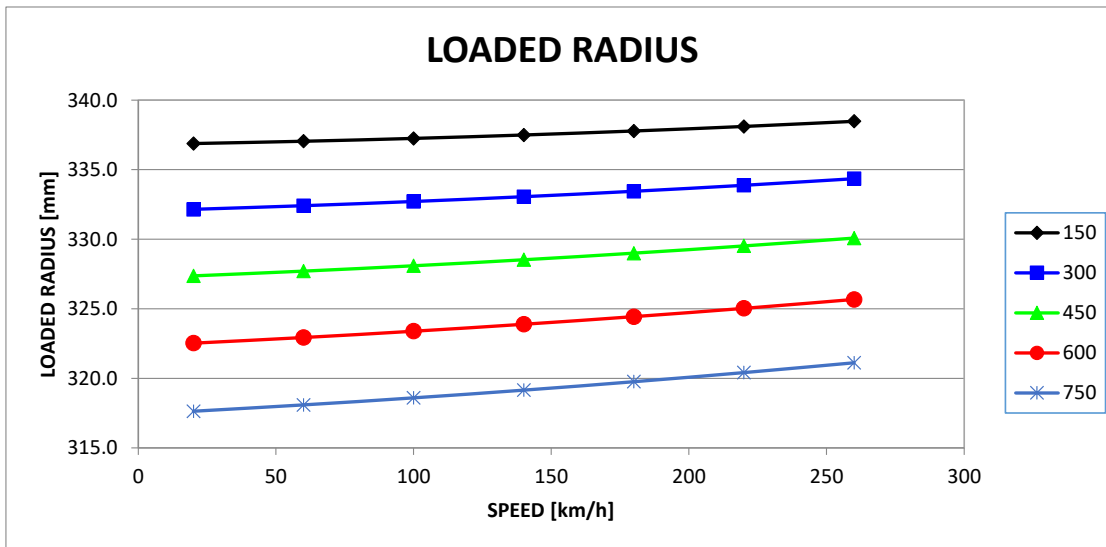
325/680-18x12.5J DHF

LOADED RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	336.9	332.1	327.4	322.5	317.6
60	337.0	332.4	327.7	322.9	318.1
100	337.2	332.7	328.1	323.4	318.6
140	337.5	333.1	328.5	323.9	319.2
180	337.8	333.4	329.0	324.4	319.8
220	338.1	333.9	329.5	325.0	320.4
260	338.5	334.4	330.1	325.7	321.1

ROLLING RADIUS

SPEED [km/h]	LOAD [kg]				
