

May 2010

# Technical Data

PIRELLI TRUCK TYRES.

**PIRELLI**

 **ATTENTION**

The information contained in this manual relates to tyres designed exclusively for goods vehicles and/or passenger vehicles. Any other applications are not permitted.

**INCORRECT OR IMPROPERLY USED TYRES CAN BE DANGEROUS.**

The manual has been produced in an easily understood form for information purposes and is not intended to be comprehensive in nature. The data given will be updated periodically.

Since the manual is intended for international use the information may not reflect national legislative requirements which must be taken into consideration.

With regard to care and maintenance it is necessary to follow the tyre manufacturer's instructions. In particular, please remember that tyres age even if they have not been used or have only been used occasionally. Cracking of the tread and sidewall rubber, sometimes accompanied by carcass deformation, is evidence of ageing. Old and aged tyres must be checked by a tyre specialist to ascertain their suitability for further use.

If in doubt concerning the interpretation of information please contact your local Pirelli representative or, alternatively the Pirelli Contact Centre at the following address:

Pirelli Tyre S.p.A.  
Viale Sarca, 222 - 20126 Milano Italia  
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[www.pirelli.com](http://www.pirelli.com)

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## PIRELLI TYRES - HIGH PERFORMANCE

Pirelli, one of the best-known brand names around the world, designing high technology tyres for all kinds of vehicles. A multinational company with over 24 industrial plants in 12 countries and a commercial presence on every continent. Globally, Pirelli invests in numerous research and development centres, with over 1,000 specialist technicians at dedicated proving facilities. The constant search for technical excellence has resulted in revolutionary technological innovations, such as MIRS™ (Modular Integrated Roboticised System). This has given birth to products that are market leaders in terms of reliability, performance and activity safety. Competition experience gained in some of the world's most prestigious events has been used to both develop and test the Pirelli product.

Pirelli has been actively involved in the commercial/industrial vehicle sector for over 100 years, playing a key role in product development and evolution, perfecting unique technologies in response to increasingly sophisticated demands from the world of transport. A number of strategic acquisitions have reinforced the positioning of the brand, allowing highly competitive positions within the concept of globalisation to be reached within a few years.

In the commercial vehicle tyre sector, in over 100 years of activity, the Italian company has played a leading role in product development, perfecting exclusive technology aimed at the needs of the transport industry.

Pirelli's milestones include:

- Paris Peking Rally of 1907
- Discovery of the reinforcing actions of carbon black
- Creation of cord weave
- Development of 'dedicated' compounds and designs
- Introduction of rayon
- Specialisation of tyres by vehicle type use and axle
- Birth of steel belted and low profile commercial tyres



These are but a few of the milestones along the road of technological progress that has seen Pirelli's innovation on the world's competitive scene and account for the technological leadership in Latin America where it first introduced product segmentation.

The most recent achievements in this frantic technological revolution have led to the introduction of the "Amaranto" and "O1 Series" product lines.

These both benefit from the exclusive SATT™ (Spiral Advanced Technology for

Truck) technology. This means that the Amaranto tyres utilise a spiral process technology for specific components, eliminating joints with a consequent improvement in both tyre uniformity and driving comfort. These are technological features that Pirelli has developed out of the experience gained over three years of MIRS™ production and allow the company to bring to market a product that is comfortable, progressive and precise to drive.

Furthermore, O1 Series products feature ECOIMPACT symbols: designed to meet the requirements of the trade with new profiles, structures and materials, they sit firmly at the top of the European quality tree in terms of mileage performance, low rolling resistance with consequent reduced fuel consumption and environmental-friendliness with low noise levels and the use of highly aromatic oil free (HAOF) materials. The innovative structure of the O1 Series guarantees optimum casing retreadability and therefore a longer-lasting product also in subsequent lives to the first, once again satisfying the combined need for value for money and environmental protection.



## PRODUCT SEGMENTATION

Pirelli industrial vehicle segmentation is based on the concept of severity.

The classic division between “on/off-road” has been further split into different areas of use classified according to the growing severity of the road surface on which the vehicle usually travels.

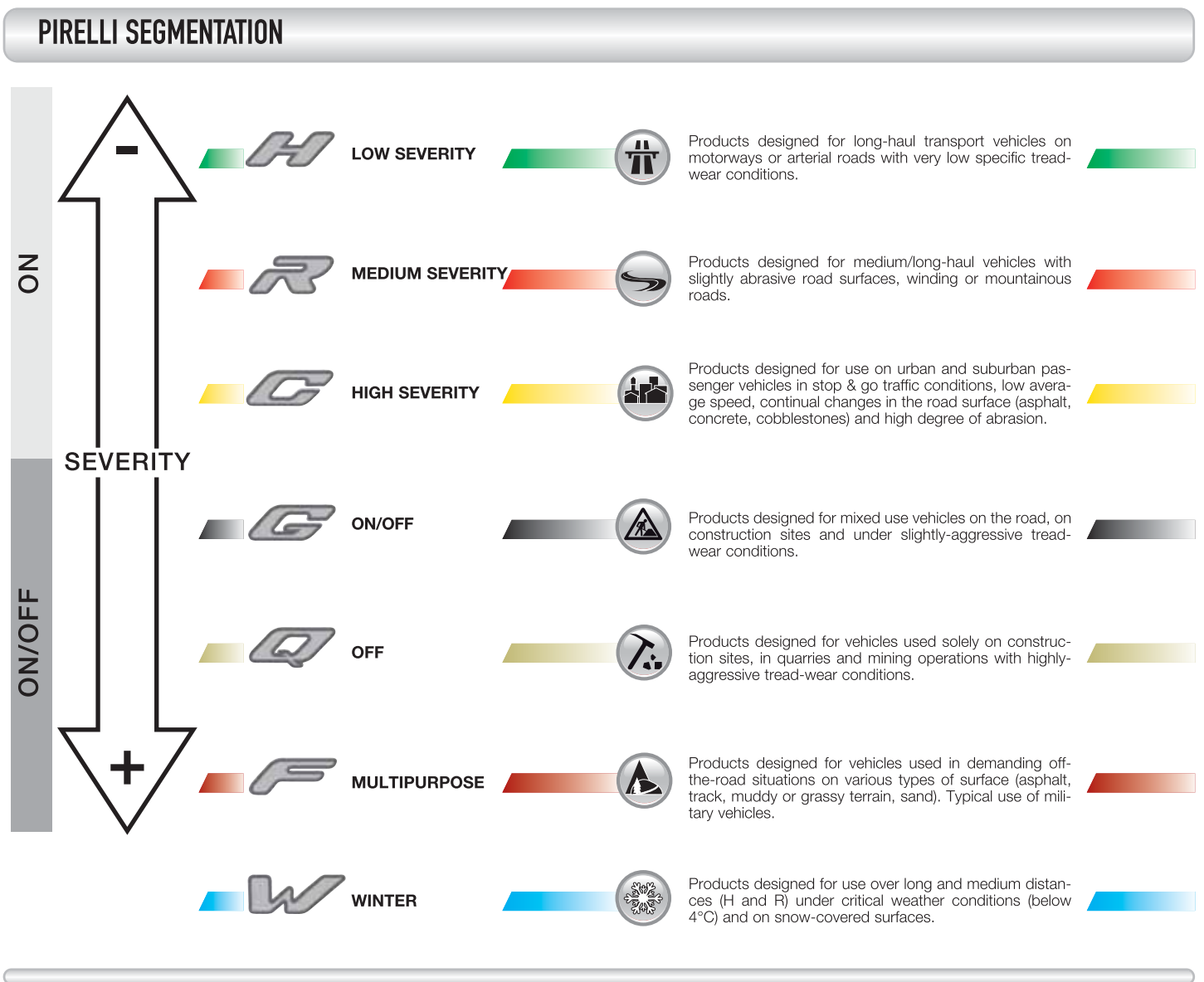
The “severity” parameter has a direct effect on all tyre selection variables, both technical (materials utilised, design, etc.) and financial (wear, running costs, length of first life and useful life, etc.).

The combination of severity and vehicle type provides optimum tyre specifications for each segment.

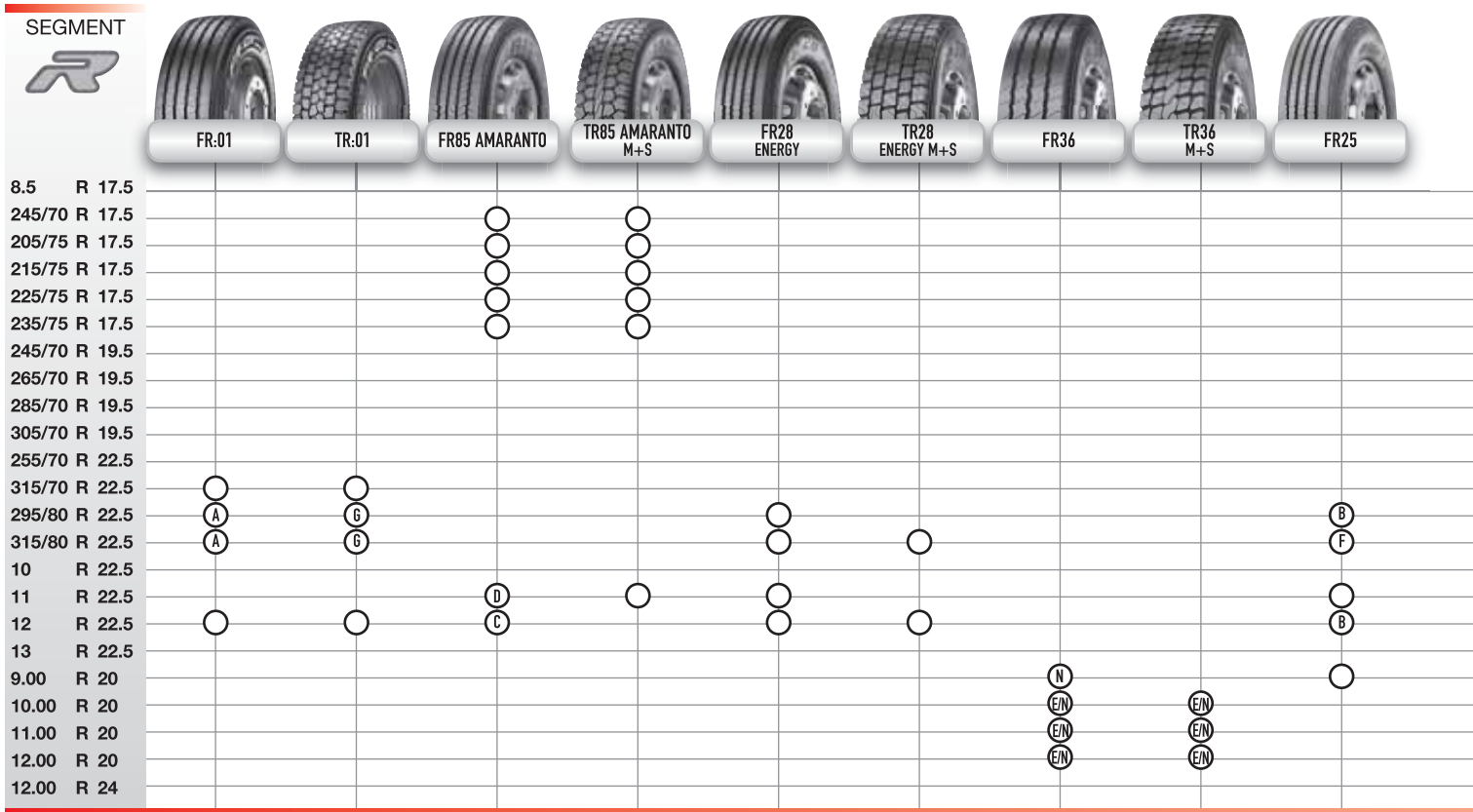
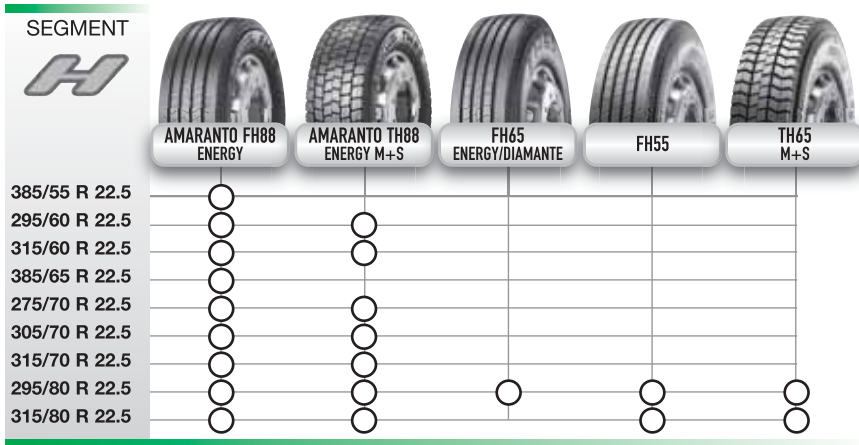
Further details of this definition, allowing each type of use to be clearly identified, are set out in the following chart.

