TRUCK TYRES

Technical Data Book 2013

DUNLOP

www.dunlop.eu/truck

DRIVE WITH CONFIDENCE

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The new generation of Dunlop truck tyres

Total Life Performance

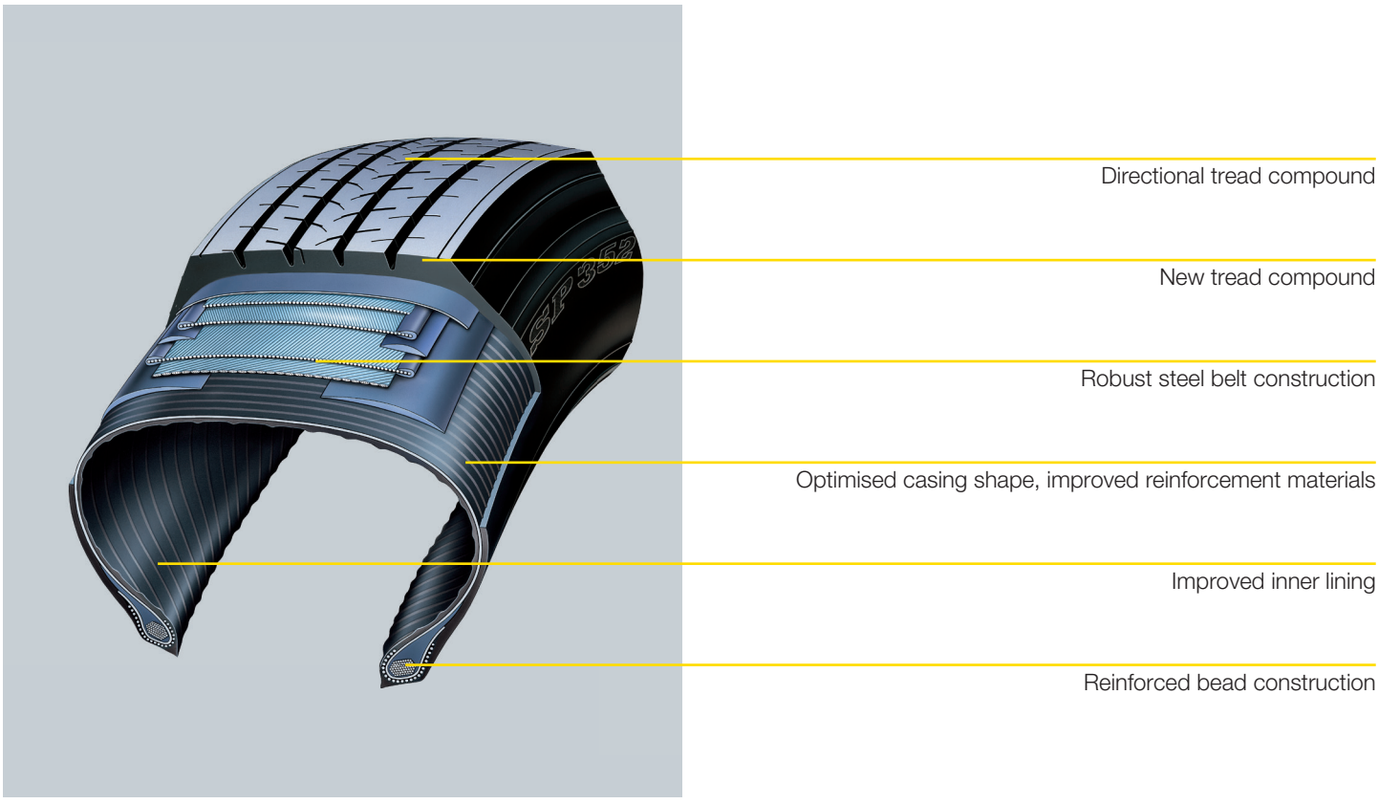
All new generation Dunlop truck tyres share the same engineering principles - excellent performance levels in mileage, braking on wet, traction and handling throughout the tyre life: ‘Total Life Performance’.

Get maximum mileage, efficiency, savings and performance out of your tyres.

Latest technology tyre geometry and compounds designed for specific applications significantly reduce stresses in the tyre casing. Combined with new reinforcement materials this leads to a casing with extraordinary mileage potential suitable for premium quality retreads.

New generation Dunlop truck tyres are available for all segments of today’s demanding truck operations. Specifically designed products for long haul and regional haul, mixed service, off road, city and winter applications feature the latest ‘state of the art’ materials and compounds as well as carcass and tread pattern geometries.

The Dunlop truck tyre range is designed to provide fleets with the ‘right’ tyre for their application, contributing to improved fleet efficiency.



Naming system for Dunlop truck tyres

With the introduction of the new truck tyre range Dunlop is adapting its naming system.

The new 3-digit code easily identifies axle position and application the specific tyres are designed for.

1st digit = Axle Position

3XX = Steer Axle	4XX = Drive Axle	2XX = Trailer

2nd digit = Application

X5X = Long Haul	X4X = Regional and Long Haul	X8X = Mixed Service
X9X = Off Road	X7X = City	X6X = Winter

3rd digit = Generation

XX# = Design Generation	Higher Number = Newer Generation

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Long and Regional Haul Steer and Drive tyre range

Steer axle tyres

SP 344 22.5” — Steer

Latest generation steer tyre for on road applications.
The “on road transport ”steer axle SP 344 tyres in 22.5” sizes have been specifically developed for a multitude of applications, from delivery service, short and regional haul distribution operations to long haul transport.

The combination of latest technology materials, dedicated tread pattern features and a robust carcass result in excellent mileage performance and even wear type combined to good handling and braking on wet surfaces.

SP 344 22.5” - Size line up and tyre label results

Size	Load Index Speed Symbol			
275/70R22.5	148/145 M	D	C	71
295/60R22.5	150/147 K (149/146 L)	C	B	71
295/80R22.5	152/148 M	D	C	72
315/60R22.5	152/148 L	C	C	71
315/70R22.5	154/150 L (152/148 M)	C	B	72
315/80R22.5	156/150 L (154/150 M)	C	B	72
385/55R22.5	160 K (158 L)	B	B	71
385/65R22.5	160 K (158 L)	C	C	73

SP 344 17.5”/19.5” — Steer

Latest generation regional haul steer tyre.
The SP 344 regional haul steer tyres are specifically designed to suit today’s demanding delivery and regional haul service requirements. It provides excellent handling and wet braking performances combined with high mileage.

The latest technology tread compound adds low rolling resistance, resulting in reduced fuel consumption. Combined with the robust carcass construction, these features make the SP 344 an ideal fitment to increase fleet efficiency in regional haul service conditions.

SP 344 17.5”/19.5” - Size line up and tyre label results

Size	Load Index Speed Symbol			
205/75R17.5	124/122 M	D	C	72
215/75R17.5	126/124 M	D	C	73
225/75R17.5	129/127 M	D	C	72
235/75R17.5	132/130 M	C	C	72
245/70R17.5	136/134 M	D	C	72
265/70R17.5	139/136 M	D	C	74
245/70R19.5	136/134 M	D	C	72
265/70R19.5	140/138 M	D	C	72
285/70R19.5	146/144 L (140/137 M)	C	C	72
305/70R19.5	148/145 M	C	C	72

Drive axle tyres

SP 444 22.5” Drive

Latest generation drive tyre for on road applications.
The “on road transport” drive axle SP 444 tyres in 22.5” sizes have been specifically developed for a multitude of applications, from delivery service, short and regional haul distribution operations to long haul transport.

The combination of latest technology materials, dedicated tread pattern features and a robust carcass result in excellent mileage performance and even wear type combined to good traction and braking on wet surfaces.

All season capabilities are assured through the superb winter traction performances of the drive design SP 444.

SP 444 22.5” - Size line up and tyre label results

Size	Load Index Speed Symbol			
275/70R22.5	148/145 M	D	C	79
295/60R22.5	150/147 K (149/146 L)	D	C	78
295/80R22.5	152/148 M	D	C	78
315/60R22.5	152/148 L	E	D	77
315/70R22.5	154/150 L (152/148 M)	D	C	78
315/80R22.5	156/150 L (154/150 M)	D	C	78

M+S

SP 444 17.5”/19.5” Drive

Latest generation regional haul drive tyre.
The SP 444 regional haul drive tyres are specifically designed to suit today’s demanding delivery and regional haul service requirements. It provides excellent traction (M+S marked), wet braking and handling performances combined with high mileage.

The latest technology tread compound combines damage resistance, excellent mileage and low rolling resistance, resulting in improved fuel consumption and efficiency. Together with the robust carcass construction, these features make the SP 444 an ideal fitment to increase fleet efficiency in regional haul service conditions.

SP 344 17.5”/19.5” - Size line up and tyre label results

Size	Load Index Speed Symbol			
205/75R17.5	124/122 M	E	C	74
215/75R17.5	126/124 M	D	C	73
225/75R17.5	129/127 M	E	B	74
235/75R17.5	132/130 M	E	D	74
245/70R17.5	136/134 M	E	D	74
265/70R17.5	139/136 M	D	D	74
245/70R19.5	136/134 M	D	D	74
265/70R19.5	140/138 M	D	C	73
285/70R19.5	146/144 L (140/137 M)	D	D	74
305/70R19.5	148/145 M	D	D	74

M+S

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Long and Regional Haul Trailer tyre range

Trailer tyres

SP 244 Trailer

Latest generation trailer tyre for on road applications.
The new SP 244 trailer tyres have been developed for a multitude of applications, from delivery service, short and regional haul distribution, to long haul transport.

The combination of latest technology materials, dedicated tread pattern features and a robust carcass results in high mileage, even wear type, low cost per km – in a variety of road transport operations. Thanks to a wide tread pattern, a significant increase of the wearable rubber volume and a dedicated tread compound, SP 244 presents high mileage potential. Its 5 massive ribs and its robust design offer an excellent resistance against shoulder wear and improved robustness during cornering maneuvers.The use of latest technology carcass and belt materials, combined to the dedicated tread compound and tyre geometry, result in enhanced damage resistance and consequently retreadability.

SP 244 - Size line up and tyre label results

Size	Load Index Speed Symbol			
385/55R22.5	160 K (158 L)	B	B	70
385/65R22.5	160 K (158 L)	C	B	71
425/65R22.5	165 K	B	B	69
445/65R22.5	169 K	B	B	71

SP 252 Super Single Trailer

Trailer tyre for long haul applications.
Wide footprint for even ground pressure distribution and wear pattern. Very cost efficient due to high mileage potential, casing strength, and low rolling resistance. Dedicated sidewall compounds improve resistance to impact damage.

The design allows innovative, low profile tyre sizes in order to improve cargo volume of megatrailers.

SP 252 Super Single - Size line up and tyre label results

Size	Load Index Speed Symbol			
435/50R19.5	160 J	B	C	71

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Trailer tyres

SP 252 lpt Low Platform Trailer — Trailer

Trailer tyre for regional haul applications.
The wide and deep tread with high wearable rubber volume gives excellent mileage performance.

The dedicated rib geometry provides an even wear type by regular distribution of footprint pressure. The large grooves with specifically designed geometry reduce stone holding and allow for good water evacuation capabilities in wet conditions.

SP 252 lpt - Size line up and tyre label results

Size	Load Index Speed Symbol			
9.5R17.5	143/141 J	C	C	70
205/65R17.5	129/127 J (130/130 F)	D	C	70
215/75R17.5	135/133 J	C	C	69
235/75R17.5	143/141 J (144/144 F)	C	C	70
245/70R17.5	143/141 J	C	C	69
245/70R19.5	141/140 J	C	C	70
265/70R19.5	143/141 J	C	C	70
285/70R19.5	150/148 J	B	D	70

SP 241 — Trailer

Trailer tyre for regional and long haul applications.
Five straight ribs provide low noise level, high mileage potential and even wear pattern.

The casing and tread profile guarantee even ground pressure distribution and constant characteristics throughout the complete tyre life. Special heavy duty bead construction and tread compound to withstand high loads and stresses.

SP 241 - Size line up and tyre label results

Size	Load Index Speed Symbol			
425/55R19.5	160 J	C	C	71

Trailer tyres

SP 332 Trailer

Robust steer and non-driven axle tyre.
5-rib tread design for steer and non-driven axles in regional or long haul with even wear pattern and excellent casing durability.