	150	300	450	600	750
20	336.9	336.2	335.7	335.4	335.1
60	336.9	336.2	335.7	335.3	335.1
100	336.9	336.3	335.8	335.4	335.2
140	337.1	336.4	335.9	335.5	335.3
180	337.3	336.6	336.0	335.7	335.5
220	337.5	336.8	336.3	335.9	335.7
260	337.8	337.1	336.5	336.2	336.1





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

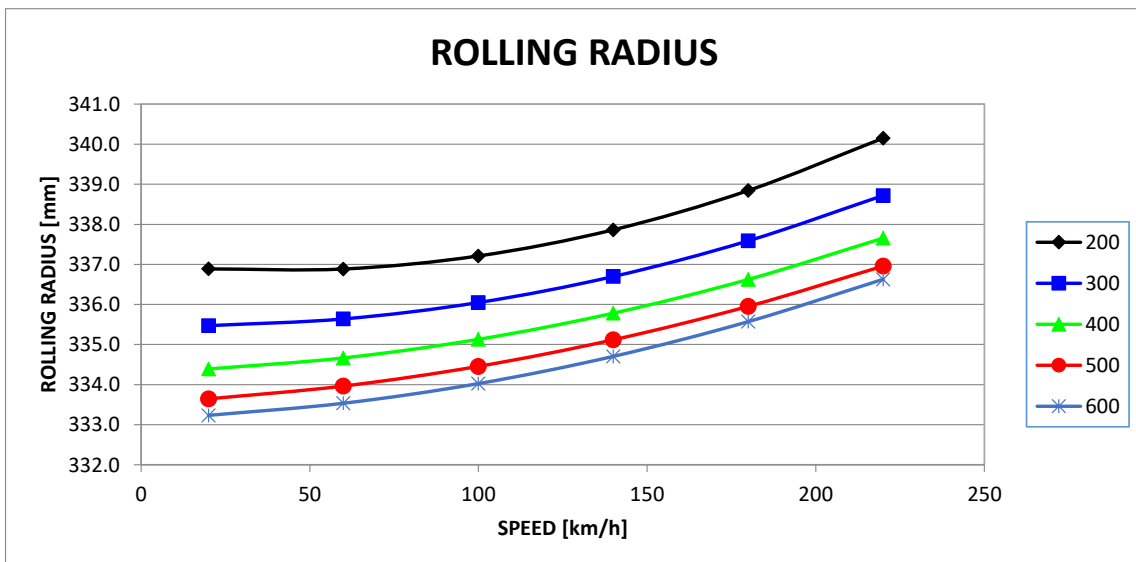
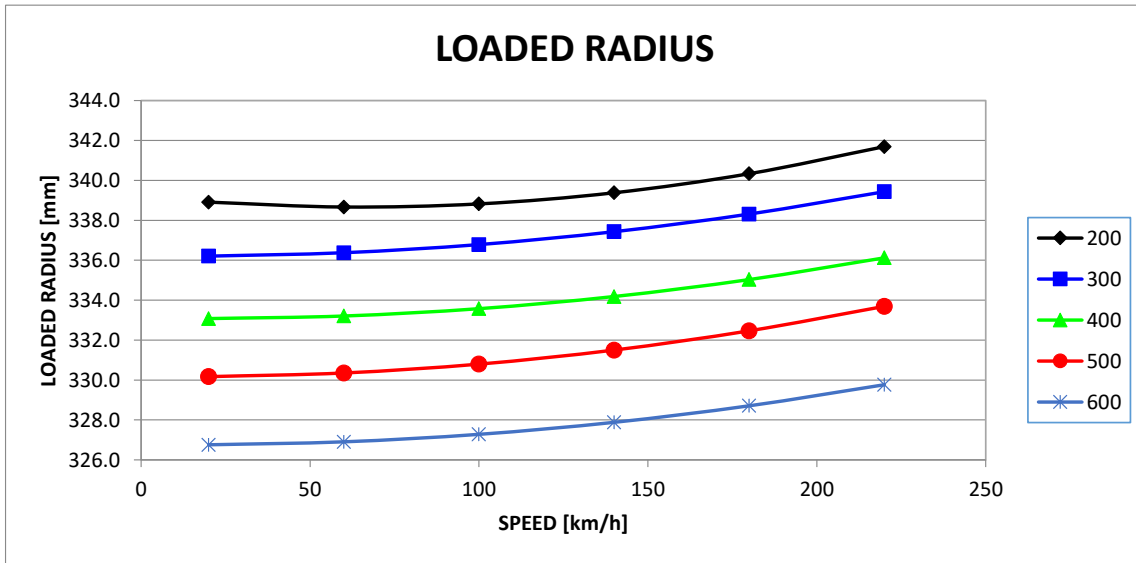
315/680-18x12.0J WHA