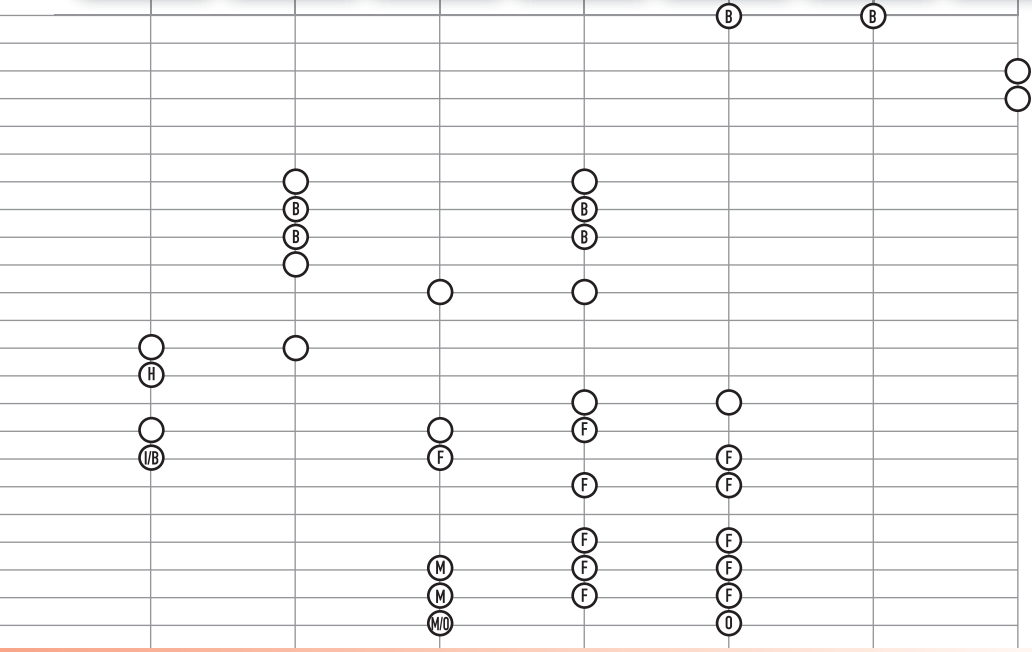
### Plus Versions

Specially recommended under the most extreme conditions of use: high temperatures, fully laden, difficult road conditions.



# PRODUCT RANGE

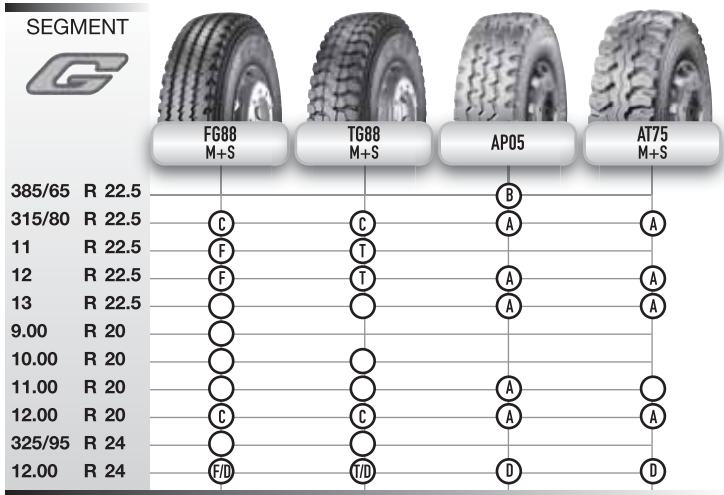
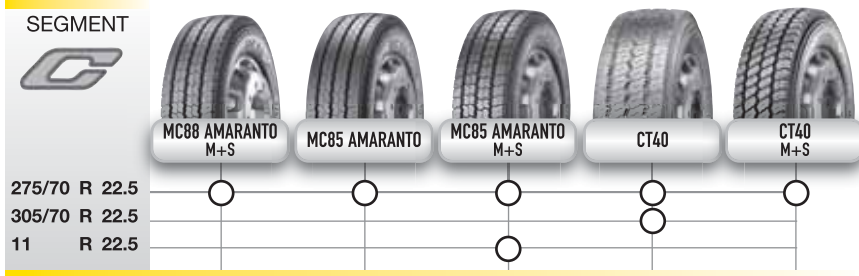




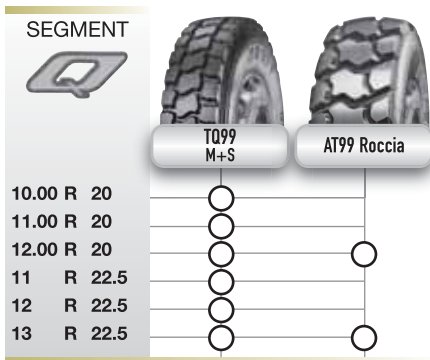
- (A) also FH55 tread pattern design
- (B) also in Plus version
- (C) FR33 tread pattern design
- (D) Vanguard FR85
- (E) Energy
- (F) Plus version
- (G) also TH65 tread pattern design
- (H) in TR25 Plus
- (I) TR25 tread pattern design
- (M) FR11 tread pattern design
- (N) in + version
- (O) also in Diamante version



# PRODUCT RANGE



(A) Plus version  
 (B) also in Plus version  
 (C) also FG85/TG85 tread pattern design  
 (F) FG85 tread pattern design  
 (T) TG85 tread pattern design  
 (D) also in Diamante version

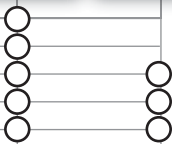




SEGMENT



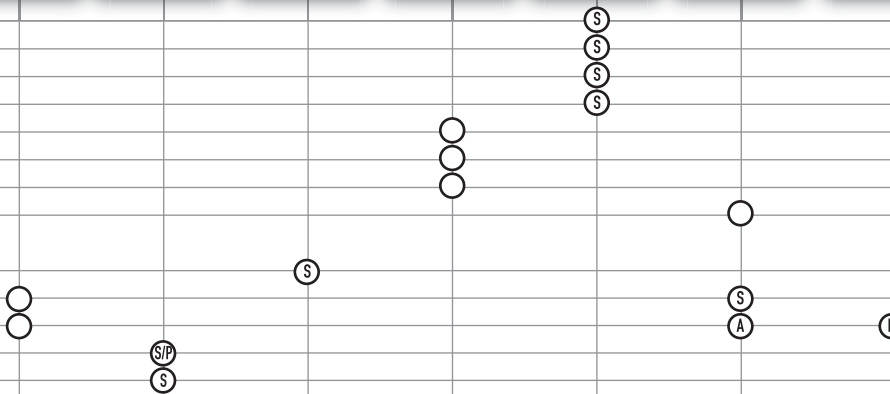
385/55 R 22.5  
 385/65 R 22.5  
 315/70 R 22.5  
 295/80 R 22.5  
 315/80 R 22.5



TRAILER



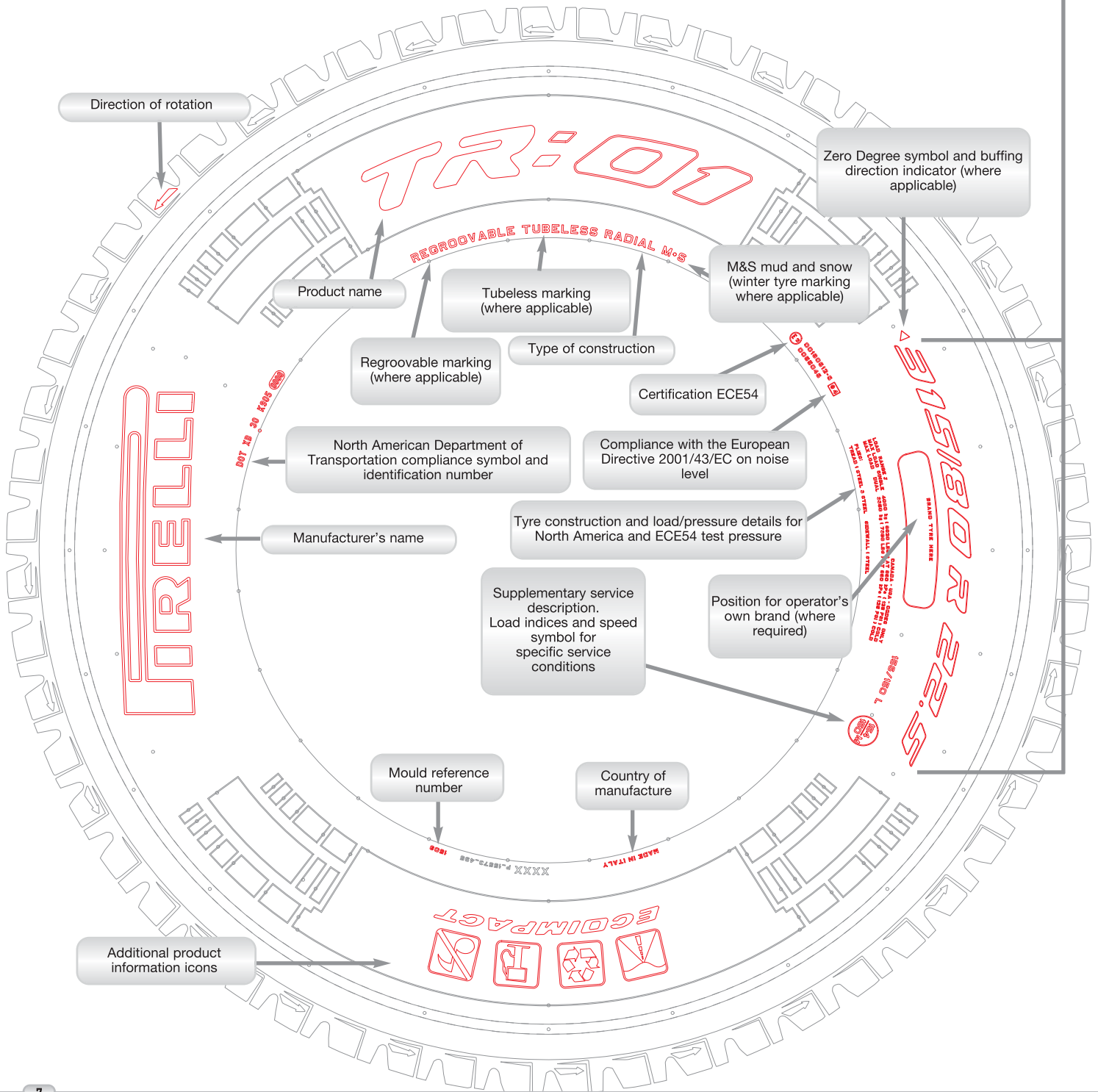
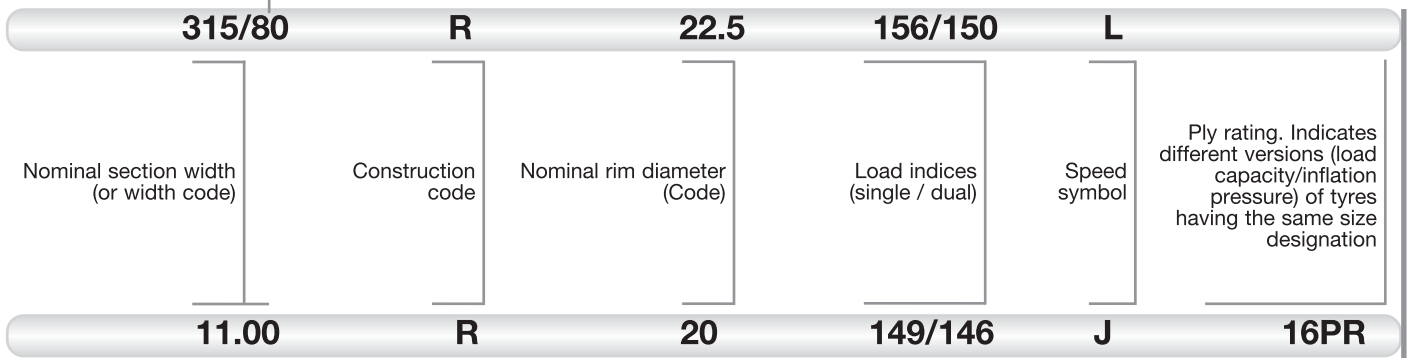
205/65 R 17.5  
 215/75 R 17.5  
 235/75 R 17.5  
 245/70 R 17.5  
 245/70 R 19.5  
 265/70 R 19.5  
 285/70 R 19.5  
 365/80 R 20  
 (14/80 R 20)  
 11 R 22.5  
 385/55 R 22.5  
 385/65 R 22.5  
 445/45 R 19.5  
 435/50 R 19.5