SP 332 - Size line up and tyre label results

Size	Load Index Speed Symbol			
365/80R20TL	160 K	C	C	69

SP 111 Trailer

Steer axle/all-round tyre.
Distinctive rib and shoulder design for excellent handling performance. Wide longitudinal grooves to provide excellent water evacuation.

High mileage potential and low rolling resistance for cost efficient hauling.

SP 111 - Size line up and tyre label results

Size	Load Index Speed Symbol			
9.5R17.5	129/127 L	E	C	73
10R17.5	134/132 M	D	C	73

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Winter tyre range

Steer axle tyres

SP 362 — Steer

Steer axle tyres for winter applications.
Centreline blocks combined with solid shoulders provide excellent winter traction and grip on snowy, icy roads. In addition, the bladed tread pattern provides outstanding braking performance on wet surfaces.

Excellent steering and handling capabilities allow usage as an all position tyre on coaches.

M+S

SP 362 - Size line up and tyre label results

Size	Load Index Speed Symbol			
295/80R22.5	152/148 L	D	B	71
315/70R22.5	154/150 K (152/148 L)	C	C	72
315/80R22.5	156/150 K (154/150 L)	C	B	73
385/65R22.5	160 K (158 L)	C	B	74

Drive axle tyres

SP 462 Trailer

Drive axle tyre designed for winter applications.
The SP 462 winter traction drive tyre is specifically designed to cope with severe winter conditions. It provides excellent traction on snowy and icy roads.

The dedicated block tread design, using latest technology blading and tread compounds combines excellent winter traction performances to high mileage and even wear. Combined with the 'state of the art' robust carcass construction, the SP 462 provides all features required for today's truck's winter operations.

M+S

SP 462 - Size line up and tyre label results

Size	Load Index Speed Symbol			
295/80R22.5	152/148 L	E	C	74
315/70R22.5	154/150 K (152/148 L)	D	C	73
315/80R22.5	156/150 L (154/150 M)	E	C	73

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City tyre range

Steer axle and all position tyres

SP 372 City — Steer

Steer axle tyre for city buses.
The Dunlop SP 372 City tyre, developed to cope with the multiple requirements of today's urban transport operations.

The tyre has been developed for use on steer axle and all position usage. The robust and wide 5 rib tread pattern results in high mileage performance, the frequent blading provides excellent braking and traction on wet and snowy roads.

The SP 372 City tyres are designed for all season use and consequently M&S marked. Reinforced sidewalls do enhanced kerb scuffing resistance. The use of a dedicated, abrasion resistant tread compound in combination with the dedicated tread pattern results in high mileage performance, even wear type and low noise generation.

SP 372 City - Size line up and tyre label results

Size	Load Index Speed Symbol				
275/70R22.5	148/145 J (152/148 E)	E	C	71	M+S
295/80R22.5	152/148 J (154/150 E)	D	C	71	M+S
315/60R22.5	152/148 J	D	C	71	M+S

SP 741 City — Steer

All-round tyre for city buses.
Deep tread combined with wear resistant tread compound to improve mileage potential.

Substantial sidewall protection bands with wear indicators on both sides help to reduce kerbing damage. Pattern designed to minimise noise emission.

SP 741 City - Size line up and tyre label results

Size	Load Index Speed Symbol				
275/70R22.5	148/145 J (152/148 E)	D	C	71	M+S

Drive axle tyres

SP 472 City All Season — Drive

Drive axle all season tyre for city buses.
The latest Dunlop SP 472 City All Season tyre, developed to cope with the multiple requirements of today's urban transport operations.

The tyre has been developed for drive axle use, in operations where excellent traction is required. The robust, bladed tread pattern has been specifically developed to provide superb traction and braking on wet and snow covered roads, combined to high mileage, even wear and low noise.

The SP 472 City tyres are designed for all season use and consequently M&S marked. Reinforced sidewalls do enhanced kerb scuffing resistance.

M+S

SP 472 City All Season - Size line up and tyre label results

Size	Load Index Speed Symbol			
275/70 R 22.5	148/145 J (152/148 E)	E	C	71

SP 531 City — Drive

Drive axle tyre for city buses.
Robust, deep tread pattern for excellent traction and all-weather capabilities.
Cut resistant and hard-wearing tread compounds offer superb mileage and tyre life.
Sidewall protection bands with wear indicators on both sides to reduce kerbing damage.
Especially suited for retarder use.

M+S

SP 531 City - Size line up and tyre label results

Size	Load Index Speed Symbol			
275/70R22.5	148/145 J (152/148 E)	E	C	74

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On/Off-Road / Construction tyre range

SP 382 — Steer

The SP 382 mixed service steer tyre is specifically designed to suit today's 'mixed service' fleet operators.
It provides excellent mileage while featuring an excellent damage resistant construction and pattern. Traction on wet and unpaved roads as well as a robust tread design are the main features of the SP 382.

Two design versions are available, the 4-rib version for standard aspect ratio sizes and the 5-rib version for low aspect ratio sizes. Developed using the latest technologies in view of compounds and carcass geometry, the SP 382 also provides a superb durability and consequently retreadability.

SP 382 - Size line up and tyre label results

Size	Load Index Speed Symbol			
11R22.5	148/145 K	C	B	69
13R22.5	156/150 G (154/150 K)	D	B	68
295/80R22.5	152/148 K	D	B	69
315/80R22.5	156/150 K	D	B	69
385/65R22.5	160 K (158 L)	C	B	69

SP 482 — Drive

Specialist drive axle tyre for use in on/off-road applications and construction.
The SP 482 features latest technology compounds and materials in view of providing best mileage combined with excellent damage resistance and traction properties to mixed service fleet operators.

The deep radial shoulder grooves combined with the centreline rib allow for excellent traction characteristics and handling.

The specific groove geometry is designed to reduce stone holding and to provide good self-cleaning properties.

SP 482 - Size line up and tyre label results

Size	Load Index Speed Symbol			
13R22.5	156/150 G (154/150 K)	E	B	74
295/80R22.5	152/148 K	E	C	74
315/80R22.5	156/150 K	D	B	74

SP 282 Trailer

Trailer tyre for heavy duty on/off-road applications.
The SP 282 mixed service trailer tyre is specifically developed to cope with the demanding requirements of todays truck operations. Its robust and damage resistant design, combined with the special, wear resistant tread compound, the stone penetration protectors and the deep tread pattern result in excellent performance of the tyre in mixed service operations.

M+S

SP 282 - Size line up and tyre label results

Size	Load Index Speed Symbol			
385/65R22.5	160 J (158 K)	C	B	72
445/65R22.5	169 K	C	B	70

SP 502 Trailer

Trailer tyre for construction sites, with robust, reinforced pattern blocks.
The design of the blocks and grooves reduce damage due to stone trapping which helps in giving an even wear pattern.

M+S

SP 502 - Size line up and tyre label results

Size	Load Index Speed Symbol			
275/70R22.5	148/145 J	C	C	73

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Off-Road tyre range

SP 492 Drive

Drive axle tyre for demanding off-road applications.
The SP 492 off-road drive tyre is specifically designed to meet toughest off-road service conditions.

It provides excellent traction combined with high damage resistance. Through the use of latest technology tread compound and deep profile depth, SP 492 also provides excellent mileage performance. The SP 492 thus combines excellent efficiency and performance characteristics for fleets operating in off-road service conditions.

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SP 492 - Size line up and tyre label results

Size	Load Index Speed Symbol			
13R22.5	156/150 G (154/150 J)	E	B	75


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Long Haul, Regional Haul

		Long Haul/ Regional Haul							
		Steer			Drive		Trailer		
Size	**LI/SI**	**SP 344**	**SP 111**	**SP 332**	**SP 444**	**SP 431**	**SP 244**	**SP 252**	**SP 241**
9.5R17.5	129/127 L		■						
9.5R17.5	143/141 J							■	
10R17.5	134/132 M		■						
205/65R17.5	129/127 J (130/130 F)							■	
205/75R17.5	124/122 M	■			■				
215/75R17.5	126/124 M	■			■				
215/75R17.5	135/133 J							■	
225/75R17.5	129/127 M	■			■				
235/75R17.5	132/130 M	■			■				
235/75R17.5	143/141 J (144/144 F)							■	
245/70R17.5	136/134 M	■			■				
245/70R17.5	143/141 J							■	
265/70R17.5	139/136 M	■			■				
245/70R19.5	136/134 M	■			■				
245/70R19.5	141/140 J							■	
265/70R19.5	140/138 M	■			■				
265/70R19.5	143/141 J							■	
285/70R19.5	146/144 L (140/137 M)	■			■				
285/70R19.5	150/148 J							■	
305/70R19.5	148/145 M	■			■				
425/55R19.5	160 J								■
435/50R19.5	160 J							■	
365/80R20	160 K			■					
10R22.5	144/142 L					■			
275/70R22.5	148/145 M	■			■				
295/60R22.5	150/147 K (149/146 L)	■			■				
295/80R22.5	152/148 M	■			■				
315/60R22.5	152/148 L	■			■				
315/70R22.5	154/150 L (152/148 M)	■			■				
315/80R22.5	156/150 L (154/150 M)	■			■				
385/55R22.5	160 K (158 L)	■					■		
385/65R22.5	160 K (158 L)	■					■		
425/65R22.5	165 K						■		
445/65R22.5	169 K						■		

Winter, City / Bus, Construction, On/Off-Road

		Winter		City / Bus				On/Off-Road / Construction					Off-Road
		Steer	Drive	All-Round		Drive		Steer	Drive	Trailer			Drive
Size	**LI/SI**	**SP 362**	**SP 462**	**SP 372 City**	**SP 741 City**	**SP 472 City**	**SP 531 City**	**SP 382**	**SP 482**	**SP 282**	**SP 332**	**SP 502**	**SP 492**
365/80R20	160 K										■		
11R22.5	148/145 K							■					
13R22.5	156/150 G (154/150 J)												■
13R22.5	156/150 G (154/150 K)							■	■				
275/70R22.5	148/145 J											■	
275/70R22.5	148/145 J (152/148 E)			■	■	■	■						
295/80R22.5	152/148 J			■									
295/80R22.5	152/148 K							■	■				
295/80R22.5	152/148 L	■	■										
315/60R22.5	152/148 J			■									
315/70R22.5	154/150 K (152/148 L)	■	■										
315/80R22.5	156/150 K							■	■				
315/80R22.5	156/150 K (154/150 L)	■											
315/80R22.5	156/150 L (154/150 M)		■										
385/65R22.5	160 J (158 K)									■			
385/65R22.5	160 K (158 L)	■						■					
445/65R22.5	169 K									■			

Technical data

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Tyre dimensions and load inflation table

Size	Design	Load/Speed	Perm. Rims (ETRTO)	Max. in service (mm) Width	Diameter	Stat. loaded radius (+/- 2%)	Rolling Circumf. (+/- 2%)	Max. Infl.	Single/ Dual	Load Index
9.5R17.5	SP111	129/127 L	6.00 / 6.75	250	857	391	2570	7,5	s	129
									d	127
10R17.5	SP111	134/132 M	6.75 / 7.50	264	875	398	2620	8	s	134
									d	132
205/75R17.5	SP344, SP444	124/122 M	5.25 / 6.00	212	765	353	2300	7,5	s	124
									d	122
215/75R17.5	SP344, SP444	126/124 M	6.00 / 6.75	219	779	359	2340	7	s	126
									d	124
225/75R17.5	SP344, SP444	129/127 M	6.00 / 6.75	235	797	366	2390	7,25	s	129
									d	127
235/75R17.5	SP344, SP444	132/130 M	6.75 / 7.50	242	811	372	2430	7,75	s	132
									d	130
245/70R17.5	SP344, SP444	136/134 M	6.75 / 7.50	258	803	364	2410	8,5	s	136
									d	134
265/70R17.5	SP344, SP444	139/136 M	6.75 / 7.50 / 8.25	272	831	376	2490	8	s	139
									d	136
245/70R19.5	SP344, SP444	136/134 M	6.75 / 7.50	258	803	364	2410	8,5	s	136
									d	134
265/70R19.5	SP344, SP444	140/138 M	7.50 / 8.25	272	881	401	2640	7,75	s	140
									d	138
285/70R19.5	SP344, SP444	146/144 L	7.50 / 8.25 / 9.00	294	911	413	2730	9	s	146
									d	144
		140/137 M						7,25	s	140
									d	137
305/70R19.5	SP344, SP444	148/145 M	8.25 / 9.00	317	941	424	2820	8,5	s	148
									d	145