LOADED RADIUS

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	338.9	336.2	333.1	330.2	326.8
	60	338.7	336.4	333.2	330.4	326.9
	100	338.8	336.8	333.6	330.8	327.3
	140	339.4	337.4	334.2	331.5	327.9
	180	340.3	338.3	335.0	332.5	328.7
	220	341.7	339.4	336.1	333.7	329.8

ROLLING RADIUS

		LOAD [kg]				
		200	300	400	500	600
SPEED [km/h]	20	336.9	335.5	334.4	333.6	333.2
	60	336.9	335.6	334.7	334.0	333.5
	100	337.2	336.0	335.1	334.5	334.0
	140	337.9	336.7	335.8	335.1	334.7
	180	338.8	337.6	336.6	336.0	335.6
	220	340.2	338.7	337.7	337.0	336.6



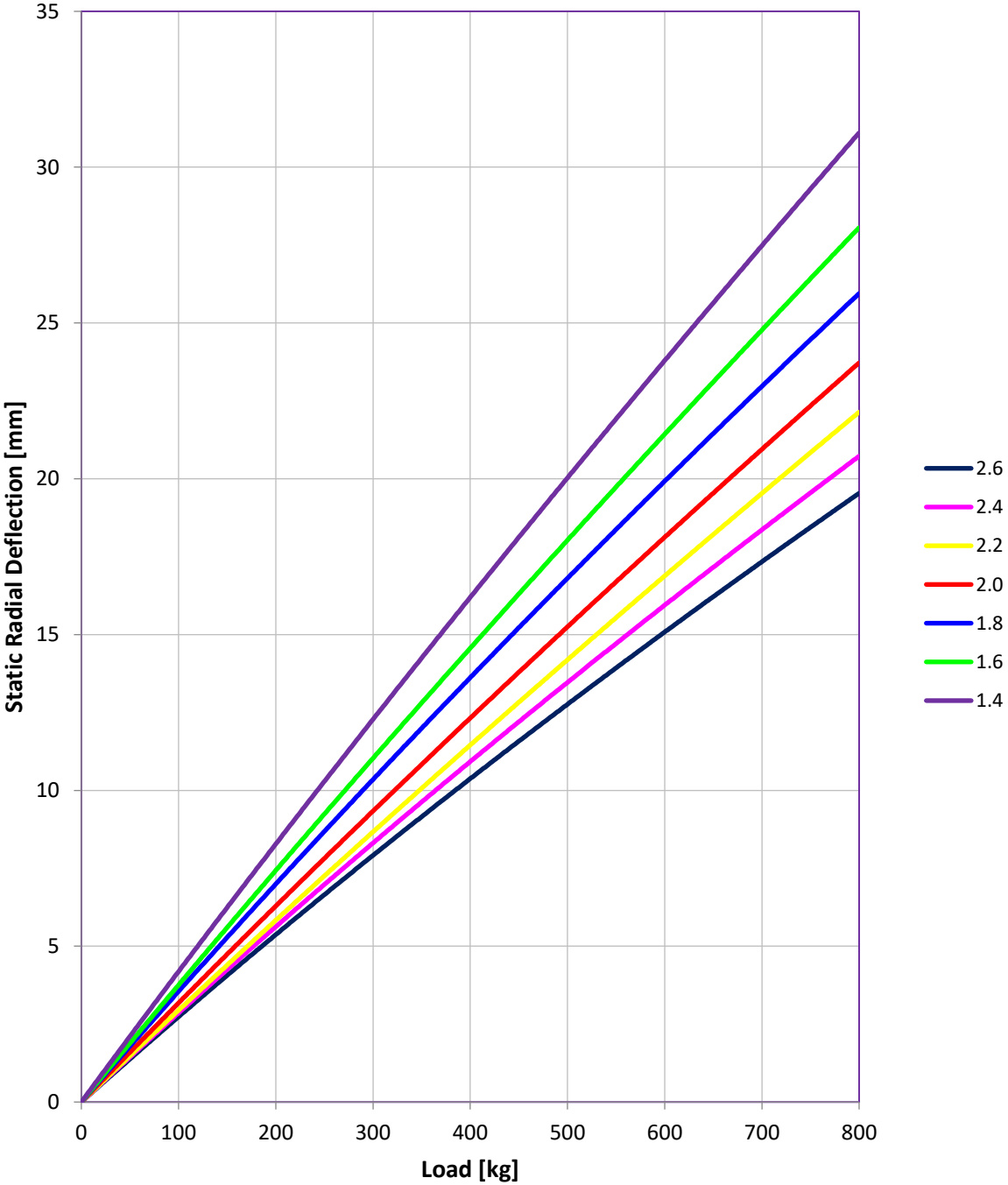


STATIC RADIAL DEFLECTION – 325/680-18x12.0J @ CA 0.0 ° DHF

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	1.1
50	1.4	1.4	1.5	1.6	1.8	1.9	2.1
75	2.1	2.2	2.2	2.4	2.7	2.8	3.2
100	2.7	2.9	2.9	3.2	3.5	3.8	4.2
125	3.4	3.6	3.7	4.0	4.4	4.7	5.2
150	4.1	4.3	4.4	4.7	5.3	5.6	6.2
175	4.7	4.9	5.1	5.5	6.1	6.5	7.3
200	5.4	5.6	5.8	6.3	7.0	7.4	8.3
225	6.0	6.3	6.5	7.1	7.8	8.3	9.3
250	6.7	7.0	7.3	7.8	8.7	9.2	10.3
275	7.3	7.6	8.0	8.6	9.5	10.1	11.3
300	7.9	8.3	8.7	9.3	10.4	11.0	12.3
325	8.5	9.0	9.4	10.1	11.2	11.9	13.3
350	9.2	9.6	10.1	10.8	12.0	12.8	14.2
375	9.8	10.3	10.8	11.6	12.8	13.7	15.2
400	10.4	10.9	11.5	12.3	13.6	14.6	16.2
425	11.0	11.6	12.1	13.1	14.4	15.4	17.2
450	11.6	12.2	12.8	13.8	15.2	16.3	18.1
475	12.2	12.8	13.5	14.5	16.0	17.2	19.1
500	12.8	13.5	14.2	15.2	16.8	18.0	20.0
525	13.3	14.1	14.9	16.0	17.6	18.9	21.0
550	13.9	14.7	15.5	16.7	18.4	19.7	21.9
575	14.5	15.3	16.2	17.4	19.2	20.6	22.9
600	15.1	15.9	16.9	18.1	19.9	21.4	23.8
625	15.7	16.6	17.5	18.8	20.7	22.3	24.7
650	16.2	17.2	18.2	19.5	21.5	23.1	25.6
675	16.8	17.8	18.9	20.2	22.2	23.9	26.6
700	17.3	18.4	19.5	20.9	23.0	24.8	27.5
725	17.9	19.0	20.2	21.6	23.7	25.6	28.4
750	18.4	19.6	20.8	22.3	24.5	26.4	29.3
775	19.0	20.1	21.5	23.0	25.2	27.2	30.2
800	19.5	20.7	22.1	23.7	25.9	28.1	31.1