(A) Diamante / Diamante + version  
 (B) also in + version  
 (P) In preparation  
 (S) FRT

# TYRE MARKINGS

Nominal aspect ratio or series (H/S\*100)



# TECHNICAL TABLES LEGEND

## (S) SECTION WIDTH (mm)

The linear distance between the outsides of the sidewalls of an inflated tyre excluding elevations due to labelling (marking), design application indicators, protective bands or ribs.

## (H) SECTION HEIGHT (mm)

Half difference between the overall diameter and the nominal rim diameter.

## OVERALL DIAMETER (mm)

The diameter of an inflated tyre at the outermost surface of the tread.

## (Rstat) STATIC LADEN RADIUS (mm)

The distance between wheel centre and road surface referring to a tyre inflated and loaded at the values shown in the table under static conditions.

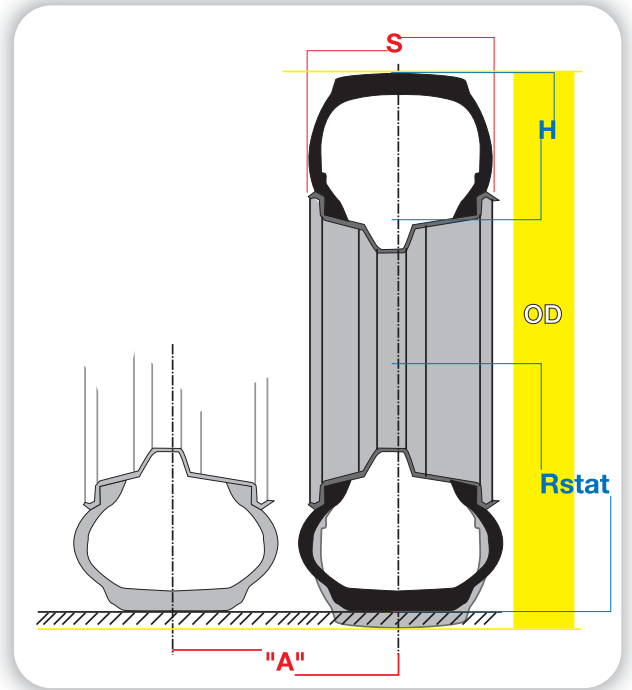
## ROLLING CIRCUMFERENCE (mm)

The distance covered in one complete revolution of the tyre under load and pressure conditions indicated in the tables.

## (A) MINIMUM DUAL SPACING FOR TWIN FITMENTS (mm)

Dual spacing is the distance between the centre lines of the twin tyres.

The "A min" values refer to tyres without chains and may also be applied in the case of the fitment of chains for twin tyres. If chains are fitted on one tyre only, the "A min" values must be increased so that the sidewalls of the tyre under load do not trap the chain and become damaged.



## CONVERSION FACTORS

TO CONVERT FROM	INTO	MULTIPLY BY
mm	inch	0.03937
inch	mm	25.4
kg	lbs.	2.2046
lbs.	kg	0.4536
bar	kg/cm <sup>2</sup>	1.01972
kg/cm <sup>2</sup>	bar	0.98066
bar	lbs./sq. inch (psi)	14.5033
lbs./sq. inch (psi)	bar	0.06895
bar	kPa	100
lbs./sq. inch (psi)	kPa	6.895
km/h	m.p.h.	0.62137
m.p.h.	km/h	1.60935

# DIMENSIONAL TABLES FOR LIGHT TRUCK TYRES

## TUBELESS LOW SECTION STANDARD, REINFORCED AND EXTRALOAD 14"/15"

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims
			New				Standard			
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design	
175/65 R 14 XL	86 T	CHRONO	176	581	266	1772	184	594	1781	<u>5J 5.00B</u> 51/2J 5.50B 6J (a)
175/70 R 14 XL	88 T	CHRONO	176	608	276	1854	184	612	1836	<u>5J 5.00B</u> 41/2J 51/2J 5.50B 6J (a)
195/70 R 14	91 T	CHRONO	198	629	284	1918	209	640	1922	<u>6J</u> 5J 51/2J 61/2J (a)
175/80 R 14	88 T	CHRONO (*)	-	-	-	-	184	648	1940	<u>5J</u> 41/2J 51/2J 6J (a)
185/80 R 14	91 T	CITYNET CHRONO (*)	186 184	652 648	299 292	1993 1948	191	664	1989	<u>5J</u> 41/2J 51/2J 6J (a)
195/65 R 15 Reinf.	95 T	CITYNET	201	635	289	1937	209	645	1967	<u>6J</u>
195/65 R 15 XL		CHRONO	200	628	293	1930				51/2J 61/2J 7J (a)

(\*) In preparation;

(#) On the underlined rim of the list;

(a) Recommended rim flanges: J, JJ, JK.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																Speed symbol [km/h]	
		Cold inflation pressure - bar [kPa] (psi)																	
		1.40 [140] (20)	1.50 [150] (22)	1.60 [160] (23)	1.70 [170] (25)	1.80 [180] (26)	1.90 [190] (28)	2.00 [200] (29)	2.10 [210] (30)	2.20 [220] (32)	2.30 [230] (33)	2.40 [240] (35)	2.50 [250] (36)	2.60 [260] (38)	2.70 [270] (39)	2.80 [280] (41)	2.90 [290] (42)		3.00 [300] (44)
86	S									850	880	910	940	970	1000	1030	1060		T=190
88	S									900	930	965	995	1035	1060	1090	1120		T=190
91	S					945	990	1030	1070	1110	1150	1190	1230						T=190
88	S				850	890	930	970	1005	1045	1085	1120							T=190
91	S				935	975	1020	1065	1105	1145	1190	1230							T=190
95	S									1050	1090	1120	1160	1200	1240	1270	1310		T=190

# DIMENSIONAL TABLES FOR LIGHT TRUCK TYRES

## TUBELESS LOW SECTION 13"/14"/15"

Tyre size	Load index & speed symbol	PR	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
				New				Standard				
				Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
165/70 R 13 C	88/86 T	6	CITYNET	168	563	261	1712	172	572	1703	<u>4 1/2J</u> 4.50B 5J 5.00B (a)	190 196
175/65 R 14 C	90/88 T	6	CHRONO	175	581	268	1760	184	594	1770	5J 5 1/2J (a)	204
			WINTER CHRONO	175	585	269	1773					209
165/70 R 14 C	89/87 R	6	CITYNET	175	592	272	1778	177	598	1782	5J 4 1/2J (a)	196
			CHRONO (*)	175	590	271	1782					190
175/70 R 14 C	95/93 T	6	CHRONO	176	610	280	1854	184	612	1824	5J 4 1/2J 5 1/2J (a)	204
			WINTER CHRONO	176	612	280	1854					198
205/70 R 14 C	102/100 S	8	CHRONO	209	644	293	1951	217	652	1951	6J 5 1/2J 6 1/2J	240
							233					
							246					
185/75 R 14 C	102/100 R	8	CHRONO	185	637	290	1930	191	646	1921	5J 5 1/2J 6J (a)	212
			WINTER CHRONO	186	643	292	1948					652 M+S
195/75 R 14 C	106/104 R	8	CHRONO	203	651	296	1973	204	660	1963	<u>5 1/2J</u>	225
											5J	220
											6J (a)	231
205/75 R 14 C	109/107 S	8	CHRONO	209	666	302	2018	211	676	2012	<u>5 1/2J</u> 6J	233 239
205/65 R 15 C	102/100 T	6	CHRONO	207	643	295	1948	211	657	1960	<u>5 1/2J</u>	235
			CHRONO FOUR SEASONS	207	643	295	1948				6J 6 1/2J (a)	239 243
195/70 R 15 C	104/102 R	8	WINTER CHRONO	203	655	300	1985	204	665	1985	<u>5 1/2J</u>	225
	104/102 R (97 T)	8	CHRONO	203	655	300	1995				5J	220
		8	CHRONO FOUR SEASONS	203	655	300	1995				672 M+S	6J (a)
205/70 R 15 C	106/104 R	8	CHRONO	205	667	305	2035	211	681	2027	<u>5 1/2J</u>	235
			WINTER CHRONO	205	667	305	2021				6J 6 1/2J (a)	239 243
215/70 R 15 C	109/107 S	8	CHRONO	219	683	311	2069	225	695	2069	<u>6J</u>	248
			WINTER CHRONO	225	695	316	2106				5 1/2J 6 1/2J (a)	243 254
215/70 R 15 CP	109 R		CHRONO CAMPER	219	683	311	2069	225	695	2069	<u>6J</u> 5 1/2J 6 1/2J (a)	248 243 254
225/70 R 15 C	112/110 R	8	CHRONO	222	697	317	2112	232	709	2112	6J 6 1/2J 7J	256
			WINTER CHRONO	225	695	316	2106					716 M+S
	112/110 S	8	CHRONO FOUR SEASONS	222	697	317	2112					268
			CHRONO	222	697	317	2112					