Axle loads (kgs) at various inflation pressures (bar)														
5.5	**5.75**	**6.0**	**6.25**	**6.5**	**6.75**	**7.0**	**7.25**	**7.5**	**7.75**	**8.0**	**8.25**	**8.5**	**8.75**	**9.0**
2890	3000	3100	3200	3300	3410	3510	3610	3700						
5470	5660	5860	6050	6250	6440	6630	6820	7000						
3150	3260	3370	3490	3600	3710	3820	3920	4030	4140	4240				
5930	6150	6360	6570	6780	6990	7190	7400	7600	7800	8000				
2500	2590	2680	2770	2860	2950	3030	3120	3200						
4690	4860	5020	5190	5360	5520	5680	5840	6000						
2810	2910	3010	3110	3210	3310	3400								
5280	5470	5660	5850	6040	6220	6400								
2970	3080	3190	3290	3400	3500	3600	3700							
5620	5820	6020	6220	6420	6620	6810	7000							
3050	3160	3260	3370	3480	3590	3690	3800	3900	4000					
5780	5990	6200	6400	6610	6810	7010	7210	7410	7600					
3170	3280	3400	3510	3620	3730	3840	3950	4060	4170	4270	4380	4480		
5990	6210	6420	6640	6850	7060	7270	7470	7680	7880	8080	8280	8480		
3610	3740	3870	3990	4120	4250	4370	4500	4620	4740	4860				
6640	6880	7120	7360	7590	7830	8060	8290	8510	8740	8960				
2940	3170	3400	3510	3620	3730	3840	3950	4060	4170	4270	4380	4480		
5550	5990	6420	6640	6850	7060	7270	7470	7680	7880	8080	8280	8480		
3810	3940	4080	4210	4350	4480	4610	4750	4880	5000					
7180	7440	7700	7950	8210	8460	8710	3950	9200	9440					
4050	4200	4340	4490	4630	4770	4910	5050	5190	5330	5470	5600	5740	5870	6000
7560	7830	8100	8370	8640	8900	9170	9430	9680	9940	10200	10450	10700	10960	11200
4010	4160	4300	4450	4590	4730	4870	5000							
7380	7650	7910	8170	8440	8690	8950	9200							
4450	4610	4770	4930	5090	5240	5400	5550	5700	5860	6010	6160	6300		
8190	8490	8780	9080	9360	9650	9940	10220	10500	10780	11060	11330	11600		

Truck & Bus tyres 22.5” low aspect ratio

Tyre dimensions and load inflation table

Size	Design	Load/Speed	Perm. Rims (ETRTO)	Max. in service (mm) Width	Max. in service (mm) Diameter	Stat. loaded radius (+/- 2%)	Rolling Circumf. (+/- 2%)	Max. Infl.	Single/ Dual	Load Index
275/70R22.5	SP344, SP444	148/145 M	7.50 / 8.25	287	974	445	2920	9	s	148
	SP372 City, SP472 City,								d	145
	SP531 City, SP 741 City	148/145 J						9	s	152
		152/148 E							d	148
295/60R22.5	SP344, SP444	150/147 K	9.00 / 9.75	304	940	435	2810	9	s	150
		149/146 L							d	147
								9	s	149
									d	146
295/80R22.5	SP344, SP444	152/148 M	8.25 / 9.00	310	1062	487	3180	8,5	s	152
	SP362, SP462	152/148 L							d	148
	SP382, SP482	152/148 K						8,5	s	154
	SP372 City	152/148 J							d	150
		154/150 E								
315/60R22.5	SP344, SP444	152/148 L	9.00 / 9.75	326	996	445	2880	9	s	152
	SP372 City	152/148 J							d	148
315/70R22.5	SP344, SP444	154/150 L	9.00 / 9.75	318	1032	468	3090	9	s	154
		152/148 M							d	150
	SP362, SP462	154/150 K						8,5	s	152
		152/148 L							d	148
315/80R22.5	SP344, SP444, SP462	156/150 L	9.00 / 9.75	318	1096	500	3280	8,5	s	156
		154/150 M							d	150
	SP362	156/150 K						8,25	s	154
		154/150 L							d	150
	SP382, SP482	156/150 K								
385/55R22.5	SP344	160 K	11.75 / 12.25	401	1012	464	3020	9	s	160
		158 L						8,5	s	158
385/65R22.5	SP344, SP362, SP382	160 K	11.75 / 12.25	405	1092	496	3250	9	s	160
		158 L						8,5	s	158

Axle loads (kgs) at various inflation pressures (bar)															
5.5	**5.75**	**6.0**	**6.25**	**6.5**	**6.75**	**7.0**	**7.25**	**7.5**	**7.75**	**8.0**	**8.25**	**8.5**	**8.75**	**9.0**
4250	4410	4560	4710	4860	5010	5160	5300	5450	5590	5740	5880	6020	6160	6300
7830	8110	8390	8670	8950	9220	9490	9760	10030	10300	10560	10820	11090	11350	11600
4790	4970	5140	5310	5480	5650	5810	5980	6140	6300	6470	6630	6790	6950	7100
8500	8810	9110	9420	9720	10010	10310	10600	10890	11180	11470	11760	12040	12320	12600
4520	4690	4850	5010	5170	5330	5480	5640	5800	5950	6100	6250	6410	6560	6700
8300	8600	8900	9190	9490	9780	10060	10350	10640	10920	11200	11480	11760	12030	12300
4390	4550	4700	4860	5020	5170	5320	5470	5620	5770	5920	6070	5210	6360	6500
8100	8390	8680	8970	9250	9540	9820	10100	10380	10650	10930	11200	11470	11740	12000
5020	5200	5380	5560	5730	5910	6080	6260	6430	6600	6770	6940	7100		
8900	9220	9540	9860	10170	10480	10790	11100	11400	11710	12010	12310	12600		
5300	5490	5680	5870	6060	6240	6430	6610	6790	6970	7150	7330	7500		
9460	9810	10150	10480	10820	11150	11480	11800	12130	12450	12770	13090	13400		
4790	4970	5140	5310	5480	5650	5810	5980	6140	6300	6470	6630	6790	6950	7100
8500	8810	9110	9420	9720	10010	10310	10600	10890	11180	11470	11760	12040	12320	12600
5060	5250	5430	5610	5790	5960	6140	6310	6490	6660	6830	7000	7170	7340	7500
9040	9370	9690	10010	10330	10650	10960	11280	11590	11890	12200	12500	12810	13110	13400
5020	5200	5380	5560	5730	5910	6080	6260	6430	6600	6770	6940	7100		
8900	9220	9540	9860	10170	10480	10790	11100	11400	11710	12010	12310	12600		
5650	5860	6060	6260	6460	6660	6850	7050	7240	7440	7630	7820	8000		
9460	9810	10150	10480	10820	11150	11480	11800	12130	12450	12770	13090	13400		
5430	5620	5820	6010	6200	6390	6580	6770	6950	7140	7320	7500			
9690	10040	10390	10740	11080	11420	11750	12090	12420	12750	13080	13400			
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000
6010	6220	6440	6650	6860	7070	7280	7490	7700	7900	8100	8300	8500		
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000
6010	6220	6440	6650	6860	7070	7280	7490	7700	7900	8100	8300	8500		

Truck & Bus tyres 22.5” and 20” standard aspect ratio

Tyre dimensions and load inflation table

Size	Design	Load/Speed	Perm. Rims (ETRTO)	Max. in service (mm)		Stat. loaded radius (+/- 2%)	Rolling Circumf. (+/- 2%)	Max. Infl.	Single/ Dual	Load Index
				Width	Diameter					
10R22.5	SP431	144/142 L	6.75 / 7.50	264	1038	476	3110	8,5	s	144
									d	142
11R22.5	SP382	148/145 K	7.50 / 8.25	290	1070	489	3200	8,5	s	148
									d	145
13R22.5	SP382, SP482	156/150 G	9.00 / 9.75	326	1146	521	3430	8,75	s	156
		154/150 K							d	150
	SP492	156/150 G						8,5	s	154
		154/150 J							d	150
385/80R20TL	SP332	160 K	10.00V	379	1116	502	3280	9	s	160

Axle loads (kgs) at various inflation pressures (bar)

5.5	5.75	6.0	6.25	6.5	6.75	7.0	7.25	7.5	7.75	8.0	8.25	8.5	8.75	9.0
3960	4100	4240	4380	4520	4660	4800	4940	5070	5210	5340	5470	5600		
7490	7760	8030	8290	8560	8820	9080	9340	9600	9850	10100	10350	10600		
4450	4610	4770	4930	5090	5240	5400	5550	5700	5860	6010	6160	6300		
8190	8490	8780	9080	9360	9650	9940	10220	10500	10780	11060	11330	11600		
5520	5720	5920	6120	6310	6510	6700	6890	7080	7260	7450	7640	7820	8000	
9250	9580	9910	10240	10570	10890	11210	11530	11850	12170	12480	12790	13100	13400	
5300	5490	5680	5870	6060	6240	6430	6610	6790	6970	7150	7330	7500		
9460	9810	10150	10480	10820	11150	11480	11800	12130	12450	12770	13090	13400		
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000

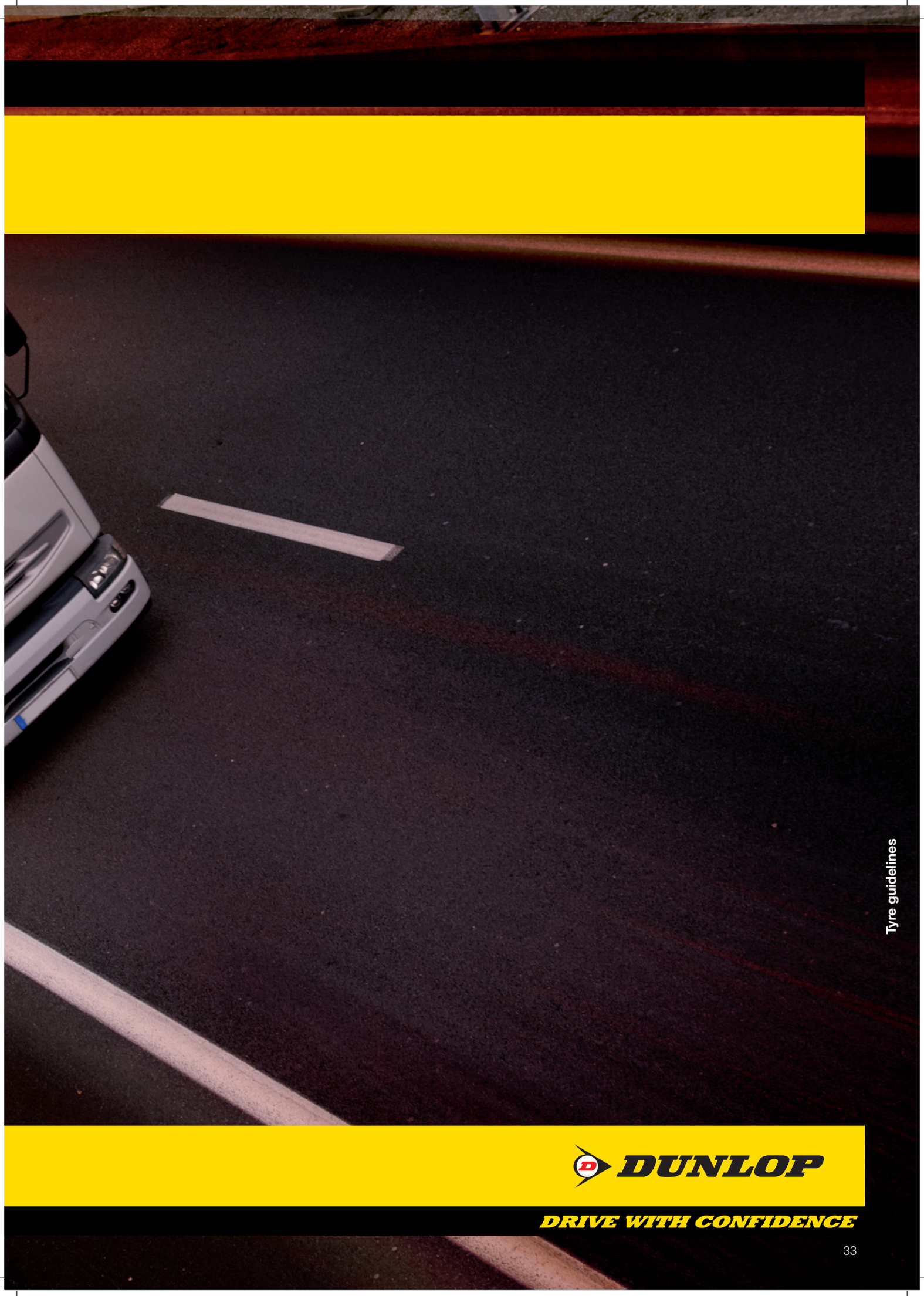
Trailer tyres 17.5” to 22.5”