STATIC RADIAL DEFLECTION – 325/680-18x12.0J @ CA 0.0° DHF



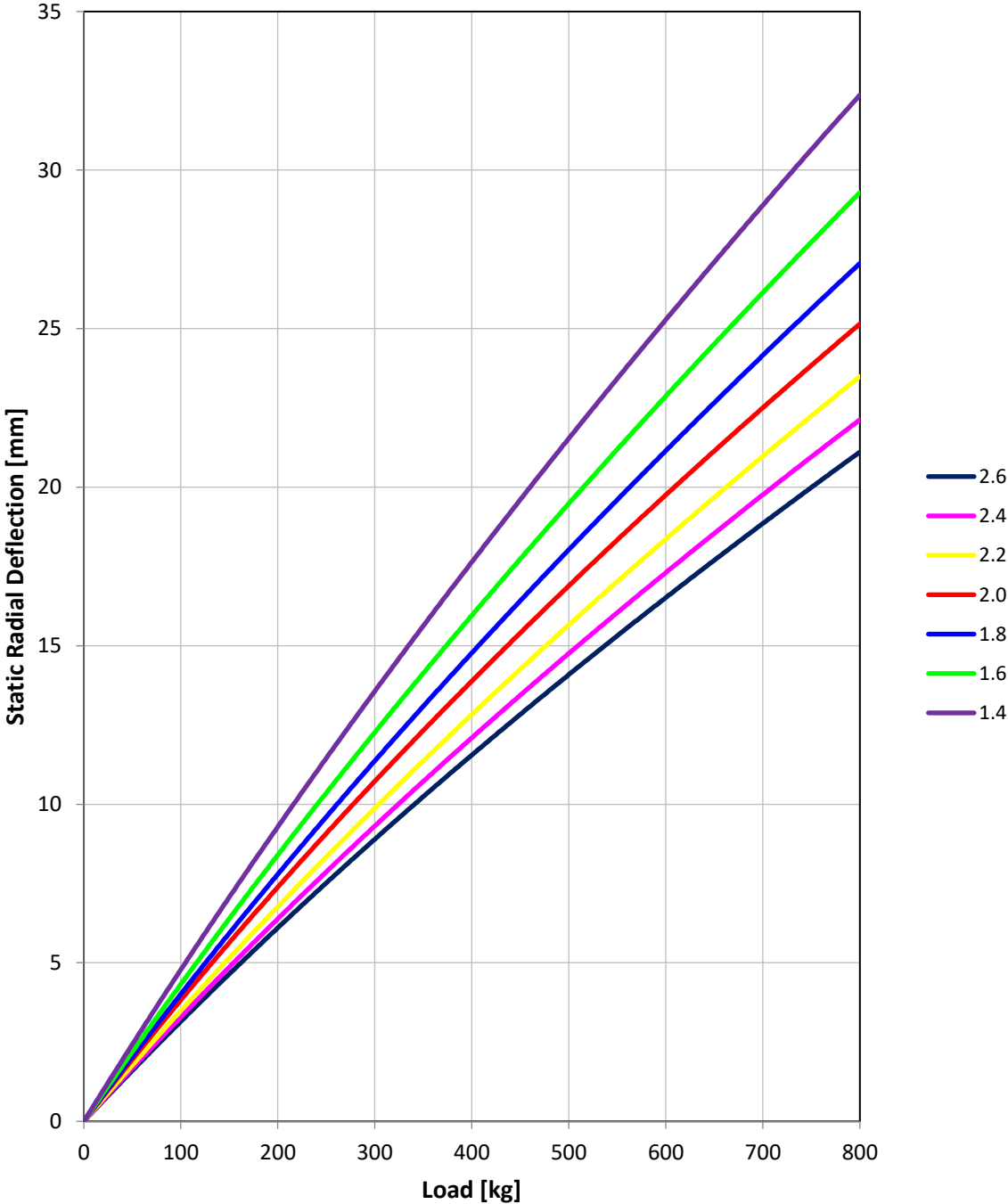


STATIC RADIAL DEFLECTION – 325/680-18x12.0J @ CA -3.0 ° DHF

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	0.8	0.8	0.9	1.0	1.0	1.1	1.2
50	1.6	1.7	1.8	2.0	2.0	2.2	2.4
75	2.4	2.5	2.6	2.9	3.0	3.3	3.6
100	3.2	3.3	3.5	3.8	4.0	4.3	4.8
125	3.9	4.1	4.3	4.7	5.0	5.4	5.9
150	4.7	4.9	5.2	5.6	5.9	6.4	7.1
175	5.4	5.6	6.0	6.5	6.9	7.4	8.2
200	6.1	6.4	6.8	7.4	7.8	8.4	9.3
225	6.8	7.1	7.6	8.2	8.7	9.4	10.4
250	7.5	7.9	8.3	9.1	9.6	10.4	11.5
275	8.2	8.6	9.1	9.9	10.5	11.3	12.5
300	8.9	9.3	9.9	10.7	11.4	12.3	13.6
325	9.6	10.0	10.6	11.5	12.2	13.2	14.6
350	10.2	10.7	11.4	12.3	13.1	14.1	15.6
375	10.9	11.4	12.1	13.1	13.9	15.1	16.6
400	11.6	12.1	12.8	13.9	14.8	16.0	17.6
425	12.2	12.8	13.6	14.7	15.6	16.9	18.6
450	12.8	13.4	14.3	15.4	16.4	17.7	19.6
475	13.5	14.1	15.0	16.2	17.2	18.6	20.6
500	14.1	14.8	15.7	16.9	18.0	19.5	21.5
525	14.7	15.4	16.3	17.6	18.8	20.3	22.5
550	15.3	16.0	17.0	18.3	19.6	21.2	23.4
575	15.9	16.7	17.7	19.1	20.4	22.0	24.4
600	16.5	17.3	18.4	19.8	21.2	22.9	25.3
625	17.1	17.9	19.0	20.5	21.9	23.7	26.2
650	17.7	18.5	19.7	21.1	22.7	24.5	27.1
675	18.3	19.2	20.3	21.8	23.4	25.3	28.0
700	18.9	19.8	21.0	22.5	24.2	26.1	28.9
725	19.4	20.4	21.6	23.2	24.9	26.9	29.8
750	20.0	21.0	22.2	23.8	25.6	27.7	30.6
775	20.6	21.5	22.9	24.5	26.3	28.5	31.5
800	21.1	22.1	23.5	25.1	27.1	29.3	32.4