(#) On the underlined rim of the list;

(a) Recommended rim flanges: J, JJ, JK.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																Speed symbol [km/h]		
		Cold inflation pressure - bar [kPa] (psi)																		
		2.00 [200] (29)	2.25 [225] (33)	2.50 [250] (36)	2.75 [275] (40)	3.00 [300] (44)	3.25 [325] (47)	3.50 [350] (51)	3.75 [375] (54)	4.00 [400] (58)	4.25 [425] (62)	4.50 [450] (65)	4.75 [475] (69)	5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)		6.00 [600] (87)	
88	S				875	935	1000	1060	<b>1120</b>											T=190
86	D				1660	1770	1890	2010	<b>2120</b>											T=190
90	S				935	1005	1070	1135	<b>1200</b>											T=190
88	D				1750	1880	2000	2120	<b>2240</b>											T=190
89	S				905	970	1035	1100	<b>1160</b>											R=170
87	D				1700	1820	1950	2070	<b>2180</b>											R=170
95	S				1075	1155	1230	1305	<b>1380</b>											S=180
93	D				2030	2180	2320	2460	<b>2600</b>											T=190
102	S			1230	1325	1420	1515	1610	<b>1700</b>											
100	D			2320	2490	2670	2850	3030	<b>3200</b>											
102	S							1330	1405	1480	1555	1630	<b>1700</b>							R=170
100	D							2500	2640	2790	2930	3070	<b>3200</b>							R=170
106	S							1490	1575	1655	1740	1820	<b>1900</b>							R=170
104	D							2820	2980	3140	3300	3450	<b>3600</b>							R=170
109	S							1615	1705	1795	1885	1975	<b>2060</b>							S=180
107	D							3060	3230	3400	3570	3740	<b>3900</b>							S=180
102	S				1325	1420	1515	1610	<b>1700</b>											T=190
100	D				2490	2670	2850	3030	<b>3200</b>											T=190
104	S					1300	1385	1470	1555	1640	1720	<b>1800</b>								R=170
102	D					2460	2620	2780	2940	3100	3250	<b>3400</b>								T=190
97	S					(1460)(+)														T=190
106	S						1465	1555	1640	1730	1815	<b>1900</b>								R=170
104	D						2780	2950	3110	3280	3440	<b>3600</b>								R=170
109	S						1590	1685	1780	1875	1970	<b>2060</b>								S=180
107	D						3010	3190	3370	3550	3730	<b>3900</b>								S=180
109	S							1590	1685	1780	1875	1970	<b>2060</b>							R=170
	(++)																			R=170
	(+++)																			R=170
112	S						1750	1830	1935	2040	2140	<b>2240</b>								R=170
110	D						3270	3460	3660	3860	4050	<b>4240</b>								R=170

(+) 2.9 bar;

(++) When fitting on rear wheel drive axle, pressure must be increased to 5.5 bar with no increase in load;

(+++) In case of dual fitment load capacity is equal to 1.85 the load capacity of single fitment.

# DIMENSIONAL TABLES FOR LIGHT TRUCK TYRES

## TUBELESS LOW SECTION 16"/17"

Tyre size	Load index & speed symbol	PR	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
				New				Standard				
				Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
195/60 R 16 C	99/97 T		CHRONO	196	637	296	1938	209	648	1939	<u>6J</u> 51/2J 61/2J	231 225 237
215/60 R 16 C	103/101 R	8	WINTER CHRONO	217	665	308	1998	204	664	2012	<u>61/2J</u> 6J	254 248
	103/101 T	8	CHRONO (*)	217	665	308	1998					
195/65 R 16 C	104/102 R	8	CHRONO	199	657	303	1991	204	670 677 M+S	2000	<u>51/2J</u> 5J	225 220
			WINTER CHRONO	199	658	303	1990					
205/65 R 16 C	107/105 T	8	CHRONO	203	668	309	2024	211	682	2036	<u>51/2J</u> 6J	233 240
			WINTER CHRONO	200	672	309	2035					
			CHRONO FOUR SEASONS	203	668	309	2024					
215/65 R 16 C	109/107 R (106T)	8	CHRONO	220	682	313	2066	230	698 705 M+S	2079	<u>61/2J</u> 6J	254 248
			WINTER CHRONO	218	682	313	2066					
			CHRONO FOUR SEASONS	220	682	313	2066					
225/65 R 16 C	112/110 R	8	CHRONO	226	698	320	2115	237	710 717 M+S	2115	<u>61/2J</u> 6J	262 256
			WINTER CHRONO	225	697	320	2115					
235/65 R 16 C	115/113 R	8	CHRONO	240	714	326	2163	250	724 731 M+S	2157	<u>7J</u> 61/2J	276 270
			WINTER CHRONO	242	712	325	2157					
			CHRONO FOUR SEASONS	240	714	326	2163					
175/75 R 16 C	101/99 R	8	CHRONO	182	669	308	2027	184	678	2024	<u>5J</u> 41/2J	204 198
							51/2J (a)					
185/75 R 16 C	104/102 R	8	CHRONO	182	684	314	2073	191	696	2073	<u>5J</u> 51/2J	212 217
							6J (a)					
195/75 R 16 C	107/105 R	8	CHRONO	198	700	320	2151	204	710 717 M+S	2115	<u>51/2J</u> 5J	225 220
			WINTER CHRONO	198	699	320	2120					
205/75 R 16 C	110/108 R	8	CHRONO	201	716	327	2169	211	726 734 M+S	2163	<u>51/2J</u> 6J	233 239
			WINTER CHRONO	201	715	327	2168					
215/75 R 16 C	113/111 R	8	CHRONO	216	724	330	2194	225	740	2206	<u>6J</u> 51/2J	248 243
			CHRONO FOUR SEASONS	216	724	330	2194					
			WINTER CHRONO	216	723	330	2192					
215/75 R 16 CP	113 R		CHRONO CAMPER	216	724	330	2194	225	740	2242	<u>6J</u> 51/2J 61/2J (a)	248 243 254
225/75 R 16 C	118/116 R	10	CHRONO	223	744	341	2265	232	758	2254	<u>6J</u> 61/2J	256 262
			WINTER CHRONO	223	743	341	2265					
225/75 R 16 CP	116 R		CHRONO CAMPER	223	744	341	2265	232	758	2254	<u>6J</u> 61/2J 7J (a)	256 262 268
235/60 R 17 C	117/115 R	10	CHRONO	235	715	329	2160	244	726	2163	<u>61/2J</u> 7J	270 276
							71/2J					

(\*) In preparation;

(#) On the underlined rim of the list;

(a) Recommended rim flanges: J, JJ, JK.



# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]		
		Cold inflation pressure [bar (PSI)]																			
		2.00 [200] (29)	2.25 [225] (33)	2.50 [250] (36)	2.75 [275] (40)	3.00 [300] (44)	3.25 [325] (47)	3.50 [350] (51)	3.75 [375] (54)	4.00 [400] (58)	4.25 [425] (62)	4.50 [450] (65)	4.75 [475] (69)	5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)			
99 97	S D			1120 2110	1210 2280	1300 2450	1380 2600	1470 2770	<b>1550</b> <b>2920</b>												T=190
103 101	S D			1265 2390	1365 2570	1465 2740	1560 3120	1655 1655	<b>1750</b> <b>3900</b>												R=170 T=190
104 102	S D							1410 2660	1490 2810	1570 2970	1645 3110	1725 3260	<b>1800</b> <b>3400</b>								R=170
107 105	S D							1525 2890	1615 3060	1700 3230	1785 3390	1965 3540	<b>1950</b> <b>3700</b>								T=190
109 107 106	S D S							1590 3010	1685 3190	1780 3370	1875 3550	1970 3730	<b>2060</b> <b>3900</b>								R=170 T=190
112 110	S D							1755 3320	1855 3510	1950 3690	2050 3880	2145 4060	<b>2240</b> <b>4240</b>								R=170
115 113	S D							1905 3610	2010 3800	2120 4010	2225 4210	2325 4400	<b>2430</b> <b>4600</b>								R=170
101 99	S D							1290 2420	1365 2560	1440 2710	1510 2840	1580 2970	<b>1650</b> <b>3100</b>								R=170
104 102	S D							1410 2660	1490 2810	1570 2970	1645 3110	1725 3260	<b>1800</b> <b>3400</b>								R=170
107 105	S D							1525 2890	1615 3060	1700 3230	1785 3390	1865 3540	<b>1950</b> <b>3700</b>								R=170
110 108	S D							1660 3130	1755 3310	1850 3490	1940 3660	2030 3830	<b>2120</b> <b>4000</b>								R=170
113 111	S D							1800 3410	1905 3610	2005 3800	2105 3990	2205 4180	<b>2300</b> <b>4360</b>								R=170
113	S (++) (+++)							1800	1905	2005	2105	2205	<b>2300</b>								R=170
118 116	S D									2125 4020	2230 4220	2335 4420	2435 4610	2540 4810	<b>2640</b> <b>5000</b>						R=170
118	S (++) (+++)							1960	2070	2180	2290	2390	<b>2500</b>								R=170
117 115	S D									1965 3710	2070 3910	2170 4100	2270 4300	2370 4490	2470 4670	<b>2570</b> <b>4860</b>					R=170

(++) When fitting on rear wheel drive axle, pressure must be increased to 5.5 bar with no increase in load;

(+++) In case of dual fitment load capacity is equal to 1.85 the load capacity of single fitment.

# DIMENSIONAL TABLES FOR LIGHT TRUCK TYRES

## TUBELESS STANDARD 12"/14"/15"

Tyre size	Load index & speed symbol	PR	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
				New				Standard				
				Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
155 R 12 C	83/81 N	6	CITYNET	156	552	255	1681	162	557	1667	<u>4 1/2 J</u> 4.50B 4.50C	181
											4J 4.00B 4.00C	177
											5J (a)	185
185 R 14 C	102/100 R	8	CHRONO	189	643	292	1948	194	659	1970	<u>5 1/2 J</u>	216
											5J	212
											6J (a) (b)	220
195 R 14 C	106/104 N	8	CITYNET WINTER	196	668	306	2017	204	682 M+S	2018	5 1/2 J	228
	106/104 R	8	CHRONO	197	666	302	2018				5J	224
185 R 15 C	103/102 R	8	CHRONO	195	668	305	2024	194	683	2042	<u>5 1/2 J</u>	216
											5J	212
											6J (a) (b)	220
195 R 15 C	106/104 R	8	CHRONO (*)	197	690	314	2091	206	699	2091	<u>5 1/2 J</u>	228
											5J	222
											6J (a) (b)	233

(#) On the underlined rim of the list;

(a) Recommended rim flanges: J, JJ, JK;

(b) Permitted rim flanges: K.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		2.00 [200] (29)	2.25 [225] (33)	2.50 [250] (36)	2.75 [275] (40)	3.00 [300] (44)	3.25 [325] (47)	3.50 [350] (51)	3.75 [375] (54)	4.00 [400] (58)	4.25 [425] (62)	4.50 [450] (65)	4.75 [475] (69)	5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	
83 81	S D		685 1300	745 1410	805 1530	860 1630	920 1750	975 1850											N=140
102 100	S D									1630 3060	1700 3200								R=170
106 104	S D						1450 2740	1540 2910	1630 3090	1720 3260	1810 3430	1900 3600							N=140 R=170
103 102	S D						1330 2590	1420 2750	1500 2910	1580 3080	1670 3240	1750 3400							R=170
106 104	S D						1450 2740	1540 2910	1630 3090	1720 3260	1810 3430	1900 3600							R=170

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBELESS LOW SECTION AND STANDARD 17.5"

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
			New				Standard				
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
245/70 R 17.5	136/134 M	FR85 Amaranto	241	798	368	2434	250	803	2406	<u>6,75</u>	270
		TR85 Amaranto*	241	801	369	2443		811 M+S		7,50	279
205/75 R 17.5	124/122 M	FR85 Amaranto	212	760	356	2318	213	765	2297	<u>6,00</u>	231
		MC45*	209	761	357	2321		773 M+S		5,25	222
		TR85 Amaranto*	212	763	358	2327		6,75		239	
215/75 R 17.5	126/124 M	FR85 Amaranto	216	777	364	2370	220	779	2339	<u>6,00</u>	239
		MC45*	216	779	364	2376		787 M+S		6,75	246
		TR85 Amaranto*	216	781	365	2382					
225/75 R 17.5	129/127 M	FR85 Amaranto	221	790	369	2410	228	797	2388	<u>6,00</u>	246
		TR85 Amaranto*	221	794	371	2422		805 M+S		6,75	254
235/75 R 17.5	132/130 M	FR85 Amaranto	236	806	376	2458	242	811	2431	<u>6,75</u>	262
		TR85 Amaranto*	236	810	378	2471		819 M+S		7,50	271
8.5 R 17.5	121/120 M	LS97 - LS97 Plus	209	803	375	2449	224	817	2446	<u>6,00</u>	242
	121/120 L	MS38 - MS38 Plus *	209	805	375	2455		825 M+S		5,25	233
									6,75	251	

(#) On the underlined rim of the list;

(\*) M+S.