Tyre dimensions and load inflation table

Size	Design	Load/Speed	Perm. Rims (ETRTO)	Max. in service (mm)		Stat. loaded radius (+/- 2%)	Rolling Circumf. (+/- 2%)	Max. Infl.	Single/ Dual	Load Index
				Width	Diameter					
9.5R17.5	SP252	143/141 J	6.00 / 6.75	250	857	381	2570	8,75	s	143
									d	141
205/65R17.5	SP252	129/127 J	6.00 / 6.75	212	721	329	2170	9	s	129
		130/130 F							d	127
								9	s	130
									d	130
215/75R17.5	SP252	135/133 J	6.00 / 6.75	219	779	351	2340	8,5	s	135
									d	133
235/75R17.5	SP252	143/141 J	6.75 / 7.50	242	811	363	2430	8,75	s	143
		144/144 F							d	141
								8,75	s	144
									d	144
245/70R17.5	SP252	143/141 J	6.75 / 7.50	258	803	360	2410	8,75	s	143
									d	141
245/70R19.5	SP252	141/140 J	6.75 / 7.50	258	853	385	2560	8,5	s	141
									d	140
265/70R19.5	SP252	143/141 J	7.50 / 8.25	272	881	396	2640	8,5	s	143
									d	141
285/70R19.5	SP252	150/148 J	8.25 / 9.00	294	911	408	2730	9	s	150
									d	148
425/55R19.5	SP241	160 J	13.00 / 14.00	438	981	435	2920	9	s	160
435/50R19.5	SP252	160 J	14.00 / 15.00	456	949	422	2840	9	s	160
275/70R22.5	SP502	148/145 J	8,25	287	974	440	2920	9	s	148
									d	145
385/55R22.5	SP244	160 K	11.75 / 12.25	401	1012	456	3040	9	s	160
		158 L						8,5	s	158
385/65R22.5	SP244	160 K	11.75 / 12.25	405	1092	496	3250	9	s	160
		158 L						8,5	s	158
	SP282	160 J								
		158 K								
425/65R22.5	SP244	165 K	13.00 / 14.00	447	1146	518	3410	8,25	s	165
445/65R22.5	SP244, SP282	169 K	14.00	472	1174	529	3490	9	s	169

Axle loads (kgs) at various inflation pressures (bar)															
5.5	**5.75**	**6.0**	**6.25**	**6.5**	**6.75**	**7.0**	**7.25**	**7.5**	**7.75**	**8.0**	**8.25**	**8.5**	**8.75**	**9.0**
3760	3900	4040	4170	4300	4430	4560	4690	4820	4950	5080	5200	5330	5450	
7110	7370	7620	7870	8130	8370	8620	8870	9110	9350	9590	9830	10070	10300	
2500	2590	2680	2770	2860	2940	3030	3120	3200	3290	3370	3460	3540	3620	3700
4730	4900	5070	5230	5400	5570	5730	5890	6050	6220	6380	6530	6690	6850	7000
2570	2660	2750	2840	2930	3020	3110	3200	3290	3380	3460	3550	3640	3720	3800
5130	5320	5500	5680	5860	6040	6220	6400	6570	6750	6920	7090	7270	7440	7600
3080	3190	3300	3410	3520	3630	3740	3840	3950	4050	4160	4260	4360		
5820	6030	6240	6450	6650	6860	7060	7260	7460	7660	7850	8050	8240		
3760	3900	4040	4170	4300	4430	4560	4690	4820	4950	5080	5200	5330	5450	
7110	7370	7620	7870	8130	8370	8620	8870	9110	9350	9590	9830	10070	10300	
3870	4010	4150	4280	4420	4560	4690	4820	4960	5090	5220	5350	5480	5600	
7730	8010	8290	8560	8830	9110	9370	9640	9910	10170	10430	10690	10950	11200	
3760	3900	4040	4170	4300	4430	4560	4690	4820	4950	5080	5200	5330	5450	
7110	7370	7620	7870	8130	8370	8620	8870	9110	9350	9590	9830	10070	10300	
3640	3770	3900	4030	4160	4290	4410	4540	4660	4790	4910	5030	5150		
7060	7320	7570	7820	8070	8320	8570	8810	9050	9290	9530	9770	10000		
3850	3990	4130	4270	4400	4540	4670	4800	4940	5070	5200	5330	5450		
7280	7540	7800	8060	8320	8570	8820	9070	9320	9570	9820	10060	10300		
4520	4690	4850	5010	5170	5330	5480	5640	5800	5950	6100	6250	6410	6560	6700
8500	8810	9110	9420	9720	10010	10310	10600	10890	11180	11470	11760	12040	12320	12600
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000
4250	4410	4560	4710	4860	5010	5160	5300	5450	5590	5740	5880	6020	6160	6300
7830	8110	8390	8670	8950	9220	9490	9760	10030	10300	10560	10820	11090	11350	11600
6070	6290	6510	6730	6940	7150	7370	7580	7780	7990	8200	8400	8600	8800	9000
6010	6220	6440	6650	6860	7070	7280	7490	7700	7900	8100	8300	8500		
6070	6220	6510	6650	6940	7070	7370	7490	7780	7900	8200	8300	8600	8700	9000
6010	6290	6440	6730	6860	7150	7280	7580	7700	7990	8100	8400	8500		
7450	7720	7990	8250	8520	8780	9040	9290	9550	9800	10050	10300			
7830	8110	8390	8670	8950	9220	9490	9760	10030	10300	10560	10820	11090	11350	11600

Tyre guidelines



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Variations in load carrying capacity

with speed and corresponding inflation pressure compensation (for vehicle-specific maximum speeds)

Notes:

1. Up to 40 km/h the load carrying capacity of tyres in dual fitments is twice the load carrying capacity in slngle.
2. These tables apply to the 'normal' load/speed mounting, not to a possible 'single point' marking.
3. Bonus loads are NOT applicable to trailers and semi-trailers at speeds > 65 km/h.
4. For city buses (Class I), a bonus load of +15% of the load indices marked on the tyre is allowable, if the average speed does not exceed 40 km/h.
5. For suburban or interurban buses (Class II), a bonus load of +10% of the load indices marked on the tyre is allowable, if the operating speed is restricted to a maximum of 60 km/h.

Tabel

	Variation in load carrying capacity (%) Speed Symbol						
Speed (km/h)	**F**	**G**	**J**	**K**	**L**	**M**	**Inflation Pressure Compensation (%)***
Static	+150	+150	+150	+150	+150	+150	+40
5	+110	+110	+110	+110	+110	+110	+40
10	+80	+80	+80	+80	+80	+80	+30
15	+65	+65	+65	+65	+65	+65	+25
20	+50	+50	+50	+50	+50	+50	+21
25	+35	+35	+35	+35	+35	+35	+17
30	+25	+25	+25	+25	+25	+25	+13
35	+19	+19	+19	+19	+19	+19	+11
40	+15	+15	+15	+15	+15	+15	+10
45	+13	+13	+13	+13	+13	+13	+9
50	+12	+12	+12	+12	+12	+12	+8
55	+11	+11	+11	+11	+11	+11	+7
60	+10	+10	+10	+10	+10	+10	+6
65	+7.5	+8.5	+8.5	+8.5	+8.5	+8.5	+4
70	+5.0	+7.0	+7.0	+7.0	+7.0	+7.0	+2
75	+2.5	+5.5	+5.5	+5.5	+5.5	+5.5	-1
80	0	1.0	+1.0	+4.0	+4.0	+4.0	0
85		2.0	+3.0	+3.0	+3.0	+3.0	0
90		0	+3.0	+2.0	+2.0	+2.0	0
95			+1.0	+1.0	+1.0	+1.0	0
100			0	0	0	0	0
110				0	0	0	0
120					0	0	0
130						0	0

* Increments to be applied in absence of any specific agreement with the tyre manufacture.

Load and speed indices on truck tyres

Truck tyres are marked on the sidewall with ‘load and speed’ indices. These indices specify the maximum load carrying capacity (load index) at the maximum permissible speed capability (speed index) of the tyre. In addition the load/speed index combination may indicate the load carrying capacity in single fitment and dual fitment.

Load indices and corresponding load carrying capacities in kg.

LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg	LI	Kg
61	257	75	387	89	580	103	875	117	1285	131	1950	145	2900	159	4375
62	265	76	400	90	600	104	900	118	1320	132	2000	146	3000	160	4500
63	272	77	412	91	615	105	925	119	1360	133	2060	147	3075	161	4625
64	280	78	425	92	630	106	950	120	1400	134	2120	148	3150	162	4750
65	290	79	437	93	650	107	975	121	1450	135	2180	149	3250	163	4875
66	300	80	450	94	670	108	1000	122	1500	136	2240	150	3350	164	5000
67	307	81	462	95	690	109	1030	123	1550	137	2300	151	3450	165	5150
68	315	82	475	96	710	110	1060	124	1600	138	2360	152	3550	166	5300
69	325	83	487	97	730	111	1090	125	1650	139	2430	153	3650	167	5450
70	335	84	500	98	750	112	1120	126	1700	140	2500	154	3750	168	5600
71	345	85	515	99	775	113	1150	127	1750	141	2575	155	3850	169	5800
72	355	86	530	100	800	114	1180	128	1800	142	2650	156	4000	170	6000
73	365	87	545	101	825	115	1215	129	1850	143	2725	157	4125	171	6150
74	375	88	560	102	850	116	1250	130	1900	144	2800	158	4250	172	6300

Speed indices and corresponding maximum speed capability.

SI	V max.	SI	V max.	SI	V max.	SI	V max.	SI	V max.
B	50	E	70	J	100	M	130	Q	160
C	60	F	80	K	110	N	140	R	170
D	65	G	90	L	120	P	150	S	180

LI = Load Index
SI = Speed Index

Minimum spacing requirements for dual mounted tyres

The tables below feature the recommended 'minimum spacing' between tyres in dual fitment (dual spacing specifies the distance between centrelines of tyres in dual fitment).

	Variation in load carrying capacity (%) Speed Symbol			
Speed (km/h)	**F**	**G**	**J**	**K**
15"				
8.25 R 15 TT	6.50	265		
17.5"				
8.5 R 17.5	6.00	242	5.25	233
9.5 R 17.5	6.75	270	6.00	261
10 R 17.5	7.50	286	6.75	277
205/65 R 17.5	6.75	239	6.00	231
205/75 R 17.5	6.00	231		
215/75 R 17.5	6.00	239		
225/75 R 17.5	6.75	254	6.00	246
235/75 R 17.5	6.75	262		
245/70 R 17.5	7.50	279	6.75	270
265/70 R 17.5	7.50	295		
19.5"				
245/70 R 19.5	7.50	279	6.75	270
265/70 R 19.5	7.50	295		
285/70 R 19.5	8.25	318	7.50	311
305/70 R 19.5	9.00	343	8.25	334
20"				
10.00 R 20	7.50	316		
11.00 R 20	8.00	329		
12.00 R 20	8.50	360		
14.00 R 20	10.00	426		
22,5"				
9 R 22.5	6.75	259	6.00	250
10 R 22.5	7.50	286	6.75	277
11 R 22.5	8.25	314	7.50	305
12 R 22.5	9.00	338	8.25	329
13 R 22.5	9.75	360	9.00	351
275/80 R 22.5	8.25	311	7.50	303
295/80 R 22.5	9.00	335	8.25	326
315/80 R 22.5	9.00	351		
255/70 R 22.5	7.50	287	6.75	278
275/70 R 22.5	8.25	311	7.50	303
305/70 R 22.5	9.00	343	8.25	334
315/70 R 22.5	9.00	351		
295/60 R 22.5	9.00	335		
315/60 R 22.5	9.75	360	9.00	351

* Increments to be applied in absence of any specific agreement with the tyre manufacture.

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Recommendations

Tyre selection

Tyres should be selected preferably based on the vehicle manufacturer's specifications or recommendations.
The tyre size selection is typically based on required axle loads and configurations, as well as on the maximum speed capability of the vehicles.