STATIC RADIAL DEFLECTION – 325/680-18x12.0J @ CA -3.0° DHF



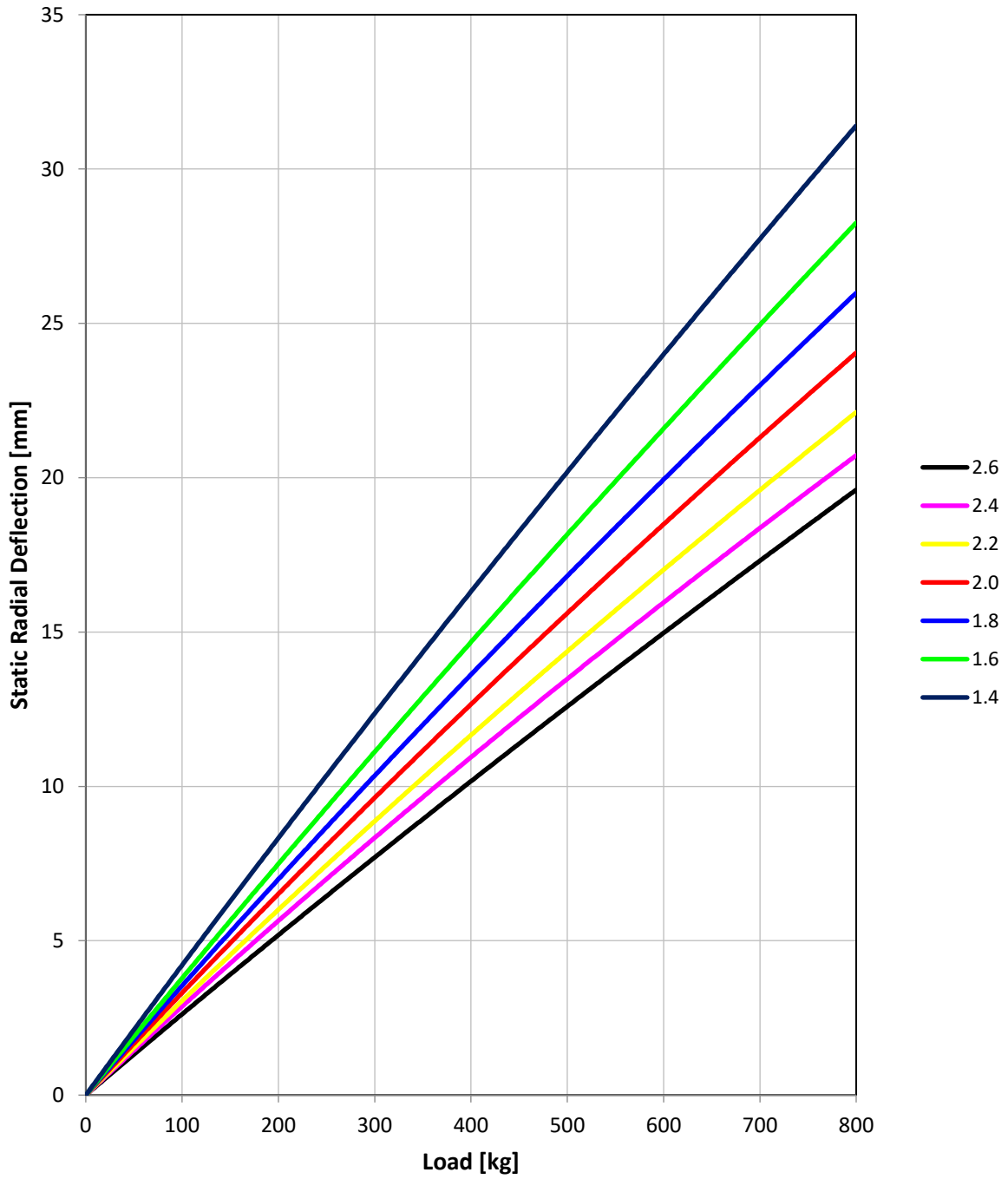


STATIC RADIAL DEFLECTION – 325/680-18x12.5J @ CA 0.0 ° DHF

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	0.8	0.8	0.9	1.0	1.1
50	1.3	1.4	1.5	1.7	1.8	1.9	2.1
75	2.0	2.2	2.3	2.5	2.7	2.8	3.2
100	2.6	2.9	3.1	3.3	3.5	3.8	4.2
125	3.3	3.6	3.8	4.1	4.4	4.7	5.2
150	3.9	4.3	4.5	4.9	5.3	5.6	6.3
175	4.5	5.0	5.3	5.7	6.1	6.6	7.3
200	5.2	5.6	6.0	6.5	7.0	7.5	8.3
225	5.8	6.3	6.7	7.3	7.8	8.4	9.3
250	6.4	7.0	7.5	8.1	8.7	9.3	10.4
275	7.1	7.7	8.2	8.9	9.5	10.2	11.4
300	7.7	8.3	8.9	9.6	10.3	11.1	12.4
325	8.3	9.0	9.6	10.4	11.2	12.0	13.4
350	8.9	9.6	10.3	11.2	12.0	12.9	14.3
375	9.6	10.3	11.0	11.9	12.8	13.8	15.3
400	10.2	10.9	11.7	12.7	13.6	14.7	16.3
425	10.8	11.6	12.3	13.4	14.4	15.6	17.3
450	11.4	12.2	13.0	14.1	15.2	16.4	18.3
475	12.0	12.9	13.7	14.9	16.0	17.3	19.2
500	12.6	13.5	14.4	15.6	16.8	18.2	20.2
525	13.2	14.1	15.0	16.3	17.6	19.0	21.1
550	13.8	14.7	15.7	17.1	18.4	19.9	22.1
575	14.4	15.3	16.4	17.8	19.2	20.7	23.0
600	15.0	16.0	17.0	18.5	19.9	21.6	24.0
625	15.6	16.6	17.7	19.2	20.7	22.4	24.9
650	16.1	17.2	18.3	19.9	21.5	23.3	25.9
675	16.7	17.8	19.0	20.6	22.2	24.1	26.8
700	17.3	18.4	19.6	21.3	23.0	25.0	27.7
725	17.9	19.0	20.2	22.0	23.7	25.8	28.7
750	18.5	19.6	20.9	22.7	24.5	26.6	29.6
775	19.0	20.1	21.5	23.4	25.2	27.4	30.5
800	19.6	20.7	22.1	24.0	26.0	28.3	31.4