## TUBELESS LOW SECTION 19.5"

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
			New				Standard				
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
245/70 R 19.5	136/134 M	FH55	244	846	392	2580	250	853	2559	<u>6,75</u>	270
		TH25*	244	849	394	2589		862 M+S		7,50	279
265/70 R 19.5	140/138 M	FH55 - FH55 Plus	261	867	401	2644	268	881	2644	<u>6,75</u>	286
		TH25 - TH25 Plus*	261	870	402	2654		890 M+S		7,50	295
									8,25	303	
285/70 R 19.5	145/143 M	FH55 - FH55 Plus	280	894	412	2727	285	911	2730	<u>7,50</u>	309
		TH25 - TH25 Plus*	280	900	415	2745		920 M+S		8,25	318
									9,00	327	
305/70 R 19.5	148/145 M	FH55	301	920	423	2806	309	941	2815	<u>8,25</u>	334
		TH25*	301	926	425	2824		950 M+S		9,00	343

(#) On the underlined rim of the list;

(\*) M+S.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		4.50 [450] (65)	4.75 [475] (69)	5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	
136	S									3610	3730	3830	3940	4050	4160	4270	4370	4480	M=130
134	D									6840	7050	7260	7470	7670	7880	8080	8280	8480	M=130
124	S							2590	2680	2770	2850	2940	3030	3110	3200				M=130
122	D							4850	5020	5190	5350	5510	5680	5840	6000				M=130
126	S				2700	2803	2900	3000	3100	3200	3300	3400							M=130
124	D				5080	5280	5470	5660	5840	6030	6220	6400							M=130
129	S					2970	3070	3180	3280	3390	3490	3600	3700						M=130
127	D					5610	5810	6020	6210	6410	6610	6810	7000						M=130
132	S							3260	3370	3470	3580	3690	3790	3900	4000				M=130
130	D							6190	6400	6600	6800	7010	7200	7400	7600				M=130
121	S			2350	2440	2540	2630	2720	2810	2900									M=130
120	D			4540	4720	4900	5080	5250	5430	5600									L=120

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		4.50 [450] (65)	4.75 [475] (69)	5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	
136	S									3590	3700	3820	3930	4040	4150	4260	4370	4480	M=130
134	D									6790	7010	7220	7440	7650	7860	8070	8270	8480	M=130
140	S							4070	4210	4340	4480	4610	4740	4870	5000				M=130
138	D							7690	7950	8200	8450	8700	8950	9200	9440				M=130
145	S									4680	4820	4970	5110	5250	5390	5520	5660	5800	M=130
143	D									8790	9060	9330	9600	9860	10120	10380	10640	10900	M=130
148	S									5080	5240	5390	5550	5700	5850	6000	6150	6300	M=130
145	D									9360	9650	9930	10210	10495	10770	11050	11330	11600	M=130

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBELESS LOW SECTION 22.5"

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]			
			New				Standard							
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design					
385/55 R 22.5	158 L (160 K)	Amaranto FH88 Energy	379	1000	466	3030	396	1012	3018	11,75	--			
		FH85 Amaranto ↘	379	1000	466	3030								
		FW25*	379	1002	467	3036								
295/60 R 22.5	150/147 L	Amaranto FH88 Energy	293	919	432	2785	304	940	2806	9,00	329			
		Amaranto TH88 Ener. *	293	930	436	2818						949 M+S	9,75	338
315/60 R 22.5	152/148 L	Amaranto FH88 Energy	313	954	446	2891	318	966	2879	9,00	344			
		Amaranto TH88 Ener. *	313	962	450	2915						976 M+S	9,75	352
385/65 R 22.5	158 L (160 K)	Amaranto FH88 Energy	375	1075	497	3257	405	1092	3248	11,75	--			
		FH55 ↘	375	1075	497	3257								
		FW25*	375	1075	497	3257								
	160 K (158 L)	AP05/AP05 (+)	375	1077	498	3263								
255/70 R 22.5	140/137 M (141/140 L)	FH15	250	933	435	2846	257	944	2836	6,75	278			
		TH25*	250	938	437	2861						953 M+S	7,50	287
													8,25	295
275/70 R 22.5	148/145 M (150/147 L)	Amaranto FH88	274	960	446	2928	280	974	2922	7,50	303			
		FH55 ↘	275	967	449	2949								
		Amaranto TH88*	274	967	449	2949								
		TH65* ↘	275	974	452	2971								
	148/145 J (152/148 E)	MC85 Amaranto	277	968	449	2952				984 M+S	8,25	311		
		CT40 City Diam.	272	971	451	2962								
		MC88 Amaranto*	277	970	450	2959								
		MC85 M+S Amaranto	277	970	450	2959								
305/70 R 22.5	150/148 J (154/150 E)	CT40 City M+S Diam.	272	973	451	2968	309	1018	3050	8,25	334			
			300	1006	465	3068						1028 M+S	9,00	343
315/70 R 22.5	152/150 L (150/148 M)	Amaranto FH88 Energy	303	1010	467	3081	318	1032	3093	9,00	351			
		Amaranto TH88 Ener. *	303	1022	472	3117								
	154/150 L (152/148 M)	FR:01	315	1014	468	3093				1042 M+S	3099	9,75	360	
		Amaranto TH88 Ener. *	315	1028	474	3135								
154/150 K (152/148 L)	TR:01*	315	1028	474	3135									
	FW25*	315	1020	471	3111									
295/80 R 22.5	152/148 M	TW25*	315	1032	476	3148	302	1062	3184	8,25	326			
		Amaranto FH88 Energy	296	1057	492	3224								
		FH65 Diam. - FH65 Energy	296	1057	492	3224								
		FH55	296	1057	492	3224								
		FR:01	295	1059	493	3230								
		FR28 Energy	296	1059	493	3230								
		FR25 - FR25 Plus	296	1058	493	3227								
		Amaranto TH88 Ener. *	296	1064	495	3245								
		TH65*	296	1065	496	3248								
		TR:01*	295	1070	498	3264								
		TR26*	296	1068	497	3257								
	152/148 L	FW25*	296	1062	494	3239				1073 M+S	9,00	335		
		TW25*	296	1068	497	3257								
	153/150 J (^)	FH65 Energy	301	1057	492	3224								

(#) On the underlined rim of the list;

(^) Standard JATMA;

(\*) M+S;

(↘) Phase out.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]	
		Cold inflation pressure - bar [kPa] (psi)																		
		5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	8.75 [875] (127)	9.00 [900] (131)		
158 (160)	S S							6860	7070	7280	7480	7690	7890	8100	8300	8500			(9000)	L=120 K=110
150 147	S D								5320 9770	5480 10060	5640 10350	5790 10630	5940 10910	6100 11190	6250 11470	6400 11750	6550 12030	6700 12300	L=120	
152 148	S D								5640 10010	5810 10300	5970 10600	6140 10890	6300 11180	6460 11470	6620 11750	6780 12040	6940 12320	7100 12600	L=120	
158 (160)	S S							6860	7070	7280	7480	7690	7890	8100	8300	8500			(9000)	L=120 K=110
160 (158)	S S								7150	7360	7570	7780	7980	8190	8390	8600 (8500)	8800	9000		
140 137	S D					3970 7310	4100 7550	4230 7790	4360 8030	4490 8270	4620 8500	4750 8740	4870 8970	5000 9200					M=130 L=120	
(141) (140)	S D															(5150) (10000)				
148 145	S D								5000 9210	5150 9490	5300 9760	5440 10030	5590 10290	5730 10560	5880 10820	6020 11080	6160 11340	6300 11600	M=130 L=120	
(150) (147)	S D																(6700) (12300)	E= 70		
(152) (148)	S D																(7100) (12600)			
150 148	S D							5410 10170	5570 10480	5740 10790	5900 11090	6060 11400	6220 11700	6380 12000	6540 12300	6700 12600			M=130 L=120	
(154) (150)	S D																(7500) (13400)	J=100 E= 70		
152 150	S D								5640 10650	5810 10960	5970 11270	6140 11580	6300 11890	6460 12200	6620 12500	6780 12800	6940 13100	7100 13400		
(150) (148)	S D															(6700) (12600)				
154 150	S D								5960 10640	6130 10960	6310 11270	6480 11580	6650 11890	6830 12190	7000 12500	7160 12800	7330 13100	7500 13400	M=130 L=120	
(152) (148)	S D															(7100) (12600)			K=110	
152 148	S D							5730 10170	5900 10480	6080 10790	6250 11090	6420 11400	6590 11700	6760 12000	6930 12300	7100 12600			M=130 L=120	
(154) (150)	S D																(7500) (13400)	J=100 E= 70		
153 150	S D					5760 11580	5900 10820	6030 11080	6170 11320	6300 11560	6430 11800	6560 12040	6690 12280	6810 12500	6940 12740	7100 13000	7180 13180	7300 13400		



# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBELESS LOW SECTION 22.5"

Tyre size	Load index & speed symbol	Tread pattern	Dimensions							Rims	Minimum dual spacing [mm]
			New				Standard				
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
315/80 R 22.5	154/150 M (156/150 L)	FH55	313	1080	502	3294	318	1096 1106 M+S	3282	9,00 9,75	351 360
		FH15 <sup>^</sup>	312	1080	501	3288					
		TH65 <sup>*</sup>	313	1091	507	3328					
		TH25 <sup>*^</sup>	312	1087	505	3315					
	156/150 L (154/150 M)	Amaranto FH88 Energy	316	1080	502	3294					
		FR:01	316	1082	503	3300					
		FR28 Energy	313	1082	503	3330					
		FR25 Plus	313	1082	503	3330					
		Amaranto TH88 Ener. <sup>*</sup>	316	1090	506	3325					
		TR:01 <sup>*</sup>	316	1094	508	3337					
		TR28 Energy <sup>*</sup>	313	1094	508	3337					
		TR25 Plus <sup>*</sup>	310	1091	507	3328					
	156/150 K (154/150 L)	FW25 <sup>*</sup>	313	1086	504	3312					
		TW25 <sup>*</sup>	313	1094	508	3337					
	156/150 K	FG88 <sup>*</sup>	310	1087	505	3315					
		FG85	310	1087	505	3315					
		AP05 Plus	312	1078	501	3288					
		TG88 <sup>*</sup>	310	1089	506	3321					
		TG85 <sup>*</sup>	310	1089	506	3321					
		AT75 Plus <sup>*</sup>	312	1082	503	3300					

(#) On the underlined rim of the list;

(^) Standard JATMA;

(\*) M+S;

(<sup>^</sup>) Phase out.



# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	8.75 [875] (127)	9.00 [900] (131)	
154	S						6000	6200	6390	6580	6760	6950	7130	7320	<b>7500</b>				M=130 L=120 K=110
150	D						10730	11070	11410	11750	12080	12420	12750	13070	<b>13400</b>				
(156)	S																	(8000)	
(150)	D																	(13400)	
156	S							6450	6650	6850	7040	7240	7430	7620	7810	<b>8000</b>			
150	D							10810	11140	11470	11800	12120	12440	12770	13080	<b>13400</b>			
(154)	S																	(7500)	
(150)	D																	(13400)	

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBELESS STANDARD 22.5"

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
			New				Standard				
			Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
10 R 22.5	144/142 M	LS97	242	1016	475	3099	256	1038	3111	<u>6,75</u>	277
		TH25*	242	1022	477	3117				7,50	286
11 R 22.5	148/145 M	FH15	267	1052	490	3209	282	1070	3202	<u>7,50</u>	305
		TH25 D Plus*	267	1058	493	3227				8,25	314
	148/145 L	FR85 Vanguard	273	1059	493	3230					
		FR28 Energy	273	1051	490	3206					
		FR25	273	1051	490	3206					
		TR85*	273	1070	498	3264					
	148/145 K	TR26*	275	1064	495	3245					
		FG85	267	1056	492	3221					
	148/145 J	TG85*	273	1069	497	3260					
		MC85*	278	1066	496	3251					
148/145 G	TQ99*	273	1071	498	3267						
	152/148 M	FR33	288	1082	503	3300	304	1104	3306	<u>8,25</u>	329
FR28 Energy		288	1085	504	3309	9,00				338	
FR25 - FR25 Plus		288	1085	504	3309						
FH15 Plus		288	1083	503	3303						
LS97 Plus		288	1085	504	3309						
TR28 Energy*		288	1097	509	3346						
TR25 - TR25 Plus*		288	1097	509	3346						
152/148 L	FR:01	288	1086	504	3312						
	FG85	288	1091	507	3328						
	AP05 Plus	288	1087	505	3315						
	TR:01*	288	1096	509	3343						
	TG85*	288	1095	508	3340						
	AT75 Plus	288	1090	506	3325						
152/148 F	TQ99*	297	1105	512	3370						
13 R 22.5	154/150 M	LS97 Plus	308	1122	520	3422	318	1146	3428	<u>9,00</u>	351
	(156/150 L)	TH25 Plus*	308	1127	522	3437				9,75	360
	156/150 K (154/150 L)	FG88*	308	1127	522	3437					
		AP05 Plus	308	1124	521	3428					
		TG88*	308	1131	524	3450					
		AT75 Plus*	308	1127	522	3437					
	156/150 F (154/150 G)	TQ99 Diam.*	308	1135	525	3462					
AT99 Roccia		308	1136	526	3465						

(#) On the underlined rim of the list;

(\*) M+S.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		5.00 [500] (73)	5.25 [525] (76)	5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	8.75 [875] (127)	9.00 [900] (131)	
144	S							4520	4660	4790	4930	5070	5200	5330	5470	5600			M=130
142	D							8550	8810	9070	9330	9590	9840	10100	10350	10600			
148	S							5080	5240	5390	5550	5700	5850	6000	6150	6300			M=130 L=120 K=110 J=100 G=90
145	D							9360	9650	9930	10210	10490	10770	11050	11330	11600			
152	S							5730	5900	6080	6250	6420	6590	6760	6930	7100			M=130 L=120 F=80
148	D							10170	10480	10790	11090	11400	11700	12000	12300	12600			
154	S							6050	6240	6420	6600	6780	6970	7140	7320	7500			M=130 L=120 K=110 G=90 F=80
150	D							10810	11140	11470	11800	12120	12440	12770	13080	13400			
(156)	S																(8000)		
(150)	D															(13400)			
156	S							6350	6540	6730	6910	7100	7280	7460	7640	7820	8000		
150	D							10640	10960	11270	11580	11890	12190	12500	12800	13100	13400		
(154)	S														(7500)				
(150)	D																(13400)		

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBELESS TRAILER TYRES

Tyre size	Load index & speed symbol	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]
			New				Standard				
			Width (#)	Outer diameter	Static radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design		
205/65 R 17.5 FRT	129/127 J (130/130 F)	ST55	207	709	328	2148	213	721	2169	<u>6,00</u>	231
										6,75	239
245/70 R 17.5 FRT	143/141 J (144/144 F)	ST55	238	800	364	2440	250	803	2406	<u>6,75</u>	270
										7,50	279
215/75 R 17.5 FRT	135/133 J	ST55	218	775	354	2364	220	779	2339	<u>6,00</u>	239
										6,75	246
235/75 R 17.5 FRT	143/141 J (144/144 F)	ST55	238	800	364	2440	242	811	2431	<u>6,75</u>	262
										7,50	271
445/45 R 19.5 FRT	160 J	ST:01 ↗					453	911	2730	<u>14,00</u>	491
										15,00	502
435/50 R 19.5 FRT	160 J	ST:01	451	937	424	2839	456	949	2840	<u>14,00</u>	493
										15,00	504
245/70 R 19.5 FRT	141/140 J	ST55	240	850	390	2593	250	853	2559	<u>6,75</u>	270
										7,50	279
265/70 R 19.5 FRT	143/141 J	ST55	268	868	397	2647	272	881	2644	<u>7,50</u>	295
										8,25	303
285/70 R 19.5 FRT	150/148 J	ST55	287	895	408	2730	294	911	2730	<u>8,25</u>	318
										9,00	327
365/80 R 20 (REPLACES 14/80 R 20)	160 K	ST35	356	1105	508	3370	379	1116	3331	<u>10,00V</u>	--
385/55 R 22.5 FRT	160 K	ST:01	379	1003	458	3038	396	1012	3018	<u>11,75</u>	--
		ST35 ↘	380	1001	458	3033				12,25	--
385/65 R 22.5	160 K (158 L)	ST:01 ○	379	1074	497	3255	405	1092	3248	<u>11,75</u>	--
		ST35 Diam - ST35 Diam (+)	375	1075	497	3257				12,25	--
		AP05 - AP05 (+)	375	1077	498	3263					--
11 R 22.5	148/145 L	ST95	267	1052	490	3209	282	1070	3202	<u>7,50</u>	305
										8,25	314

(#) On the underlined rim of the list;

(↘) Phase out;

(↗) In preparation;

(○) FRT.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]
		Cold inflation pressure - bar [kPa] (psi)																	
		5.50 [550] (80)	5.75 [575] (83)	6.00 [600] (87)	6.25 [625] (91)	6.50 [650] (94)	6.75 [675] (98)	7.00 [700] (102)	7.25 [725] (105)	7.50 [750] (109)	7.75 [775] (112)	8.00 [800] (116)	8.25 [825] (120)	8.50 [850] (123)	8.75 [875] (127)	9.00 [900] (131)	9,25 [925] (134)	9,50 [950] (138)	
129	S						2940	3030	3110	3200	3280	3370	3450	3530	3620	3700			J=100 F = 80
127	D						5560	5730	5890	6050	6210	6370	6530	6690	6840	7000			
(130)	S																	(3800)	J=100 F = 80
(130)	D																	(7600)	
143	S						4330	4460	4580	4710	4840	4960	5080	5210	5330	5450			J=100 F = 80
141	D						8180	8420	8660	8900	9140	9370	9610	9840	10070	10300			
(144)	S																	(5600)	J=100 F = 80
(144)	D																	(11200)	
135	S					3520	3630	3730	3840	3940	4050	4150	4260	4360					J=100
133	D					6650	6850	7050	7250	7450	7650	7850	8050	8240					
143	S						4330	4460	4580	4710	4840	4960	5080	5210	5330	5450			J=100 F = 80
141	D						8180	8420	8660	8900	9140	9370	9610	9840	10070	10300			
(144)	S																	(5600)	J=100 F = 80
(144)	D																	(11200)	
160	S						7150	7360	7570	7780	7980	8190	8390	8600	8800	9000			J=100
160	S						7150	7360	7570	7780	7980	8190	8390	8600	8800	9000			
141	S						4090	4210	4330	4450	4570	4690	4800	4920	5030	5150			J=100
140	D						7940	8180	8410	8640	8870	9100	9330	9550	9780	10000			
143	S					4270	4420	4570	4710	4930	5060	5190	5320	5450					J=100
141	D					8070	8350	8630	8910	9320	9570	9810	10060	10300					
150	S					5460	5320	5480	5640	5790	5940	6100	6250	6400	6550	6700			J=100
148	D					9710	10000	10300	10600	10890	11180	11470	11750	12040	12320	12600			
160	S						7150	7360	7570	7780	7980	8190	8390	8600	8800	9000			K=110
160	S						7150	7360	7570	7780	7980	8190	8390	8600	8800	9000			
160	S						7150	7360	7570	7780	7980	8190	8390	8600	8800	9000			L=120 K=110
(158)	S													8600	8800	9000			
														(8500)					
148	S					5080	5240	5390	5550	5700	5850	6000	6150	6300					L=120
145	D					9360	9650	9930	10210	10490	10770	11050	11330	11600					

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## TUBE TYPE 20"/22"/24"