Tyres shall be fitted to the corresponding recommended rims, as defined by the tyre manufacturer and/or by the ETRTO (European Tyre and Rim Technical Organisation) standards.

Usage, of other, allowed rims, shall be agreed upon by the tyre and/or rim or vehicle manufacturer.

It is recommended to equip vehicles with tyres of the same construction type (radial or bias) on all positions, tread patterns may vary by axle (steer, drive and trailer). Dual mounted tyres shall be same construction type and of equivalent dimensions.

Tyre storage

Tyres shall be preferably stored in cool, dry locations, away from direct sunlight or strong artificial light. Mounted or unmounted tyres should never be stored on oily floors or otherwise in contact with solvents, oil or grease. Nor should tyres be stored in the same or adjoining rooms with volatile solvents.

If possible, tyres should be stored vertically on treads. Unmounted tyres stacked horizontally (on sidewall) should be piled symmetrically and never so high as to cause severe distortion to the bottom tyre. Tyres that are mounted on rims but not on vehicles should follow the same recommendations as for unmounted tyres.

Mounting

Tyre mounting and demounting shall be handled preferably by experienced and trained personnel using proper tools and procedures.

A tyre which is not correctly mounted or which has been damaged, will not deliver optimum performance.

Rims shall be inspected prior to fitting a tyre – they shall be rust free and shall not be damaged or show any signs of wear and tear. Specifically, the rim flange areas shall be inspected thoroughly.

It is recommended to always use new valves when fitting new tubeless tyres, respectively new tubes and flaps in case of tube type tyres. New valve caps shall be used to protect valve parts from dust, dirt and humidity and thus better protect from eventual air losses.

For lubrication, use vegetable oil based, self evaporating lubricants only or special, dedicated tyre mounting lubricants.

Check position of reference line versus rim flange for correct centering.

As correct bead seating at the rim flanges is important, it may be required to use the maximum 'mounting' inflation pressure to assure correct seating. The maximum allowable 'mounting' inflation pressure is 150% of the maximum nominal inflation pressure of the tyre, but shall not exceed 10 bar. Tyre inflation pressure to be adjusted after mounting.

Inflate tyres following the industry standard and legal safety practices.

Inflation pressure

Incorrect inflation pressure is often a cause of tyre damage. Truck and bus tyres shall be inflated according to the inflation pressures as indicated in the tyre manufacturer's recommendations. Inflation pressures are typically in function of the axle loads.

Tyre inflation pressures shall be checked on a bi-weekly basis. Inflation pressures are to be checked on cold tyres. The pressures indicated in the load-inflation tables always relate to 'cold' inflations at the indicated axle loads. A slight increase of inflation pressure while operating the vehicle has been accounted for in the tables and shall not be adjusted.

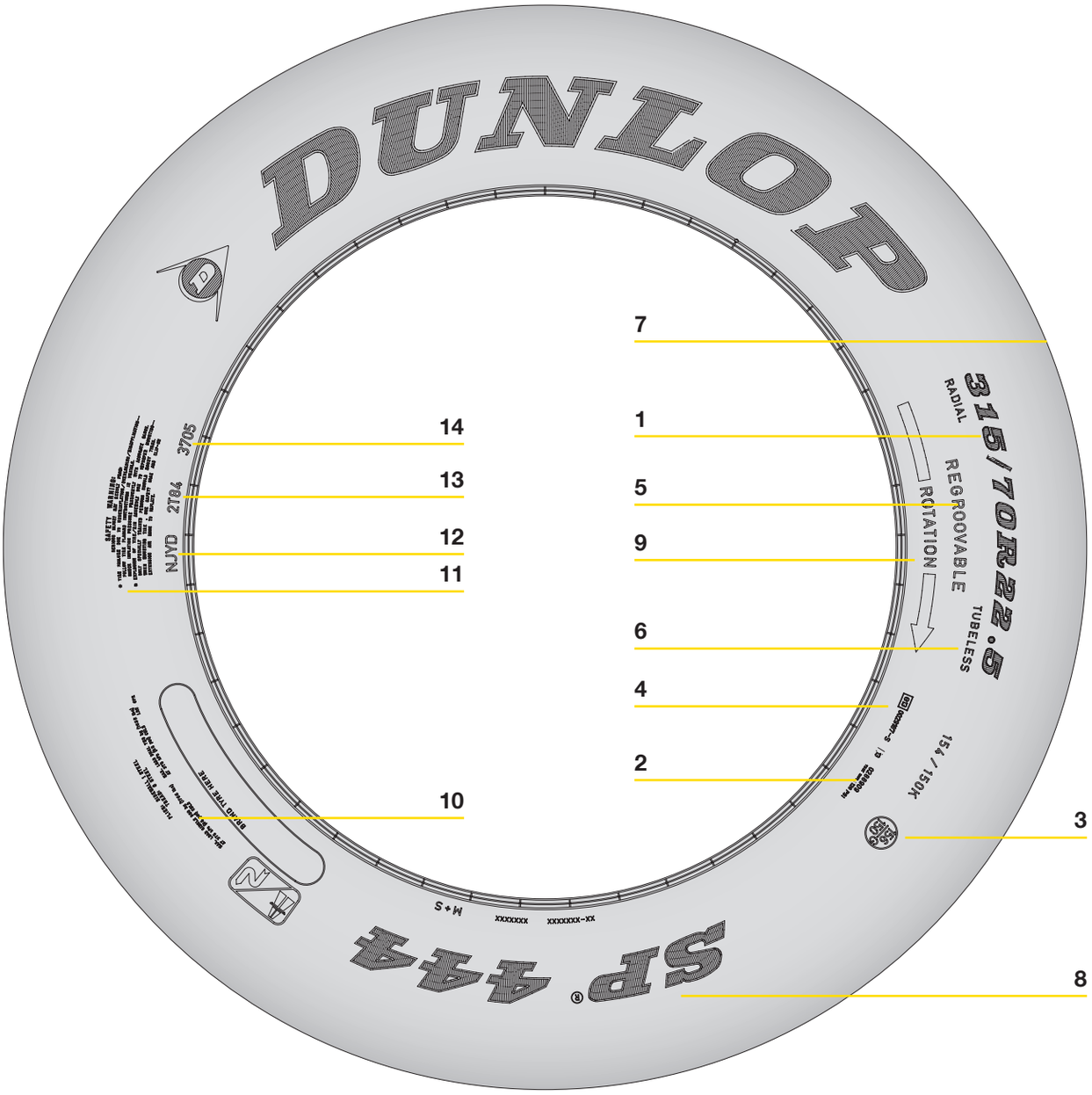
Over-and under-inflation will not only generate irregular tread wear patterns, but can also lead to premature tyre failure.

Tread depth

All countries belonging to the European Community require a minimum tread depth of 1.6 mm. Tyres are required to have at least this much tread in the central three quarters of the tread area all the way around the tyre.

All truck and bus tyres are equipped with TWIs (Tread Wear Indicators) on a few spots around the circumference. These indicators are located in the main grooves of the tread pattern and have a height of 1.6 mm from the groove bottom.

Truck tyre markings



1 Tyre Size
- Section Width in mm or inch (here 315 mm)
- Aspect Ratio (section height/section width) (here 70%)
- R indicates 'Radial' tyre
- Rim diameter (in inch) (here 22.5" rim)

2 Load and Speed Indices
154/150 L
- 1st digits indicate load index for single mounted tyre (here 154 = 3750 kg/tyre)
- 2nd digits indicate the load index for dual mounted tyres (here 150 = 3350 kg/tyre)
- Letter denominates the speed index (here L = 120 km/h max)

3 'Single point' load/speed marking
The tyre manufacturer can add an 'additional' load/speed marking on truck tyres, which would typically indicate load carrying and speed capacity for a specific application type.

4 ECE marking
The tyre complies with European homologation standard.
ECE-R54 noise number indicates that the tyre complies with ECE noise regulations.

5 Regroovable
Indicates that tyre is regroovable

6 Tubeless
Tubeless tyre (tube type tyres do also exist)

7 TWI (Tread Wear Indicator)
At these locations, small humps are located in the tread grooves; these humps indicate the minimum legally required profile depth of 1.6 mm

8 Product name
Identifies the tyre product name

9 Rotation
Indicates the driving direction (in case of tyres with directional tread pattern)

10 Tyre construction information
In case of DOT (Department of Transportation) marked tyres, this marking indicates the tyre construction

11 Safety warning
For DOT marked tyres, this 'safety warning' information is marked on the tyres

12 DOT marking
Indicates that tyre is conforming to USA FMVSS 119 regulations

13 DOT code
Identifies the production plant, the tyre size and type

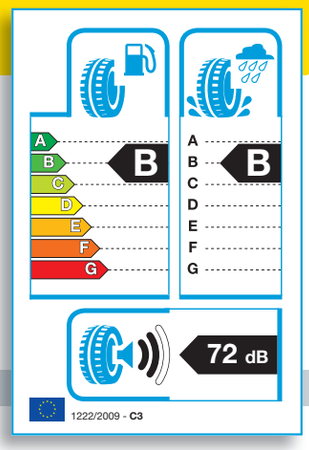
14 Date code (week, year)
Identifies the production week of the tyre (first 2 digits identify the production week, last 2 digits identify the production year)

Truck Tyre Label

What is it?

Thanks to new legislation, commercial vehicle operators are to be helped in choosing their tyres. Tyre labelling, which the European Union introduces on 1st November 2012, will ensure that tyres sold in the EU are accompanied by data related to their fuel efficiency, wet grip and exterior noise.

Clear and informative, the label information resembles that on existing energy efficiency labels with A being the highest performing and G the lowest.



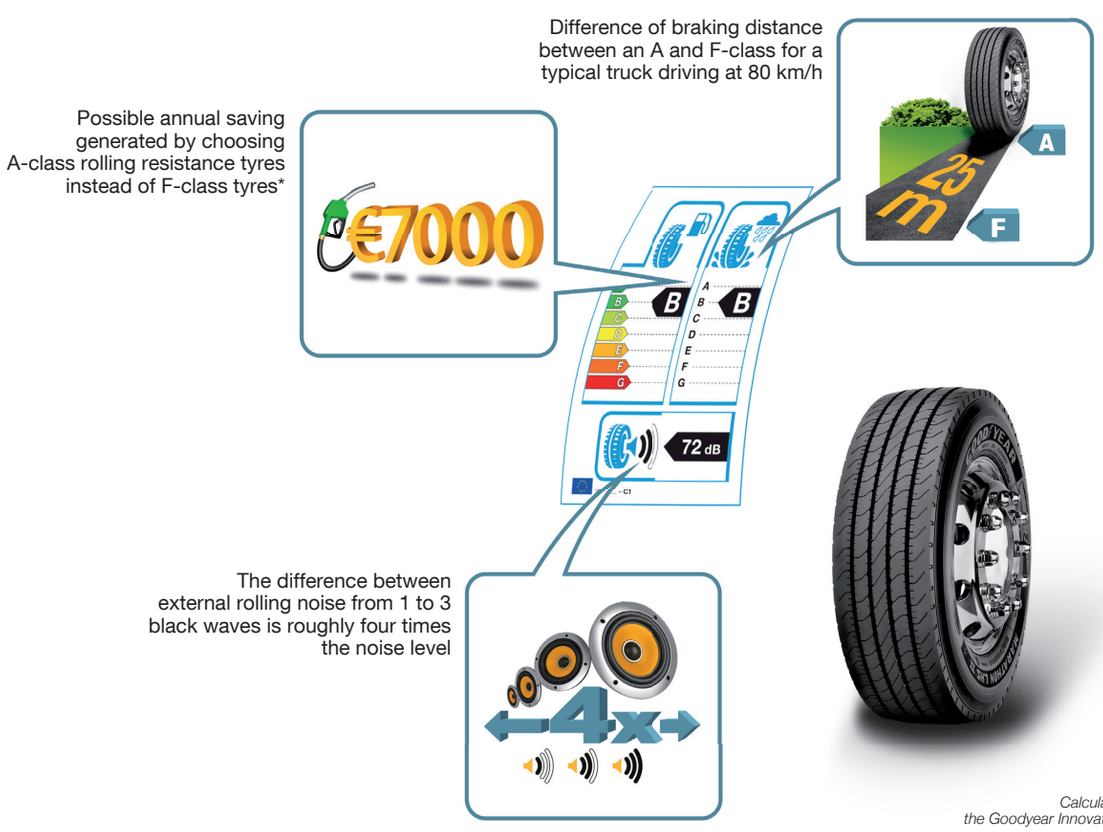
Label values shown are for illustrative purposes only.
Values for a certain tyre line/size may vary.