STATIC RADIAL DEFLECTION – 325/680-18x12.5J @ CA 0.0° DHF



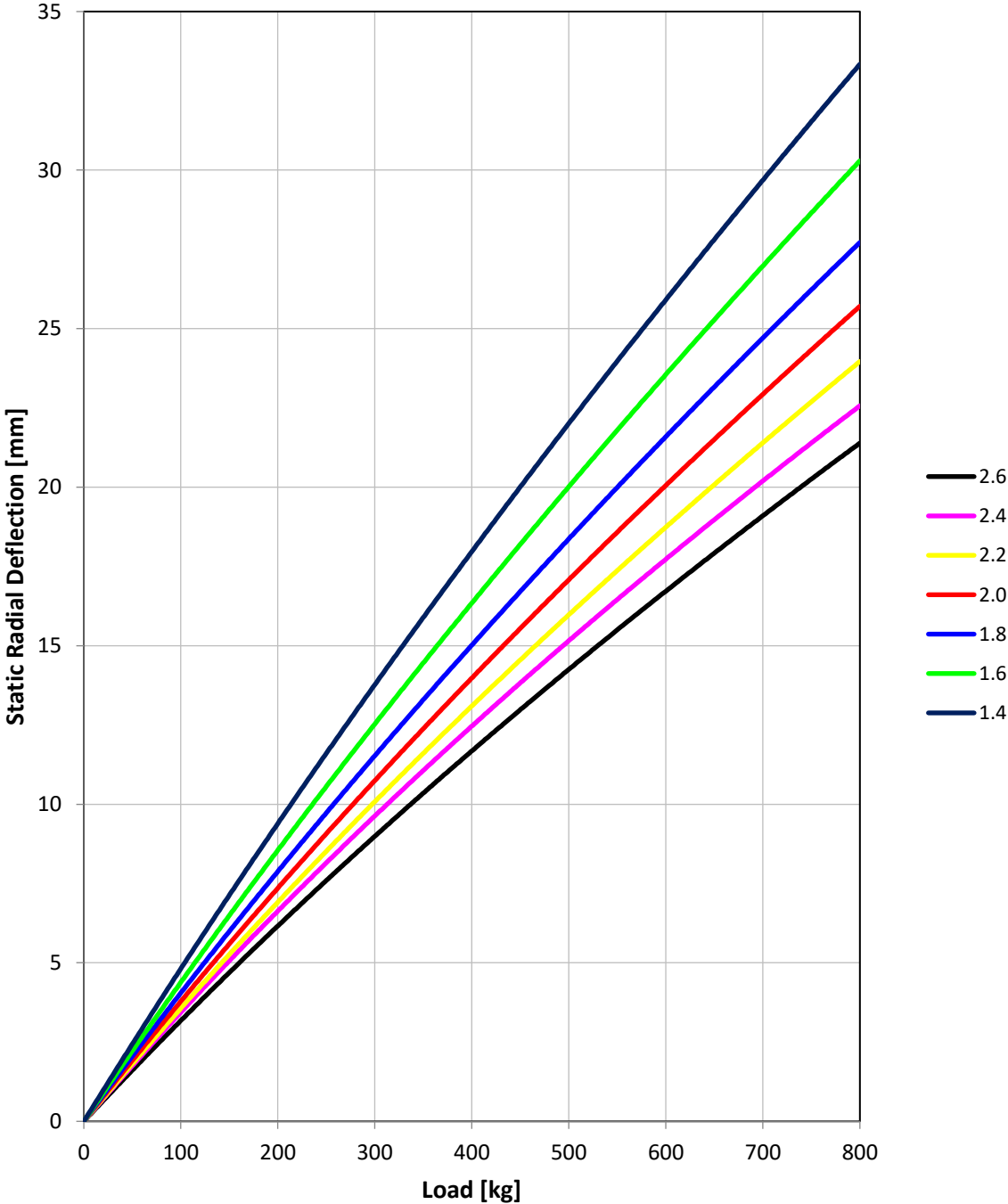


STATIC RADIAL DEFLECTION – 325/680-18x12.5J @ CA -3.0 ° DHF

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	0.8	0.9	0.9	1.0	1.0	1.1	1.2
50	1.6	1.8	1.8	1.9	2.1	2.2	2.4
75	2.4	2.6	2.7	2.9	3.1	3.3	3.6
100	3.2	3.4	3.6	3.8	4.0	4.4	4.8
125	3.9	4.3	4.4	4.7	5.0	5.4	6.0
150	4.7	5.1	5.3	5.6	6.0	6.5	7.1
175	5.4	5.9	6.1	6.5	6.9	7.5	8.3
200	6.2	6.6	6.9	7.4	7.9	8.6	9.4
225	6.9	7.4	7.7	8.2	8.8	9.6	10.5
250	7.6	8.2	8.5	9.1	9.7	10.6	11.6
275	8.3	8.9	9.3	9.9	10.6	11.6	12.7
300	9.0	9.6	10.1	10.7	11.5	12.5	13.8
325	9.7	10.4	10.9	11.6	12.4	13.5	14.8
350	10.4	11.1	11.6	12.4	13.3	14.5	15.9
375	11.0	11.8	12.4	13.2	14.2	15.4	16.9
400	11.7	12.5	13.1	14.0	15.0	16.3	18.0
425	12.3	13.2	13.8	14.8	15.9	17.3	19.0
450	13.0	13.8	14.6	15.5	16.7	18.2	20.0
475	13.6	14.5	15.3	16.3	17.5	19.1	21.0
500	14.3	15.2	16.0	17.1	18.4	20.0	22.0
525	14.9	15.8	16.7	17.8	19.2	20.9	23.0
550	15.5	16.5	17.4	18.6	20.0	21.8	24.0
575	16.1	17.1	18.1	19.3	20.8	22.7	25.0
600	16.7	17.7	18.7	20.1	21.6	23.6	25.9
625	17.3	18.4	19.4	20.8	22.4	24.4	26.9
650	17.9	19.0	20.1	21.5	23.2	25.3	27.8
675	18.5	19.6	20.7	22.2	23.9	26.1	28.8
700	19.1	20.2	21.4	22.9	24.7	27.0	29.7
725	19.7	20.8	22.1	23.6	25.5	27.8	30.6
750	20.3	21.4	22.7	24.3	26.2	28.6	31.5
775	20.8	22.0	23.3	25.0	27.0	29.5	32.4
800	21.4	22.6	24.0	25.7	27.7	30.3	33.3