Tyre size	Load index & speed symbol	PR	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]	Tube	Flap										
				New				Standard																
				Width (#)	Outer diameter	Statical radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design														
9.00 R 20	140/137 L	14	FR36 +	254	1017	470	3102	268	1038	3105	7.0 B7.0 6.0 6.00T 6.5 B6.5 7.33V 7.5 B7.5	297 285 291 300 302	20" Z 500	20 HT										
			FR25	259	1025	479	3126																	
	FG88		254	1022	472	3117																		
10.00 R 20	146/143 L	16	FR36 Energy	271	1047	483	3193	286	1074	3209	7.5 B7.5 6.5 B6.5 7.0 B7.0 7.33V 8.0 B8.0 8.0V	316 305 311 314 322	20" Z 570	20 HT										
			FR36 +	273	1048	484	3196																	
			LS97 Plus	275	1053	486	3212																	
			TR36 Ener. *	271	1055	486	3218																	
			TR36 + *	273	1053	486	3212																	
			TH25 Plus *	276	1056	487	3221																	
	146/143 K		FG88	273	1053	486	3212																	
			TG88*	273	1054	486	3215																	
			TQ99*	273	1057	487	3224																	
11.00 R 20	150/146 L	16	FR36 Energy	286	1085	499	3309	297	1104	3300	8.0 B8.0 8.0V 7.33V 7.5 B7.5 8.5 B8.5 8.50V 9.00V	329 321 323 335 340	20" Z 595	20 ST										
			FR36 +	286	1085	499	3309																	
			FR11	284	1085	499	3309																	
			LS97 Plus	284	1085	499	3309																	
			TR36 Ener. *	286	1093	503	3334																	
			TR36 + *	286	1093	503	3334																	
			TH25 Plus *	284	1089	501	3321																	
	150/146 K		FG88	286	1088	501	3318																	
			AP05 Plus	285	1087	500	3315																	
			TG88*	286	1091	502	3328																	
	150/146 G		AT75 Plus	285	1090	501	3325																	
			TQ99*	286	1093	503	3334																	
			12.00 R 20	154/150 L	18	FR36 Energy	308								1119	514	3413	319	1146	3422	8.5 B8.5 8.50V 7.33V 7.5 8.0 B8.0 8.0V 9.0 9.00V	360 346 348 354 366	20" Z 640	20 ST
						FR36 +	308								1119	514	3413							
						FR11	306								1120	514	3416							
LS97 Plus	308	1122				515	3422																	
TR36 Ener. *	308	1125				516	3431																	
TR36 + *	306	1125				516	3431																	
TH25 Plus *	308	1127				517	3437																	
154/150 K (156/150 G)	FG88	308	1125	516		3431																		
	FG85 (1)	308	1125	516		3431																		
	FG85 Deep	307	1136	521		3465																		
	AP05 Plus	308	1124	516		3428																		
	TG88*	308	1128	518		3440																		
	TG85 (1) *	308	1142	518		3440																		
	TG85 Deep *	307	1142	523		3483																		
AT75 Plus *	308	1126	515	3440																				
154/150 G (156/150 F)	TQ99*	308	1131	519	3450																			
	AT99 Roccia	308	1137	521	3468																			
325/95 R 24	162/160 K	FG88 Diam TL *	312	1229	560	3748	326	1252	3745	8.5	368	Tubeless (*)												
		TG88 Diam TL *	312	1232	562	3758																		
12.00 R 24	160/156 K	20	FR11 - FR11 Diam	300	1220	564	3721	319	1250	3739	8.5 8.50V B8.5 9.0 9.00V	360 366	24" Z 640	24 ST										
			LS97 - LS97 Diam	300	1219	564	3718																	
			FG85 - FG85 Diam	300	1226	567	3739																	
			AP05 - AP05 Diam	300	1224	566	3733																	
			TG85 - TG85 Diam *	300	1228	568	3745																	
			AT75 - AT75 Diam	300	1226	567	3739																	

(#) On the underlined rim of the list;

(\*) M+S;

(1) also in Tubeless version;

(°) Also for fitment with tube.

# LOAD/PRESSURE TABLES

Load index	Single - dual fitment	Load capacity per axle (kg)																	Speed symbol [km/h]	
		Cold inflation pressure - bar [kPa] (psi)																		
		5,00 [500] (73)	5,25 [525] (76)	5,50 [550] (80)	5,75 [575] (83)	6,00 [600] (87)	6,25 [625] (91)	6,50 [650] (94)	6,75 [675] (98)	7,00 [700] (102)	7,25 [725] (105)	7,50 [750] (109)	7,75 [775] (112)	8,00 [800] (116)	8,25 [825] (120)	8,50 [850] (123)	8,75 [875] (127)	9,00 [900] (131)		
140 137	S D		3970 7300	4100 7550	4230 7790	4360 8030	4490 8270	4620 8500	4750 8740	4870 8970	<b>5000</b> <b>9200</b>								L=120 K=110	
146 143	S D					4770 8660	4920 8950	5080 9230	5240 9510	5390 9800	5550 10070	5700 10350	5850 10630	<b>6000</b> <b>10900</b>					L=120 K=110 G=90	
150 146	S D						5370 9610	5540 9920	5710 10220	5870 10520	6040 10820	6210 11120	6370 11410	6540 11710	<b>6700</b> <b>12000</b>				L=120 K=110 G=90	
154 150 (156) (150)	S D S D							6050 10810	6240 11140	6420 11470	6600 11800	6780 12120	6970 12450	7140 12770	7320 13080	<b>7500</b> <b>13400</b>		(13400)	(8000)	L=120 K=110 G= 90 F= 80
162 160	S D								7550 14300	7770 14720	7990 15140	8210 15560	8430 15970	8650 16380	8860 16790	9080 17200	9290 17600	<b>9500</b> <b>18000</b>	K=110	
160 156	S D								7150 12710	7360 13090	7570 13460	7780 13830	7990 14200	8190 14560	8390 14920	8600 15280	8800 15640	<b>9000</b> <b>16000</b>	K=110	

# DIMENSIONAL TABLES FOR MEDIUM/HEAVY TRUCK TYRES

## MULTI-PURPOSE & OFF-ROAD 20"

Tyre size	Load index & speed symbol	PR	Tread pattern	Tyre Dimensions [mm]							Rims	Minimum dual spacing [mm]	Tube	Flap								
				New				Standard														
				Width (#)	Outer diameter	Static radius	Rolling circ. (±1%)	Max. width (#)	Max. outer diameter	Rolling circumf. design												
335/80 R 20 MPT (REPLACES 12.5 R 20)	147 K		PS22 Pista	333	1035	478	3105	354	1076	3132	11 11SDC	--	Tubeless (°) (20"Z 596)	(ZD 20)								
												9 9SDC			--							
												12 12SDC			--							
	149 K		PS22 Pista	333	1035	478	3105															
365/80 R 20 MPT (REPLACES 14.5 R 20)	149 K		PS22 Pista	365	1092	502	3276	374	1128	3276	11 11SDC	--	Tubeless (°) (20"Z 750)	(ZD 20)								
												12 12SDC			--							
	152 K		PS22 Pista	365	1092	502	3276															
14.00 R 20 ML	164/160 G	22	PS22 Pista	389 (§)	1245	567	3797	377	1282	3776	10.0	425	Tubeless (°) (20"Z 810)	(U20-9.0)								
												10.00V 10.00W			425							
												9.0			414							

(#) On the underlined rim of the list;

(§) ECE54 standard;

(°) Also for fitment with tube.



# LOAD/PRESSURE TABLES

Load index	Load capacity per axle [kg]		Cold inflation pressure											
			Tarmac MAX. 110 km/h			ON-OFF MAX. 65 km/h			TRACK MAX. 25 km/h			SAND MAX. 15 km/h		
	Fitment		(bar)	(kPa)	(PSI)	(bar)	(kPa)	(PSI)	(bar)	(kPa)	(PSI)	(bar)	(kPa)	(PSI)
	Single	Dual												
147	6150	-	6,50	650	94	5,60	560	81	4,45	445	65	4,10	410	59
	5960	-	6,25	625	91	5,35	535	78	4,25	425	62	3,90	390	57
	5770	-	6,00	600	87	5,15	515	75	4,05	405	59	3,75	375	54
	5570	-	5,75	575	83	4,90	490	71	3,90	390	57	3,55	355	51
	5380	-	5,50	550	80	4,70	470	68	3,70	370	54	3,40	340	49
	5180	-	5,25	525	76	4,45	445	65	3,50	350	51	3,20	320	46
	4990	-	5,00	500	73	4,25	425	62	3,30	330	48	3,05	305	44
	4780	-	4,75	475	69	4,05	405	59	3,15	315	46	2,85	285	41
149	6500	-	6,50	650	94	5,60	560	81	4,45	445	65	4,10	410	59
	6300	-	6,25	625	91	5,35	535	78	4,25	425	62	3,90	390	57
	6100	-	6,00	600	87	5,15	515	75	4,05	405	59	3,75	375	54
	5890	-	5,75	575	83	4,90	490	71	3,90	390	57	3,55	355	51
	5690	-	5,50	550	80	4,70	470	68	3,70	370	54	3,40	340	49
	5480	-	5,25	525	76	4,45	445	65	3,50	350	51	3,20	320	46
	5270	-	5,00	500	73	4,25	425	62	3,30	330	48	3,05	305	44
	5060	-	4,75	475	69	4,05	405	59	3,15	315	46	2,85	285	41
149	6500	-	5,75	575	83	4,90	490	71	3,90	390	57	3,55	355	51
	6270	-	5,50	550	80	4,70	470	68	3,70	370	54	3,40	340	49
	6040	-	5,25	525	76	4,45	445	65	3,50	350	51	3,20	320	46
	5810	-	5,00	500	73	4,25	425	62	3,30	330	48	3,05	305	44
	5580	-	4,75	475	69	4,05	405	59	3,15	315	46	2,85	285	41
	5340	-	4,50	450	65	3,80	380	55	2,95	295	43	2,70	270	39
	5100	-	4,25	425	62	3,60	360	52	2,75	275	40	2,50	250	36
	152	7100	-	6,25	625	91	5,40	540	78	4,25	425	62	3,90	390
6850		-	6,00	600	87	5,15	515	75	4,05	405	59	3,75	375	54
6590		-	5,75	575	83	4,90	490	71	3,90	390	57	3,60	360	52
6340		-	5,50	550	80	4,70	470	68	3,70	370	54	3,40	340	49
6090		-	5,25	525	76	4,50	450	65	3,50	350	51	3,25	325	47
5830		-	5,00	500	73	4,25	425	62	3,30	330	48	3,05	305	44
5580		-	4,75	475	69	4,05	405	59	3,15	315	46	2,90	290	42
5330		-	4,50	450	65	3,80	380	55	2,95	295	43	2,70	270	39
164/160	10000	18000	7,50 (*)	750	109	6,45	645	94	5,15	515	75	4,80	480	70
	9730	17520	7,25 (*)	725	105	6,25	625	91	5,00	500	73	4,60	460	67
	9460	17030	7,00 (*)	700	102	6,00	600	87	4,80	480	70	4,45	445	65
	9190	16540	6,75 (*)	675	98	5,80	580	84	4,60	460	67	4,25	425	62
	8920	16050	6,50 (*)	650	94	5,60	560	81	4,45	445	65	4,10	410	59
	8640	15560	6,25 (*)	625	91	5,35	535	78	4,25	425	62	3,90	390	57
	8360	15060	6,00 (*)	600	87	5,15	515	75	4,05	405	59	3,75	375	54
	8080	14550	5,75 (*)	575	83	4,90	490	71	3,90	390	57	3,55	355	51
	7800	14040	5,50 (*)	550	80	4,70	470	68	3,70	370	54	3,40	340	49

(\*) Max 90 km/h

# LOAD LIMITS AT VARIOUS SPEEDS

Please contact your Pirelli engineer for advice on the correct use of the following tables.