What does change?

Dealers have to provide information about the tyre label to the buyer at the time of purchase. This can be done in two different ways:

- By including the information on the receipt
- By handing over a separate note

Benefits of the labelling at a glance



Calculations based on tests made by the Goodyear Innovation Centre Luxembourg 2012.

* The calculation is based on the following assumption: Average fuel consumption of vehicle 32.3l/100km → 323l/1000km → 14.7% potential savings = 47.5l less fuel consumption per 1000 km → fuel price 1.50 EUR/litre = 71.25 EUR/1000km → 100,000 km mileage/year = 7,125 EUR savings/year.

What does it mean?

FUEL EFFICIENCY / ROLLING RESISTANCE
A = Most fuel efficient tyre
F = Least fuel efficient tyre
(Class G will not be used for truck tyres)

A rolling tyre deforms and dissipates energy, and is one of the resistive forces acting on a vehicle. The energy that is lost in this way is known as 'rolling resistance' and directly impacts on fuel consumption and the environment. With lower rolling resistance the tyre deformation requires less energy, less fuel and, in turn, less CO2 is emitted. A win-win situation.

Effects may vary according to the vehicle and driving conditions. However, the difference between a complete set of new A-class and F-class tyres could reduce a truck's fuel consumption by up to 15%.*

WET GRIP / BRAKING
A = Shortest braking distance
F = Longest braking distance
(Class G will not be used for truck tyres)

Tyres with excellent grip in the wet have shorter braking distances on slippery roads, essential for safety.

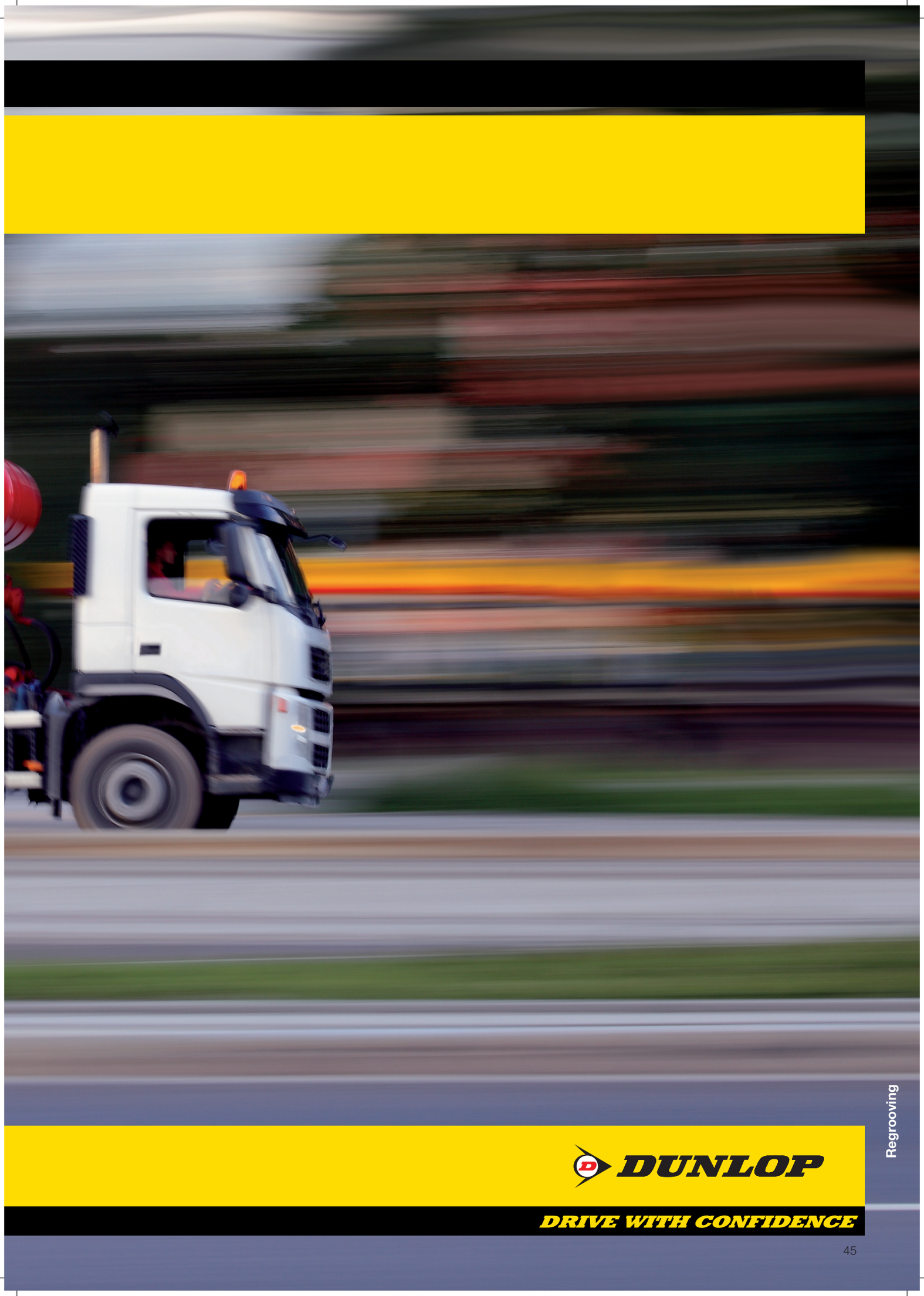
Effects may vary according to the vehicle, driving conditions and test method adopted. However, in the case of full braking, the difference between A-class and F-class tyres could be up to 30% shorter braking distance. This means for a typical truck driving at 80 km/h up to 25 m shorter braking distance.**

NOISE EMISSION / EXTERIOR NOISE
Measured in decibels (dB)
Three classes
(One wave corresponding to the quietest tyre, three to the noisiest)

A tyre's exterior noise grading is expressed in decibels (dB) and accompanied by one, two or three sound waves on the label.

One wave corresponds to the quietest tyre, three to the noisiest. In fact, three waves is the current limit, while two meets future laws and one is a further 3dBs below. The quieter the tyre the more environmental-friendly it is.

Regrooving



DUNLOP

DRIVE WITH CONFIDENCE

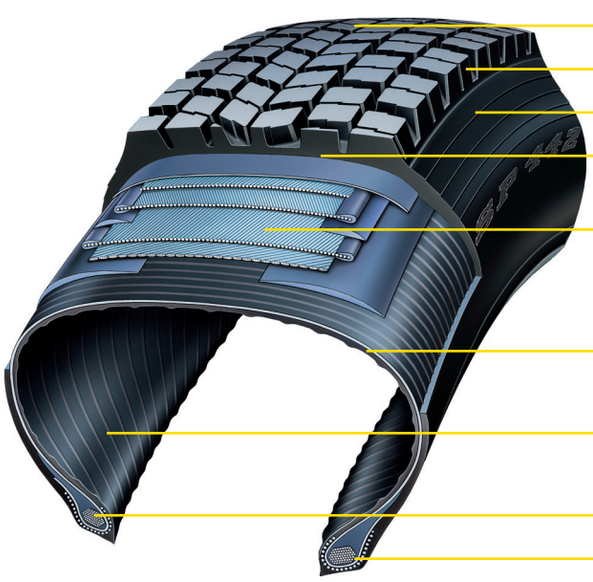
Truck tyre regrooving

Since the pneumatic tyre was patented by John Boyd Dunlop in 1888, many technology developments by Dunlop have led to the current high standards of vehicle technology. Providing a continuous succession of innovations, Dunlop is today an important partner of the automotive industry.

Cost efficiency is especially important for commercial vehicle operations. To allow the use of the complete potential of modern truck tyres, all Dunlop truck tyres are regroovable.

These guidelines provide all the required information for correct regrooving of truck tyres and thus will support the regrooving specialist to execute Dunlop truck tyre regrooving in the most efficient manner.

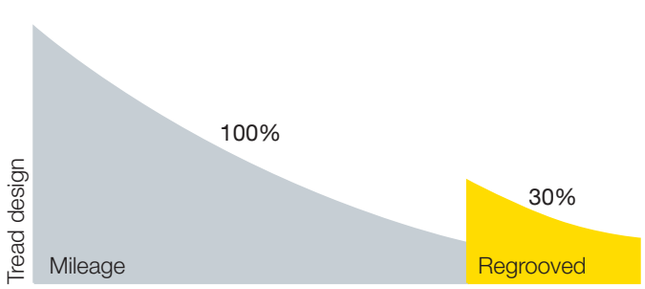
Design Principles of Dunlop Truck Tyres (Example SP 442)



Tread pattern
Shoulder area
Sidewall
Undertread
Steel belt layers
Casing (radial)
Innerliner
Bead
Bead area

All Dunlop truck tyres are designed to allow regrooving and thus increase the mileage potential and consequently improve cost efficiency for the fleets.

30% increased mileage for
10% additional cost
= around 18% savings



Recommendations and parameters

Regrooving basics

1. A regrooved tyre is a tyre, either new or retreaded, on which the tread pattern has been renewed or a new tread pattern has been produced by cutting into the tread deeper than the original moulded groove depth.
2. The regrooving of truck tyres should be entrusted solely to fully trained operators.
3. Only proven regrooving tools with electrically heated blades should be used.
4. A minimum of remaining undertread rubber is essential to avoid damage at the top breaker belt, groove cracking and/or stone damage.
5. If regrooved according to the recommendations outlined in this manual, Dunlop tyres can, in principle, be mounted on all wheel positions. However, since it has become standard practice for users to normally fit new tyres on front axles, the regrooved tyres will usually be mounted on the rear axles or trailer positions
6. Tyres which are heavily damaged in the tread area (e.g. rib tearing, multiple cutting and chipping) should not be regrooved but retreaded.

All tyres which are marked ‘Regroovable’ in the sidewall areas have extra undertread thickness for regrooving purposes.

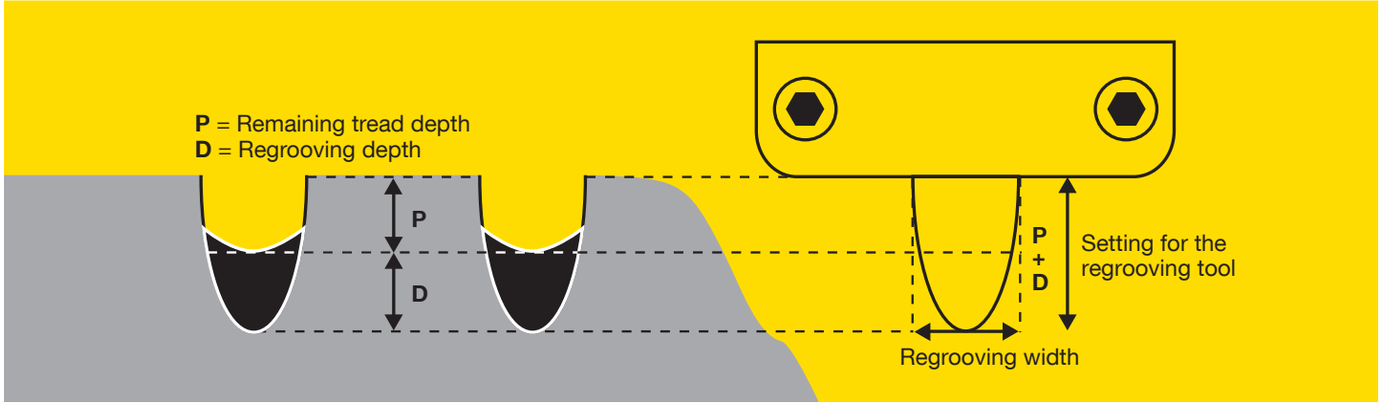
Regrooving recommendations

1. Under NO circumstances should the tyre be completely worn before regrooving. It is strongly recommended to regroove when 3-6 mm of the original design is still left.
2. Determine the blade setting depth for each individual tyre as follows:

   a) Measure the remaining groove depth AT THE POINT OF LOWEST TREAD DEPTH.

   b) Set the blade in the cutter head to the ‘minimum remaining groove depth’ + 3 mm maximum regrooving depth.