STATIC RADIAL DEFLECTION – 325/680-18x12.5J @ CA -3.0° DHF



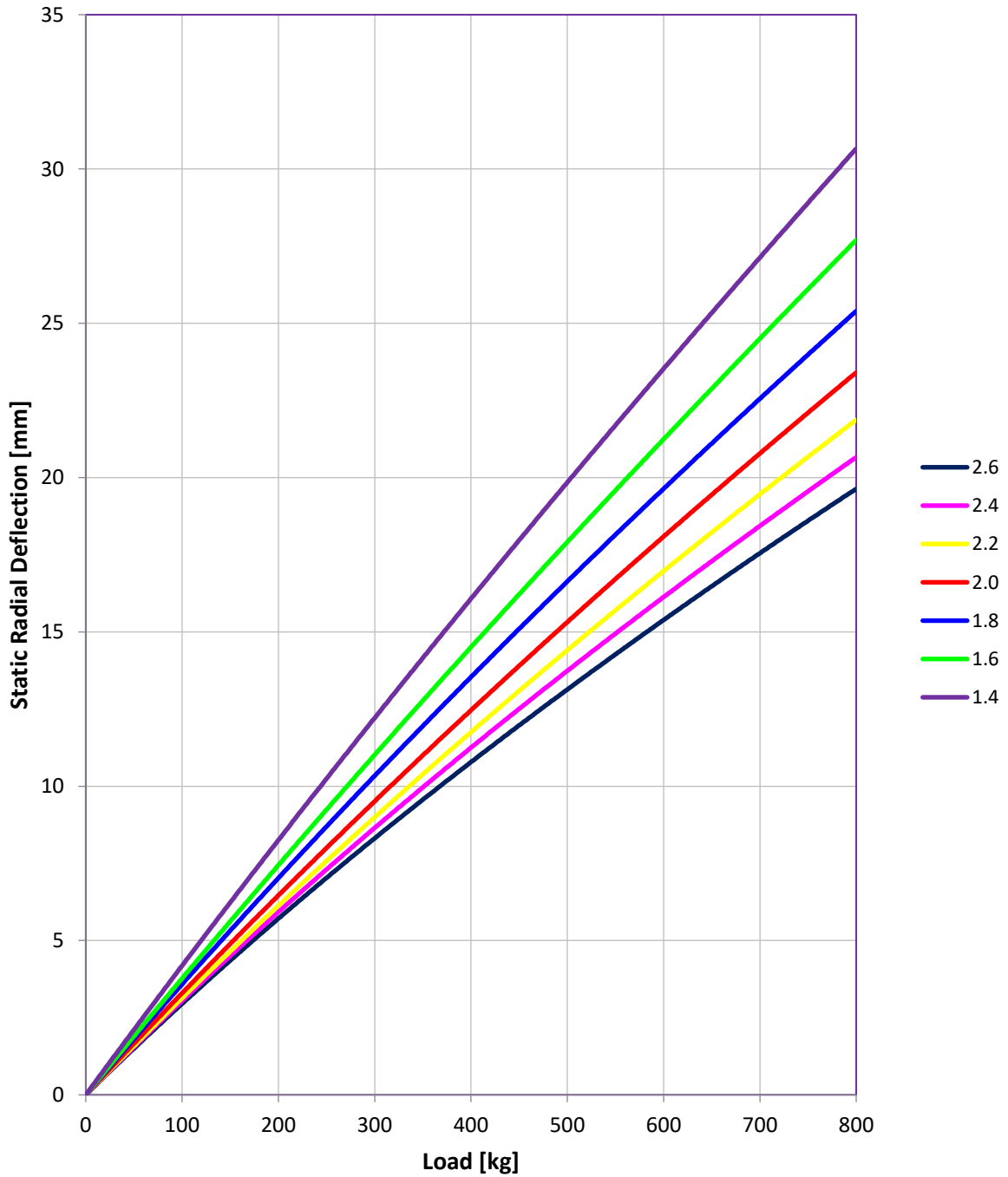


STATIC RADIAL DEFLECTION – 315/680-18x12.0J @ CA 0.0 ° WHA

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	1.9	2.1
75	2.2	2.3	2.4	2.5	2.7	2.8	3.2
100	3.0	3.0	3.1	3.3	3.6	3.8	4.2
125	3.7	3.8	3.9	4.1	4.5	4.7	5.2
150	4.4	4.5	4.7	4.9	5.3	5.6	6.2
175	5.0	5.2	5.4	5.7	6.2	6.5	7.2
200	5.7	5.9	6.1	6.5	7.0	7.4	8.3
225	6.4	6.6	6.9	7.2	7.9	8.3	9.3
250	7.0	7.3	7.6	8.0	8.7	9.2	10.2
275	7.7	8.0	8.3	8.8	9.5	10.1	11.2
300	8.3	8.6	9.0	9.5	10.3	11.0	12.2
325	8.9	9.3	9.7	10.3	11.1	11.9	13.2
350	9.6	10.0	10.4	11.0	12.0	12.8	14.2
375	10.2	10.6	11.1	11.7	12.7	13.6	15.1
400	10.8	11.2	11.8	12.5	13.5	14.5	16.1
425	11.4	11.9	12.4	13.2	14.3	15.4	17.0
450	12.0	12.5	13.1	13.9	15.1	16.2	18.0
475	12.6	13.1	13.8	14.6	15.9	17.1	18.9
500	13.1	13.7	14.4	15.3	16.6	17.9	19.8
525	13.7	14.3	15.1	16.0	17.4	18.8	20.8
550	14.3	14.9	15.7	16.7	18.1	19.6	21.7
575	14.8	15.5	16.3	17.4	18.9	20.4	22.6
600	15.4	16.1	17.0	18.1	19.6	21.2	23.5
625	15.9	16.7	17.6	18.8	20.4	22.1	24.4
650	16.5	17.3	18.2	19.4	21.1	22.9	25.3
675	17.0	17.9	18.8	20.1	21.8	23.7	26.2
700	17.6	18.4	19.5	20.8	22.6	24.5	27.1
725	18.1	19.0	20.1	21.4	23.3	25.3	28.0
750	18.6	19.6	20.7	22.1	24.0	26.1	28.9
775	19.1	20.1	21.3	22.8	24.7	26.9	29.8
800	19.6	20.7	21.9	23.4	25.4	27.7	30.7



STATIC RADIAL DEFLECTION – 315/680-18x12.0J @ CA 0.0° WHA