## LIGHT TRUCK TYRES WITH LOAD INDEX ≤ 121 AS A SINGLE FITMENT

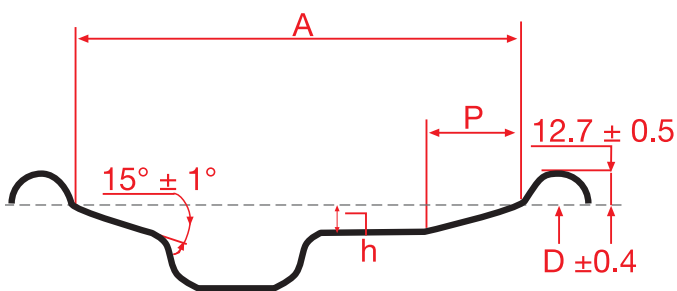
Maximum vehicle speed [km/h]	SPEED SYMBOLS									Pressure Coefficient
	L=120	M=130	N=140	P=150	Q=160	R=170	S=180	T=190	H=210	
	LOAD COEFFICIENTS									
210									1,00	1,13
200									1,00	1,11
190									1,00	1,08
180									1,00	1,05
170						1,00	1,00	1,00	1,00	1,03
160					1,00	1,00	1,00	1,00	1,00	1,00
150				1,00	1,00	1,00	1,00	1,00	1,00	1,00
140			1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
130		1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
120	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00	1,00
115	1,0125	1,0125	1,0125	1,0125	1,0125	1,0125	1,0125	1,0125	1,0125	1,01
110	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,025	1,02
105	1,0375	1,0375	1,0375	1,0375	1,0375	1,0375	1,0375	1,0375	1,0375	1,04
100	1,05	1,05	1,05	1,05	1,05	1,05	1,05	1,05	1,05	1,06
95	1,065	1,065	1,065	1,065	1,065	1,065	1,065	1,065	1,065	1,08
90	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,075	1,09
85	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,085	1,10
80	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,1	1,12
75	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,11	1,14
70	1,125	1,125	1,125	1,125	1,125	1,125	1,125	1,125	1,125	1,15
65	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,135	1,15
60	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,15	1,18
55	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,175	1,22
50	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,25
45	1,22	1,22	1,22	1,22	1,22	1,22	1,22	1,22	1,22	1,28
40 (a) (b)	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,25	1,30
35	1,29	1,29	1,29	1,29	1,29	1,29	1,29	1,29	1,29	1,30
30	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,35	1,30
25	1,42	1,42	1,42	1,42	1,42	1,42	1,42	1,42	1,42	1,30
20	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,5	1,30
15	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,6	1,30
10	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,35
5	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,35
STATIC	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	2,1	1,40

## TRUCK TYRES WITH LOAD INDEX ≥ 122 AS A SINGLE FITMENT

Maximum vehicle speed [km/h]	SPEED SYMBOLS						Pressure Coefficient
	F=80	G=90	J=100	K=110	L=120	M=130	
	LOAD COEFFICIENTS						
130						1,00	1,00
125						1,00	1,00
120					1,00	1,00	1,00
115					1,00	1,00	1,00
110				1,00	1,00	1,00	1,00
105				1,00	1,00	1,00	1,00
100			1,00	1,00	1,00	1,00	1,00
95			1,01	1,01	1,01	1,01	1,00
90		1,00	1,02	1,02	1,02	1,02	1,00
85		1,02	1,03	1,03	1,03	1,03	1,00
80	1,00	1,04	1,04	1,04	1,04	1,04	1,00
75	1,025	1,055	1,055	1,055	1,055	1,055	1,01
70	1,05	1,07	1,07	1,07	1,07	1,07	1,02
65	1,075	1,085	1,085	1,085	1,085	1,085	1,04
60	1,10	1,10	1,10	1,10	1,10	1,10	1,06
55	1,11	1,11	1,11	1,11	1,11	1,11	1,07
50	1,12	1,12	1,12	1,12	1,12	1,12	1,08
45	1,13	1,13	1,13	1,13	1,13	1,13	1,09
40 (a) (b)	1,15	1,15	1,15	1,15	1,15	1,15	1,10
35	1,19	1,19	1,19	1,19	1,19	1,19	1,11
30	1,25	1,25	1,25	1,25	1,25	1,25	1,13
25	1,35	1,35	1,35	1,35	1,35	1,35	1,17
20	1,50	1,50	1,50	1,50	1,50	1,50	1,21
15	1,65	1,65	1,65	1,65	1,65	1,65	1,25
10	1,80	1,80	1,80	1,80	1,80	1,80	1,30
5	2,10	2,10	2,10	2,10	2,10	2,10	1,40
STATIC	2,50	2,50	2,50	2,50	2,50	2,50	1,40

(a) The load carrying capacity of tyres in dual fitment is twice the load carrying capacity in single up to 40 km/h;  
 (b) Bonus loads will not be permitted for speeds above 40 km/h if the wheel axles are rigidly fixed to the body of the vehicle.

## DROP-CENTRE RIMS WITH 15° TAPERED BEAD SEATS

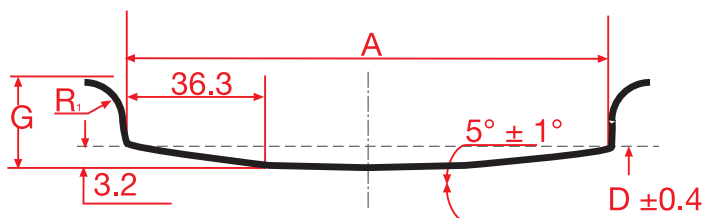


DIMENSIONS (mm)	
Rim	A±2.5
5.25	133.5
6.00	152.5
6.75	171.5
7.50	190.5
8.25	209.5
9.00	228.5
9.75	247.5
Rim	A±5
10.50	266.5
11.75	298.5
12.25	311
13.00	330
14.00	355.5

DIAMETERS				
Nominal diameter (Code)	17.5	19.5	22.5	24.5
Diameter D (mm)	444.5	495.3	571.5	622.3

## MULTI-PIECE RIMS rims with 5° tapered bead seats

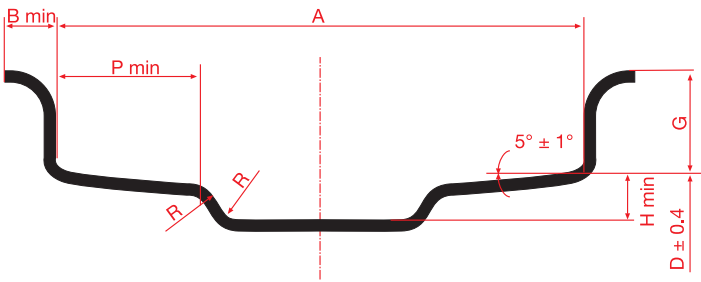
Rims with detachable lateral rings are equipped with flange and bead seat removable on one side of the rim.



DIAMETERS				
Nominal diameter (Code)	15	20	22	24
Diameter D (mm)	387.4	514.4	565.2	616.0

DIMENSIONS (mm)		BASIC		OPTIONAL	
Rim	Sizes	G ±1.5	R1 ±2.5	G ±1.5	R1 ±2.5
5.0	127.0 ± 3.5	28.0	14.0		
5.5	139.5 ± 3.5	30.5	15.0	33.0	16.5
6.0	152.5 ± 3.5	33.0	16.5		
6.5	165.0 ± 3.5	35.5	18.0	37.0	17.5
7.0	178.0 ± 3.5	38.0	19.0	37.0	17.5
8.0	203.0 ± 3.5	43.0	21.5	42.0	21.0
8.0 V 5°	203.0 ± 3.5	44.5	27.0	42.0	21.0
8.5	216.0 ± 4	45.5	23.0	43.0	21.5
9.0	228.5 ± 4	48.5	24.0	45.5	23.0
9.75	247.5 ± 4	38.0	24.0		
10.0	254.0 ± 5	51.0	25.5		
14.0 V 5°	355.5 ± 5	44.5	27.0		

## DROP-CENTRE RIMS WITH 5° TAPERED BEAD SEATS



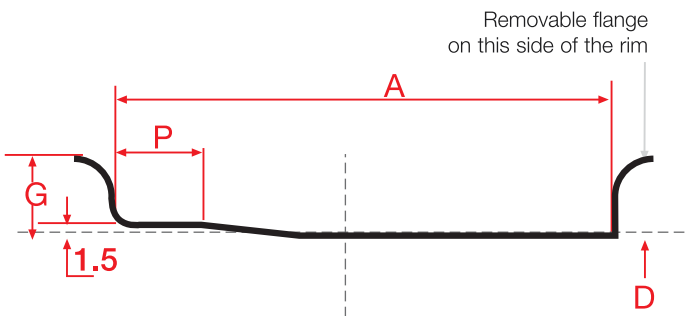
DIMENSIONS (mm)			
Rim	A±1.5	G <sup>+1.2</sup> -0.4	H min.
4.00 B	101.6	14.0	15.0
4.50 B	114.3	14.0	15.0
5.00 B	127.0	14.0	15.0
5.50 B	139.7	14.0	15.0
6.00 B	152.4	14.0	15.0
4.00 C	101.6	15.9	16.8
4.50 C	114.3	15.9	16.8
4J	101.6	17.3	17.3
4 1/2 J	114.3	17.3	17.3
5J	127.0	17.3	17.3
5 1/2 J	139.7	17.3	17.3
6J	152.4	17.3	17.3
6 1/2 J	165.1	17.3	17.3
7J	177.8	17.3	17.3
7 1/2 J	190.5	17.3	17.3
6L	152.4	21.6	28.5
6 1/2 L	165.1	21.6	28.5

DIMENSIONS (mm)			
Rim	A±3.5	G±1.5	P min.
4.50 E	114.5	20	22
5.00 E	127	20	22
5.50 F	139.5	22.5	23.5
6.00 G	152.5	28	31.5
6.50 H	165	34	36

DIMENSIONS (mm)			
Rim	A	G±1.5	P min.
11	279.5 ± 5	25.5	50.0
12	127 ± 6.5	25.5	50.0

DIAMETERS						
Nominal diameter (Code)	12	13	14	15	16	20
Diameter D (mm)	304.4	329.4	354.8	380.2	405.6	512.8

## FLAT BASE RIMS



DIMENSIONS (mm)			
Rim	A	G±1.5	P max
5.00 S	127 ± 3.5	33.5	20.0
6.00 T	152.5 ± 3.5	38	
7.33 V	186 ± 3.5	44	
9.00 V	228.5 ± 4	44	
10.00 V	254 ± 5	44	

DIAMETERS			
Nominal diameter (Code)	20	22	24
Diameter D (mm)	508.0	558.8	609.6

# LOAD AND SPEED TABLES

## CONVERSION OF LOAD INDICES (LI) INTO LOAD CAPACITIES PER TYRE [kg and lbs]

LI	kg	lbs	LI	kg	lbs
80	450	990	126	1700	3750
81	462	1020	127	1750	3860
82	475	1045	128	1800	3970
83	487	1075	129	1850	4080
84	500	1100	130	1900	4190
85	515	1135	131	1950	4300
86	530	1170	132	2000	4410
87	545	1200	133	2060	4540
88	560	1235	134	2120	4675
89	580	1280	135	2180	4805
90	600	1325	136	2240	4940
91	615	1355	137	2300	5070
92	630	1390	138	2360	5205
93	650	1435	139	2430	5355
94	670	1475	140	2500	5510
95	690	1520	141	2575	5675
96	710	1565	142	2650	5840
97	730	1610	143	2725	6010
98	750	1655	144	2800	6175
99	775	1710	145	2900	6395
100	800	1765	146	3000	6615
101	825	1820	147	3075	6780
102	850	1875	148	3150	6945
103	875	1930	149	3250	7165
104	900	1985	150	3350	7385
105	925	2040	151	3450	7605
106	950	2095	152	3550	7825
107	975	2150	153	3650	8045
108	1000	2205	154	3750	8265
109	1030	2270	155	3875	8545
110	1060	2335	156	4000	8820
111	1090	2405	157	4125	9095
112	1120	2470	158	4250	9370
113	1150	2535	159	4375	9645
114	1180	2600	160	4500	9920
115	1215	2680	161	4625	10195
116	1250	2755	162	4750	10470
117	1285	2835	163	4875	10745
118	1320	2910	164	5000	11025
119	1360	3000	165	5150	11355
120	1400	3085	166	5300	11685
121	1450	3195	167	5450	12015
122	1500	3305	168	5600	12345
123	1550	3415	169	5800	12785
124	1600	3525	170	6000	13230
125	1650	3640			

## SPEED SYMBOLS [km/h & mph]

SYMBOL	E	F	G	J	K	L	M	N	P	Q	R	S	T
km/h	70	80	90	100	110	120	130	140	150	160	170	180	190
m.p.h.	43	50	56	62	68	75	81	87	93	99	106	112	118







POWER IS NOTHING WITHOUT CONTROL

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