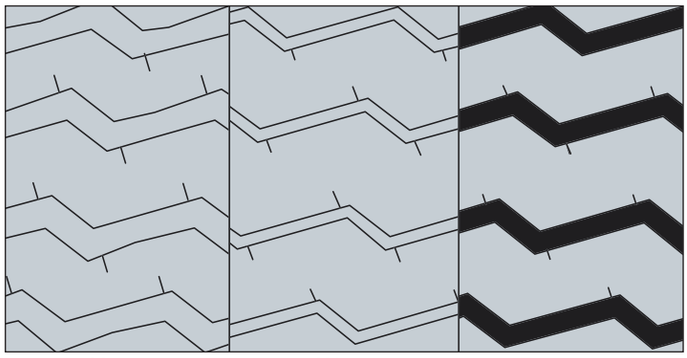
   This will maintain a 3 mm gauge under the regrooved tread.
3. While regrooving, hold the cutter so that the underside of the cutting head is flush against the tread surface.
4. The maximum regrooving depth is 3 mm for all Dunlop truck tyres.
5. If the wear is irregular, probing of the remaining undertread gauge is necessary to ensure that 3 mm of undertread will remain after regrooving.



Regrooving data

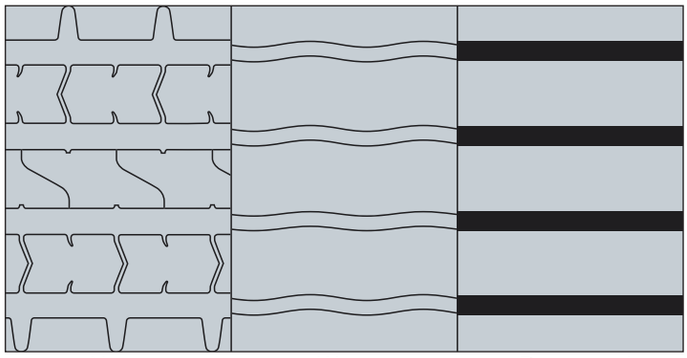
SP 111

Size	Regrooving Width	Max. Regrooving Depth
9.5R17.5	8 mm	3 mm
10R17.5	8 mm	3 mm



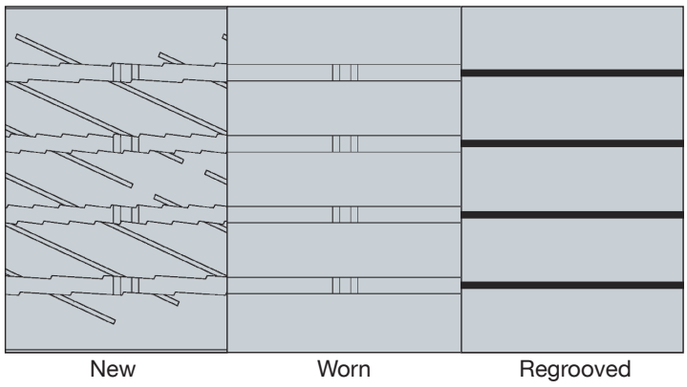
SP 241

Size	Regrooving Width	Max. Regrooving Depth
425/55R19.5	10 mm	3 mm



SP 244

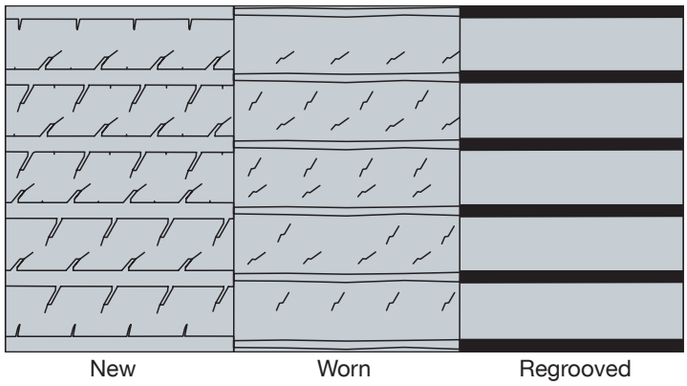
Size	Regrooving Width	Max. Regrooving Depth
435/50R19.5	6 - 8 mm	3 mm
385/65R22.5	6 - 8 mm	3 mm
425/65R22.5	6 - 8 mm	3 mm
445/65R22.5	6 - 8 mm	3 mm



SP 252

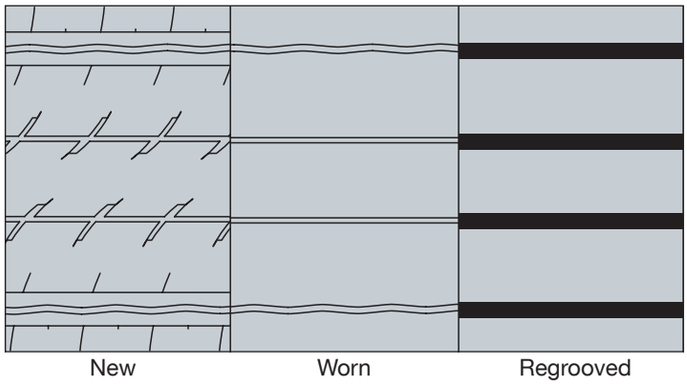
Size	Regrooving Width	Max. Regrooving Depth
435/50R19.5	6 mm	3 mm

Number of grooves may vary with different trye sizes



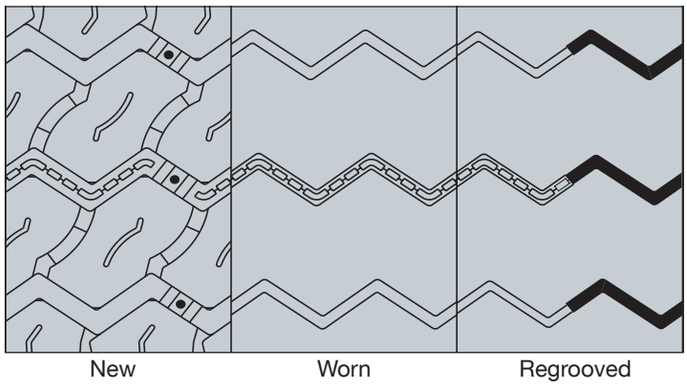
SP 252 Low Platform Trailer

Size	Regrooving Width	Max. Regrooving Depth
9.5R17.5	6 mm	3 mm
205/65R17.5	6 mm	3 mm
215/75R17.5	6 mm	3 mm
235/75R17.5	6 mm	3 mm
245/70R17.5	6 mm	3 mm
245/70R19.5	6 mm	3 mm
265/70R19.5	6 mm	3 mm
285/70R19.5	6 mm	3 mm



SP 282

Size	Regrooving Width	Max. Regrooving Depth
385/65R22.5	6-8 mm	3 mm
445/65R22.5	6-8 mm	3 mm



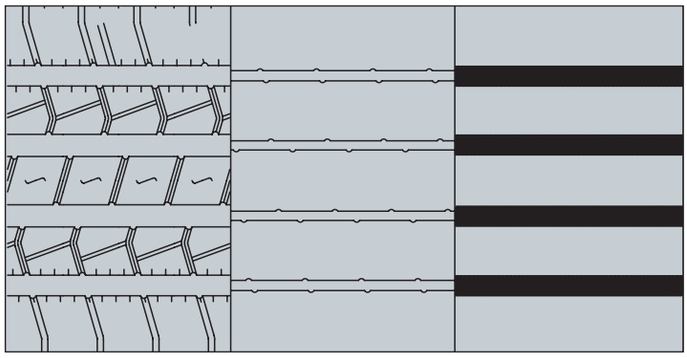
DUNLOP

DRIVE WITH CONFIDENCE

Regrooving data

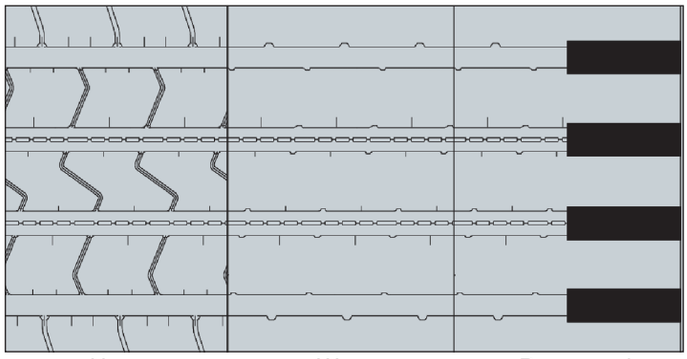
SP 344 (17.5” / 19.5”)

Size	Regrooving Width	Max. Regrooving Depth
205/75R17.5	6-8 mm	3 mm
215/75R17.5	6-8 mm	3 mm
225/75R17.5	6-8 mm	3 mm
235/75R17.5	6-8 mm	3 mm
245/70R17.5	6-8 mm	3 mm
265/70R17.5	6-8 mm	3 mm
245/70R19.5	6-8 mm	3 mm
265/70R19.5	6-8 mm	3 mm
285/70R19.5	6-8 mm	3 mm
305/70R19.5	6-8 mm	3 mm



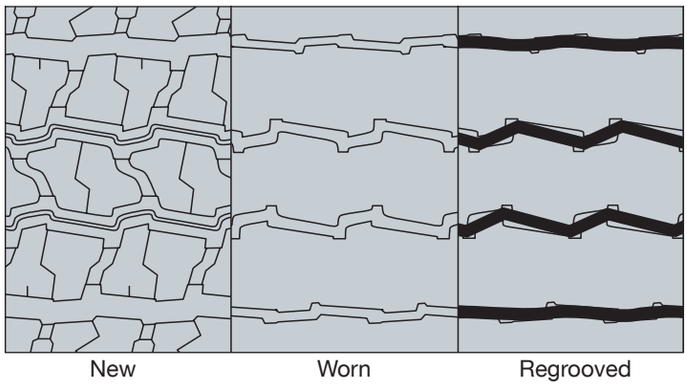
SP 344 (22.5”)

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	6-8 mm	3 mm
295/60R22.5	6-8 mm	3 mm
295/80R22.5	6-8 mm	3 mm
315/60R22.5	6-8 mm	3 mm
315/70R22.5	6-8 mm	3 mm
315/80R22.5	6-8 mm	3 mm
385/55R22.5	6-8 mm	3 mm
385/65R22.5	6-8 mm	3 mm



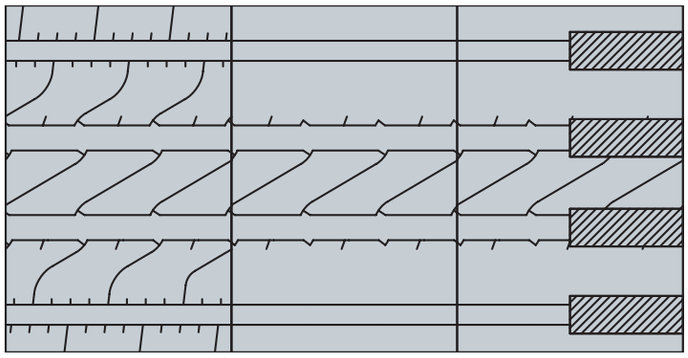
SP 362

Size	Regrooving Width	Max. Regrooving Depth
295/80R22.5	6 mm	3 mm
315/70R22.5	6 mm	3 mm
315/80R22.5	6 mm	3 mm
385/65R22.5	6 mm	3 mm



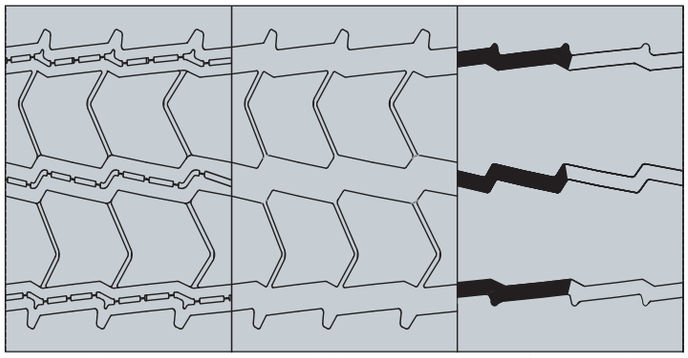
SP 372

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	6-8 mm	3 mm
295/80R22.5	6-8 mm	3 mm
315/60R22.5	6-8 mm	3 mm