STATIC RADIAL DEFLECTION – 315/680-18x12.0J @ CA -3.0 ° WHA

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	1.1	1.1	1.2	1.2	1.2	1.3	1.3
50	2.1	2.1	2.2	2.3	2.4	2.5	2.7
75	3.1	3.1	3.3	3.4	3.5	3.7	3.9
100	4.0	4.0	4.3	4.5	4.6	4.9	5.2
125	4.9	4.9	5.3	5.5	5.7	6.0	6.4
150	5.8	5.8	6.2	6.5	6.7	7.2	7.6
175	6.6	6.6	7.1	7.4	7.7	8.2	8.8
200	7.4	7.5	8.0	8.3	8.7	9.3	10.0
225	8.2	8.3	8.8	9.2	9.7	10.4	11.1
250	9.0	9.0	9.7	10.1	10.6	11.4	12.2
275	9.8	9.8	10.5	11.0	11.6	12.4	13.3
300	10.5	10.5	11.3	11.8	12.5	13.4	14.4
325	11.2	11.3	12.0	12.6	13.4	14.3	15.4
350	11.9	12.0	12.8	13.4	14.2	15.3	16.5
375	12.6	12.7	13.5	14.2	15.1	16.2	17.5
400	13.2	13.4	14.3	15.0	15.9	17.2	18.5
425	13.9	14.0	15.0	15.8	16.7	18.1	19.5
450	14.5	14.7	15.7	16.5	17.6	19.0	20.5
475	15.2	15.4	16.3	17.2	18.4	19.8	21.4
500	15.8	16.0	17.0	17.9	19.1	20.7	22.4
525	16.4	16.6	17.7	18.7	19.9	21.6	23.3
550	17.0	17.2	18.3	19.3	20.7	22.4	24.3
575	17.6	17.8	18.9	20.0	21.4	23.2	25.2
600	18.1	18.4	19.6	20.7	22.2	24.0	26.1
625	18.7	19.0	20.2	21.4	22.9	24.9	27.0
650	19.3	19.6	20.8	22.0	23.6	25.7	27.9
675	19.8	20.2	21.4	22.7	24.4	26.5	28.8
700	20.4	20.8	22.0	23.3	25.1	27.2	29.6
725	20.9	21.3	22.6	23.9	25.8	28.0	30.5
750	21.4	21.9	23.2	24.6	26.5	28.8	31.3
775	22.0	22.4	23.7	25.2	27.1	29.5	32.2
800	22.5	22.9	24.3	25.8	27.8	30.3	33.0



STATIC RADIAL DEFLECTION – 315/680-18x12.0J @ CA -3.0° WHA