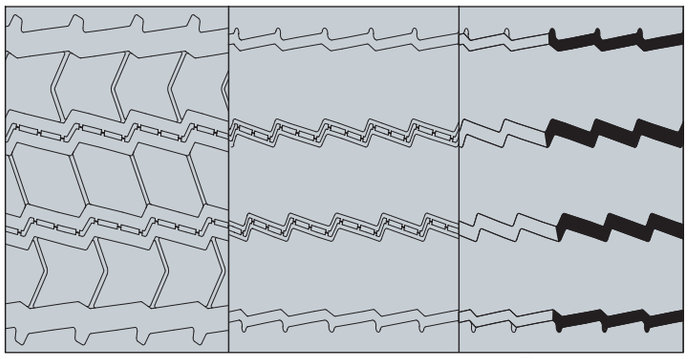
SP 382 4 Rib

Size	Regrooving Width	Max. Regrooving Depth
11R22.5	6-8 mm	3 mm
13R22.5	6-8 mm	3 mm
295/80R22.5	6-8 mm	3 mm
315/80R22.5	6-8 mm	3 mm
385/65R22.5	6-8 mm	3 mm



SP 382 5 Rib

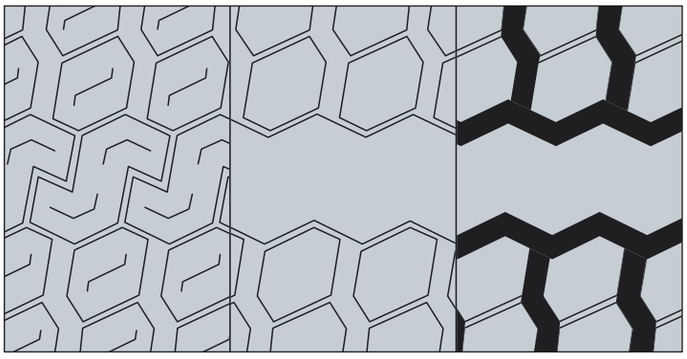
Size	Regrooving Width	Max. Regrooving Depth
11 R 22.5	6-8 mm	3 mm
13 R 22.5	6-8 mm	3 mm
295/80R22.5	6-8 mm	3 mm
315/80R22.5	6-8 mm	3 mm
385/65R22.5	6-8 mm	3 mm



Regrooving data

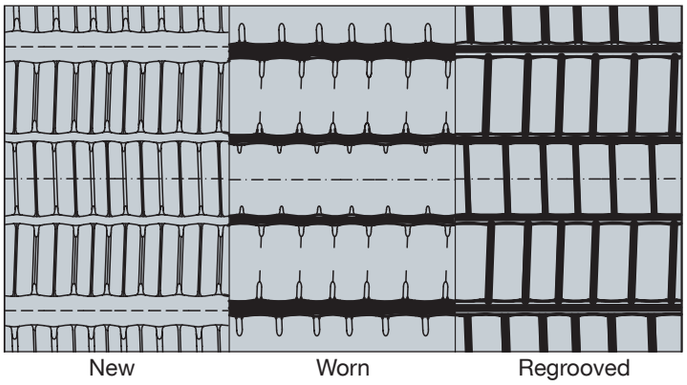
SP 431 (22.5”)

Size	Regrooving Width	Max. Regrooving Depth
10R22.5	10 mm	3.5 mm



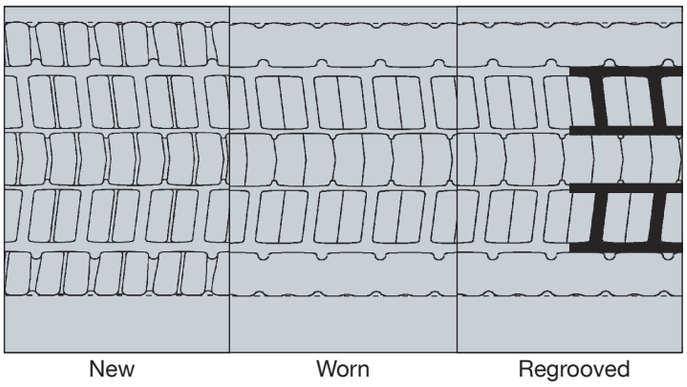
SP 444 (17.5” / 19.5”)

Size	Regrooving Width	Max. Regrooving Depth
205/75R17.5	6 mm	3 mm
215/75R17.5	6 mm	3 mm
225/75R17.5	6 mm	3 mm
235/75R17.5	6 mm	3 mm
245/70R17.5	6 mm	3 mm
265/70R17.5	6 mm	3 mm
245/70R19.5	6 mm	3 mm
265/70R19.5	6 mm	3 mm
285/70R19.5	6 mm	3 mm
305/70R19.5	6 mm	3 mm



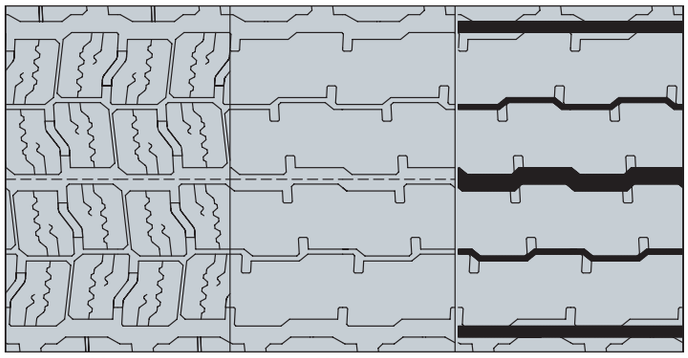
SP 444 (22.5”)

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	6-8 mm	3 mm
295/60R22.5	6-8 mm	3 mm
295/80R22.5	6-8 mm	3 mm
315/60R22.5	6-8 mm	3 mm
315/70R22.5	6-8 mm	3 mm
315/80R22.5	6-8 mm	3 mm



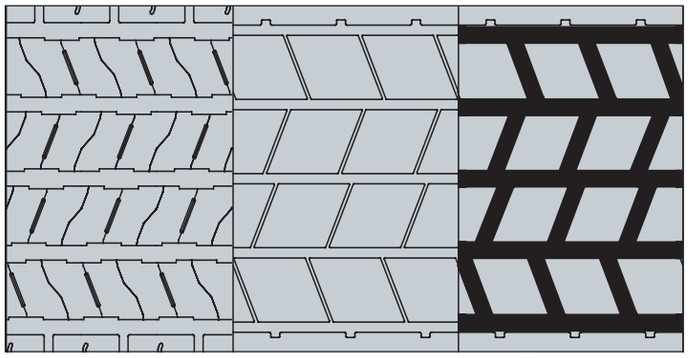
SP 462

Size	Regrooving Width	Max. Regrooving Depth
295/80R22.5	6-8 mm	3 mm
315/70R22.5	6-8 mm	3 mm
315/80R22.5	6-8 mm	3 mm



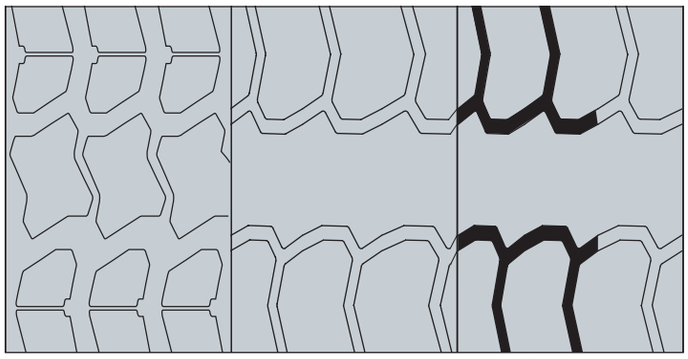
SP 472

Size	Regrooving Width	Max. Regrooving Depth
275/70 R 22.5	3 mm	6 mm



SP 482

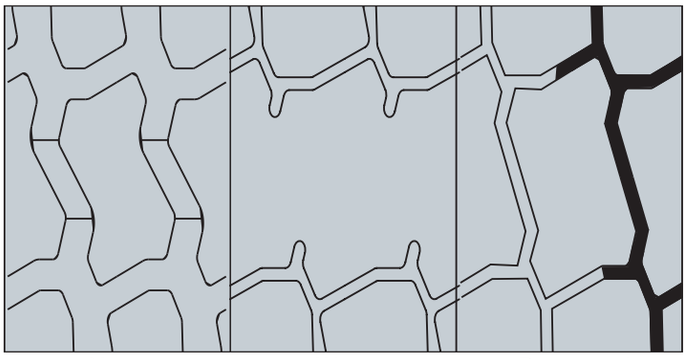
Size	Regrooving Width	Max. Regrooving Depth
13R22.5	6-8 mm	3.5 mm
295/80R22.5	6-8 mm	3.5 mm
315/80R22.5	6-8 mm	3.5 mm



Regrooving data

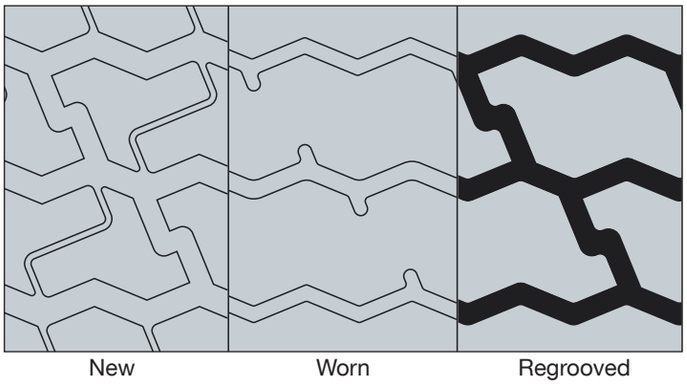
SP 492

Size	Regrooving Width	Max. Regrooving Depth
13R22.5	10 mm	3 mm



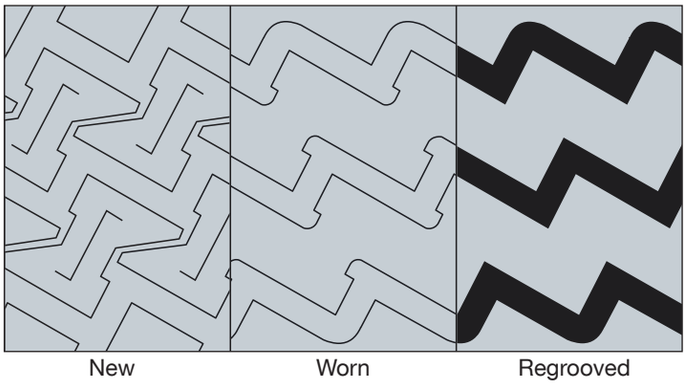
SP 502

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	10 mm	3 mm



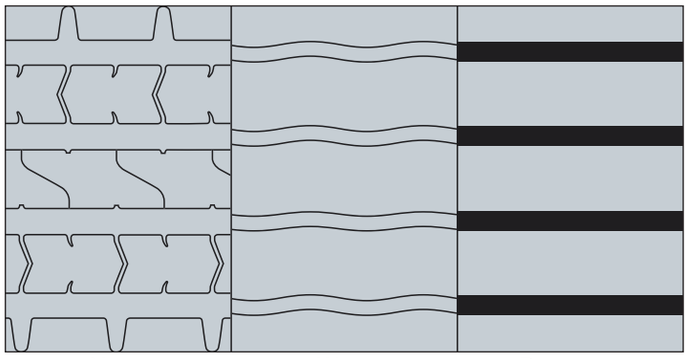
SP 531 City

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	10 mm	3.5 mm



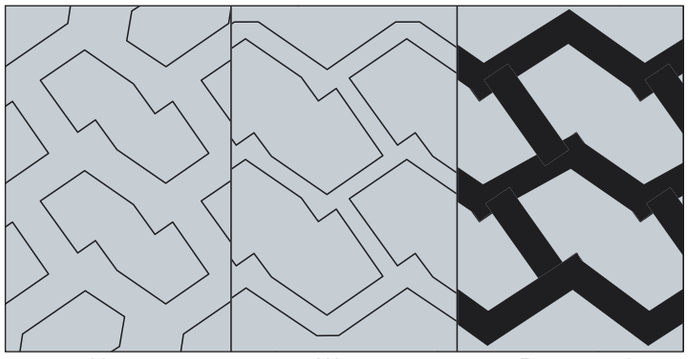
SP 741 City

Size	Regrooving Width	Max. Regrooving Depth
275/70R22.5	6-8 mm	3 mm



SP 921

Size	Regrooving Width	Max. Regrooving Depth
14.00R20	10 mm	3 mm



Notes

Notes

Goodyear Dunlop Nordic
Rosenlundsgatan 50, 1tr.
Box 38181
100 64 Stockholm

Phone
+46 8 4662000
Fax
+46 8 4662092